

TITLE,C,135

IN CIRCUIT JUNCTION TESTER

PRINTED CIRCUITS

TIMER FOR CENTRAL HEATING SYSTEMS

DESIGN AND IMPLEMENTATION OF A TESTER FOR DIGITAL AND LINEAR INTEGRATED-CIRCUIT CHIPS

LOW COST WINCHESTER

DESIGN OF A PH TITRATOR AS A COMPONENT PART OF A PERSONAL COMPUTER [PC.]

DEBOUNCE CIRCUIT FREEZES DATA

REGULATED BENCH PSU [PS.]

TWO- TO FOUR-ELECTRODE CONVERSION MODULE FOR CONDUCTOMETRIC MEASUREMENTS [2/4]

DESIGN CUSTOM POWER SOURCES WITH SWITCHING-REGULATOR CHIP

POWER DEVICES DRIVE TUNABLE OSCILLATORS

2-METER PREAMPLIFIER USING THE TI S3030 DUAL-GATE GAASFET, A [2M/AMP./GAASFET.]

PHOTOMETRIC INSTRUMENT WITH AUTOMATIC SWITCHING BETWEEN PHOTON COUNTING AND ANALOG MODES

LARGE DYNAMIC RANGE CHARGE AMPLIFIER ADC FOR THE FERMILAB COLLIDER DETECTOR FACILITY, A [AMP./A

POWER SUPPLIES FOR MICROS [PS.]

D.C. SUPPLIES FROM A.C. SOURCES (PART 4) [DC./AC.]

3-CHIP LOGIC ANALYZER

SPEED ALCHEMY

THESE ARE THE BEST OF TIMES

TIME AVERAGED BACKGROUND COMPENSATOR FOR GEIGER-MULLER COUNTERS, A (LLL)

ROM-LESS, RAM-LESS CQ SENDER, THE [ROM./RAM.]

PROGRAMMABLE DECADE RESISTOR

TDR FOR COMPONENT MEASUREMENT [TDR.]

INSTRUMENTATION TECHNIQUES (PART 2)

DESIGN AND FABRICATION OF A DIGITAL CORRELATOR

NOVEL RS BISTABLE

ID TIMER WITH TONE AND DISPLAY

ID REMINDER

ADD FREQUENCY SCAN TO A RECEIVER FOR \$10

SCAN SYSTEM FOR SEXTUPOLE-CORRECTED SCANNING TRANSMISSION ELECTRON MICROSCOPY

SINGLE RAM FOR PROGRAM AND DATA FOR AN 87C51 [RAM.]

EOT FOR THE FRONT RUNNER, AN A WORKING REAR-END WARNING DEVICE IN HO

5V SUPPLY INCLUDING MOMENTARY BACKUP, A

MICROCOMPUTER INTERFACING: AN ASYNCHRONOUS SERIAL COMMUNICATIONS INTERFACE

DIGITAL ELECTRONICS COURSE, THE ENLIGHTENING YOU ON LED'S [LED.]

LARGE DIGITAL DISPLAY FOR LECTURE THEATERS, A

ULTIMATE REPEATER IDER CHOOSE FROM A LIBRARY OF REPEATER IDS IN EITHER CW OR VOISE. [CW.]

DEVICE FOR QUENCHING STUDIES ON RARE GAS AND METAL HALIDE EXCITED COMPLEXES

IN-CIRCUIT DIGITAL IC TESTER

ADD 12-V OUTPUT TO 5-V BUCK REGULATOR [12V/5V]

CREATE YOUR OWN IC'S

INEXPENSIVE PLASMA DISCHARGE SOURCE FOR MOLECULAR EMISSION SPECTROSCOPY WITH APPLICATION TO

BUILD R-E'S DIGITAL DASHBOARD

BRIEFLY SPEAKING: GEL CELL BATTERIES

CONSTRUCTION OF INEXPENSIVE DIGITAL PH METERS, THE

VMOS CIRCUITS [VMOS.]

ICS FOR USE IN VHS VIDEOCASSETTE RECORDERS [VCR.]

DEVELOPMENT OF A NEW DESIGN FOR MULTIPURPOSE METER: "CALO-PH METER"

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HOW MAXIM BROKE AN OP-AMP PERFORMANCE BARRIER [OA.]
80 TUNE COMPUTER, THE
RC MODEL PROTECTOR
TWENTY-FOUR HOUR AMBULATORY PH RECORDING WITH COMPUTERISED ANALYSIS [24HR]
ARGUS TIME-OF-FLIGHT SYSTEM, THE [TOF.]
BENCH TECHNICIAN'S TOOLBOX, A
DESIGNING A CACHE FOR A FAST PROCESSOR
CATHODE-DRIVEN TETRODE FOR 6 METERS, A [6M]
DOWNUNDA PROJECT, THE (PART 1)
16 CHANNEL A/D CONVERTER [ADC.]
ANALOG TO DIGITAL, DIGITAL TO ANALOG
T-JUMP/FT-IR SPECTROSCOPY: A NEW ENTRY INTO THE RAPID, ISOTHERMAL PYROLYSIS CHEMISTRY OF SOLIDS
2-METER FM RECEIVER [2M/FM.]
EXPLORER, THE HF RECEIVER FOR 40 AND 80 METERS. [HF./80M]
PORT MAPPED A/D CONVERTER, A [ADC.]
FAST, LOW COST DATA ACQUISITION SYSTEM, A [DAS.]
TEST STANDS FOR THE CENTRAL DRIFT CHAMBER FRONT END HYBRID IN THE STANFORD LINEAR COLLIDER DE
SIXTEEN CHANNEL A/D BOARD [16]
FUZZY COARSE CODING UP-GRADES A/D CONVERTERS FOR PULSE-HEIGHT ANALYSIS [ADC./PHA.]
SWITCHED MODE POWER SUPPLIES [SMPS.]
ALL-SOLID-STATE CAMERA FOR THE 525-LINE TELEVISION FORMAT [TV.]
INTERESTING PREAMPLIFIER FOR 144 MHZ [AMP./144MHZ]
2M TRANSVERTER
HI-FI CX DECODER FOR RECORDS
SINGLE D-FET 4-QAM WITH SC TECHNOLOGY, A [FET.]
TWO-FER CONSTRUCTION [2]
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DESIGN OF STATE-VARIABLE SC FILTERS BY MEANS OF POLYNOMIAL TRANSFORMATION
INSIDE SWITCHING POWER SUPPLIES [PS.]
DESIGN STUDY: POWER INVERSION
ADVENTURES IN SATELLITE DXING (PART 3)
HG RESONANCE LAMP WITH CONTROLLED 254-NM LINE PROFILES FOR TRANSIENT TEMPERATURE MEASUREMENT
BUILD A 6-METER "MINI-LINI" [6M]
PA TONE CONTROL
LR OSCILLATOR INDICATES INDUCTANCE DIRECTLY
BUILD A ONE-AMP CURRENT INJECTOR [1A]
USING THE TLC549 SERIAL OUTPUT ADC [ADC.]
IC VOLTAGE REGULATOR IS ADJUSTABLE
IC MULTIPLEX DECODER IMPROVES STEREO FM PERFORMANCE [MUX./FM.]
IC VOLTAGE REGULATORS
64-PATCH CZ RAM CARTRIDGE FOR \$15, A [RAM.]
AM286ZX/LX INTEGRATED PROCESSOR, THE THE SINGLE CHIP EMBEDDED PC (PART 1) DEVICE OVERVIEW & SY
REGULATOR HAS LOW DROP-OUT VOLTAGE
BIGGEST HAM COUNTRY, THE - JAPAN THE HOW AND WHY OF THE BIGGEST HAM BOOM ON THE PLANET.
LOGIC CONTROLS ADJUSTABLE-CURRENT CHARGER
CONVERSION TECHNIQUES ADAPT VOLTAGES TO YOUR NEEDS
RUN YOUR PC ON DSP POWER [PC./DAP.]
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CIRCUIT REDUCES POWER-MOSFET LEAKAGE [MOSFET.]
CURRENT MIRRORS, AMPLIFIERS AND DUMPERS IMPROVING THE PERFORMANCE AND APPLICATION OF THE BA
AUTOMATIC COLORIMETRIC DETECTOR FOR TRACES OF NITROGEN DIOXIDE IN AIR
ATV TRANSMITTER (PART 2) GET ON ATV EASILY AND QUICKLY. [TV.]
NEW ENGLAND'S NICAD PER-CHARGER [NICD.]
PHASE-COHERENT SYNTHESIS AND PRECISION FREQUENCY MEASUREMENTS IN THE FAR INFRARED [IR.]
GENERATE HV WITH AUTO IGNITION COIL [HV.]
TWO-METER TRANSVERTER PROJECT, THE [2M]
APPLE II DIRECT MEMORY ACCESS INTERFACE TO ACQUIRE NEUTRON SCATTERING TIME OF FLIGHT SPECTRA [A
SERVO BUFFER AMPLIFIER OLD RC SYSTEMS LIVE AGAIN [AMP.]
INTRODUCTION TO THE BILATERAL TRANSVERTER, AN
VOLTAGE-REFERENCE CIRCUIT BOASTS LOW NOISE
2-METER FREQUENCY SYNTHESIZER, A [2M]
MONOLITHIC DIFFERENCE AMP EASES THE DESIGN OF A VARIETY OF CIRCUITS [AMP.]
GETTING STARTED ON VHF: A 6-METER RECEIVING CONVERTER (PART 2) [VHF./6M]
TRANSMITTER DESIGN - EMPHASIS ON ANATOMY (PART 4) THE FINAL TOUCHES ARE APPLIED TO OUR TRANSMI
TECHNO-WHIZZY 1, THE (PART 2) BUILD A DIRECT DIGITAL SYNTHESIS (DDS) TRANSMITTER.
2 METER FET AMPLIFIER FOR YOUR HANDHELD, A BUILD THIS SIMPLE, INEXPENSIVE FET AMPLIFIER. [2M/FET./A
GENERAL APPROACH TO SYNTHESIS AND ANALYSIS OF QUASI-RESONANT CONVERTERS, A
EXPERIMENTAL TWO-METER CONVERTER WITH GALLIUM ARSENIDE TRANSISTORS, AN [2M/GAAS.]
EASY TO BUILD 2 METER PREAMP AND GATED NOISE SOURCE, AN [2M/AMP.]
REGULATOR PERFORMS OVER WIDE LOAD RANGE WITH VERY LOW DROPOUT
MMIC MULTIPLIER CHAINS FOR THE 902-MHZ BAND [MMIC./902MHZ]
KENWOOD 4100A CROSSBAND REPEATER OPERATION TURN THIS MOBILE RIG INTO A MINI-REPEATER.
SATURABLE REACTOR ASSISTED SOFT-SWITCHING FULL-BRIDGE DC-DC POWER CONVERTORS [DC.]
DC-TO-DC CONVERTER TRANSISTORS [DC.]
DC-TO-DC CONVERTER TRANSISTORS [DC.]
3-A DC-DC CONVERTER NEEDS NO HEAT SINK [3A/DC.]
SWITCHING CONTROLLER CHIP HANDLES 100 W FROM A 5-PIN PACKAGE [100W]
DRIVER IC COMBINES WITH DISCRETE PNP TO MAKE LOW-DROPOUT REGULATOR
NEW SWITCHING REGULATOR, AN IMPROVED BCD-TO-7-SEGMENT DECODER, ANOTHER BUZZ WORD AND WHAT
PULSE SHARPENING IN A UNIFORM LC LADDER NETWORK CONTAINING NONLINEAR FERROELECTRIC CAPACITO
SIMPLE RF MATCHING CIRCUIT FOR CONVERSION OF ELECTROSURGICAL UNITS OR LABORATORY AMPLIFIERS T
USE OF VIDEO SWITCHES, MULTIPLEXERS, CROSSPOINTS AND BUFFER AMPLIFIERS, THE. (PART 1) [MUX./AMP.]
IC TIMER CIRCUIT YIELDS 50% DUTY CYCLE
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MOS POWER TRANSISTOR AND CERAMIC THYRATRON FOR FAST HIGH VOLTAGE PULSER [MOS./HV.]
BUILD A LOW-COST MORSE-CODE TRANSMITTER
TRANSFORMERLESS 5-VOLT REGULATOR [5V]
SWITCHING POWER SUPPLIES AN INTRODUCTION [PS.]
PRECISION POWER SUPPLY [PS.]
CASSETTE BOX SPECIAL REPLACE THAT GUY LOMBARDO TAPE WITH A 5-WATT 80M TRANSCEIVER! [5W]
ATV TRANSMITTER (PART 1) GET ON ATV EASILY AND CHEAPLY. [TV.]
12-BIT ANALOGUE-TO-DIGITAL CONVERTER [ADC.]
TRANSISTOR TESTER
MEASURE PULSE-WIDTH DIFFERENCES DIRECTLY
STABLE, INEXPENSIVE, LOW-FREQUENCY SINE WAVE GENERATOR USING DIGITAL TECHNIQUES [LF.]
CHIP SET SUPPORTS THE 16-MHZ 80386 UP AND OFFERS COMPATIBILITY WITH PC/AT [16MHZ/UP./PC.]

SIMPLE RS-485 NETWORK, A: EXPLOIT THE NINE-BIT SERIAL COMMUNICATION MODES OF THE 8051, 8096BH, 68H
CLOCKED, FAST ELECTRONICS TRIGGER FOR HIGH ENERGY PHYSICS, A
PUT A 386SX TIGER IN YOUR TANK!
ADVANCED DMA COPROCESSOR FOR 32-BIT MICROSYSTEMS [DMA.]
MULIPLE-OUTPUT POWER SUPPLIES [PS.]
TIMERS AND COUNTERS
PROPEL HIGH-DENSITY BACKPLANE DESIGNS WITH UP-FRONT ENGINEERING
BI-DIRECTIONAL AMPLIFIER FOR SSB TRANSCEIVERS, A [AMP./SSB.]
IC CHIP SET FOR 20-BIT A/D CONVERSION, AN [ADC.]
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16-STEP PROGRAMMABLE DIGITAL CONTROLLER, A
PK-232 CONNECT MEMORY LETS YOU KNOW WHAT YOU MISSED.
UP/DOWN LATCHING SEQUENCER KEEPS ORDER
ANALOGUE DE-GLITCH CIRCUIT
DUAL D FLIP-FLOP FORMS VCO [FF./VCO.]
ONE'S COMPLEMENT ADDER ELIMINATES UNWANTED ZERO [1]
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FREQUENCY MULTIPLEXER FOR ULTRASONIC DOPPLER BLOOD FLOW SIGNALS [MUX.]
BUILD SIMPLE 32-BIT PATTERN GENERATOR
SIMPLE WINCHESTER
RAM DYNAM' [RAM.]
SIMPLE PULSED AMPLIFIER CONTROLLER, A [AMP.]
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PHOTOELECTRIC SENSOR DETECTS (AND COUNTS) ENTRANCES & EXITS
PROPAGATION DELAY THE LOGIC GREMLIN
PROGRAMMABLE DIGITAL WAVEFORM GENERATOR
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DATA-ACQUISITION SYSTEM FOR PHOTOELECTRON AND ELECTRON ENERGY LOSS SPECTROMETERS [DAS.]
BIT-SLICE PROCESSOR CONVERTS RADAR POSITION COORDINATES
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BUILD AN IN-CIRCUIT TRANSISTOR TESTER FOR \$10
SIMPLE IN-CIRCUIT IC TESTER FOR LINE DRIVERS AND RECEIVERS
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FAST DATA ACQUISITION SYSTEM FOR NEUROPHYSIOLOGICAL SIGNALS BASED ON A PERSONAL MICROCOMPU
AC MOTOR SPEED CONTROLLER [AC.]
20/20 DUAL MONOBLOCK TUBE AMPLIFIER, A [AMP.]
NS32000-BASED SINGLE-BOARD COMPUTER PROVIDES Z80B FOR I/O AND DMA CONTROL [SBC./IO./DMA.]
BUILD A Z8-BASED CONTROL COMPUTER WITH BASIC (PART 1)
COMMODORE 64 80-COLUMN TERMINAL, THE
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CAR STEREO IN YOUR HOME
LOW COST MULTI-MODE TERMINAL EXPANDS INTO AN IBM/DEC COMPATIBLE
"ON"-GATED PHOTOMULTIPLIER CIRCUIT FOR THE DETERMINATION OF PHOSPHORESCENCE LIFETIMES, AN
12-BIT DAC WITH VARIABLE STEP SIZE (LLL) [DAC.]
IN-CIRCUIT IMPEDANCE MEASUREMENT USING CURRENT SENSING

40/80 METER WAVE RYDER A QRP TUBE TRANSMITTER POWERED BY 12 VOLTS DC. [80M/12V/DC.]
SNAP-ACTION THYRISTOR CONTROL CIRCUIT STABILIZES RELAY PULL-IN AND DROP-OUT
HYBRID, MODULAR CONVERTERS - HIGH PERFORMANCE AND GETTING BETTER
PRECISION OP AMP ENDS CONCESSIONS IN SPEED, NOISE, AND DC PERFORMANCE [OA./DC.]
EFFECT OF EXTERNALLY INDUCED FLUCTUATIONS ON AN ON-OFF TEMPERATURE CONTROLLER
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MULTICHANNEL PWM TELEMETRY SYSTEM FOR KINEMATIC GAIT ANALYSIS, A [PWM.]
COMPLETE RS-232 INTERFACE CONTAINED ON ONE 5-V CHIP [1/5V]
MEMORY BUS DRIVER CUTS DRAM ERRORS [DRAM.]
TEMPERATURE DIFFERENCE-TO-FREQUENCY CONVERTER USING RESISTANCE TEMPERATURE DETECTORS, A [R
TEN-CHANNEL GRAPHIC EQUALIZER
FINDING PARTS, COMPUTER COMMUNICATIONS, AND MORE!
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EASY RS-232-C
"FUNCTION GENERATOR" CIRCUITS FROM YOUR SIGNAL GENERATOR (PART 1)
LOW-NOISE CIRCUITRY FOR LOW-TEMPERATURE NMR AND SQUIDS [NMR./SQUID.]
TIRED OF JUST READING RESULTS? LET YOUR INSTRUMENT DO THE TALKING
UC'S EPROM ALLOWS ON-LINE PROGRAMMING [EPROM.]
IN-RANGE FREQUENCY DETECTOR HAS JITTER-FREE RESPONSE
RS-232 PORT FOR THE C-64 ALLOWS EASY FILE TRANSFER TO AND FROM THE C-64.
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AC/ACT LOGIC SUPPLIES THE GLUE FOR BUS INTERFACE
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ICOM COMPUTER CONTROL
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RICH MWPC PAD READOUT BY USING CUSTOM MICROPLEX I.C., A [MWPC.]
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DG536 WIDEBAND VIDEO MULTIPLEXER IN CROSSPOINT SWITCHING APPLICATIONS [MUX.]

MICROPROCESSOR-CONTROLLED DEVICE FOR ISOTOPE-RATIO MEASUREMENTS BY MASS SPECTROMETRY, A [

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ELECTROMAGNETIC FIELDS AND YOUR HEALTH [EM.]

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ALGORITHM SPEEDS NONRESTORING DIVISION IN UPROGRAMMED SYSTEMS

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BUILD YOUR OWN A/D CONVERTER FOR OPTIMUM PERFORMANCE [ADC.]

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NEW ADC CIRCUIT FOR NUCLEAR SPECTROSCOPY BASED ON DIGITAL SIGNAL PROCESSING TECHNIQUES, A [AD

GO/NO-GO TESTER CHECKS OUT 16-WIRE RIBBON CABLE FAST

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HOW TO BUILD AN INSTANT IN-LINE INVERTER FOR YOUR NEGATIVE ELECTRONIC KEY

SIMPLE, REMOTE-CONTROL CIRCUIT TAKES THE PRESSURE OFF YOUR "TIRED DOGS!", A

BUILD BERT, THE BASIC EDUCATIONAL ROBOT TRAINER (PART 1)

RESOLVE 22 BITS EASILY WITH CHARGE-BALANCE ADCS [ADC.]

DESIGNER'S GUIDE TO SAMPLING A/D CONVERTERS (PART 1) BASIC CHARACTERISTICS DISTINGUISH SAMPLING

INTEGRATED SERVICES DIGITAL NETWORK SPARKS VLSI TELECOMM-IC EXPLOSION [ISDN./VLSI.]

STUDY OF THE SHORT-TERM RATE EFFECT IN PHILIPS XP-2008 PHOTOMULTIPLIER TUBES, A [PMT.]

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IGBT AUDIO AMPLIFIER [IGBT./AMP.]

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AF SIGNAL GENERATOR [AF.]
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MICROPROCESSOR-BASED RAILWAY INTERLOCKING CONTROL WITH LOW ACCIDENT PROBABILITY [UP.]
MICROPROCESSOR-BASED VARIABLE-BIAS DIFFERENTIAL RELAY FOR GENERATOR PROTECTION [UP.]
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MICROPROCESSOR-BASED CONTROL UNIT FOR PLASMODIUM FALCIPARUM CULTURE APPARATUS, A [UP.]
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MICROPROCESSOR CONTROLLER FOR A PERSONAL TYPEWRITER FOR VISUALLY HANDICAPPED USERS, A [UP.]
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SCHEME FOR DISTRIBUTING HIGH-SPEED CLOCK SIGNALS IN A LARGE DIGITAL SYSTEM
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INTEL 386SX-BASED PC/AT-COMPATIBLE MOTHERBOARD, AN (PART 1) [PC.]
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NEW HIGH ACCURACY REAL-TIME PROCESSING SYSTEM FOR THE MEASUREMENT OF CORE-AXIS MISALIGNMEN
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Sheet1

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HIGH-PRESSURE FLUID INJECTION IN SUPERSONIC BEAM MASS SPECTROMETRY WITH RESONANT TWO-PHOTON
HIGH-VOLTAGE MODULATOR FOR HIGH-POWER RF SOURCE RESEARCH, A [HV./RF.]
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INTERFACE LETS MICROPROCESSOR CONTROL STEPPER MOTOR [UP.]
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LET'S PLUNGE DEEPER INTO VIDEO
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SAMPLE-HOLD AND ANALOG MULTIPLEXER FOR MULTIDETECTOR SYSTEMS, A [SH./MUX.]
CONVENIENT NUCLEAR RESONANCE MAGNETOMETER, A
NEW APPROACH TO INSTRUMENTATION AMPLIFIER DESIGN [IA.]
RC OSCILLATOR LINEARIZES THERMISTOR OUTPUT [RC.]
CW SHAPER UPDATE [CW.]
ZX INTERFACE BOARD
PC HARDWARE INTERFACING (PART 4) DEEPER AND DEEPER INTO THE MYSTERY OF PORT ADDRESSES. [PC.]
PC HARDWARE INTERFACING (PART 5) THIS MONTH WE'LL LOOK AT GETTING DATA INTO THE PC, WHICH TURNS
PC STOPWATCH, A IMPROVED TIMING FOR ACQUISITION AND CONTROL [PC.]
UP CONTROLS NEGATIVE-VOLTAGE CONVERTER [UP.]
AC-CYCLE CONTROLLER FOR SURGE AND TEMPERATURE RISE MEASUREMENTS [AC.]
12-HOUR CLOCK TELLS TIME OUT LOUD [12HR]
CB/HAM SELECTIVE CALLING PROJECT, A [CB.]
1001 USES FOR THE 9400
ANALOG COMPUTER CIRCUITS (PART 1)
STABILISED ELECTROMAGNET DC CURRENT SUPPLY, A [DC.]
TEACHING OF DIGITAL CONTROL WITH MICROPROCESSORS [UP.]
MICROPROCESSOR-CONTROLLED MULTICHANNEL COUNTER FOR A DIGITAL CORRELATOR, A [UP.]
TECHNIQUE FOR THE MEASUREMENT OF SPATIAL VORTICITY DISTRIBUTIONS
ACCURATE DC MOTOR SPEED CONTROL SYSTEM [DC.]

MICRO-PROGRAMMED CONTROLLERS
UNDERSTANDING AND USING AUDIO FILTERS
MODULAR TWIN BUS MICROPROCESSOR SYSTEM FOR LABORATORY AUTOMATION [UP.]
ONE-OP-AMP OSCILLATOR KEEPS SINE-WAVE AMPLITUDE CONSTANT [1/OA.]
ELECTRONICS FOR MICROCHANNEL PHOTOMULTIPLIERS IN THE LIDAR THOMSON SCATTERING DIAGNOSTIC ON
FREQUENCY-MODULATION CONVERSION FOR CONVENTIONAL TAPE RECORDERS [FM.]
ELECTROMAGNETIC RING LAUNCHER, THE [EM.]
HIGH-VOLTAGE AMPLIFIER OWES ITS GAIN AND ACCURACY TO LOW-VOLTAGE IC OP AMP [HV./AMP./LV./OA.]
HIGH-SPEED CINEMATOGRAPHY OF ANIMALS - A STROBE DESIGN
HIGH-FREQUENCY AND HIGH-Q TUNABLE ACTIVE FILTERS [HF.]
HIGH-VOLTAGE DIGITAL-TO-ANALOG CONVERTER RESISTORS IN SERIES ARE BYPASSED BY OPTICALLY ISOLAT
BUILD A PARALLEL PRINTER PORT I/O INTERFACE [IO.]
SWITCH ON/SWITCH OFF
HELIUM-NEON LASER
CALIBRATION SYSTEMS FOR THE CDF CENTRAL ELECTROMAGNETIC CALORIMETER [EM.]
SOLID-STATE SWITCHING THE MIDLAND 13-509
PULSE JOCKEY, THE RIDE HERD ON YOUR CASSETTE VOLTAGE LEVELS AND INTERFACE WITH THE WORLD.
MEMORIES ARE MADE OF THIS: AN I/O-ACCESSED MEMORY BOARD [IO.]
COMPUTER CONTROLLED ELECTROCHEMILUMINESCENCE MONITOR FOR LIQUID CHROMATOGRAPHY, A
SIMPLE CIRCUIT FOR FAST AMPLITUDE CONTROL AND STABILIZATION IN RC OSCILLATORS [RC.]
COMPUTER-CONTROLLED FREQUENCY SYNTHESIZER
CONTROL OF ENERGY ABSORPTION RATE IN TRANSMISSION LINE RADIOFREQUENCY EXPOSURE SYSTEMS [RF.]
LINEAR TO LOG
CONTINUOUS HOPFIELD COMPUTATIONAL NETWORK: HARDWARE IMPLEMENTATION
PHOTOTRANSISTOR RECEIVER MODULE
EGO: A HOMEBUILT CPU [CPU.]
TWO-MINIMUM-COMPONENT SINGLE CURRENT CONVEYOR RC OSCILLATORS [2/RC.]
ANOTHER WAY TO GO (LLL)
PROJECTING INTERCONNECT ELECTROMIGRATION LIFETIME FOR ARBITRARY CURRENT WAVEFORMS
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RESTORING TUBE-TYPE CAR RADIOS
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DESIGN OF A BIT-SLICE MICROCOMPUTER
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LATCHED BUS PROVIDES FOOLPROOF I/O [IO.]
INTERFACE YOUR PC TO MULTIBUS [PC.]
GATING TECHNIQUE AND COMPUTER-CONTROLLED FATA ACQUISITION SYSTEM FOR PULSED LASER EXPERIMENT
WATERLOO RF MODULATOR, THE [RF.]
GATED OSCILLATOR REGULATES CONVERTER
POWER SUPPLIES FOR FIELD DESORPTION MASS SPECTROMETRY WITH SILICON EMITTERS [PS./MS.]
LOW FREQUENCY CONVERTER [LF.]
IF SWEEP GENERATOR, AN [IF.]
CW MEMORY MODIFICATION (LLL) [CW./MOD.]
CW KEYING INTERFACE, A [CW.]
HF PACKET TUNING AID SPOT-ON TUNING EVERY TIME! [HF.]
ON-CHIP MONITOR RESETS UP AFTER BROWNOUTS [UP.]
DC300B TUBE MOSFET AMP, THE (PART 2) [MOSFET./AMP.]
STARLIGHT SYNTH
TRANSIENT RESPONSE OF A PEAK VOLTAGE DETECTOR FOR SINUSOIDAL SIGNALS

TRANSVERTER FOR 10.368 MHZ, A [10.368MHZ]
RECENT OPERATIONAL PERFORMANCE OF THE CERN OMEGA RING IMAGING CERENKOV DETECTOR, THE [CERN]
BACKGROUND SUPPRESSION OF AR LINES IN GLOW DISCHARGE ATOMIC EMISSION SPECTROMETRY BY LOCK-IN
USE SOUND DESIGN RULES TO IMPROVE OP-AMP PERFORMANCE [OA.]
PSEUDORANDOM DIGITAL CROSS CORRELATOR FOR IMPULSE RESPONSE MEASUREMENTS
INFRARED TRANSMITTER AND RECEIVER [IR.]
DIFFERENTIATING LF BIOMEDICAL SIGNALS [LF.]
DIFFERENTIAL DISPLACEMENT TRANSDUCER FOR MEASURING RELATIVE MOVEMENT IN BIOLOGICAL SYSTEMS,
HIGH-VOLTAGE, LOW-CURRENT GENERATOR [HV.]
HIGH-VOLTAGE TRIGGER PULSER FOR SPLIT DC DISCHARGES IN WAVEGUIDE LASERS [HV./DC.]
SWITCHING SUPPLIES DRIVE POWERCON CONFERENCE
BUILD THE MICROVOX TEXT-TO-SPEECH SYNTHESIZER (PART 1) HARDWARE
UNIVERSAL LASER POWER SUPPLY [PS.]
TIMER IC PROVIDES LOW-POWER VOLTAGE MONITOR
DON'T CHANGE POWER SUPPLIES - PRODUCE WHAT YOU NEED FROM WHAT YOU HAVE! [PS.]
CONCURRENT DIELECTRIC ANALYSIS-DIFFERENTIAL THERMAL ANALYSIS
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PHONLINK II (PART 1) [2]
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EXPERIMENTING WITH PC-BASED TEST EQUIPMENT [PC.]
VERSATILE AUTOMATIC CONTROLLER, A
I REALLY DON'T BELIEVE IT!
VERSATILE 555, THE
AUTOMOBILE LOCATER
ANTENNA SYSTEM INSTRUMENTS
EXTEND YOUR VCR'S REMOTE CONTROLS [VCR.]
LOW VOLTAGE SWITCH [LV.]
MICROCOMPUTER KEEPS CHIP COUNT LOW, PERFORMANCE HIGH
ELECTRIC TOOTH PULP VITALITY TESTER, AN
MILESTONES OF AMATEUR RADIO - A PERSONAL VOYAGE THE WORLD'S MOST POPULAR AMATEUR TRANSMITTER
MOS/CCD MEMORY INTERFACING [MOS./CCD.]
EXTERNALLY HEATED COPPER VAPOR LASER USING A CARBON HEATER
ACTIVELY MODE-LOCKED AND Q-CONTROLLED ND:GLASS LASER
LC METER A LOW COST L/C METER THAT WILL GIVE YOU LAB-GRADE ACCURACY [LC.]
SECURE YOUR HARD DISK WITH PC ACCESS [PC.]
MICROCONTROLLER CW METER, A [CW.]
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SIMPLE L-C METER, A [LC.]
REMOTELY SWITCHED, INVERTED-L ANTENNA, A
GENERALIZED APPROACH FOR THE STEADY-STATE ANALYSIS OF RESONANT INVERTERS, A
REPEATER-LINKING CONTROLLER, A
AIR TRACK WITH A DISTRIBUTED INFRARED DETECTOR SYSTEM [IR.]
OBTAINING A VOLTAGE FROM IEEE-488 BUS-EQUIPPED INSTRUMENTS
INTEGRATED CIRCUIT AC MUTUAL INDUCTANCE BRIDGE FOR MAGNETIC SUSCEPTIBILITY MEASUREMENTS [AC.]
ZX BURGLAR ALARM
PC CHIP SET EASES DESIGN OF CACHE-BASED COMPUTERS [PC.]
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LABORATORY TEACHING MODULE TO DEMONSTRATE COMPUTER CONTROL OF A SIMPLE ELECTRO-THERMAL PROCESS
MICROPROCESSOR CONTROL OF ROCKET FLIGHT STABILIZATION [UP.]

MICROPROCESSOR BASED HARMONIC ELIMINATION IN CHOPPER TYPE AC VOLTAGE REGULATORS [UP./AC.]
MICROPROCESSOR BASED CONTROLLER FOR STEPPED-WAVE VOLTAGE SOURCE INVERTER [UP.]
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BUILD THE INTELLIGENT THERMOMETER (PART 1) A MICROPROCESSOR AND A PROGRAMMED EPROM ARE USE
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COMPUTER INTERFACE FOR THE DISABLED (CID)
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REMOTE CAR STARTER BUILD THIS RF REMOTE STARTER FOR YOUR CAR. [RF.]
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NON-VOLATILE MEMORY IC'S
LAN NODE FOR INDUSTRIAL ENVIRONMENTS [LAN.]
PROGRAMMER POWER SUPPLY [PS.]
PROGRAMMABLE MICROPROCESSOR CAN PLAY A TUNE [UP.]
MNOS DEVICES PROVIDE FLEXIBILITY IN NONVOLATILE LOGIC
EXPERIMENTER'S POWERED SOLDERLESS BREAD/CLIP BOARD, THE
EXPLORING FOR ELECTROMAGNETIC FIELDS WITH A TELEPHONE INDUCTION COIL [EM.]
FIRST-YEAR PRACTICAL EXERCISE IN THE DESIGN AND CONSTRUCTION OF A SIMPLE MICROPROCESSOR-BASED
FAST DATA ACQUISITION SYSTEM FOR PHA AND MCS MEASUREMENTS, A [PHA./DAS.]
EASY-TO-BUILD 8877 LEGAL-LIMIT AMPLIFIER FOR SIX METERS, AN [AMP./6M]
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DATA ACQUISITION AND REAL TIME PROCESSING SYSTEM FOR FIELD USE, A - DYNAMIC STRAIN INDICATOR
INTERFACING THE SYKES OEM FLOPPY DISK KIT TO A PERSONAL COMPUTER [PC.]
BAD RESOLUTION IN POWER SUPPLY [PS.]
LOOKING AROUND
PORTABLE PRECISION DC VOLTAGE-CURRENT TRANSFER STANDARD FOR ELECTROMETER CALIBRATION [DC.]
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64 CHANNEL, REMOTELY CONTROLLED POWER SUPPLY FOR PHOTOMULTIPLIERS, A [PS.]
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16-CHANNEL 8-PARAMETER WAVEFORM ELECTROTACTILE STIMULATION SYSTEM, A
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MEASUREMENT OF CHARGE-TO-MASS RATIO (Q/M) DISTRIBUTION OF AN IONIZED CLUSTER BEAM BY A SPECIAL
DUAL-OUTPUT, SWITCH-MODE REGULATOR FROM MAXIM (+5 V TO +15 V OR +12 V) [5V/15V/12V]
MICROPROCESSOR-BASED CONTROLLER FOR AUTOMATIC AMORPHOUS SILICON SOLAR CELLS CHARACTERIZA
MICROPROCESSOR SYSTEM FOR CONTROLLING STIMULATION AND ON-LINE ANALYSIS OF ELECTROPHYSIOLOG
RECEIVE CONVERTER ADAPTER FOR 2 METER TRANSCEIVERS, A MONITOR 6 METERS OR 220 MHZ WITH THIS U
VIDEO DISTRIBUTION AMPLIFIER [AMP.]
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YAESU FT-107M WITH DIGITAL MEMORY SHIFT, THE
ELECTRON EMISSION STABILISER WITH DOUBLE NEGATIVE FEEDBACK LOOP
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ELECTRONIC REALISATION OF RECURRENT NEURAL NETWORK FOR SOLVING SIMULTANEOUS LINEAR EQUATION
EFFICIENT 5-V SUPPLY FROM BATTERIES [5V]
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LOGIC ANALYSER (PART 4) IN THIS PENULTIMATE INSTALMENT OF THE ARTICLE (WHICH WAS DELAYED BY CIRC
DRIFT-FREE ELECTRONIC INTEGRATOR FOR RESPIRATION STUDIES
DRIVER ICS INTERFACE UPS WITH VACUUM-FLUORESCENT DISPLAYS [UP.]
TRIANGULAR TUBE PROPORTIONAL WIRE CHAMBER SYSTEM, A
BUILD 5-V-IN, 100-MA, +-15-V-OUT CONVERTERS ON YOUR PC BOARDS [5V/100MA/15V/PCB.]
BUILD A TALKING VOLTMETER FOR YOUR PC [PC.]
CALIBRATED SIGNAL GENERATOR
BIMOS OP AMPS MORE THAN REPLACE BIFETS IN LOW-COST INSTRUMENTS AND AUDIO GEAR [BIMOS./OA./FET.]
CONSTANT DUTY CYCLE ASSURES EFFICIENT VOLTAGE-CONTROLLED OSCILLATOR [VCO.]
CMOS LSIS FOR LCD DIGITAL CLOCKS [CMOS./LSI./LCD.]
BOOSTER POWERS LOW-DROPOUT REFERENCE
CLOSING THE LOOP ON DC MOTOR CONTROL [DC.]
PRODUCT DETECTOR FOR AM [AM.]
ISOLATED, REGULATED 5 V FROM AC LINE [5V/AC.]
POPULAR ELECTRONICS TESTS PANASONIC MODEL CT-9060 19" COLOR TV [19IN/TV.]
APPLICATION OF A CAPACITIVE PROBE TECHNIQUE FOR DIRECT OBSERVATION OF ELECTROMECHANICAL PROC
CAPACITANCE-BASED MICROPOSITIONING SYSTEM FOR X-RAY ROCKING CURVE MEASUREMENTS, A
RAPID RECOVERY PHYSIOLOGICAL PREAMPLIFIER WITHOUT AC COUPLING CAPACITORS [AMP./AC.]
TVRO SOUND DECODERS - SATELLITE CENTRAL (PART 6) [TV./TVRO.]
VERY LOW NOISE COOLED AUDIOFREQUENCY PREAMPLIFIER FOR GRAVITATIONAL RESEARCH [AF./AMP.]
CURVE FITTING FUZZY DATA, MEETING FCC REGULATIONS, TESLA COILS AND HIGH-ENERGY RESOURCES, FLAS
ICS AND LSIS FOR CD PLAYER SYSTEMS [LSI./CD.]
TESTER MOCKUPS AND DEVICE LIBRARIES BRING CAE TO ANALOG PC-BOARD DESIGN [CAE./PCB.]
INSTRUMENT FOR RELATIVE HUMIDITY MEASUREMENT [RH.]
MOSSBAUER FURNACE WITH A ROTATING SAMPLE-HOLDER, A
SYSTEM FOR SYSTEMATICALLY PREPARING ATOM-PROBE FIELD-ION-MICROSCOPE SPECIMENS FOR THE STUDY
BETTER THAN MOS [MOS.]
4 TOYS FOR THE HOLIDAY SEASON
DETERMINATION OF ULTRASONIC VELOCITY IN LIQUIDS USING OPTICAL DIFFRACTION BY SHORT ACOUSTIC PUL
ALTERNATE-ENERGY RESOURCES
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NOVEL APPARATUS TO STUDY FARADAY'S LAWS OF ELECTROMAGNETIC INDUCTION, A [EM.]
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AC HIGH-STABILITY MICROPROCESSOR-BASED TEMPERATURE CONTROLLER FOR USE AT HIGH TEMPERATURES
SC84 MICROCOMPUTER
SPIN-INDUCTION EPR SPECTROSCOPY. V. AN X-BAND DUAL CHANNEL MODULUS PHASE ABSORPTION AND DISPI
BUILD A PAIR OF LINE-CARRIER MODEMS
MINIATURE TORSION PENDULUM FOR STUDYING THE PHASE TRANSITION IN FERROELASTIC CRYSTALS
STOCHASTIC PHOTOLYSIS: A NEW METHOD FOR MEASURING RATES OF PHOTSENSITIVE REACTIONS
AMPS PUT OUT FAST, HIGH-VOLTAGE LINEAR POWER AN AMPLIFIER PUTS +-90 V ACROSS 5 OHMS. [AMP./HV./90
LASER-SLAVED PIEZO-CONTROLLED FABRY-PEROT INTERFEROMETER
METHOD FOR PRECISE BALANCING OF A RADIO FREQUENCY BRIDGE IN WIDE LINE NUCLEAR MAGNETIC RESON.
INVESTIGATION OF THE SURFACE RESISTANCE OF SUPERCONDUCTING NIOBIUM USING THERMOMETRY IN SUP
FM FOR CB: WON'T THEY EVER LEARN? [FM./CB.]
RF MODEM DESIGN FOR BROADBAND COAXIAL LOCAL AREA NETWORKS [RF./LAN.]
LC OSCILLATOR [LC.]
AC STABILISER [AC.]
HF AND VHF OSCILLATOR BASICS USING FREQUENCY SYNTHESIS [HF./VHF.]

32-BIT COMPUTER DESIGN USING THE 68020, 68881 AND 68851
DUAL TIMER SUPPLIES HIGH-VOLTAGE RAMP [HV.]
MEASUREMENT SYSTEM LOGS ANALOG DATA
STATUS OF NATURAL AND MAGNETIC CIRCULAR DICHROISM INSTRUMENTATION USING SYNCHROTRON RADIATION
MICROPROCESSORS: A MICROPROCESSOR CONTROLLED CW KEYBOARD [UP./CW.]
MICROPROCESSOR THERMOSTATS [UP.]
MICROPROCESSOR INTERFACE CIRCUITRY FOR POSITION CONTROL [UP.]
MODULAR SOFTWARE AND HARDWARE DESIGN CONCEPT FOR SYNTHESIZER TUNING AND CONTROL
MODELING AND IMPLEMENTATION OF A MICROPROCESSOR-BASED CSI-FED INDUCTION MOTOR DRIVE USING FINITE ELEMENTS
ELECTROMETER AMPLIFIER WITH OVERLOAD PROTECTION CIRCUIT FEATURES LOW NOISE, INPUT OFFSET, AND
ONE-CHIP RECEIVER FRONT-END, A [1]
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COHERENT NUCLEAR QUADRUPOLE PULSE AND DOUBLE RESONANCE SPECTROMETER, A
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BUILD THIS DIGITAL VFO - A MICROPROCESSOR MAKES IT SIMPLE [VFO./UP.]
PRIMER ON ELECTRONIC TUNING ADDRESS SYSTEMS, A
DRIFT IN LOW-COST LOCK-IN AMPLIFIERS [AMP.]
SOLID (STATE) SECURITY
MULTICHANNEL HETERODYNE RADIOMETER WITH COMPUTER CONTROL FOR ELECTRON CYCLOTRON
MULTIPLE-TUNED AMPLIFIERS [AMP.]
SEMICONDUCTOR DEVICE TECHNOLOGY AND DIGITAL SYSTEM DESIGN
SIMPLIFY ALTERABLE MEMORIES WITH A VERSATILE 32K-BIT EEPROM [EEPROM.]
SIMPLE MICROPROCESSOR FOR FASTBUS SLAVE MODULES, A [UP.]
SIMPLE MICROPROCESSOR BREADBOARD SYSTEM FOR USE IN MICROELECTRONICS OR COMPUTER EDUCATION
SIMPLE MICROPROCESSOR BREADBOARD SYSTEM FOR USE IN MICROELECTRONICS OR COMPUTER EDUCATION
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SINGLE-CRYSTAL STUDY OF ¹³C CHEMICAL SHIELDING TENSORS IN DIMETHYL MALEIC ANHYDRIDE AND ACRYLAMIDE
CONVERT THE ODDBALL HY-GAIN BOARD
MONOLITHIC MODEM CHIP EASES UP'S PHONE ACCESS [UP.]
LINE-SIDE REGULATOR FOR HIGH-VOLTAGE POWER SUPPLIES, A BUILD THIS LOW-COST REGULATOR USING POWER
SENSITIVE RF VOLTMETER, A [RF.]
TUNE IN AND TURN ON! (PART 1) A COMPUTERIZED WIRELESS AC CONTROL SYSTEM [AC.]
MICROPROCESSOR'S ON-CHIP EEPROM HELPS CONTROL MOTORS [EEPROM.]
AMPLIFIER HAS INFINITE TIME CONSTANT [AMP.]
IMPROVE CONVERTER RESOLUTION WITH UP TRACKING TECHNIQUES [UP.]
VARIABLE POWER SUPPLY HOLD REGULATION BELOW 2 V [PS./2V]
VARIABLE MIXING FREQUENCY METHOD FOR ACCURATE AND CONVENIENT MEASUREMENT OF ULTRASONIC VELOCITY
NMR PROBE FOR THE MEASUREMENT AND TRACKING OF A MAGNETIC FIELD OVER A WIDE RANGE, A [NMR.]
VERSATILE POWER SUPPLY FOR XENON FLASHLAMPS [PS.]
MOS THYRISTOR IMPROVES POWER-SWITCHING CIRCUITS [MOS.]
DESIGNING WITH THE 68008 MICROPROCESSOR [UP.]
DESIGN AND CONSTRUCTION OF A HIGH TEMPERATURE AND PRESSURE ELECTRODELESS CONDUCTIVITY PROBE
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ACTION MACHINE FOR 20
MATERIAL AND STRUCTURAL STUDIES OF CATHODES FAVOURABLE TO A PIG ION SOURCE FOR AN AVF CYCLOTRON
OPTICALLY ISOLATED ICS TURN ON POWER MOSFETS RAPIDLY [MOSFET.]
HOW TO CONSTRUCT A D.C. TO D.C. CONVERTER FOR YOUR HT [DC.]
LOW-COST DAMPED SINEWAVE GENERATOR, A

LOW FREQUENCY CONVERTER [LF.]
LOW-DRIVE, HIGH-POWER ALL-BAND TETRODE LINEAR AMPLIFIER, A [AMP.]
NEW METHOD FOR REDUCING THE TRANSIENT RESPONSE TIME OF AN AC VOLTAGE DETECTOR [AC.]
LOW-VOLTAGE, NARROW-BAND FM RECEIVER [LV./FM.]
JOYSTICK METRICS
77\SE NMR ON AN XL-100 SPECTROMETER. AN INVESTIGATION OF ISOTOPE EFFECTS AND SPIN-LATTICE RELAXATION
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OP AMP, ADC MAKE ZERO-DROOP S/H [OA./ADC./SH.]
AC POWER DISTURBANCE DETECTOR CIRCUIT [AC.]
FM DECODER IMPROVES SCA SUBCARRIER DETECTION [FM.]
FM TUNER (PART 1) RF FRONT END, IF AMPLIFIER AND DEMODULATOR [FM./RF./IF./AMP.]
PC-TO-TV CONVERTER [PC./TV.]
TDA2002A UNIVERSAL POWER OP-AMP AND AUDIO AMP [OA.]
PICKING UP A CLEARER PICTURE OF AMATEUR TV [TV.]
3-DECADE PROGRAMMABLE GAIN AMPLIFIER, A [AMP.]
INFRARED SHEDS LIGHT ON NEW USES FOR REMOTE UNITS [IR.]
HIGH-FREQUENCY DIGITAL OSCILLATOR [HF.]
HIGH-VOLTAGE, HIGH-FREQUENCY LINEAR AMPLIFIER/DRIVER FOR CAPACITIVE LOADS, A [HV./HF./AMP.]
LIGHT BEAM COMMUNICATOR
USING CMOS PHASE-LOCKED LOOPS [CMOS./PLL.]
UNLEASH THE TS-900
REMOTE CONTROL FOR A HI-FI SYSTEM
SIMPLE ATOMIC SPECTROMETER FOR USE IN THE UNDERGRADUATE LABORATORY, A
SENSOR FOR THE MEASUREMENT OF THE LEVEL AND VOLUME OF CONDUCTIVE LIQUIDS
SYNTHESIS AND PERFORMANCE OF DIGITALLY CONTROLLED CURRENT SOURCE
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TWO ICS FORM 4-STATE FLIP FLOP [2/FF.]
ISOLATION TRANSFORMER IMPROVES MOSFET DRIVER [MOSFET.]
IMPROVED LOW FREQUENCY STABILITY OF BOLOMETRIC DETECTORS [LF.]
WIRELESS AD-ZAP TURNS OFF TV COMMERCIALS [TV.]
CIRCUIT TRANSFORMS PC INTO DATA ANALYZER [PC.]
VARIABLE-HEATING-RATE WIRE-MESH PYROLYSIS APPARATUS
X-RAY IMAGING ARRAYS FOR IMPURITY TRANSPORT STUDIES ON THE TEXAS EXPERIMENTAL TOKAMAK
VERTICAL MOUNTING CONSTRUCTION TECHNIQUE FOR RF POWER MODULES, A [RF.]
FAST DETERMINATION OF THE FIELD MODULATION AMPLITUDE OF A SATURATION TRANSFER ELECTRON PARAMETER
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DEVICE FOR CONTROLLING AND PROGRAMMING A PNEUMATIC AMPLIFIER PUMP IN A SUPERCRITICAL FLUID CHROMATOGRAPHY
POWER-LOSS ALARM PROTECTS YOUR VITAL EQUIPMENT
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CW FILTER [CW.]
AC POWER LINE MODEM [AC.]
IR REMOTE SLAVE, THE [IR.]
KC2FR QRM FIGHTER, THE
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PHASE-SENSITIVE SUPERHETERODYNE ULTRASONIC SPECTROMETER, A

VIBRATING MEMBRANE ELASTOMETER FOR RELIABLE MEASUREMENT OF MECHANICAL PROPERTIES OF METALS
MICROPROCESSOR IN TV RECEIVERS, THE [UP./TV.]
PRECISION VOLTAGE REFERENCES OUTGROW TEMPERATURE-STABILIZING OVENS
NEED FM? FM DEMODULATION CIRCUIT FOR OLDER RECEIVERS. [FM.]
USEFUL CIRCUIT, A (LLL)
INFRA-RED CONTROLLED COMMAND RECEIVER FOR IMPLANTABLE TELEMETRY [IR.]
DIFFERENTIAL THERMOMETER FOR HIGH TEMPERATURE FLOW CALORIMETRY
INFRARED REMOTE CONTROL A SIMPLE BUT EFFECTIVE ON/OFF REMOTE CONTROL USING INFRARED. [IR.]
1 GBIT/S INTEGRATE-AND-DUMP FILTER FOR DIGITAL COMMUNICATION SYSTEMS [1GBIT]
HIGH-PERFORMANCE SHORTWAVE CONVERTER [SW.]
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VOLTAGE REGULATOR ROUNDTABLE (LLL)
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COMPUTER-AIDED DESIGN OF NONLINEAR OPTIMUM OUTPUT POWER MESFET OSCILLATOR [CAD./FET.]
SINGLE IC SENSES OPTICAL INTERRUPTIONS
TUNE IN THE WORLD WITH R-E'S EZ SHORTWAVE RECEIVER [SW.]
PHOTOMULTIPLIER GAIN TUNING SYSTEM
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APPLICATIONS CIRCUITS
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CIRCUITS FOR WIDE-BAND FM DEMODULATION [FM.]
LOW-VOLTAGE MODELS OF PARTICLE ACCELERATOR CIRCUITS [LV.]
LOW POWER ICS FOR RF DATA COMMUNICATION [RF.]
POWER SUPPLY TESTER [PS.]
MICROCONTROLLER-BASED DATA ACQUISITION SYSTEM FOR IMPACT MEASUREMENT [DAS.]
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CAPACITANCE BRIDGE CIRCUIT FOR BROADBAND DETECTION OF ION CYCLOTRON RESONANCE SIGNALS, A [ICR]
METHOD FOR MEASURING THE WIRE TENSIONS IN PROPORTIONAL AND DRIFT CHAMBERS, A
LOW-DISTORTION DETECTION SYSTEM FOR FREQUENCY-SWEPT ION CYCLOTRON RESONANCE SPECTROMETRY
LOW-NOISE AC/DC CURRENT SOURCE WITH CONTINUOUS ZERO CROSSING [AC./DC.]
USE A PERSONAL COMPUTER AND DFT TO EXTRACT DATA FROM NOISY SIGNALS [PC./FT.]
RKV CAR AMP (PART 1) [AMP.]
POWER-SWITCHED SAMPLE-AND-HOLD PROVIDES ACCURATE ANALOG INPUTS FOR ADC IN LOW-POWER SYSTEMS
DC VOLTAGE SOURCE AND PULSE GENERATOR, A [DC.]
PE CHRONOS V THE MAIN BOARD
SUCCESSIVE APPROXIMATION ANALOG TO DIGITAL CONVERSION SYSTEM WITH GOOD DIFFERENTIAL LINEARITY
ACHIEVING PULSE-ECHO OVERLAP WITH SCOPES HAVING NO INTENSITY MODULATION
PAIR OF PNP/NPN TRANSISTORS FORM HIGH-VOLTAGE AMPLIFIER [HV./AMP.]
USING A SAMPLE AND HOLD CIRCUIT AS A BOXCAR INTEGRATOR/ULTRASONIC RECORDING UNIT [SH.]
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LOS ALAMOS FREE-ELECTRON LASER (FEL) RF SYSTEM, THE [RF.]

NOVEL PHASE MEASUREMENT METHOD, A
NEW STRUCTURE FOR LF SQUARE WAVE AMPLIFICATION [LF./AMP.]
DC-TO-DC CONVERTER FAMILY PACKS POWER INTO TIGHT SPOTS [DC.]
ANALOG ARITHMETIC
VIDEO DC RESTORATION USING A TTL LEVEL SWITCH [DC./TTL.]
UNIVERSAL-INPUT POWER SUPPLY [PS.]
CROWBAR PROTECTION FOR POWER SUPPLIES [PS.]
WORKING WITH TRIACS AND SCR'S TWENTY-EIGHT PRACTICAL SCR AND TRIAC CIRCUITS [SCR./28]
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ELECTRONIC TORNADO PLASMA DISPLAY POWER SUPPLY [PS.]
HIGH-VOLTAGE PULSE GENERATOR, A [HV.]
HIGH-VOLTAGE LINEAR PULSE AMPLIFIER [HV./AMP.]
BUILD THE A75 POWER AMPLIFIER (PART 2) [AMP.]
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CAR STEREO IN YOUR HOME
RF VOLTMETER, AN [RF.]
OP. AMPS IN POWER AMPLIFICATION [OA./AMP.]
INCREDIBLE SHRINKING IBM PC/AT, THE [PC.]
WIDE GAIN AND BANDWIDTH SPANS EXTEND HYBRID OP AMP'S REACH [BW./OA.]
R-E ROBOT
CREATE A HIGH-FREQUENCY COMPLEX FILTER [HF.]
BRIGHT FUTURE PREDICTED FOR LINEAR CMOS, A [CMOS.]
DELTA MODULATORS SIMPLIFY A/D CONVERSION [DM./ADC.]
COMMUNICATIONS BUILDING BLOCKS IF AMPLIFIERS (PART 1) LINEAR IF'S FOR AM AND SSB [IF./AMP./AM./SSB.]
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CONCEPT AND CONSTRUCTION OF A CW FILTER AND ENHANCER [CW.]
SINGLE-POINT VISUAL SCANNING DEVICE FOR REHABILITATING UNILATERAL NEGLECT, A
IMPROVED BUFFER FOR BIOELECTRIC SIGNALS, AN
TAPR PSK MODEM, THE [PSK.]
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SATURABLE INDUCTOR BASED CONTROLLED WAVEFORM EXCITATION SOURCE FOR EXPLODING THIN FILM ATOM
INTERFACING WITH C
NEW "DISCO" CIRCUIT., A
LOW FREQUENCY CIRCULATOR/ISOLATOR USES NO FERRITE OR MAGNET [LF.]
LOW-NOISE AUTOMATED MEASUREMENT SYSTEM FOR LOW-FREQUENCY CURRENT FLUCTUATIONS IN THIN-OXI
HOW TO BUILD THE "SYNTHETIC" CRYSTAL FILTER (AND GET "REAL" RESULTS)
AC CIRCUIT BREAKER HAS ADJUSTABLE THRESHOLD [AC.]
DC ADAPTER FOR HAND-HELD-TRANSCIEVER MOBILING, A [DC.]
OP AMP STABILIZES FOLDBACK CIRCUIT [OA.]
AF DRIVE INDICATOR [AF.]
FM TUNER (PART 2) QUARTZ FILTERS, POWER SUPPLY AND ADJUSTMENT [FM./PS.]
FM PACKET DEVIATION METER PUT YOUR PACKET STATION ON THE MONEY FOR 20 BUCKS. [FM.]
HI-FI SOUND CONVERTER FOR YOUR TV [TV.]
IC-BASED AM-STEREO DECODER EASES RECEIVER-DESIGN PROBLEMS [AM.]
OP-AMP TESTER GIVES GOOD/BAD INDICATION [OA.]
MM53126 MM53226: INFRARED REMOTE CONTROL TRANSMITTER [IR.]

C-64 INDUCTANCE/CAPACITANCE METER, THE LET THIS POPULAR PC HELP YOU OBTAIN VALUES FOR CAPACITANCE
REAL-TIME HF WEFAX MAPS ON A DOT-MATRIX PRINTER [HF.]
WHAT YOU SEE IS WHERE YOU'RE AT
DUAL TRACKING POWER SUPPLY [PS.]
BIAS-CURRENT NETWORK IMPROVES SAMPLE-AND-HOLD RESPONSE [SH.]
MEASURING RELATIVE HUMIDITY [RH.]
SCA/FM-STEREO RECEIVER [FM.]
PHASE COMPENSATION OF THE THREE OP AMP INSTRUMENTATION AMPLIFIER [3/OA./IA.]
CHAOS FROM PHASE-LOCKED LOOPS [PLL.]
PHASE METER USES JUST TWO CHIPS [2]
PHASE METER USES JUST THREE CHIPS [3]
DUAL VOLTAGE BENCH SUPPLY VERSATILE SOLUTION FOR YOUR POWER SUPPLY NEEDS. [PS.]
CRAFTSMAN SPECIAL, THE A HOMEBREW HF LINEAR AMPLIFIER (PART 1) [HF./AMP.]
HEATER MONITOR CIRCUIT
X-BAND BEACONS
MICROPROCESSOR POWER SUPPLY WATCHDOG, A [UP./PS.]
PACKET TUNING INDICATOR DEAD-ON HF PACKET TUNING FOR \$15. [HF.]
MICROWAVE OVEN TO AMATEUR TV TRANSMITTER CONVERSION, A [TV.]
MICROCOMPUTER SYSTEM DESIGN IN THE UCSD PASCAL PROGRAMMABLE ENVIRONMENT
MICROCOMPUTER-BASED HIGH-VOLTAGE PULSE CONTROLLER AND TEMPERATURE MONITOR FOR KERR EFFECT
MICROPOWER ELECTRONIC SWITCHES FOR IMPLANTED INSTRUMENTATION
RADIO TO GO
ADD A HEADPHONE OUTPUT TO YOUR CD PLAYER [CD.]
RADIATION OVERLOAD WARNING SYSTEM FOR GEIGER-MULLER DETECTORS
ADDING A GAIN STEP SWITCH TO THE LM386 AF AMPLIFIER [AF./AMP.]
PRECISION CONTROLLER FOR ROTATING CHOPPERS
ELECTRO-OPTICAL POSITION MEASUREMENT FOR ACTIVE MAGNETIC BEARING
FREQUENCY RESPONSE OF RC-ACTIVE CIRCUITS USING NORTON AMPLIFIERS WITH HIGHLY ASYMMETRICAL SLOPES
THEORY AND APPLICATION OF DIFFUSE INFRARED BIOTELEMETRY [IR.]
INFRARED INTRUSION ALARM [IR.]
HIGH-FREQUENCY POWER SOURCE FOR APPLICATION OF TEMPERATURE STEPS IN PAPILLARY TISSUE [HF.]
HIGH-VOLTAGE AMPLIFIER DRAWS LITTLE CURRENT [HV./AMP.]
SIGHTS AND SOUNDS OF CHAOS
BUG DETECTOR
DIGITAL MODULATOR AND SYNCHRONOUS DEMODULATOR SYSTEM: AN ALTERNATIVE TO THE ANALOG PHASE DETECTOR
HIGH-VOLTAGE CONTROLLER USING OTAS [HV./OTA.]
DIGITAL AUDIO
BUILD THE AC POWER MONITOR [AC.]
BUILD AN INFRA-RED ROAD ICING ALERT [IR.]
TRIPLE-OUTPUT REGULATOR POWERS AND MONITORS 5-V MICROPROCESSOR SYSTEMS [5V/UP.]
USING A MULTIMETER
BUILD THE ELECTRONIC "BUG" SWATTER
BUILD AN ANALOG COMPUTER (PART 1)
BUILD A REMOTE-CONTROLLED OUTLET
BUILD THIS MICROWAVE MOTION DETECTOR
BUILD A DIVERSITY ANTENNA AND IMPROVE THE PERFORMANCE OF ANY CAR STEREO!
MAKE LM324 OP AMP SWING RAIL TO RAIL [OA.]
MAKING SWITCHED DC/DC CONVERSION EASIER - AND CHEAPER [DC.]
MULTI-MICROPROCESSOR CONTROLLER FOR A VV-VF CYCLOCONVERTER-LINK BRUSHLESS DC MOTOR DRIVE, A

PULSE-MODULATED DIVIDER SUITS MULTICHANNEL SYSTEMS [PM.]
HOME SECURITY SYSTEM (PART 2)
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HOME-BREW SPECTRUM ANALYZER PROJECT FOR DXERS AND EXPERIMENTERS ALIKE.
COMPARATOR-BASED RESTART CIRCUIT AUTOMATICALLY REVIVES STALLED UPS [UP.]
CONVERTERS YIELD DROOP-FREE S/H CIRCUIT [SH.]
FUN WITH OP-AMPS [OA.]
BOOT YOUR PC REMOTELY (PART 2) PART 2 OF BUILDING A REMOTE-BOOT CONTROLLER FOR YOUR PC. [PC.]
SUPER ACADAPT, THE [AC.]
EXPERIMENTAL STUDY OF NON-LINEAR EFFECTS ON PHOTOMULTIPLIER GAIN
EXPERIMENTS WITH FOURIER TRANSFORMS AT RADIO FREQUENCIES [FT./RF.]
WIRELESS HOME BURGLAR ALARM SYSTEM
PORTABLE, SELECTABLE, PRECISION VOLTAGE REFERENCE, A
WORKING WITH A NORTON OP-AMP [OA.]
BURST RADIO-FREQUENCY EXCITED PULSED HOLLOW-CATHODE LAMP [RF.]
BARGAIN AUDIO FREQUENCY METER BUILD THIS VITAL ADDITION TO YOUR TEST EQUIPMENT BENCH FOR ABOUT
VERY, VERY BEST CW FILTER?, THE - COSTS UNDER TEN BUCKS [CW./10]
INSTRUMENTED PSEUDOFUIT FOR ACQUISITION OF IMPACT DAMAGE DATA FOR AGRICULTURAL PERISHABLES
DISPLAY-PROCESSOR-BASED CIRCUITRY LINKS ANY MONITOR TO A HOST
DESIGN OF AN ASYNCHRONOUS ELECTROSTATIC MOTOR
VISUAL CW OFFSET INDICATOR, A ADD THE FEATURE THE MANUFACTURERS FORGOT. [CW.]
TEST SETUP MEASURES MINUTE RESISTANCES
INSTRUMENTAL IMPROVEMENT OF THE XYZ-TRANSLATION STAGE FOR A PERKIN-ELMER SCIEX ELAN 500 ICP-MS
MOTOR SPEED AND DIRECTION CONTROL CIRCUITS NEED NOT SEND YOU INTO A TAILSPIN!
BIT-SLICE MICROPROCESSOR-BASED COMMUNICATIONS DECODER [UP.]
AUTOMATIC INTERNAL FRICTION AND MODULUS MEASUREMENT APPARATUS UTILIZING A PHASE-LOCKED LOOP
AKTOGRAPH FOR DETECTING INSECT MOVEMENT, AN
FOUR QUAD OP AMPS DIAGNOSE AUTOMOBILE VOLTAGE REGULATOR [4/OA.]
DEVELOPMENT OF A PRACTICE-ORIENTED RADIO-FREQUENCY DESIGN COURSE [RF.]
NOVEL INSTRUMENTATION AMPLIFIER WITH REDUCED MAGNITUDE AND PHASE ERRORS, A [IA.]
POWER-SUPPLY OVERLOAD PROTECTION [PS.]
LOW-POWER, LOW-NOISE INSTRUMENTATION AMPLIFIER FOR PHYSIOLOGICAL SIGNALS [IA.]
LOW COST INSTRUMENTATION TAPE RECORDER
SAYING IT SIMPLY (LLL)
CW WAVE-SHAPING CIRCUIT FOR THE TS-820S [CW.]
RF CURRENT LOOP, AN [RF.]
AM BROADCAST RECEIVER [AM./BC.]
AC LINE VOLTAGE MONITOR [AC.]
DC-TO-DC CONVERTERS [DC.]
DC-DC CONVERTER MAINTAINS HIGH EFFICIENCY [DC.]
100-UK TEMPERATURE CONTROLLER [100UK]
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WEATHERSAT STATION AUTOMATION
TRANSCUTANEOUS, DUAL CHANNEL PHRENIC NERVE STIMULATOR FOR DIAPHRAGM PACING
MEASURING RF POWER [RF.]
CRAFTSMAN SPECIAL, THE A HOMEBREW HF LINEAR AMPLIFIER (PART 2) CONSTRUCTION [HF./AMP.]
SUBNANOSECOND HIGH-VOLTAGE PULSE GENERATOR [HV.]
AGC AND RF-GAIN CONTROLS FOR THE TEN-TEC ARGOSY [AGC./RF.]

SECOND LOOK AT MAGNETIC CORES, A [2ND]
MICROCOMPUTER CONTROLLED SAMPLE CHANGER SYSTEM FOR GAMMA-RAY SPECTROSCOPY, A
ACCURATE LOW COST VSWR METER CONVERT THIS CB ACCESSORY FOR 1.8-450 MHZ OPERATION. [VSWR./CB./]
AUDIO DOT GENERATOR EASES OSCAR SSB SPOTTING [SSB.]
AUDIOFREQUENCY MEASUREMENT OF JFET NOISE VERSUS TEMPERATURE IN A HIGH-IMPEDANCE PREAMPLIFIER
ADD CW AND SSB TO ANY SHORTWAVE RECEIVER [CW./SSB./SW.]
ELECTRONIC SWITCHING AND HOW IT WORKS
EVERYMAN'S MICROWAVE AMP [AMP.]
INEXPENSIVE PRECISE GAS FLOW TEMPERATURE CONTROLLER, AN
INFRARED - THE SILENT SOUND [IR.]
HIGHLY ACCURATE RESISTANCE DEVIATION TO FREQUENCY CONVERTER WITH PROGRAMMABLE SENSITIVITY A
HIGH-SPEED, LOW-COST LASER-TRIGGERED PLASMA SHUTTER
W3IRZ HF AND LF OSCILLATORS, THE [HF./LF.]
BUILD A SATELLITE TRANSCEIVER ADAPTER
BUILD THIS SIMPLE L-C CHECKER [LC.]
UNIVERSAL THREE-TERMINAL POWER SUPPLY, THE [3/PS.]
UNIVERSAL REMOTE CONTROL
MAKE MINE MODULAR: EASY-TO-BUILD RECEIVING CONVERTER AND TEST EQUIPMENT FOR 435 MHZ [435MHZ]
SELECTING AND USING MULTIMETERS
COMMUNICATIONS RECEIVERS FOR THE YEAR 2000 (PART 1) NEW DESIGNS, MICROPROCESSORS, INPUT FILTERS
SIMPLE INSTRUMENTS - RF OUTPUT MONITOR [RF.]
SENSING RESISTOR LIMITS POWER-SUPPLY CURRENT [PS.]
TUNE YOUR CB ANTENNA WITH A FIELD-STRENGTH METER [CB.]
SINGLE PREAMPLIFIER/ISOLATOR DRIVES LF AND VLF RECEIVERS [AMP./LF./VLF.]
HANDY RF SAMPLER FOR COAXIAL TRANSMISSION LINES, A [RF.]
CONVERTING CURRENT TO VOLTAGE
GENERATOR RUMBLES AT LOW FREQUENCIES [LF.]
PHOTOMETRIC ANALYSER FOR CRYSTALLOGRAPHIC ORIENTATIONS IN ROCK THIN SECTIONS
"HOT WIRE" BOTTLE CUTTER, THE
TWO-PART CIRCUIT PROTECTS DC LOADS [2/DC.]
IMPURITY MONITOR FOR ROOM TEMPERATURE LIQUID IONIZATION CHAMBERS, AN
DIRTY LITTLE FM SNOOPER, THE [FM.]
ERROR DETECTION AND CORRECTION USING SN54/74LS630 OR SN54/74LS631
MORE ON FREQUENCY COUNTERS AND ACCURACY
TEST GEAR
MATCH YOUR RF PROBE TO YOUR METER [RF.]
AUTOMATIC VIDEOGAME SWITCH
RTTY LOOP [RTTY.]
TOTALLY-OPTIC INTERFERENCE-FREE RF PROBE, A [RF.]
FOUR WATTS, QSK, FOR 24.9 MHZ [4W/24.9MHZ]
CAVITY DUMPING OF A MODE-LOCKED PULSED ND:YAG LASER
REVIEW OF A LOW COST COMMERCIAL SPECTRUM ANALYZER
LOW-BUDGET POWER SUPPLIES [PS.]
POWER-SUPPLY PERFORMANCE TESTER, A [PS.]
SAW INJECTION LOCKING OSCILLATOR USING BUILT-IN INJECTOR [SAW.]
HOW TO DESIGN ANALOG CIRCUITS SPECIAL PURPOSE DIODES
LOW-FREQUENCY CRYSTAL OSCILLATOR [LF.]
LOW INPUT VOLTAGE DC-DC CONVERTER FOR IMPLANTED ELECTRONIC CIRCUITS, A [DC.]
BOXCAR PHOTOGRAPHY

CRYSTAL DIODE DETECTORS

THEORETICAL MODELING AND EXPERIMENTAL TESTING OF A MULTIMODE OPTICAL SYSTEM AND ENERGY ANAL

RELAYS UNDERSTANDING RELAYS (PART 2) SOLID-STATE VERSIONS

BASIC ELECTRONICS #-3B

OPTOCOUPLER DEVICES AND THEIR APPLICATIONS

OP AMPS TACKLE NOISE - AND FOR ONCE, NOISE LOSES [OA.]

TR CIRCUITS FOR HOMEMADE RIGS [TR.]

DC MOTOR CONTROLLER [DC.]

THAT GLORIOUS GONSET

GRANDPA'S ANTIQUE RADIO MAKE AND ENJOY A RADIO THAT REFLECTS THE EARLY 1920'S

FIBER OPTICS ISOLATES A/D CONVERSION [ADC.]

USE OP AMPS TO DESIGN OPTICAL POSITION-SENSING CIRCUITRY [OA.]

USE DUAL OP AMP IN AN INSTRUMENTATION AMP [OA./IA.]

INEXPENSIVE ELECTRON BEAM ANNEALING APPARATUS WITH LINE FOCUS, MADE FROM A CONVERTED ELECTRO

USEFUL RF GIZMOS THAT YOU CAN BUILD [RF.]

INFRARED THERMOMETER ACCESSORY, AN [IR.]

ENHANCED OP AMP DELIVERS 100V P-P [OA.]

PULSES FOR MEDICAL USE

COMPACT FRICTION AND WEAR MACHINE

SIMPLE COMPENSATION PROGRAM OPTIMIZES OP-AMP RESPONSE [OA.]

SIMPLE REMOTE-CONTROL ANALYZER, A

NONLINEAR COMPONENTS LOWER SETTTLING TIME OF NOISE-REDUCTION FILTERS

BROADCAST-BAND RF AMPLIFIER [BC./RF./AMP.]

PROTON-DECOUPLED, OVERHAUSER-ENHANCED, SPATIALLY LOCALIZED CARBON-13 SPECTROSCOPY IN HUMAN

SUPERIMPOSING LOW-PHASE NOISE, LOW-DRIFT INSTRUMENTATION TECHNIQUES ON RF DESIGN [RF.]

IMPROVE NOISE ANALYSIS WITH OP-AMP MACROMODEL [OA.]

FORTRAN PROGRAM CALCULATES OP-AMP NOISE [OA.]

DESIGN OF AN ACOUSTO-OPTIC MODULATOR AND DRIVER

RESPONSE OF X-UV PHOTODIODES TO 1.5-17.5 KEV X RAYS AND MEV ALPHA PARTICLES [UV./17.5KEV]

ULTRALOW POWER LOW NOISE ULTRAHIGH FREQUENCY MAGNETIC RESONANCE SPECTROMETER [UHF.]

SOURCES OF INTERMODULATION IN DIODE-RING MIXERS

LOW-NOISE RF CAPACITANCE BRIDGE TRANSDUCER [RF.]

LOW-COST, HIGH-PERFORMANCE QUADRUPOLE MASS SPECTROMETER BASED ON A LOW-PERFORMANCE RF G

LOW-COST EPROM PROGRAMMER (PART 2) [EPROM.]

LOW-COST, HIGH-PERFORMANCE DC COLD-WIRE BRIDGE, A [DC.]

POWER OP AMPS GET A BOOST FROM INTEGRATION [OA.]

TU II, THE A C.W. RTTY INTERFACE FOR THE APPLE II COMPUTER [CW./RTTY./2]

1000 WATT VHF LINEAR AMPLIFIER, A [1000W/VHF./AMP.]

TRANSIENT PROTECTION FOR AUTOMOBILE CIRCUITS

STATE-PLANE ANALYSIS OF QUASI-RESONANT CONVERTERS

DUAL VOLTAGE SURGE-PROTECTION CIRCUIT FOR HIGH-VOLTAGE POWER SUPPLIES [HV./PS.]

CLASS E² RESONANT DC/DC POWER CONVERTOR [DC.]

AUDIO-FREQUENCY GENERATOR [AF.]

LADDER PROGRAM ANALYSIS PROGRAM, A PERSONAL COMPUTERS BOTH SMALL AND LARGE USE THIS CAD TO

DEEP-CYCLE BATTERY AS AN EMERGENCY POWER SOURCE, A

COMPACT, INEXPENSIVE, VISIBLE DIODE LASER SOURCE OF HIGH REPETITION RATE PICOSECOND PULSES

VERSATILE ANALOGUE IC, A

RESONANT DC/DC CONVERTER WITH CLASS-E INVERTER AND CLASS-E RECTIFIER [DC.]

INSTRUMENTATION AMPLIFIER HAS DIFFERENTIAL OUTPUT [IA.]

DESIGN OF A NOVEL AC REGULATOR [AC.]
AUTO-START AND ANTI-SPACE FOR THE STATE-OF-THE-ART TU [TU.]
ULTRAHIGH VACUUM PICOSECOND LASER-DRIVEN ELECTRON DIFFRACTION SYSTEM
NOVEL SOFT-SWITCHING FULL-BRIDGE DC/DC CONVERTER, A: ANALYSIS, DESIGN CONSIDERATIONS, AND EXPERIMENTAL
HT MOBILE ENHANCEMENT A NEAT, SIMPLE SOLUTION.
SCAVENGER'S RADIO, A
INDUCTION-HEATING HIGH-FREQUENCY INVERTERS USING STATIC INDUCTION TRANSISTORS [HF.]
ELECTRONIC BALANCE FOR DIFFERENTIAL INPUTS
INFRA-RED HEADPHONE TRANSMITTER [IR.]
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SOIC DC-DC CONVERTER [DC.]
ALL-CMOS COMPONENTS BUILD A UC SYSTEM THAT CHECKS POWER LOSS, EASES REGULATION [CMOS.]
FAMILY OF SATURABLE REACTOR ASSISTED SOFT-SWITCHING PWM DC-DC CONVERTORS [PWM./DC.]
ICOM IC-745 TRANSCEIVER, THE
WIRELESS MICROPHONES
AC SUPPLY LIGHTS COLD-CATHODE FLUORESCENTS [AC.]
DC/DC CONVERTERS (PART 1) PRECISE CONVERTER DESIGNS ENHANCE SYSTEM PERFORMANCE [DC.]
DC/DC CONVERTERS (PART 3) DESIGN DC/DC CONVERTERS FOR POWER CONSERVATION AND EFFICIENCY [DC.]
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REGULATOR SPLITS 8 TO 40V INPUT INTO +-15V
PULSED ALKALI-ION GUN FOR TIME-OF-FLIGHT SECONDARY ION MASS SPECTROMETRY, A [TOF./MS.]
PULSED WIRE MAGNETIC FIELD MEASUREMENTS ON A 4.3 M LONG WIGGLER [4.3M]
VARIABLE-TEMPERATURE ULTRAHIGH VACUUM SCANNING TUNNELING MICROSCOPE: MECHANICAL AND ELECTRICAL
DESIGN OF A PULSED SOURCE FOR SUPERCRITICAL FLUID INJECTION INTO SUPERSONIC BEAM MASS SPECTROMETRY
CAPACITOR-CHARGING POWER SUPPLY FOR LASER PULSERS USING A BOOST CIRCUIT [PS.]
FREQUENCY MODULATOR FOR A 2-METER SYNTHESIZER [FM./2M]
HIGH-VOLTAGE AMP DRIVES TRANSDUCERS [HV./AMP.]
CUTTING COSTS ON AN LO FREQUENCY SYNTHESIZER [LO.]
LOW-COST WIDEBAND PREAMPLIFIER, A USING A VERSATILE LITTLE MOTOROLA IC. [AMP.]
DC-COUPLED VIDEO LOGAMP PROCESSES 10-NS PULSES (PART 2) [DC./AMP./10NS]
PICOSECOND TIME-RESOLVED CIRCULAR DICHROISM SPECTROSCOPY: EXPERIMENTAL DETAILS AND APPLICATIONS
DAC AND ADC MAKE IDEAL SAMPLE AND HOLD [DAC./ADC./SH.]
COMPUTER-AIDED DESIGN OF HIGH-FREQUENCY CIRCUITS [CAD./HF.]
CERAMIC RESONATORS CHALLENGE QUARTZ UNITS
BUILD AM/FM FREQUENCY DISPLAY [AM./FM.]
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LOW ENERGY X-RAY PREIONIZATION SOURCE FOR DISCHARGE EXCITED LASERS
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160-METER EQUIPMENT: PROBLEMS AND DESIGN HINTS [160M]
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HW-9 TIPS
4001/4011 TESTER DEVELOPED BY STEPHEN IBBS THAT CAN BE BUILT AND TESTED ALL IN ONE
200KHZ-20MHZ VOLTAGE-TUNED FILTER
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DEVELOPMENT INTERFACE
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650-MHZ AMPLIFYING PRESCALER PROBE [650MHZ/AMP.]
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FAST, SIMPLE, AND LOW-COST DATA-ACQUISITION SYSTEM, A [DAS.]
MICROPROCESSOR BASED SYSTEM FOR RADIOTHERAPY TREATMENT IN ONCOLOGICAL HOSPITALS [UP.]
CATA: A COMPUTER-AIDED TEST ANALYSIS SYSTEM
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PC-BASED TEST BENCH [PC.]
PC-BASED TEST BENCH [PC.]
400-HZ POWER SUPPLY FOR A RADIO COMPASS, A [400HZ/PS.]
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ANALYSIS OF BLACKBODY RADIATION WITH DERIVATIVE SPECTROSCOPY
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000-TO-999 EVENT COUNTER, A
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HUMIDITY MONITOR
USE PROGRAMMABLE-LOGIC ARRAYS TO SPEED SYSTEM DESIGNS [PLA.]
8,000 CHANNELS FOR THE RAMSEY FX-146 [8000]
BUILD A LOW-COST 8048-FAMILY EMULATOR
PROGRAM THOSE 2708S!
PROGRAM YOUR NEXT EROM IN BASIC [ROM.]
TOP-NOTCH FOR THE TOP BAND - SUPER ANTENNAS FOR 160
13-CM GAASFET PREAMP [13CM/GAASFET./AMP.]
6800 COPROCESSOR FOR A 6502 BUS
6800/6802 MICROPROCESSOR EMULATION ADAPTER [UP.]
Z-80 BUS MONITOR/DEBUGGER
MICON: A SINGLE-BOARD COMPUTER SYNTHESIS TOOL [SBC.]
UNDERGRADUATE HARDWARE PROJECT, AN: CONTROLLING A SMART ROBOT BY BREADBOARD CIRCUITRY
MODELING LSI AND MSI COMPONENTS [LSI./MSI.]
USING PROGRAMMABLE LOGIC, DESKTOP 'FOUNDRY' LOWERS RISK OF SEMICUSTOM DESIGN
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(LLL)
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500W MOSFET POWER AMPLIFIER, A (PART 1) [MOSFET./AMP.]
100-MHZ UNIVERSAL FREQUENCY COUNTER, A [100MHZ]
CCD321 ANALOG DELAY, THE [CCD.]
VIDEO MODULATED WIDEBAND FM SIGNAL SOURCE [FM.]
PULSED BROADBAND RADIOFREQUENCY POWER AMPLIFIER [RF./AMP.]
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AIRBAND MEMORY
MOSFETS COMPETE WITH BIPOLARS IN FLYBACK POWER SUPPLIES [MOSFET./PS.]
MOTOROLA MC145445 CMOS 300-BAUD MODEM [CMOS.]
HOW TO USE DIGITAL PANEL METERS [DPM.]

POWER TRANSISTOR DRIVER/AMPLIFIER [AMP.]
LOW-DRIVE, GROUNDED-GRID 3CX800A7 AMPLIFIER, A [AMP.]
MICROCOMPUTER AUTOMATION OF THE DETERMINATION OF ACTIVATION ENERGY
COMPARISON OF CONVENTIONAL 60^{CO} TESTING AND LOW DOSE-ACCUMULATION-RATE EXPOSURE OF METAL-
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DATA CAPTURE MATCHES FLASH CONVERTER SPEEDS
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GET A PRECISION -10-V REFERENCE [10V]
SAW OSCILLATOR USES IC LEADS AS INDUCTORS [SAW.]
VCXO, WITH GOOD STABILITY AND LINEARITY
DIGITAL THICKNESS MONITOR USING ONLY ONE CRYSTAL OSCILLATOR [1]
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PHASE III WITH A TETRODE UHF AMPLIFIER [3/UHF./AMP.]
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PUSH-PUSH DESIGN EXTENDS BIPOLAR FREQUENCY RANGE
OPTOISOLATORS FOR SWITCHING POWER SUPPLIES [PS.]
CHEEP TALK BUILD YOUR OWN SPEECH SYNTHESIZER

MAGNETIC SUSPENSION FOR LECTURE AND CLASSROOM DEMONSTRATIONS
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BUILD A 1-CHIP, 300-MHZ GATEABLE OSCILLATOR [300MHZ]
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AMPLIFIER'S TWO DEVICES ADD UP TO 1000 W FOR NMR [AMP./2/1000W/NMR.]
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SEEING THE LIGHT WITH... FLASHMATE
USE THE KENWOOD VFO-520 WITH A YAESU FT-707 TRANSCEIVER [VFO.]
ARE WE RECEIVING BIOLOGICAL SIGNALS FROM OUTER SPACE?
CREATING PHANTOM CIRCUITS SIMPLIFIES REMOTE MONITORING
VHF: PRINCIPLES, PRACTICES, AND PROJECTS FOR THE VHFER [VHF.]
UHF POWER TRIODE BIAS CIRCUITS [UHF.]
VHF AND UHF CRYSTAL OSCILLATORS [VHF./UHF.]
HIGH-VOLTAGE SUBNANOSECOND RISETIME ELECTRICAL PULSE GENERATION FOR PICOSECOND LASER APPLIC
MAGIC OF TRANSISTORS, THE (PART 8)
DIGITAL POWER FACTOR METER BASED ON DIGITAL FREQUENCY DIVIDER [PF.]
HIGH-PERFORMANCE CRYOGENIC PULSED NMR SPECTROMETER [NMR.]
DIGITAL FIELD STRENGTH METER, A
HIGH-EFFICIENCY COUPLING-INSENSITIVE TRANSCUTANEOUS POWER AND DATA TRANSMISSION VIA AN INDUCT
BUILD A STATE-OF-THE-ART BATTERY CHARGE MONITOR

BUILD A CLASS A AMPLIFIER [AMP.]
BUILD A TRANSFORMERLESS DC-TO-DC VOLTAGE DOUBLER [DC.]
USING THE DRAKE TR-7 AND TR-7A TRANSCEIVERS WITH FULL-BREAK-IN AMPLIFIERS [AMP.]
PRINCIPLES AND BUILDING OF SSB GEAR, THE (PART 4) [SSB.]
BUILD YOUR OWN QRP TRANSMITTER
BUILD A MINIATURE TRACKING TRANSMITTER
50KHZ SAMPLING ADC GIVES 20-BIT RESOLUTION [ADC.]
MAKE A CUSTOM PLASMA DISPLAY
64K ROM EXPANDS PROGRAM BEYOND 4K [ROM.]
VOLTAGE-SENSITIVE BRIDGES
RELIABLE LC OSCILLATOR [LC.]
MULTIWIRE PROPORTIONAL CHAMBER SYSTEM OF THE FERMILAB SINGLE ARM SPECTROMETER [MWPC.]
TELETEXT BOARD
SOME ALARMING TECHNIQUES
COMPACT TRANSISTORIZED DIP OSCILLATOR, A
SYMPOSIUM ON ELECTRONICS
REMOTE ANALOGUE SENSING FOR MICROPROCESSORS [UP.]
SIMPLE GRAPHICAL DATA TABLET FOR SPECTRAL INPUT, A
CONSTRUCT A PEAK-READING LED RF WATTMETER [LED./RF.]
LINEAR TRANSVERTERS
CONSTRUCT A PEAK-READING LED R.F. WATTMETER [LED./RF.]
TUNE-UP BRIDGE FITS INSIDE YOUR HW-7 OR HW-8
NANOSECOND RISE TIME AVALANCHE TRANSISTOR CIRCUIT FOR TRIGGERING A NITROGEN LASER
ION SOURCE METAL-ARC FAULT CURRENT PROTECTION CIRCUIT
EVOLUTIONARY AUDIO SOLID-STATE AUDIO POWER
VFO DESIGN [VFO.]
BIOTELEMETRY AND RADIOTRACKING OF WILD BIRDS: PORTABLE DEVICE USING SOLAR CELLS POWER SUPPLY
VFO INTERFACING [VFO.]
QRP PERSON'S VSWR INDICATOR [VSWR.]
CAPACITIVE COUPLING TAMES HIGH VOLTAGE [HV.]
BURGLAR ALARM THAT RESETS AUTOMATICALLY, THE
THRESHOLD GATE, THE A C.W. OPERATOR'S ACCESSORY
EAR-SAVER
MARS, A FINE GRAIN ALUMINUM-LIQUID ARGON CALORIMETER
VERSATILE DATA TRANSMISSION TRAINING MODULE, A
VCR HEAD AMP TESTER [VCR./AMP.]
STROBOSCOPIC OPTICAL BOXCAR TECHNIQUE FOR THE DETERMINATION OF FLUORESCENCE LIFETIMES
FAST CAVITY DUMPER FOR A PICOSECOND GLASS LASER, A
EASY SWITCHER CONTROL FOUR RIGS, TWO ANTENNAS. [4/2]
PUTTING THE "8P6 SPECIAL HAMCATION RIG" ON 10 MHZ [10MHZ]
OPTOCOUPLER IN FEEDBACK LOOP AIDS CHARGER/REGULATOR
OPTIMAL QRS DETECTOR
DOUBLE-PULSE LASER FLASHLAMP PUMPING AND A NEW METHOD OF FLASHLAMP TRIGGERING
PAUSE DETECTOR ADAPTS TO SIGNAL
ADVANCING THE STATE OF THE ART
NEW INSTRUMENT FOR ACOUSTIC EMISSION ACTIVITY, WITH AN APPLICATION TO THE THERMOELASTIC INSTABILITY
NEW TASKS FOR THE DIGITAL VOLTMETER [DVM.]
NEW DATA TRANSMISSION MODEM, A
LOW PRESSURE DRIFT CHAMBER FOR STUDIES OF THE RADIATION FROM RELATIVISTIC PARTICLES IN SINGLE COLLISIONS

LOW POWER SHAPER AMPLIFIER FOR THE EOS TPC DETECTOR [AMP./TPC.]
KEYBOARD KEYS AND CODE-PRACTICE SYSTEM
DUAL POWER SUPPLY [PS.]
SHARED CODECS: THE QUICK, EASY AND LOW-COST ALTERNATIVE TO PER-CHANNEL CHIPS
EFFICIENT BURST-MODE OPERATION OF A VERY HIGH REPETITION-RATE ND:YAG LASER
BUILD THE CIRCUIT CELLAR AT COMPUTER (PART 2) SCHEMATIC
FIRST GAAS OP AMP HITS 150 MHZ AT UNITY GAIN [1ST/GAAS./OA./150MHZ]
OP AMP IMPROVES PLASMA PROBE'S SENSITIVITY [OA.]
PHASE STABLE AUTOMATIC GAIN CONTROL FOR HETERODYNE HOLOGRAPHIC INTERFEROMETRY [AGC.]
PHASE-LOCKED 2-METER FM TRANSMITTER, A [2M/FM.]
HEART RATE MONITOR
STABLE ULTRASHORT LASER DIODE PULSE GENERATOR
REAL-TIME, HIGH-RESOLUTION OPTICAL BEAM POSITION-SENSING DEVICE
WIDE BAND MULTIPLIER CORRELATOR
MODULAR AMPLIFIER SYSTEM FOR THE READOUT OF SILICON STRIP DETECTORS, A [AMP.]
YAESU FT-980 CAT, THE
FEEDBACK CIRCUIT CLAMPS PRECISELY
PRECISION PULSE GENERATOR FOR TDC CALIBRATION, A [TDC.]
INEXPENSIVE VFO FOR THE YAESU FT-102, AN [VFO.]
INEXPENSIVE, PULSED, TUNABLE IR DYE LASER PUMPED BY A FLASHLAMP-DRIVEN DYE LASER [IR.]
FEEDBACK TAMES DETECTOR OVERSHOOT
DIFFERENTIAL CURRENT-CONVERTERS AND CURRENT-CONVEYERS USING DUAL OPERATIONAL MIRRORED AMP
HIGH-ACCURACY OXYGEN POLAROGRAPH FOR PHOTOSYNTHETIC SYSTEMS
HIGH-RESOLUTION GRAPHICS COMES TO THE VMEBUS BOARD SUPPORTS X-WINDOWS AND GKS STANDARDS.
HIGH VOLTAGE PULSE GENERATION USING CURRENT MODE SECOND BREAKDOWN IN A BIPOLAR JUNCTION TR
BUILD THE GRAFEX-32 (PART 1) A 640 BY 400 GRAPHICS ADAPTER FOR THE APPLE II. [2]
BUILD YOUR OWN SLAVE FLASH TRIGGER
MULTIPURPOSE PCB HEAT LIGHT CONTROLLER [PCB.]
TIME-TO-AMPLITUDE CONVERTER WITH CONSTANT FRACTION TIMING DISCRIMINATORS FOR SHORT TIME INTER
COMPLETE HIGH PERFORMANCE HETERODYNE INTERFEROMETER DISPLACEMENT TRANSDUCER FOR MICROACT
PHOTOMULTIPLIER POWER SUPPLY USING HIGH-FREQUENCY TRANSMISSION [PS./HF.]
PROTOTYPE HELMHOLTZ-THOMPSON NONLINEAR OSCILLATOR, A
IMPROVEMENT ON THE STABILITY OF BBC ANALOGUE PORT
CIRCUIT COUPLES INTELLIGENT DISPLAY TO THE STD BUS
VERSATILE TEMPERATURE CONTROLLER FOR THE INVESTIGATION OF SURFACE PHENOMENA
VERY SENSITIVE MEASUREMENT METHOD OF ELECTRON DEVICE CURRENT NOISE
NOVEL PROCESSOR-PERIPHERAL INTERFACE, A
GAAS CUTS POWER/SPACE IN FIBER-OPTIC NETWORKS [GAAS.]
SONAR-BASED TECHNIQUE FOR THE RATIOMETRIC DETERMINATION OF BINARY GAS MIXTURES, A
DC/DC CONVERTER WITH CLASS E ZERO-VOLTAGE-SWITCHING INVERTER AND CLASS E ZERO-CURRENT-SWITCH
400-512MHZ PREAMPLIFIER [AMP.]
220-V MAINS 500-KHZ CLASS-E CONVERTER USING A BIMOS [220V/200KHZ/BIMOS.]
555 TIMER TRIGGERS PHASE-CONTROL CIRCUIT
SCANVERTER: MAKING A GOOD CONVERTER EVEN BETTER
CLASS-E DC/DC CONVERTERS WITH A CAPACITIVE IMPEDANCE INVERTER [DC.]
CLASS E² NARROW-BAND RESONANT DC/DC CONVERTER [DC.]
CLASS-E AMPLIFIER WITH AN INDUCTIVE IMPEDANCE INVERTER [AMP.]
ANALYSIS AND DESIGN OF CLASS-E² DC/DC CONVERTER [DC.]
CLASS D CURRENT-DRIVEN RECTIFIERS FOR RESONANT DC/DC CONVERTER APPLICATIONS [DC.]

CLASS E LOW DV/DT SYNCHRONOUS RECTIFIER WITH CONTROLLED DUTY RATIO AND OUTPUT VOLTAGE
QUASI-COMPLEMENTARY CLASS-D HF POWER AMPLIFIER, A [HF./AMP.]
MODERN ELECTRONICS COMPUTER EXPERIMENTER LAB, THE (PART 2) BUILD A DUAL-CHANNEL FUNCTION GEN
USE OF OTA'S IN CURRENT-CONTROLLED FILTERS [OTA.]
ONE-CHIP PHASE DETECTOR [1]
PRECISE AND INEXPENSIVE MAGNETIC FIELD SEARCH COIL SYSTEM FOR MEASURING EYE AND HEAD MOVEMENT
ELECTRONICS FOR A SI-CSI(TL)-PHOTODIODE MULTIDETECTOR SYSTEM
PIEZOELECTRIC DROPLET GENERATOR FOR USE IN WIND TUNNELS, A
HIGH-FREQUENCY (>1 MHZ) CONVERTORS FOR INDUCTION HEATING APPLICATIONS [HF./1MHZ]
PRINCIPLES AND BUILDING OF SSB GEAR (PART 5) [SSB.]
BUILD A PAIR OF LINE-CARRIER MODEMS
SIMPLIFY DESIGN OF DIGITAL RADIOS VIA NONLINEAR AMPS [AMP.]
SIMPLE ANALOG CORRELATOR
IMPROVED SELF-CALIBRATING RUBIDIUM MAGNETOMETER ACCURATE TO 0.01 NT RMS [RMS.]
EXPERIMENTAL STUDY OF THE SINGLE PHOTOELECTRON RESPONSE OF THE DELPHI BARREL RICH MWPCS [MW
MOSFET TRANSMISSION-LINE HIGH-POWER ELECTRON-NUCLEAR DOUBLE-RESONANCE SPECTROMETER, A [MO
OPTIMISED CLASS-E AMPLIFIER WITH LOAD VARIATION [AMP.]
RTTY CONVERTER, AN [RTTY.]
HEXFET APPLICATIONS [HEXFET.]
64-K DYNAMIC RAM SPEEDS WELL BEYOND THE PACK [DRAM.]
32-BIT COMPUTER
DB25 RIG, THE
CLASS-A POWER AMPLIFIER (PART 1) THE POWER AMPLIFIER PRESENTED IS A REVAMPED VERSION OF THE LFA
CGA-TO-SCART ADAPTOR
LABORATORY EXPERIMENTS INCORPORATING A SOLID STATE INDUCTION HEATING POWER SOURCE
INEXPENSIVE DIGITAL TAPE RECORDER SUITABLE FOR NEUROPHYSIOLOGICAL SIGNALS, AN
ELECTRONIC ROTAMETER FOR QUANTITATIVE EVALUATION OF ROTATIONAL BEHAVIOUR IN RATS AFTER UNILAT
HIGH-VOLTAGE, FULL-FLOATING 10-MHZ SQUARE-WAVE GENERATOR WITH PHASE CONTROL [HV./10MHZ]
5 IN. SI(LI)/PB SAMPLING CALORIMETER TELESCOPE FOR OBSERVATION OF COSMIC GAMMA RAYS IN THE GEV R
TEKNIKA ATV-M19 19" COLOR TV MONITOR
GALLIUM-ARSENIDE CHARGE-SENSITIVE PREAMPLIFIER FOR OPERATION IN A WIDE LOW-TEMPERATURE RANGE
MULTIFUNCTION CERAMICS IMPROVE EMI CHARACTERISTICS OF BYPASS CAPACITOR [EMI.]
TALKING CHIPS
COMPOSITE PROBE FOR SIMULTANEOUS ELECTRIC FIELD AND CONDUCTED CHARGE MEASUREMENTS, A
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PHOSPHATE ION-SENSITIVE COATED-WIRE/FIELD-EFFECT TRANSISTOR ELECTRODE BASED ON COBALT PHTHAL
PURE LIQUID ARGON CALORIMETER WITH HIGH ENERGY RESOLUTION FOR ELECTROMAGNETIC SHOWERS, A [E
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CIRCUIT MODEL FOR THE CLASS E RESONANT DC-DC CONVERTER REGULATED AT A FIXED SWITCHING FREQUE
RESISTIVE PLASTIC CATHODE FOR PROPORTIONAL COUNTER
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DEVELOPMENT OF LARGE AREA P-SI SURFACE BARRIER DETECTORS AND THE ASSOCIATED CHARGE SENSITIVE
NEW METHOD TO REGULATE RESONANT CONVERTERS, A
MEASUREMENT SYSTEM INDUCED ERRORS IN DIODE THERMOMETRY
READER'S QUESTIONS
CLASS D VOLTAGE-SWITCHING MOSFET POWER AMPLIFIER [MOSFET./AMP.]
MICROPOWER LEVEL TRANSLATOR MATES LOGIC FAMILIES

HIGH-SIDE FET DRIVERS, DRAWING SEMILOG PLOTS, RESONANCE FUNDAMENTALS, LASER-PRINTING REPAIR KI
NONIDEAL MACROMODEL OF THYRISTOR FOR TRANSIENT ANALYSIS IN POWER ELECTRONIC SYSTEMS, A
CIRCUIT SIMULATES 4- TO 20-MA LOOP [20MA]
DESIGN LINEAR CIRCUITS THAT SERVE DIGITAL SYSTEM NEEDS
GET +5V/100MA FROM FOUR CELLS [4]
FRUGAL NETWORKER, THE
DEVELOPMENT OF SUBSTRATE CARRIER SYSTEM
HIGH VOLTAGE HIGH FREQUENCY CLASS-E CONVERTER SUITABLE FOR MINIATURIZATION [HV./HF.]
PROGRAM YIELDS ACTIVE-FILTER R, C VALUES [RC.]
100-MHZ NOISE SPECTROMETER [100MHZ]
RCA VINTAGE TUBE QUALITY (LLL)
ADAPTIVE-FIRMWARE CARD FOR THE APPLE II [2]
EVERLASTING GEM
SOLID STATE BAROMETER
PULSED MAGNET FOR MAGNETO-OPTICAL EXPERIMENTATION
PERFORMANCE IMPROVEMENT OF AN X-RAY PREIONIZED XECL LASER OF VERY SMALL DISCHARGE VOLUME
DUAL-PORT 8K RAM ALLOWS 2-UP MEMORY ACCESS [RAM./UP.]
DESIGNING WITH PROGRAMMABLE LOGIC ARRAYS [PLA.]
AUTOMATED MONITORING ENVIRONMENT FOR THE KOLAR GOLD FIELDS NUCLEON DECAY EXPERIMENT, AN
TO BOOST BUS BANDWIDTH, MATCH PROCESSOR AND MEMORY TIMING [BW.]
STATUS OF THE SEGMENT, INTERCONNECT, CABLE SEGMENT ANCILLARY LOGIC, AND THE CABLE SEGMENT HY
X-BAND LOCAL OSCILLATOR DISTRIBUTION NETWORK [LO.]
SUB-AUDIO FREQUENCY METER [AF.]
ROBOTICS, CONTROL AND MONITORING WITH AN EMBEDDED CONTROLLER
THEY'RE UP!
BUILD THIS LASER JET MEMORY CARD
HALF DOZEN NEW BOARDS FENCE IN HIGH PERFORMANCE, A
DESIGNING DOUBLE-SIDED PC BOARDS [PCB.]
8 BIT DAC COMPRISING 16 VOLTAGE OUTPUTS [DAC.]
R-E ROBOT (PART 6)
HIGH-DENSITY CHIP SET TRIMS PC AT FOR INDUSTRIAL TASKS [PC.]
MAGNETIC BUBBLE MEMORY UPDATE
TWO CHIPS ADD KEY-REPEAT TO 8279 KEYPAD ENCODER [2]
IMPROVING MASS STORAGE PERFORMANCE
NEW BUBBLE-MEMORY PACKAGING CUTS BOARD SPACE AND MANUFACTURING COSTS
DESIGNING WITH LINEAR IC'S (PART 6)
IMAGE ACCUMULATION, STORAGE, AND DISPLAY SYSTEM FOR A SCANNING TRANSMISSION ELECTRON MICROS
SIBILANCE DISTORTION SUPPRESSOR
SUBSONIC FILTER
BUBBLE MEMORY FOR THE S-100 BUS
DEBOUNCING A CIRCUIT
RGBI-TO-ANALOG MONITOR ADAPTER, AN [RGB.]
RUGGED LAMP DRIVER IS SHORT-CIRCUIT PROOF
SCIENTIFIC INTERFACE FOR THE AMSTRAD PCW
2-IC RING COUNTER SHIFTS LEFT OR RIGHT
FLIP-FLOP DEBOUNCES SWITCH [FF.]
TTL-COMPATIBLE MULTIPOINT BUS [TTL.]
SYMMETRICAL-OUTPUT LOGIC DRIVES CABLES
TWO CIRCUITS FOR THE 74LS241 [2]

TWO APPROACHES TO CONSTRUCTION OF VIBRATING PROBES FOR ELECTRICAL CURRENT MEASUREMENT IN S
CIRCUIT SHOWS PULSES' DELTA FREQUENCY
CIRCUIT CELLAR NEIGHBORHOOD STRATEGIC DEFENSE INITIATIVE THE BALLISTIC DYNAMICS OF PLASTIC SODA
FASTBUS PROCESSOR INTERFACES FOR VAX-11
PUT 2 METERS IN YOUR SHIRT POCKET [2M]
START WITH BASIC INVESTIGATIONS TO UNDERSTAND ROBOTICS, AI
ROBOT BUG
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WEEKENDER, THE: A MOBILE THEFT DETERRENT
SENSORS MADE SIMPLE
CMOS LOGIC FAMILIES DIVERSIFY DESIGN OPTIONS [CMOS.]
INS AND OUTS OF MICROPHONES, THE
OPTICAL FIBER COMMUNICATIONS (PART 1)
MICROCOMPUTER DATA MANUAL
BUILD A MOBILE AND PORTABLE UTILITY BOX
MICROCONTROLLER POWERS SMALL MOTORS
OPENING THE GATES OF DIY LSI (PART 1) INTRODUCING PROGRAMMABLE LOGIC [LSI.]
SINGLE BOARD 6809 COMPUTER
HYBRID-IC TECHNIQUES INCREASE POWER IN MOTOR-DRIVE CIRCUITS
RISC CONTROLLER WITH RECONFIGURABLE CACHE [RISC.]
ANALYSIS OF HYBRID ANALOG/SWITCHED-CAPACITOR PHASE-LOCKED LOOP [PLL.]
FIBER OPTIC LINK FOR LOCAL DATA NETWORK
SUBMERSIBLE LIQUID LEVEL ALARM FOR EVAPORATIVE CONCENTRATION
BUILD-IT-YOURSELF DIGITAL LASER
SIMPLE CIRCUIT GENERATES 16 WAVEFORMS ABLE TO GENERATE COMPLEX WAVEFORMS WITH A SINGLE EPR
SCOPE'S BEAM LOCATES MISSING CODES
ELECTRO-BRAILLE TRANSDUCERS AND THEIR APPLICATION
UNIQUE TRANSFORMER DESIGN SHRINKS HYBRID ISOLATION AMPLIFIER'S SIZE AND COST [AMP.]
PC MICRO-DEVELOPMENT SYSTEM, A [PC.]
ANALOGUE ACTION BETTER DEVICES FOR POWER RAIL MONITORING
FIBER OPTIC DATA LINK
FIBER OPTIC SIGNAL TRANSMISSION TO REDUCE RADIO-FREQUENCY INTERFERENCE FROM A HIGH-VOLTAGE S
RGB-TO-NTSC CONVERTER HIGH-QUALITY COMPUTER VIDEO ON YOUR TV - FOR PEANUTS! [RGB./NTSC./TV.]
HYBRIDIZED OFF-LINE 2-MHZ ZERO-CURRENT-SWITCHED QUASI-RESONANT CONVERTER [2MHZ]
RGB TO NTSC ENCODER [RGB./NTSC.]
HYBRID AUDIO PREAMPLIFIER WITH LOW DISTORTION [AMP.]
CABLE TESTER IS EXPANDABLE
MICROPROCESSOR-BASED DATA ACQUISITION SYSTEM FOR CHEMILUMINESCENCE MEASUREMENTS [UP./DAS.]
RADAR SPEED-GUN CONTROLLER
PREAMPLIFIER FOR 80- AND 160-M LOOP AND BEVERAGE ANTENNAS [AMP./160M]
LSI SHRINKS TELEPHONE INTERFACING PROBLEMS - BUT NOT PERFORMANCE [LSI.]
BUILD A CYBERNETIC KEY PROTECTS YOUR SOFTWARE AND HARDWARE FROM PIRACY
BUILD AN EXPANDABLE CONTROLLER NETWORK
TELETEXT DECODER (PART 2)
HOME SATELLITE WEATHER CENTER, THE (PART 1) RGBI TO NTSC CONVERTER [RGB./NTSC.]
COMPUTER-CONTROLLED TORQUE MOTOR, A
PRODUCT DETECTION WITHOUT TRANSFORMERS AND TUNED CIRCUITS
BOOT YOUR PC REMOTELY - FOR LESS THAN \$80! [PC.]
SERIAL DATACOMM DRIVER/RECEIVER ICS FURNISH HIGHER DATA RATES, LOWER POWER CONSUMPTION

DESIGN OF A DIGITAL PHASE SHIFTER FOR MULTIPLE-QUANTUM NMR [NMR.]
ANALOG-DIGITAL CONVERTER FOR TRS-80 INTERFACING [ADC.]
VIBRATION DETECTOR AND ANALYSER
HYBRID PATCH CLAMP AMPLIFIER, A [AMP.]
MOBILE BATTERY CHARGER
DUBBING MIXER EV7000 (PART 1) CONNECTION AND CIRCUIT DESCRIPTION
MICROPROCESSOR DEBUGGING AID [UP.]
MICROCOMPUTER CONTROLLED BOXCAR INTEGRATOR WITH SUBNANOSECOND RISE TIME
INEXPENSIVE DISPLAY FOR WEATHER SATELLITE PICTURES SET UP YOUR MICROCOMPUTER TO RECEIVE WEF
BUILD A Z8-BASED CONTROL COMPUTER WITH BASIC (PART 2)
THICK-FILM HYBRID IMPLANTABLE TELEMETER
NONLINEARITIES IN MOVING-COIL LOUDSPEAKERS WITH OVERHUNG VOICE COILS
VERSATILE ARCHITECTURE FOR IMAGING, A
PERFORMANCE OF 3 M FIBER OPTIC LIGHT GUIDES [3M]
VERSATILE DELAY UNIT WITH CCDS, A [CCD.]
FIVE-BAND JUNKBOX TRANSMITTER, THE [5]
LABORATORY-STYLE RX NOISE BRIDGE, A
MOBILE STUDIO UNIT
HIGH SENSITIVITY OR STREAK MODE INTERFEROMETER FOR PULSED PLASMA DIAGNOSTICS
TESTING PREAMP TUBES FOR THE REAL WORLD [AMP.]
OPTICAL CIRCUIT GENERATES FAST PULSES
SUBWOOFER SIMULATOR
INEXPENSIVE P-I-N PHOTODIODES MATCH FIBER, SOURCE CHARACTERISTICS
ELECTRONIC BUBBLE GATE FOR COLORIMETRIC, AIR-SEGMENTED, CONTINUOUS FLOW ANALYZERS
HIGH RATE PROPORTIONAL CHAMBER, A
RESTORING A CLASSIC
EXTERNALLY HEATED CUBR LASER
NEW ANALOGUE PROCESSOR USING DIGITAL CIRCUITS
BUBBLE MEMORY CIRCUITS PROMOTE 3-DIMENSIONAL STACKING
BUILD A QUICK AND EASY CABLE CHECKER
RAMS REDUCE CHIP COUNT IN PROGRAMMABLE DELAY LINES [RAM.]
BUILD AN AUDIO FILTER WITH PIZZAZZ!
SIMPLE METHOD FOR RECORDING AND ANALYSING CIRCADIAN RHYTHMS IN MAN, A
LOW COST A/D MICRO INTERFACE USING TL507
W60RGY NOTES, THE
VIBRATION AMPLIFIER [AMP.]
MOBILE EXTENDER USING VOX CONTROL WIRE UP YOUR TRANSCEIVER TO JUMP OVER MOUNTAINS
CABLE TESTER
CACHE-MEMORY FUNCTIONS SURFACE ON VLSI CHIP [VLSI.]
AUDIO CIRCUITS
USE A CRT-CONTROLLER CHIP TO MIX TEXT AND GRAPHICS [CRT.]
THEORETICAL APPROACH TO THE DESIGN OF A/D CONVERTER BY MEANS OF SCHMITT TRIGGERS, A [ADC.]
VOICE SYNTHESIS FOR THE COLOR COMPUTER (PART 3)
BUILD YOUR OWN PICTURE PHONE
BUILD A BABY MONITOR
MAKE YOUR OWN SUBLIMINAL TAPES
SAMPLING OF TECHNIQUES FOR COMPUTER PERFORMANCE OF MUSIC, A
SIMPLE METHOD FOR CABLE COMPENSATION WITH FAST PULSE TRANSMISSION APPLICATIONS, A
DYNAMIC-RAM-CONTROLLER ICS SQUEEZE MAXIMUM PERFORMANCE FROM DRAMS [DRAM.]

CONCURRENT PUMP-PROBE AND STREAK CAMERA MEASUREMENTS WITH A SINGLE MODE-LOCKED ND:YAG LASER
EXPERIENCE 10-METER FM OPERATION! [10M/FM.]
APPLICATION OF A MICROPROGRAMMABLE MICROPROCESSOR IN DIGITAL SIGNAL PROCESSING ANALYSIS [UP./]
EXPERIMENTAL DATA FREQUENCY MEASUREMENT WITH A PC [PC.]
DESIGNERS UPDATE
VISION SYSTEM FOR ROBOTIC TOYS, A
NEW COMPUTER-CONTROLLED GRAPHIC AUDIO EQUALIZER IC, A
LOW-COST 10-CHANNEL S-100 COMPATIBLE COUNTER-TIMER CIRCUIT, A
SSB OVERDRIVE INDICATOR [SSB.]
FIBER OPTIC KITS SIMPLIFY SYSTEM DESIGN
FIBRE-OPTIC ECG MONITORING INSTRUMENT FOR USE IN THE OPERATING ROOM [ECG.]
8-BIT HIGHEST-WINS STORE
ONE-BAND SHORTWAVE CONVERTER [1/SW.]
USING FIBER OPTICS TO TRANSMIT A FREQUENCY STANDARD - MORE INFORMATION
BUILD YOUR OWN COMBINED S.S.B. MODULATION MONITOR/MULTI-FUNCTION TEST INSTRUMENT [SSB.]
TELEVISION CAMERA FOR FAST-SCAN DATA ACQUISITION [TV.]
CYLINDRICAL DRIFT CHAMBER FOR THE MEASUREMENT OF HIGH CHARGED-PARTICLE MULTIPLICITIES IN HADRON
COMPARATOR COMPARES 2'S COMPLEMENT NUMBERS
TIME RESOLUTION STUDIES OF FAST PHOTOMULTIPLIERS
BETTER TUBE TESTER, A CHECK MORE THAN JUST DC AMPLIFICATION. [DC./AMP.]
NEW THICK-FILM TEMPERATURE SENSORS APPLIED IN SOME HYBRID MEASUREMENT DEVICES
FIBER OPTIC MODEM PROVIDES GOOD NOISE IMMUNITY
EXPERIMENTING WITH A LIGHT PEN (PART 2)
HV FLOATING MOS-GATE DRIVER FOR INDUSTRIAL USES [HV./MOS.]
FLOATING MOS-GATE DRIVER [MOS.]
SMART CONTROLLER CHIP SET SIMULTANEOUSLY JUGGLES HARD-, FLOPPY-DISK DRIVES
LOCATE MISSED DATA REQUESTS
AUDIO COMPRESSOR SPLITS THE BAND
SILICON DETECTORS AND ASSOCIATED ELECTRONICS ORIENTED TO CALORIMETRY
DATA COMMUNICATIONS
NEW PREAMPLIFIER FOR DRIFT CHAMBERS, A [AMP.]
IMAGING CHIP HOLDS THREE 15-MHZ 8-BIT ADCS [3/15MHZ/ADC.]
HYBRID POWER AMPLIFIER [AMP.]
BRIDGE DRIVE SIMPLIFIES CLASSIC DESIGN
NO-FRILLS COMPRESSION DELIVERS LOW-COST PC VIDEO [PC.]
ULTRA-LIGHTWEIGHT HF TRANSMITTER USING HIGH VOLTAGE MOSFETS, AN [HF./HV./MOSFET.]
LABORATORY COMPUTER INTERFACE FOR EXTERNAL DEVICE CONTROL
AT CHIP SETS A MIXED BLESSING FOR EMBEDDED COMPUTERS
DE/DX ELECTRONICS FOR MARK II EXPERIMENT AT SLAC [2]
220 MHZ ALL-MODE TRANSVERTER, THE DESIGNED FOR THE DEDICATED HOME-BREWER. [220MHZ]
TRACTOR ENGINE TORQUE TRANSDUCER USING GOVERNOR SETTING AND RPM [RPM.]
PICK-A-NUMBER COUNTER AND TIMER
OSCILLOSCOPE BAR DISPLAY
VICTOR VICTORIOUS THE VICTOR 9000 COMPUTER
MICROPROCESSOR CONTROLLED D.C. DRIVE, A [UP./DC.]
EXCLUSIVE-OR INPUTS GIVE YOU MANY USES FOR GAAS FLIP-FLOP [GAAS./FF.]
TACHOMETER MEASURES LOW FREQUENCIES [LF.]
TACHOMETER CIRCUIT REDUCES PARTS COUNT
LUCKY LOTTO SELECTOR

MICROCOMPUTER SYSTEM FOR DATA LOGGING AND PROCESSING, A
NICD CHARGER WITH TIMEOUT [NICD.]
MICROPROCESSOR-BASED MUSCLE STIMULATING AND MONITORING SYSTEM, A [UP.]
ADD A "TICK-TOCK" TO YOUR DIGITAL CLOCK
MODIFIED ANGSTROM'S METHOD FOR MEASUREMENT OF THERMAL DIFFUSIVITY OF MATERIALS WITH LOW CON
VIDEO SIGNAL TIMING AND REAL-TIME INTERRUPT CONTROL
LCD DIGITAL COMPASS, AN [LCD.]
INEXPENSIVE COMBINATION LOCK
MTEC: A MICROPROCESSOR SYSTEM FOR ASTRONOMICAL TELESCOPE AND INSTRUMENT CONTROL (LLL) [UP.]
HIGH SPEED TIME-RESOLVED HOLOGRAPHIC INTERFEROMETER USING SOLID-STATE SHUTTERS
BUILD A DIGITAL CAMERA SHUTTER TIMER
BUILD A LOW-COST A/D CONVERTER [ADC.]
BUILD A POWER FREQUENCY MONITOR COUNTING CYCLES UNTIL IT HERTZ
VOLTAGE-CONTROLLED ONE-SHOT FOR SERVO CONTROL SYSTEMS, A [1]
MULTIPLEXERS FOR ACQUIRING DATA IN MOLECULAR BEAM LASER DEPLETION EXPERIMENTS [MUX.]
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DIGITAL AGC IS FAST, STABLE, AND ACCURATE [AGC.]
SIGNAL PROCESSING FOR AN INFRARED ARRAY DETECTOR [IR.]
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FOUR CHANNEL MIXER [4]
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ECC CHIP REDUCES ERROR RATE IN DYNAMIC RAMS [DRAM.]
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ACCENTED BEAT METRONOME KEEP TIME WITH THIS SIMPLE, INEXPENSIVE METRONOME
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PACKET ON THE MAC CONNECT WITH THE WORLD WITHOUT A TNC. [TNC.]
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HIDE-A-WAY STEALTH RADAR DETECTOR SYSTEM
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C-QUAM AM STEREO CONVERTER [AM.]
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VERSATILE HIGH-QUALITY TIME-TO-DIGITAL CONVERTER, A [TDC.]
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10 GHZ FUN EASY WAY TO GET ON THE 3CM BAND. [10GHZ]
4 + 1 TONE DECODER, THE DECODER FOR BOTH GROUP AND INDIVIDUAL CALLS FOR UNDER \$35!
QUANTIZED FEEDBACK TAKES ITS PLACE IN ANALOG-TO-DIGITAL CONVERSION [ADC.]
ANALOG TO DIGITAL CONVERTER AND CONTROL INTERFACE FOR MICROCOMPUTERS [ADC.]
NEAR-OPTIMUM DYNAMIC REGULATION OF DC-DC CONVERTERS USING FEED-FORWARD OF OUTPUT CURRENT A
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MODULAR SOFTWARE-CONTROLLED ELECTROCHEMICAL SYSTEM
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SHAKY: THE POPULAR ELECTRONICS(R) ELECTRONIC PLAYMATE
ACCURATE TIMEBASE FOR DIGITAL ELECTRONIC CLOCKS
MICRO TRACER UNIT
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LED PENDULUM METRONOME [LED.]
MEDFER NOTES FOR 2/9/89: STEVE MCGREEVY, 45 ELDA DR., SAN RAFAEL, CA 94903
CHESS TIMER
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PRESETTABLE COUNTER WITH ALARM
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THERE MAY BE SEVERAL ELECTRONIC TEST INSTRUMENTS LURKING IN YOUR JUNKBOX
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SAFETY FIRST [1ST]
DIGITISED MULTICHANNEL SURFACE BALANCE, A
DIGITAL PRESSURE GAUGE
NEGATIVE RESISTANCE IN AF FILTERS [AF.]
DIGITAL ALTIMETER
BUILD A STEREO BLEND CONTROL
BUILDING AN OPERATING IMPEDANCE BRIDGE
BUILD THIS STEREO TV DECODER [TV.]
BUILD AN UNLIMITED-VOCABULARY SPEECH SYNTHESIZER
BUILD STEP-UP/STEP-DOWN REGULATOR
SOIL MOISTURE METER
BUILD THIS BENCHTOP FREQUENCY COUNTER

Sheet1

BUILD A PORTABLE 2-MHZ FREQUENCY COUNTER [2MHZ]
BUILD A VOICE DISGUISER
DELAY CIRCUIT PRODUCES PRECISION TIME INTERVALS
TELEPHONE BELL SUBSTITUTE
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C-MOS CIRCUIT CONTROLS STEPPER MOTOR [CMOS.]
C-MOS ICS MAKE PRECISE DIGITAL TIMER [CMOS.]
SIMPLE RECORDING AND WIND SPEED ANEMOMETER, A
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MONITOR, CONTROLLER SIT IN SINGLE PACKAGE
PROPORTIONAL TEMPERATURE CONTROLLER USING A SOLID-STATE HEAT PUMP
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SUPER SIMPLE FREQUENCY COUNTER
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VARIABLE TEMPERATURE TEST STATION FOR EXTRACTION OF SEMICONDUCTOR DEVICE MODELING PARAMETERS
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DIRECT CURRENT CONDUCTIVITY DETECTION IN ION CHROMATOGRAPHY [DC.]
HARDWARE FOR DIGITALLY CONTROLLED SCANNED PROBE MICROSCOPES
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DUAL-CHANNEL FLAME INFRARED EMISSION DETECTOR FOR GAS CHROMATOGRAPHY [IR./GC.]
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QUICK AND EASY FIELD-STRENGTH METER HOME-BREWING CAN BE SIMPLE!
SWITCHES AND SWITCHING TECHNIQUES
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COMMODORE PULSE GENERATOR ONLY THREE COMPONENTS ARE NEEDED TO MAKE A COMMODORE C64 INTO
COMPUTER-BASED SYSTEM FOR CONTINUOUS ON-LINE MEASUREMENTS OF TISSUE BLOOD PERFUSION
COMPUTER CONTROL OF PROJECTORS SIMPLE INTERFACE FOR RANDOM ACCESS OF SLIDES
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DING-A-LING

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IMPROVED TIME-OF-FLIGHT ION CHARGE STATE DIAGNOSTIC [TOF.]
APPARATUS WITH NANOSECOND FIELD TRANSITION TIMES FOR FIELD REVERSAL STUDIES OF SURFACE PROCESSES
VERY-LOW-NOISE AMPLIFIER FOR LOW-TEMPERATURE PULSED NMR EXPERIMENTS [LNA./NMR.]
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AUTORANGING IN HIGH SPEED DATA ACQUISITION SYSTEMS [DAS.]
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WATTS 'N' SWR [SWR.]
MOTION-CONTROL BASICS
TRULY INEXPENSIVE VHF/UHF RF SWITCH, A [VHF./UHF./RF.]
DEVICE FOR MEASURING TACTILE SPATIOTEMPORAL SENSITIVITY, A
LOW-COST ELECTRONIC RINGER FOR TELEPHONE LINES
LOW-COST, HIGH-VOLTAGE, TWO-TERMINAL, CONSTANT-CURRENT SOURCE FOR STUDENT USE IN ELECTROPHYSIOLOGY
PROGRAMMABLE CONTROLLER REGULATES HEATER PRECISELY
MOTOR CONTROLLER PROJECT
MF TUNED ACTIVE WHIP ANTENNA
23 CM PLL EXCITER FOR ATV [23CM/PLL./TV.]
AC POLAROGRAPHIC DETERMINATION OF THE RATE OF ION TRANSFER FOR A SERIES OF ALKYLAMMONIUM IONS
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CHARGER BABIES NEW CELL TYPE
MICROELECTRODE AMPLIFIER FOR INTRACELLULAR STIMULATION AND RECORDING [AMP.]
MICROPOWER OP-AMP [OA.]
MICROPHONE CONTROLS VOICE-ACTUATED SWITCH
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ENDOR WITH POLARIZATION-MODULATED RADIO FREQUENCY FIELDS [RF./ENDOR.]
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ELECTRONIC ALTIMETER
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SPEECH SYNTHESIZER HOW TO ADD A VOICE TO YOUR COMMODORE 64
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YAESU FL-7000 SOLID-STATE HF AUTOMATIC LINEAR AMPLIFIER, THE [HF./AMP.]
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INELASTIC ELECTRON TUNNELING SPECTROMETER FOR COMPLETE CALIBRATED MEASUREMENTS OF ANY TWO

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DRIVER DESIGN FOR A LASER CAVITY DUMPER
NOISE MEASUREMENTS ON SILICON J-FETS AT LOW TEMPERATURE USING A VERY HIGH Q SUPERCONDUCTING
JELLYBEAN OP AMPS [OA.]
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SIMPLE COMPUTER-CONTROLLED POTENTIOSTAT FOR THE CHARACTERIZATION OF ELECTROCHROMIC FILMS
MANCHESTER DECODER OPTIMIZES FIBER-OPTIC RECEIVER
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PROCESSING SPEECH
TWO-COLOUR PYROMETER MEASUREMENT OF THE TEMPERATURE OF INDIVIDUAL COMBUSTING PARTICLES [2]
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VERSATILE SPECTROMETER SYSTEM FOR SCANNING AUGER MICROSCOPY, A
DESIGN STRATEGIES AID ELF/VLF RECEIVERS [VLF.]
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YAESU FT-77 COMPACT H.F. TRANSCEIVER [HF.]
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CABLE CONNECTION BETWEEN DETECTOR AND PREAMPLIFIER TO AVOID THE RADIATION DAMAGE [AMP.]
ELECTRONIC THERMOMETER HAS 10-MV/DEGREE F OUTPUT [10MV]
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UNIVERSAL PRECISION OP AMPS NEAR THEORETICAL SPEC LIMITS [OA.]
DELPHI HADRON CALORIMETER MODULE CHARACTERISTICS IN THE SATURATED PROPORTIONAL MODE OF ITS I
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ADD "BELLS AND WHISTLES" TO YOUR PROJECTS HOW TO SPICE UP YOUR PROJECTS WITH SOUND EFFECTS
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SYNCHRONIZATION OF TIME MEASUREMENTS AT WIDELY SPACED LOCATIONS

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CHOPPER AMPLIFIER STABILIZES 3-AMP SYSTEM [AMP.]

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EXPERIMENTAL RESULTS ON SUPERHEATED SUPERCONDUCTING GRANULES AT 3HE TEMPERATURES

CHRONIC MEASUREMENT OF CARDIAC OUTPUT IN UNANESTHETIZED RATS USING MINIATURE THERMOCOUPLES

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OPTO-BIAS BASIS FOR BETTER POWER AMPS [AMP.]

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FOXHUNT RADIO DIRECTION FINDER HOMING IN BY SIGHT AND SOUND.

PC PROGRAM CUTS OSCILLATOR DESIGN TIME [PC.]

VLF CONVERTER [VLF.]

OFF-AIR KEYING MONITOR

VHF TONE TRANSMITTER [VHF.]

UHF SOURCE DIPPER THE EASY WAY TO TUNE FROM 400-500 MHZ! [UHF./500MHZ]

UHF FIELD STRENGTH METER FOR 400 TO 500 MHZ. [UHF./500MHZ]

HIGH SENSITIVITY SWR METER FOR LOW-POWER COMMUNICATIONS EQUIPMENT [SWR.]

HIGH-SPEED, HIGH-GAIN INSTRUMENTATION AMPLIFIER [IA.]

USING THE SB-650 WITH THE ALLIED AX-190

BUILD AN ELF MONITOR [LF.]

FULLY ELECTRONIC SERVO CIRCUITRY FOR WAVELENGTH-MODULATION SPECTROSCOPY

MONITOR BUFFER HAS SIMPLE SOLUTION

CONTEST QUALITY HEADSET AND MIKE LET YOUR VHF/UHF HEADSET/MIKE WORK ON HF. [VHF./UHF./HF.]

CONTINUING ALONG THE RIGHT LINES (PART 4) GEORGE DOBBS G3RJV CONTINUES HIS SERIES FOR THE BEGIN

HERE'S A WINDOW-MOUNTED CB ANTENNA THAT REALLY PERFORMS. [CB.]

NOVEL WIDE-BAND DIFFERENTIAL AMPLIFIER, A [AMP.]

NEW IDEAS FOR THE VHF WATTMETER [VHF.]

PHASE-LOCK VCOS FOR LOW-NOISE UHF SYNTHESIZERS [VCO./UHF.] [VCO./UHF.]

PBAR: A SUPERCONDUCTING MAGNET SPECTROMETER FOR COSMIC RAY ANTIPROTON STUDIES

ENCAPSULATED MODULES

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HIGH-QUALITY UHF SOURCE FOR MICROWAVE APPLICATIONS [UHF.]

HIGH-CURRENT VERY WIDE-BAND TRANSCONDUCTANCE AMPLIFIER, A [AMP.]

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COMMON MODE REJECTION RATIO FOR CASCADED DIFFERENTIAL AMPLIFIER STAGES [CMRR./AMP.]

GENERALIZED OP-AMP MODEL SIMPLIFIES ANALYSIS OF COMPLEX FEEDBACK SCHEMES [OA.]

IMPROVED TRANSPORTABLE DC VOLTAGE STANDARD, AN [DC.]

END SWITCHING-SUPPLY SPIKES

SOFTWARE FAMILY INTEGRATES SYNTHESIS AND SIMULATION

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POWER MOSFETS TAKE THE LOAD OFF SWITCHING SUPPLY DESIGN [MOSFET.]

DUAL-PULSE SCANNING ELECTRON BEAM ANNEALER, A

MICRO-CAP III UNDER TEST [3]

VHF CONVERTER - EASY TO BUILD, YET STATE OF THE ART [VHF.]

SIMPLE SIGNAL SOURCE FOR 903 MHZ, A [903MHZ]

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ULTRAHIGH FREQUENCY THIN FILM RF-SQUID MAGNETOMETER WITH A CRYOGENIC PREAMPLIFIER EMPLOYING
DUAL VOLTAGE-REFERENCE AND COMPARATOR ICS OFFER PRECISION SPECS, DRAW LITTLE CURRENT
ALARM MONITORS TEMP AND VOLTAGE
PRECISION OP AMP SERVES HOST OF DESIGN NEEDS [OA.]
CLEVER TECHNIQUES IMPROVE THERMOCOUPLE MEASUREMENTS
DIFFERENTIAL AMPLIFIER REDUCES PARTS COUNT [AMP.]
MULTICHIP POWER MOSFETS BEAT BIPOLARS AT HIGH-CURRENT SWITCHING [MOSFET.]
MONOLITHIC CMOS-SWITCH IC SUITS DIVERSE APPLICATIONS [CMOS.]
CHOPPER AMPLIFIER IMPROVES OPERATION OF DIVERSE CIRCUITS [AMP.]
DESIGN OF A ROCKET-BORNE RADIOMETER FOR STRATOSPHERIC OZONE MEASUREMENTS
RC TIME-OUT CIRCUIT CATCHES NOISE SOURCE LOCK-UP [RC.]
32-CHANNEL DIGITAL 6-BIT TDC WITH 2.5 NS LEAST COUNT [TDC./2.5NS]
TRANSDUCER TO MEASURE THE TORQUE IMPOSED ON THE ENGINE OF A PASSENGER CAR BY ACCESSORY AND
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HOW TO USE TRANSCONDUCTANCE OPERATIONAL AMPLIFIERS [OA.]
STATE-VARIABLE FILTER HAS HIGH Q AND GAIN
DIGITAL MILLIVOLTMETER
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BUILD AN EPROM EMULATOR [EPROM.]
BUILD THE SPEEDI-WATT
DEMONSTRATION OF PHARMACOKINETICS AND PHYSIOLOGICAL MODELLING USING A MICROCOMPUTER FOR DA
PROGRAMMABLE PULSER TAKES 5-NSEC STEPS [5NS]
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INEXPENSIVE OPTICAL PAPER-TAPE READER
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DIGITAL COMBINATION LOCK IS VIRTUALLY CRACKPROOF
PROCESSOR CHIP SET SHRINKS LATENCY, BOOSTS THROUGHPUT
RC-DISCHARGE CLOCK MAKES A-D ENCODER LOGARITHMIC [RC.]
TD-TTL CRYSTAL OSCILLATOR [TTL.]
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ADD A TOUCH OF CLASS TO CB CONVERSIONS [CB.]
FREQUENCY MULTIPLIER USES DIGITAL TECHNIQUE
PRESSURE GAUGE FOR HIGHLY REACTIVE GASES, A
OFF AND ON WORK: DESIGNING DIGITAL SYSTEMS
DIGITAL AUTOMOTIVE TUNE-UP METER
DIGGER, THE
DIGGER, THE
LIGHT-ACTIVATED SWITCH, A
ANGULAR DISPLACEMENT MEASUREMENT SYSTEM FOR USE IN DAMPED TORSION PENDULUMS
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DIGITAL COMPARATOR, THE
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LIGHT-SENSITIVE TONE GENERATOR, A
DIGITAL HEART RATE METER USING C.M.O.S. DEVICES [CMOS.]
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DIGITAL APPROACH STREAMLINES DESIGN OF BASELINE CLIPPER
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DIGITAL ELECTRONICS COURSE, THE FINDING THE RIGHT COMBINATION
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SIGNAL-TO-NOISE RATIO PERFORMANCE CHARACTERISTICS OF AN INDUCTIVELY COUPLED PLASMA [SNR./ICP.]
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DIGITAL PROGRAMMABLE MONOSTABLE MULTIVIBRATOR
ENHANCING ANALOGUE METERS
SLIT-SCAN FLOW CYTOMETER FOR RECORDING SIMULTANEOUS WAVEFORMS
BUILD THIS HIGH-PERFORMANCE TOP-BAND CONVERTER
BUILD "CHARGE" A DIGITAL ELECTRONIC BUGLE-CALL GENERATOR WITH AN AUDIO AMPLIFIER FOR MOBILE OR
SWITCHED-BATTERY DIGITAL CAPACITANCE METER, A
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GAIN CONTROL INTERFACE FOR A NANOVOLTMETER
BUILD THE LIGHTNING BULB
USING A PULSE HEIGHT ANALYZER AS AN XY RECORDER: APPLICATION TO AUGER SPECTROSCOPY [PHA.]
BUILD A SIMPLE DIGITAL OSCILLOSCOPE
BUILD A GAASFET PREAMP SEQUENCER MAST-MOUNT YOUR PREAMP FOR MAXIMUM PERFORMANCE. [GAASFE
BUILD A PRECISION DARKROOM TIMER
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COMPUTERIZED ANGULAR POSITION TRANSDUCER
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COMPUTER CONTROL OF THE NICOLET 1170 SIGNAL AVERAGER
SIMPLE ELECTROCARDIOGRAPH, A [ECG.]
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PRODUCTION OF CENTRIFUGAL FIELDS GREATER THAN 100 MILLION TIMES GRAVITY [>100000000]
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NEW, PRACTICAL OP AMP CIRCUITS [OA.]
NEW TECHNIQUE FOR THE MEASUREMENT OF VAPOUR SUPERHEAT IN A VAPOUR-LIQUID DROPLET FLOW, A
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DIGITAL FILTER DESIGN MADE EASIER FOR FIRST-TIME USERS [1ST]
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BUILD THIS SPEECH SYNTHESIZER
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NEGATIVE-RESISTANCE ANALYSIS AIDS ACTIVE CIRCUIT DESIGN (PART 2)
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BUILD AN ELECTRONIC VOLTAGE REGULATOR FOR YOUR CAR
BUILD A DIGITAL BICYCLE-SPEEDOMETER
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SWITCH OR LATCH LARGE DC CURRENTS WITH A SIMPLE TWO-TRANSISTOR CIRCUIT [2/DC.]

VOLTAGE-REGULATOR CIRCUIT
PULSED LOW-POWER SOURCE ENERGIZES SOLENOIDS AND RELAYS
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S-METER AND HEADPHONE JACK
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HOW TO USE DIGITAL PANEL METERS (PART 2) [DPM.]
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HIGH-PERFORMANCE DIGITAL PHASE COMPARATOR, A
LIGHT-OPERATED SOLID STATE SWITCH FOR PULSED MICROWAVE POWER GENERATOR
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TWO-STEP A-D CHIP PUTS OUT 11 BITS IN HALF A MICROSECOND [2/0.5US]
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NEW NEGATIVE FEEDBACK AMPLIFIER, A DESIGN USES A NON-SYMMETRICAL POWER DIVIDER [AMP.]
MICROPROCESSOR-BASED TWO-CHANNEL THROMBOELASTOGRAPH, A [UP./2]
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PIEZODRIVEN SPINDLE FOR A SPECIMEN HOLDER IN THE VACUUM CHAMBER OF A SCANNING ELECTRON MICRO
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LTPS AND ACTIVE DOUBLE BALANCED MIXERS [DBM.]
VERY VERSATILE CODE ALARM, THE
DESIGNING THE CMOS NSC800 ONTO THE STD BUS [CMOS.]
POWER DRIVERS LINK BRAINS TO BRAWN
GAAS FETS FORMIDABLE IN 35-GHZ CIRCUITS [GAASFET./35GHZ]
BIAS SUPPLY IS TEMPERATURE COMPENSATED
JFET-INPUT 1-CHIP OPERATIONAL AMPLIFIERS COMBINE PRECISION WITH HIGH SPEED [JFET./OA.]
THERMOCOUPLE CONDITIONER DRAWS UA
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HIGH-SIDE ALTERNATIVES SUGGESTED (LLL)
VELA IN PLACE OF TICKER TAPE
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EXPLOIT Z80'S HIDDEN LOGARITHMIC MODE
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PARALLEL POWER MOS FETS INCREASE CIRCUIT CURRENT CAPACITY [MOSFET.]
DESIGN LINEAR CIRCUITS FOR 5V OPERATION
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ASTUTE DESIGNS IMPROVE EFFICIENCIES OF LINEAR REGULATORS
GET +5 V/+3.6 V FROM 4 AA CELLS [5V/3.6V]

LEVEL-SWITCHING DEVICE ALLOWS TTL AND CMOS TO TALK [TTL./CMOS.]
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ONE-ARM BANDIT CIRCUIT PLUS A NEW PACKAGING SYSTEM FOR YOUR PROJECTS. [1]
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SEND ERROR-FREE CODE WITH ONE HAND [1]
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INSULATED-GATE TRANSISTORS SIMPLIFY AC-MOTOR SPEED CONTROL [AC.]
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75-HZ WIDE AUDIO FILTER [75HZ]
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COMMENTS ON "TWO-AMPLIFIER ACTIVE-RC BIQUADS WITH MINIMIZED DEPENDENCE ON OP-AMP PARAMETERS
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NEW SWITCHED-CAPACITOR-FILTER IC FROM MOTOROLA
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ETHERNET CONTROLLER ADDS COMMUNICATIONS TO SCSI BUS [SCSI.]
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IC COMPARATORS - AT HOME IN NEARLY ANY CIRCUIT
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ADJUSTABLE SCHMITT TRIGGER YIELDS POSITIVE OR NEGATIVE HYSTERESIS
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WEIN BRIDGE OSCILLATOR, THE
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SQUAREWAVE GENERATOR CIRCUITS
HOW TO DESIGN MICROPROCESSOR-BASED PROJECTS [UP.]
BOOST INSTRUMENT-AMP CMR WITH COMMON-MODE-DRIVEN SUPPLIES [AMP./CMR.]
CURRENT-FEEDBACK AMPS ENHANCE ACTIVE-FILTER SPEED AND PERFORMANCE [AMP.]
CLASS E DC/DC CONVERTERS WITH AN INDUCTIVE IMPEDANCE INVERTER [DC.]
LAB FREQUENCY STANDARD DISTRIBUTION SYSTEM, A
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OPTIMIZE SWITCHED-CAPACITOR FILTER DESIGN
THREE SEPARATION-INSENSITIVE RADIOFREQUENCY INDUCTIVE LINKS [3/RF.]
ADJUST BANDPASS FILTERS DIGITALLY
CB SCENE 27 MHZ COMMUNICATIONS ACTIVITIES [CB./27MHZ]
HV CROWBAR SWITCHES 2.4 MW [HV./2.4MW]
50-240HZ INVERTER WITH PRECISION SNUBBER
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FIBER OPTICS JOINS ADVANCED MICROCONTROLLER IN DISTRIBUTED WORKSTATION ARCHITECTURE
MICROCOMPUTER-BASED SYSTEM FOR AUTOMATICALLY COUNTING AND WEIGHING PRE-SORTED APPLES, A
CACHE-CONTROL CHIP SETS GIVE SYSTEMS MANY OPTIONS
STEPPING A D.C. MOTOR [DC.]
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BUILD THE CIRCUIT CELLAR MPX-16 COMPUTER SYSTEM (PART 1)
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UNIVERSAL LOGIC TESTER
BUILD THE MAILBOX SENTRY LED AND TONE INDICATORS ANNOUNCE MAIL ARRIVAL AT REMOTE LOCATION. [LE
FAMILY OF CALCULATOR CLOCKS, A
TIMESAVING METHOD FOR SEGMENTED PRESSURE MEASUREMENTS
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MINI-PLAYER PIANO
SONIC PATHFINDER A PROGRAMMABLE GUIDANCE AID FOR THE BLIND
ANOTHER WAY OF DOING IT (LLL)
POOL-PUMP TIMER
ARRL CONVENTION
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DESIGN OF A CCITT V.22 MODEM [CCITT.]
OPTICALLY COUPLED STIMULUS ISOLATION HEADSTAGE
VACUUM-OPERATED DIGITAL WAVELENGTH METER
INDUCTIVE KICK GATES SCR MOTOR CROWBAR [SCR.]
LOGIC-GATE FUNDAMENTALS
UNIVERSAL KEYBOARD EMULATOR FOR DISABLED COMPUTER USERS, A
CONTINUOUS FLUOROPHOTOMETRIC METHOD OF MEASURING TEAR TURNOVER RATE IN HUMANS AND ANALYS
CMOS SWITCH MULTIPLIES RESISTANCE [CMOS.]
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C-8 78 PROJECT (LLL)
PREAMP FOR VINTAGE 78S, A [AMP.]
BUILD YOUR OWN VERSATILE RTTY CONVERTER [RTTY.]
UNIVERSAL EPROM PROGRAMMER UPDATE [EPROM.]
LSI TRANSCEIVER CHIPS COMPLETE GPIB INTERFACE [LSI./GPIB.]
SIMULTANEOUS MEASUREMENT OF CHANGES IN CURRENT AND TRACER FLUX IN VOLTAGE-CLAMPED SQUID GI
CONTINGENCY TRANSCUTANEOUS STIMULATOR FOR PATIENTS WITH UNILATERAL TACTILE AND PROPRIOCEPT
CLOSED-CYCLE CRYOGENIC PUMP SUITABLE FOR SOUNDING ROCKETS USE
VERNIER DELAY UNIT, THE
PORTABLE CHIPS
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PTC'S RELIABILITY OPENS DOORS FOR APPLICATIONS IN COMMUNICATION EQUIPMENT [PTC.]
TRIP FOR POWER SWITCHES
SINGLE-CHIP ULAW/A-LAW CODEC INCORPORATE ONBOARD FILTERS, VOLTAGE REFERENCE
PROBE DRIVES LOW-IMPEDANCE INPUTS
RAPID-RESPONSE RECORDING SYSTEM FOR ELECTROTHERMAL ATOMIC ABSORPTION SPECTROPHOTOMETRY,
PERIODIC PRECISION PULSER WITH A GAUSSIAN NOISE GENERATOR
TESTING AND SELECTING SURGE SUPPRESSORS FOR LOW-VOLTAGE AC CIRCUITS [LV./AC.]
CB TO CW? - CONVERTING THE HY-GAIN BOARD [CB./CW.]
TI'S DUAL DSPS HAVE VARIABLE DELAY WAIT STATES [DSP.]
OP-AMP MUTUAL INDUCTANCE BRIDGE [OA.]
768K SOLUTION, THE
ZX81 TAPE CONTROLLER
2N:1 DIVIDER FOR RF-FREQUENCIES [RF.]
WHAT YOU SEE IS WHERE YOU'RE AT (PART 2)
UNDERSTANDING THE HIGH SPEED DIGITAL LOGIC SIGNAL
REDUNDANCY INCREASES MICROPROCESSOR RELIABILITY [UP.]
DIGITAL FUNDAMENTALS LESSON 4: UNDERSTANDING AND USING FLIP-FLOPS [FF.]
LOGIC CIRCUIT FOR PHASING THE TELEFAX, A
LIGHT-OPERATED MILLISECOND TIMERS
MAGNETIC LEVITATION WITH THYRISTOR CONTROL
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TRI-STATE LED DEMONSTRATOR [LED.]
PRINCIPLES OF AUTOMATIC ALIGNMENT AND CALIBRATION USING EMBEDDED MICROCOMPUTERS
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GLITCH FINDER
FLIP-FLOPS AND DECADE COUNTERS (PART 1) [FF.]
GLITCHLESS TTL ARBITER SELECTS FIRST OF TWO INPUTS [TTL./1ST/2]
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NOISE DISCRIMINATION METHOD FOR PULSE COUNTING APPLICATIONS
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GLITCH-STRETCHER PROBE RESOLVES 'INVISIBLE' PULSES
TRIGA BOARD FOR A FAST MUON TRIGGER FOR E771, THE
PRINTER-MINDER
MAKE POLYSTABLE MEMORY ELEMENTS
ALL ABOUT LOGIC ANALYZERS
PLL GENERATOR PRODUCING EQUIDISTANT PULSES WITH LARGE-RANGE PHASE SHIFT, A [PLL.]
SELF-ADJUSTABLE PRE-EVENT PULSE GENERATOR FOR SHOCK WAVE EXPERIMENTS
WELDING WITH HIGH-FREQUENCY SQUARE-WAVE AC ARCS [HF./AC.]
COMPUTERIZED SPECTROFLUOROMETRIC TITRATOR
TIME-RESOLVED MEASUREMENT USING COMMERCIAL MODULAR BOXCAR INTEGRATORS
SIMPLEST DRIVER YET FOR STEPPER MOTORS (LLL)
SYNCHRONOUS SWITCH MUTES LINE NOISE
CONVERT 5 V INPUT INTO 12 V AT 12 MA [5V/12V/12MA]
TWO MINIMUM COMPONENT WIEN-BRIDGE OSCILLATORS USING CURRENT-CONVEYORS [2]
APPLICATION NOTE: MICROCOMPUTER-CONTROLLED GRAVIMETRIC DATA ACQUISITION SYSTEM [DAS.]

Sheet1

IMPROVED COAXIAL CALORIMETRIC R.F. POWER METER FOR USE AS A PRIMARY STANDARD [RF.]
VARIABLE-LENGTH SHIFT REGISTER
UART, THE [UART.]
VERSATILE ALARM CIRCUIT A SIMPLE BUT COMPREHENSIVE HOME BURGLAR ALARM.
CIRCUIT FOR A DIGITAL PULSE PROGRAMMER
DESIGN SHOW MOVES FROM THE PROVINCES
TEST FIXTURE NOISE (PART 2) PINPOINTING AND CURING COMMON ERRORS
DESIGN OF VOLTAGE-CONTROLLED LINEAR TRANSCONDUCTANCE ELEMENTS WITH A MATCHED PAIR OF FET TR
INSTRUMENTS FOR SAMPLING AND MEASURING THE VOLUME OUTPUT OF URINE FROM GRAZING FEMALE SHEE
AUTOMATIC GAIN CONTROL HAS 60-DECIBEL RANGE [AGC./60DB]
POWER OP AMPS FAN OUT, COVERING A WIDE SPECTRUM OF JOBS AND SPECIFICATIONS [OA.]
KEYER ON A SHOESTRING
16-LINE P.A.B.X. WITH OPTIONS
TRANSMITTER TEST KEYER
DUAL-WAVELENGTH OPTOELECTRONIC SYSTEM FOR INTENSITY-MODULATED FIBRE-OPTICAL SENSORS, A
MECHANICAL IMPULSE SYSTEM FOR MYOTATIC REFLEX INVESTIGATION
RADIO SYSTEM INTEGRATOR, THE
PRECISION INTERFEROMETRIC DILATOMETER
UNIVERSAL TRI-STATE TONE GENERATOR
BLINKING LICENSE-PLATE HOLDER
BUILD THE PRINTER SENTRY
BUILD A GEIGER COUNTER
NOISE REMOVER, THE A SIMPLE, EFFECTIVE WAY TO GET RID OF THE STATIC.
UNKEMO, THE (UNIVERSAL KEYER MODULE)
WEL'S THINK TANK
SOMETHING DIFFERENT IN SOUND
SIMPLE TRIGGERABLE SPARK GAP SWITCH FOR NITROGEN LASERS, A
SINGLE POTENTIOMETER CONTROLS TRIANGULAR-PULSE GENERATOR
CMOS 555 APPLICATIONS [CMOS.]
PROGRAMMABLE PHASOR PROPERTY GUARD
IMPROVING THE TNC CONNECT ALARM (LLL) [TNC.]
PORTABLE OPERATION
DESIGN FOR FABRICATION OF A D.C. CHOPPER FOR ENERGY CONSERVATION IN D.C. DRIVES [DC.]
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HIGH-SPEED GENERATOR PULSES ECL LOADS [ECL.]
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TRIGGER PULSE GENERATOR
BUILD A TELEPHONE INTERCOM
VOLTAGE-PULSE CONVERTER NEEDS NO SUPPLY REGULATION
PULSE GROUP GENERATOR
MULTIPLE OUTPUT PORT
MULTIPLIER CIRCUITS KEEP PHASE CLEAN
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DETECTOR FOR SMALL AMPLITUDE RF SIGNALS [RF.]
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ONE LED SHOWS SIX MODES [1/LED./6]
REFILLING TONER CARTRIDGES, AND MORE!
SIGNAL PROCESSOR HAS 15-MHZ BANDWIDTH [15MHZ/BW.]
HIGH-PERFORMANCE DIGITAL TIMING SYSTEM
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SPIN SPECTROMETER, THE: DESIGN, INSTRUMENTATION AND RESPONSE CHARACTERISTICS OF A 4PI GAMMA-R
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25W SWITCHING REGULATOR COSTS <\$10
4 ADD-ON PHONE DEVICES
REAL-TIME SIGNAL TEST FOR CAPACITOR QUALITY, A
DUAL-SPEED DC MOTOR CONTROLLER [DC.]
SMALL 240VAC SELF-OSCILLATING INVERTER [AC.]
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ADVANCED DMA CONTROLLER FOR 16-BIT MICROCOMPUTER SYSTEMS [DMA.]

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CIRCUIT IDEAS ULTRASONIC RANGEFINDING

TO BUILD OR TO BUY?

AT&M'S V23/RS-232 'RADIO MODEM' KIT

IT'S EASIER TO KEEP UP THAN CATCH UP

IT'S FOR YOU!

TU-300, THE - MODIFIED [MOD.]

40-MHZ FREQUENCY COUNTER, A [40MHZ]

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MC68332 MICROCONTROLLER, THE

MC68030/MC68EC030 32 BIT HIGH PERFORMANCE SYSTEM, AN

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THERMAL CYCLING FOR PIEZOELECTRIC GAS DETECTOR SYSTEMS
FLIP-FLOPS ARBITRATE SHARED RESOURCE [FF.]
BUILD A DTMF FIELD TELEPHONE [DTMF.]
BUILD A TOUCH TONE DECODER FOR REMOTE CONTROL
MULTIPROCESSING PLACES DEMANDS ON THE VME/VERSABUS
MULTIWIRE PROPORTIONAL CHAMBER FOR EXTENSIVE AIR SHOWER EXPERIMENTS, THE [MWPC.]
TIME-ENCODING SYSTEM FORMATS CASSETTE TAPES
TEMPERATURE-SENSITIVE CARDIAC PACEMAKER, A
TEMPO MARSER
REMOTE BASE CONTROLLER FOR THE ICOM 2AT, A
REMOTE FIELD STRENGTH METER, A AN ACCURATE SYSTEM FOR MEASURING RADIATED POWER.
SIMPLE AND EFFICIENT PULSED-HEATING ATOMIC BEAM SOURCE FOR RESONANCE IONIZATION SPECTROSCOPY
MONOLITHIC MICROWAVE INTEGRATED CIRCUITS (PART 1) [MMIC.]
SHORT-TERM FREQUENCY STABILITY OF RELAXATION CRYSTAL OSCILLATORS
TAPE RECORDER CHIP, A
THROW YOUR VOICE
MOSFET PAIRS SIMPLIFY AUDIO-AMPLIFIER DESIGN [MOSFET./AMP.]
INTERFACING FUNDAMENTALS: MULTIPLEXED LED DISPLAYS (PART 1) [MUX./LED.]
5-UP MODIFICATION FOR CONVERTED CBS [MOD./CB.]
LOW NOISE FAST BIPOLAR TRANSISTORS FOR DETECTOR PREAMPLIFIERS [AMP.]
19 GHZ FET AMPLIFIER, A [19GHZ/FET./AMP.]
DC/DC CONVERTERS (PART 2) PROPER INSTRUMENTATION EASES LOW-POWER DC/DC-CONVERTER DESIGN [DC/DC]
CHALLENGE OF LOW POWER, THE
SSB: THIRD METHOD, FOURTH EXPLANATION [SSB./3RD/4TH]
MODIFICATION OF WILEY-MCLAREN TOF ANALYZERS FOR LASER DESORPTION [MOD./TOF.]
PEERLESS POWER PACK, THE
THERMAL CHARGING CIRCUITS SAFELY BOOST NICD BATTERIES [NICD.]
REGISTER FILE CHIP MINIMIZES SUPPORT HARDWARE FOR GRAPHICS MEMORIES
BUILD ULTRA-LOW DROPOUT REGULATOR
TAKE ADVANTAGE OF THERMAL EFFECTS TO SOLVE CIRCUIT-DESIGN PROBLEMS
MULTIPLE-CORE CABLE TESTER
80M RADIO TRANSMITTER USES POWER MOSFETS [MOSFET.]
COMPUTER SIMULATION OF A HIGH-FREQUENCY ZERO-CURRENT SWITCHING QUASI-RESONANT FLYBACK CONVERTER
DYNAMIC MODEL OF THE SYNCHRONOUS GENERATOR EXCITATION CONTROL SYSTEM, A
CHOPPER-STABILIZED MONOLITHIC OP AMP SUITS DIVERSE USES [OA.]
WHO NEEDS ELECTRONIC CIRCUIT ANALYSIS?
EXPLORING ELECTRONICS (PART 8) USING A THERMISTOR AS A FROST ALARM
FAST POWER FET SWITCH TESTS RECTIFIER PERFORMANCE [FET.]
AUTO LIGHT REMINDER
ULTIMATE TONE DECODER, THE
FLUORESCENCE LIFETIME DISTRIBUTION MEASUREMENT SYSTEM BASED ON PHASE-RESOLVED DETECTION USING
TOUCH-TONE SQUELCH REMOTE SPEAKER CONTROL WITH A DTMF DECODER. [DTMF.]

Sheet1

SIMPLE WIDE-RANGE CURRENT LIMITING CIRCUIT
0 DEGREE C BATH FOR THE REFERENCE JUNCTIONS OF THERMOCOUPLES BY USING A SOLID-STATE HEAT PUMP
PUTTING THE TELEPHONE IN CONTROL
VHF OSCILLATORS USING MICROWAVE INTEGRATED CIRCUITS [VHF./MIC.]
'LITE RECEIVER IV (PART 1) BUILDING IT IS A BREEZE [4]
ON YOUR MARK: A PRECISION FREQUENCY STANDARD
SHAFT ENCODER POWERS TACHOMETER
CHIPS ISOLATE HOST PROCESSORS FROM THE POWER THEY CONTROL
HAM RADIO TECHNIQUES
SIMPLE, SENSITIVE AND VERSATILE SOLID-STATE PRESSURE TRANSDUCER, A
MORE GOLDEN OLDIES!
LET A BIPOLAR PROCESSOR DO YOUR CONTROL AND TAKE ADVANTAGE OF ITS HIGH SPEED
BICYCLE LIGHTING
BUILD A SYNERGY CARD FOR YOUR PC (PART 2) THIS MONTH LET'S BUILD THE SYNERGY CARD. [PC.]
COLOR SSTV FOR THE ATARI ST (PART 2) CHEAPSKATE'S WAY INTO THE FASCINATING WORLD OF SSTV. [TV.]
COMPUTER-CONTROLLED TANK, A
COMPUSOUND PROGRAMMABLE SOUND GENERATOR
SIMPLE, FAST RISE TIME, HIGH REPETITION RATE POCKELS CELL DRIVER
CONSTRUCTION OF A COMPACT ADJUSTABLE WAVEFORM SPARK SOURCE
CB-TO-SW DOWN CONVERTER [CB./SW.]
8088 PROCESSOR FOR THE S-100 BUS, AN (PART 1)
GRAPHICS CONTROLLER CHIP DOES WINDOWS, PLUS A WHOLE LOT MORE
S-ARTNET - A POWERFUL CONTROLLER NETWORK (PART 1) DESIGNING A LOW-COST NETWORK AROUND THE S
FIBER OPTICS DRIVEN BY GAAS [GAAS.]
MICROCOMPUTER-BASED MYOCARDIAL CONTRACTILITY MEASURING SYSTEM
GICS YIELD EFFICIENT BANDPASS FILTER
MODIFIED FUNCTION GENERATOR YIELDS LINEAR VCO [MOD./VCO.]
PRECISION SPEED CONTROL FOR THE BILLBOARD KEYS
USE OF CONTACT RESISTANCE MEASUREMENTS TO STUDY OXIDE FILMS DEVELOPED DURING HIGH-TEMPERATURE
(RE-)STARTING C
DYE-BASED SOLAR ENERGY, NEO-GEO INTERFACE CABLES, ANOTHER SAD PATENT STORY, MICRO-AVIONICS NETWORK
GAERTNER-BORBELY LINE-LEVEL PREAMP, THE (PART 2) [AMP.]
DIGITAL DICE
HIGH SENSITIVITY PHOTOACOUSTIC SPECTROMETER FOR VARIABLE TEMPERATURE SOLUTION STUDIES
BUILD THE BASIC-52 COMPUTER/CONTROLLER
BUILDING A DEW POINT HYGROMETER
BUILD GENERAL-PURPOSE MEMORY USING 1M-BIT BUBBLE CHIPS
ARITHMETIC ORIENTED MULTIPROCESSOR SYSTEM FOR INDUSTRIAL MEASUREMENTS, AN
CHIPS MAKE FAST MATH A SNAP FOR MICROPROCESSORS [UP.]
TELEPHONE REMOTE/CONTROL SYSTEM
MULTISTOP TIME-TO-DIGITAL CONVERTER, A [TDC.]
MULTIPLE-LINE TELEPHONE INDICATOR
SIMPLE DIRECT COUPLED LINEAR GATE
4-MEGABYTE PRINTER BUFFER [4MBYTE]
MANCHESTER-CODE IC HANDLES NETWORK'S PHYSICAL LINK
CONVERTER TUNES 4 TO 18 MHZ WITH NO BANDSWITCH [18MHZ]
XENON BEACON
RANDOM NUMBERS
BINARY SWITCH ENCODER

SINGLE-CYCLE SINEWAVE/BURST GENERATOR
CONTENT ADDRESSABLE MEMORY FOR DATA COMMUNICATIONS, A
ION MOBILITY SCANNING ION CHAMBER
THOSE VERSATILE MULTIS
COPPERHEAD KEYS PADDLE, THE PERFECT TOUCH!
MORE GENERATOR CIRCUITS
AIRBORNE INSTRUMENTATION COMPUTER SYSTEM
FAST SYNCHRONOUS GRAY COUNTER
DESIGNING MICROCONTROLLER CIRCUITS (PART 1) CORE CIRCUITS
PUTTING DIGITAL DEVICES INTO THE "TWILIGHT ZONE"
OPTICAL DATA COMMUNICATIONS AN EXPERIMENTAL INFRARED JOYSTICK INTERFACE A NEW CLASS OF SEMI
AUTOMOTIVE TIMER
EXTENDING MICROPROCESSOR EMULATORS [UP.]
BATTERY SAVING CIRCUIT FOR CHILDREN'S PROSTHESES
NETWORK INTERFACE MAKES EFFICIENT USE OF BUS BANDWIDTH [BW.]
INTERFACING TO ETHERNET USING VLSI PROTOCOL CHIPS [VLSI.]
MATHEMATICS PLOT MEMORY NEEDS FOR 16-BIT MICROS
INTERFACING A HONEYWELL LEVEL 62 HOST COMPUTER TO AN E.I.N. COMMUNICATIONS SUBNETWORK WITH A
AUTOMATIC GENERATORS FOR VGA SYNC
MODIFYING THE DYNACO ST-70 WITH TRIODE MODE INPUT STAGE [MOD.]
ELECTRONIC NOVELTY LIGHT
ELECTROSTIMULATION OF ERECTION AND EJACULATION AND COLLECTION OF SEMEN IN SPINAL CORD INJURED
INFLUENCE OF RESISTANCE-TEMPERATURE MODELS OF THERMISTORS ON THE BEHAVIOUR OF LINEARIZING CI
UNIVERSAL SYNTHESIZER, THE
VOLTAGE-TO-FREQUENCY CONVERTERS [VFC.]
SIMPLE GATING SYSTEM FOR THE HAMAMATSU R1250 PHOTOMULTIPLIER, A
LINEAR OPTOCOUPLER CIRCUIT FOR INSTRUMENTATION
CONSTRUCTION OF SINGLE-BEAM MICROSPECTROPHOTOMETER FOR RECORDING ABSORPTION SPECTRA AND
CAPACITANCE SENSING DROP COUNTER
CARBON PLASMA GUN
AUTOMATED PRESSURE PROBE FOR MEASUREMENT OF WATER TRANSPORT PROPERTIES OF HIGHER PLANT C
FOUR BIT ANALOGUE-TO-DIGITAL CONVERTER [4/ADC.]
HOW TO BUILD A HOMEBREW 813 AMPLIFIER [AMP.]
YEAR AFTER YEAR: EDN'S 30TH ANNIVERSARY
10A DC CONTROLLER [DC.]
TRANSPORT SYSTEM FOR 9 X 12 IN. SUBSTRATES IN A LABORATORY VACUUM DEPOSITION SYSTEM [9X12IN]
MICROPROCESSOR CONTROLLED SPECTROMETER FOR FREQUENCY MODULATION MOSSBAUER MEASUREMENT
MICROPROCESSOR-BASED CONTROLLERS FOR SINGLE AND MULTIPLE BATCH DIGESTERS FOR PULPING [UP.]
MICROPROCESSOR-CONTROLLED PHOTODIODE ARRAY FOR MEASUREMENT OF DIFFRACTION PATTERNS [UP.]
OLD 16K DRAM CONTROLLER HANDLES 64KBIT [DRAM.]
STEPPER MOTOR-DRIVEN MICROELECTRODE POSITIONER, A
BUILD A MINIATURE DIGITAL STOPWATCH
UTILIZATION OF THE HIGH CURRENT CAPABILITY OF THE DEMOKRITOS TANDEM
BUILD A 1930'S STYLE RADIO TRANSMITTER
SINGLE CHIP OVEN TEMPERATURE CONTROLLER
GENERAL-PURPOSE MICROPROCESSOR-BASED CONTROL CIRCUIT FOR A THREE-PHASE CONTROLLED RECTIFI
GENERAL-PURPOSE I/O BOARD: MAKE THE CONNECTION [IO.]
RANDOM PULSER BASED ON PHOTON COUNTING
EXPERIMENTAL NETWORKING OF MICROCOMPUTERS AND A MINICOMPUTER

THREE BUS INTERFACE DESIGNS FOR THE PC [3/PC.]
CARE AND FEEDING OF OPTOELECTRONICS, THE
DESIGN A GRAPHICS BOARD FOR AN IBM PERSONAL COMPUTER [PC.]
DATA ACQUISITION SYSTEM TO MONITOR A POTATO DIGGER, A [DAS.]
LI-GLASS SCINTILLATION DETECTOR FOR THERMAL-NEUTRON TOF MEASUREMENTS, A [TOF.]
FREQUENCY SHIFT DIELECTRIC SOIL MOISTURE SENSOR, A
DYE LASER SPECTROMETER FOR ULTRAHIGH SPECTRAL RESOLUTION: DESIGN AND PERFORMANCE
HIGH-SPEED PROGRAMMABLE DETECTOR SYSTEM FOR PLASMA SPECTROSCOPY
LINEAR CAPACITIVE DISPLACEMENT SENSOR WITH FREQUENCY READOUT
WATER-WAVE HEIGHT PROBE WITH CALIBRATION STABILISED FOR CHANGES IN WATER CONDUCTIVITY, A
NOVEL DESIGN OF A SIMPLE AND ACCURATE WHITE GAUSSIAN NOISE GENERATOR
IC REPLACES MECHANICAL-INTERLOCK SWITCHES
AC MOTOR CONTROL [AC.]
IF I HAD TO DO IT ALL OVER AGAIN
NO-FRILLS MODEM
ZX-81 PARALLEL PRINTER INTERFACE
PC-CONTROLLED LIGHT SHOW, A [PC.]
S5/8 - THE TECHNICAL DETAILS
1200-BIT/S MANCHESTER/PSK ENCODER CIRCUIT FOR TAPR TNC UNITS, A [PSK./TNC.]
ADAPTING FOR DOUBLE-SIDED DRIVES
CHARACTERISTICS OF THE TWIN-WIRE RESISTANCE-PROBE WATER MANOMETER
QUARTZ CRYSTALS AND APERIODIC OSCILLATORS IN RF SYSTEMS (PART 1) SPECIFYING CRYSTAL PARAMETER
MEASUREMENTS OF VOLUME FLOW THROUGH MICROPOROUS MEMBRANES BY AN AUTOMATED FLUXIMETER
DUAL MICROCOMPUTER-CONTROLLED STOPPED-FLOW SPECTROMETER
ACCIDENTAL RESET PROTECTION FOR THE APPLE II [2]
CYCLOCONVERTER FREQUENCY CHANGER FOR INDUCTION HEATING, A
VIDEO TITLER (PART 2)
MODEL SPEED CONTROL
MODIFIED FLOW-THROUGH COLORIMETER FOR DETERMINATION OF PICOMOLE QUANTITIES OF CALCIUM, MAGN
ONE-CHIP SLOPE-DELTA MODEM IS GOOD FOR LOW-FREQUENCY JOBS [1/LF.]
PRECISE TEMPERATURE CONTROLLER FOR RESISTANCE THERMOMETERS
ELECTROHYDRODYNAMIC MASS SPECTROMETRY [MS.]
STEPPING MOTOR TECHNOLOGY FOR UNDERGRADUATES
R-E ROBOT (PART 13) ADDING SOME "SENSE" TO THE ROBOT
STEPPER MOTOR DRIVE CIRCUIT
REFRESHING DYNAMIC RAMS [DRAM.]
EFFECTS OF CURRENT- AND VOLTAGE-REGULATED SUPPLIES ON TEMPERATURE VARIATION OF GRAPHITE AT
HIGH-SPEED MULTICHANNEL PHOTON COUNTER FOR TIME-RESOLVED LASER SPECTROSCOPY
DIGITAL FRAMESTORE
HIGH VOLTAGE CAPACITOR CHARGE CONTROL BY LOW VOLTAGE CYCLE COUNTING [HV./LV.]
HIGH-PRECISION PORTABLE INSTRUMENT TO MEASURE POSITION ANGLES OF A VIDEO CAMERA FOR BIRD FLIGH
HIGH PERFORMANCE CURRENT PROCESSING ALLPASS FILTERS
DIGITAL ANGLE DETERMINER
DIGITAL FUNCTION GENERATOR (PART 2)
BUILD THE "LIGHT GENIE"
FLIP-FLOPS AND LATCH CIRCUITS PRACTICAL FLIP-FLOP AND LATCH CIRCUITS TO BUILD, TEST, AND USE. [FF.]
UNIVERSAL COMPUTER INTERFACE FOR THE CARY 118C SPECTROPHOTOMETER
BUILD A JOYSTICK ADAPTER
MAKING SINEWAVE OSCILLATORS

Sheet1

MULTIFREQUENCY CIRCUIT USES FIXED CLOCKING RATE
MULTICHANNEL RANDOM PULSE COUNTER, A
CALCULATOR POWER SUPPLY [PS.]
VOLTAGE CONTROLLED OSCILLATOR WITH SINE-WAVE OUTPUT [VCO.]
MULTIWIRE LINEAR DETECTOR FOR X-RAY TIME-RESOLVED MEASUREMENTS AT HIGH COUNTING RATES
WALSH FUNCTIONS: A DIGITAL FOURIER SERIES
SIMPLE MULTISTATE INDICATOR
COMPUTER-AIDED LOGIC DESIGN
TIMING BY REMOTE CONTROL
COMPUTER-INTERFACED EXPERIMENT TO MEASURE THE ELECTRICAL RESISTIVITY OF A SEMICONDUCTOR, A
TEMPERATURE STABILISATION OF LIGHT-EMITTING DIODE RADIATION [LED.]
CAMAC MODULE FOR HIGH-SPEED SYNCHRONOUS TRANSFER OF 32-BIT BINARY DATA
SIMPLE LABORATORY COMPUTER INTERFACE SYSTEM
COMPUTERIZED RESEARCH MICRODENSITOMETER FOR SPECTROGRAPHIC DATA ANALYSIS, A
SYMMETRIC CHAOS IN SYSTEMS OF THREE AND FOUR FORCED OSCILLATORS [3/4]
COMPACT INFRASOUND AND PRESSURE WAVEFORM GENERATOR FOR USE WITH SMALL CAVITIES, A
REMOVING DROSS FROM MOLTEN SOLDER AN AUTOMATIC DEVICE HELPS TO ASSURE GOOD SOLDER CONNEC
SIMPLE SEISMOMETER, A
REMOTE CONTROLLER SETS UNIVERSAL MOTOR'S SPEED
CONTRAST METER FOR PHOTOGRAPHY BUFFS
SYNCHRONOUS ONE-SHOT HAS INTEGRAL PULSE WIDTH [1]
TEN-WATT SCALE FOR THE "COMPUTING SWR METER" (LLL) [10W/SWR.]
WINDOW GENERATOR INCREASES LOGIC ANALYZER'S CAPABILITY
RANDOM NUMBERS FROM AN ALL-DIGITAL GENERATOR
RANDOM NUMBER GENERATOR
TUNABLE NOTCH FILTER SUPPRESSES HUM
BINARY-BCD 7 SEGMENT CONVERTER [BCD.]
CONDUCTIMETRIC EXPERIMENT TO ASSAY THE HAEMOGLOBIN CONTENT OF BLOOD
MINICOMPUTER INTERFACE FOR MAGNETO-OPTIC SPATIAL LIGHT MODULATOR
DYNAMICALLY MAP THE 68008 UP'S MEMORY [UP.]
LINEAR SINUSOIDAL VCO [VCO.]
KING OF THE PULSE GENERATORS
CONTACT PRINTING OF CINE FILMS WITH AUTOMATIC EXPOSURE CONTROL
MANCHESTER II DATA ENCODER [2]
CONSTANT-CURRENT SUPPLY
CONSTRUCTION OF A FAST, INEXPENSIVE RAPID-SCANNING DIODE-ARRAY DETECTOR AND SPECTROMETER
CONTROL, MEASUREMENT AND DESIGN ASPECTS OF LOW-SPEED MAGNETICALLY SUSPENDED VEHICLES
SINGLE OP-AMP SINUSOIDAL OSCILLATORS SUITABLE FOR GENERATION OF VERY LOW FREQUENCIES [OA./VLF.]
LINEAR SENSE AMPLIFIER RAISES SENSITIVITY OF TOUCH KEYBOARD [AMP.]
MONITOR TESTER
CENTRONICS LINE BOOSTER
MINI-VOICE TRANSMITTER
PROM CONVERTS BINARY CODE TO DRIVE 1-1/2-DIGIT DISPLAY [PROM./1.5]
IMPROVEMENTS IN THE DESIGN OF TIME-DELAY CORRELATORS
EMPIRICAL CORRECTION FOR DEAD-TIME AND PULSE PILE-UP LOSSES IN GAMMA-RAY SPECTROMETRY, AN
APPLE II STEREO REMOTE CONTROL [2]
VERSATILE FEEDBACK CONTROLLER FOR ELECTRO-MECHANICAL STIMULATION DEVICES, A
HARDWARE SINGLE STEP UNDER BASIC CONTROL
HARDWARE RANDOM BYTE GENERATOR, A

THREE IDENTICAL OSCILLATORS WITH SYMMETRIC COUPLING [3]
MORE DERBYS
DESIGNING WITH DYNAMIC MEMORY
RESISTOR-CONTROLLED LC NETWORK DRIVES TUNABLE DISCRIMINATOR [LC.]
DESIGN OF A DIGITAL PSK MODULATOR [PSK.]
INSIDE INTEL'S 80386 THE 386'S BUSES, BUS TIMING, AND PERIPHERAL DEVICES.
FAST LANGMUIR PROBE SWEEPING CIRCUIT, A
DESIGN AND CONSTRUCTION OF A TIME MULTIPLEX MULTIPLE SLIT MULTIELEMENT FLAME ATOMIC ABSORPTION
DESIGN AND IMPLEMENTATION OF A HIGH-PERFORMANCE FIELD-ORIENTED INDUCTION MOTOR DRIVE
ACTIVE MICROWAVE DELAY LINE FOR REDUCING THE DEAD TIME IN ELECTRON-SPIN ECHO SPECTROMETRY
INTERFACING THE ZX81
EXTENDING THE RANGE OF THE LINEAR-SCALE OHMMETER
ULTRAVIOLET LIGHT-ARC CURRENT STABILISATION [UV.]
OPTICAL DETECTION SYSTEM FOR THE EVALUATION OF LASER WELDS
AUTOMATED HIGH RESOLUTION SPECTROMETER WITH DATA SYSTEM, AN
INTENSITY-MODULATED DISPLAY FOR SYNCHRONOUS TEST INTERPRETATION
AUTOMATIC CLARIFIER FOR S.S.B. SPEECH COMMUNICATION, AN [SSB.]
LOW-PASS FILTER HAS CONSTANT PHASE-SHIFT [LPF.]
HOW TO CHOOSE THE BEST TAPE FOR YOUR CASSETTE DECK
TOY STORE BEGINS AT HOME, THE
CO₂ LASER INTERFEROMETER FOR TEMPORALLY AND SPATIALLY RESOLVED ELECTRON DENSITY MEASUREMENT
IC SOUND GENERATOR
555 TIMER ISOLATES EQUIPMENT FROM EXCESSIVE LINE VOLTAGE
555 CIRCUITS
FLAT-TOP BAND-PASS FILTER
USE THYRISTOR TO CONTROL 555 TIMER
ELECTRICAL ENGINEERING UNDERGRADUATE DESIGN COURSE, AN
INEXPENSIVE ZONE REFINING APPARATUS, AN
ELECTRONICS CIRCUIT FOR A PULSED ADSORBED DOSE CALORIMETER, AN
INEXPENSIVE DEVICE FOR QUANTITATIVE CONDUCTIVITY EXPERIMENTS, AN
DIGITALLY CONTROLLED MONOSTABLE
HIGH-POWER CYCLOCONVERTER DRIVE FOR DOUBLE-FED INDUCTION MOTORS
BUILD AN AUDIBLE LOGIC PROBE
BUILD R-E'S TELEPHONE-LINE CONTROLLER
FAILSAFE LINE PROTECTION WITH POWER PRO
BUILD A BINARY CLOCK
POLYTONIC PERCUSSION SYNTHESIZER
DELUXE FUNCTION GENERATOR THIS SIMPLE PROJECT HAS MANY USES.
TIMER GENERATES TRAPEZOID FOR MUSICAL SYNTHESIZERS
COMPUTER CONTROLLED ABSORPTION SPECTROMETER FOR GAS PHASE SAMPLES
SOME RESULTS ON THE SENSITIVITY OF THE RCA 4522 PHOTOMULTIPLIER TUBE [PMT.]
FAMILY OF NEUROMUSCULAR STIMULATORS WITH OPTICAL TRANSCUTANEOUS CONTROL, A
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MINI DRUM SYNTH
TUNABLE AUDIO NOTCH FILTER CIRCUIT, A
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SYNCHRONOUS TIMING LOOP CONTROLS WINDSHIELD WIPER DELAY

LINE DRIVERS MADE FROM 555 TIMERS PROVIDE INVERTED OR NONINVERTED OUTPUTS
BINARY HI-LO GAME
SINUSOIDAL FREQUENCY DIVISION
JUNKBOX CIRCUITS THAT CAN MAKE LIFE A BIT EASIER
ION METER
MONITOR CIRCUIT DISCOURAGES SWITCH TAMPERING
MONITOR ACROSS ISOLATION BARRIERS
CURRENT SOURCE AND 555 TIMER MAKE LINEAR V-TO-F CONVERTER [VFC.]
LARGE DIGITAL SCOREBOARD
THREE-CHIP CIRCUIT PRODUCES LONGER ONE-SHOT DELAYS [3/1]
BURGLAR-ALARM CIRCUIT USES ONE CHIP [1]
MORE 558 AND ALARM CIRCUITS
POSITIVE PULSE TRIGGERS 555 INTEGRATED-CIRCUIT TIMER
ULTRASONIC SOUND POLAROID RANGEFINDER LM3905 AP NOTE LOWER SUPPLY VOLTAGES DEVICE DEVELOPMENT
AUTOMOBILE IGNITION SUBSTITUTE
SMT PROJECT: A BUSINESS-CARD TONE GENERATOR [SMT.]
PUTTING RC NETWORKS TO WORK [RC.]
INTERFACING 555 TIMERS
AUTOMATED CARBON ANALYZER FOR PARTICULATE SAMPLES
AUTOMATIC BLOWER FAN CONTROL FOR CARS
LOW-COST REGULATOR CONVERTS V^{+} TO -5V
567 TONE DECODER, THE
STEREO TV [TV.]
NEGATIVE FEEDBACK-CONTROLLED ELECTROMECHANICAL TRANSDUCER FOR OSCILLATION AND STRETCH OF PULSES
FUN WITH TESLA COILS
STORMY WEATHER - TO BE FOREWARNED IS TO BE FOREARMED
METHOD FOR ACCUMULATING HIGH-RESOLUTION OPTICAL SPECTRA BY REPETITIVE PHOTOELECTRIC SCANNING
QUARTZ CRYSTAL MICROBALANCE THIN-FILM DISSOLUTION RATE MONITOR
LABORATORY EXPERIMENT INTRODUCING FAULT DIAGNOSIS IN ANALOGUE AND DIGITAL CIRCUITS, A
MICROCONTROLLER EPROM PROGRAMMING [EPROM.]
REDEFINING REMOTE CONTROL NOW YOU SEE 'EM - BEEP - NOW YOU DON'T
CHECKING THERMAL RESISTANCE OF PACKAGED SEMICONDUCTORS
USE OF EPROM MEMORIES WITH A CONVENTIONAL TIDE-WELL GAUGE TO RECORD SHORT PERIOD SEICHES, THE
CHERENKOV RING IMAGING DETECTOR FRONT-END ELECTRONICS
COMPACT LOW-VOLTAGE IONIZATION CHAMBER FOR MONITORING POSITRON- AND PHOTON-EMITTERS IN FLOW
SINGLE-LED ANALOG METER COMPLETE LED CHANGES "COLOR" WITH INPUT VOLTAGE [LED.]
MINORITY-CARRIER LIFETIME MAPPING IN SILICON USING A MICROPROCESSOR-CONTROLLED FLYING-SPOT SCANNING
SINGLE PHASE INDUCTION MOTOR VOLTAGE CONTROLLER WITH IMPROVED PERFORMANCE, A
CONVERTING AN 8-TRACK TAPE PLAYER TO AN AUTOMATIC MESSAGE CENTER
PHOTOFLASH PROJECT
POOR HAM'S DYNAMIC COMPONENT ANALYZER BUILD YOUR OWN CIRCUIT DETECTIVE.
ZAP51: AN 87C51 PROGRAMMER
STRIP READOUT ELECTRONICS FOR THE MACRO EXPERIMENT
TESTS OF THE SGS D779 BASED READOUT ELECTRONICS FOR THE SLD LIMITED STREAMER TUBE STRIPS
STAGE LIGHTING SYSTEM (PART 2)
PLANTING GERANIUMS BY ROBOT
USE YOUR SCOPE AS A CAPACITANCE METER
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DIGITALLY CONTROLLED BANDPASS FILTER WITH MEMORY

QUICK AND EASY MEASUREMENT OF THE BAND GAP IN SEMICONDUCTORS
BUILD A PRINTER BUFFER
SWITCH-MODE ADVANTAGES WITHOUT THE SWITCHING
TEMPERATURE COMPENSATED CHARGER
MANAGE DESIGN TRADE-OFFS IN HIGH-END GRAPHICS BOARD
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MINI Z80 SYSTEM
CONSTANT CURRENT FROM A VOLTAGE REGULATOR
DESIGN AND ANALYSIS OF QUANTISED COEFFICIENT DIGITAL FILTERS: APPLICATION TO BIOMEDICAL SIGNAL PROCESSING
BUSES AND LANS (PART 2) 8-BIT BUSES [LAN.]
DATA ACQUISITION FROM A PARALLAX BAR VIA AN RS232C INTERFACE
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DIGITALLY CONTROLLED FILTER HOLD SETTINGS
TELTONE M-929, THE
KANTRONICS PACKET COMMUNICATOR, THE
APPLICATION OF A SIGNAL PROCESSOR IN PWM INVERTER CONTROL [PWM.]
IC TIMERS
AT LAST, IT'S EASY TO DESIGN RS-232-C MODEMS
ON SITE CONTINUOUS LIQUID-LIQUID EXTRACTION OF NONPOLAR ORGANIC COMPOUNDS IN WATER
1.2 GHZ FREQUENCY COUNTER [1.2GHZ]
TRANSITION RADIATION DETECTOR FOR ELECTRON IDENTIFICATION IN A HIGH ENERGY EXPERIMENT, A
CHAOS VIA A PIECEWISE-LINEAR SWITCHED-CAPACITOR CIRCUIT
TRANSMISSION MOSSBAUER POLARIZER
SCANNER CONVERTER
8-BIT MICROPROCESSOR AIMS AT CONTROL APPLICATIONS [UP.]
MICROCOMPUTER-BASED SYSTEM FOR MEASURING EXCITATION FUNCTIONS WITH GOOD ENERGY RESOLUTION
MODERN UPCONVERTING GENERAL-COVERAGE RECEIVER, A
RADIATION MONITOR UPDATE THE RADALERT AND YOUR PC: A GREAT COMBINATION! [PC.]
HADRON CALORIMETER FRONT-END ELECTRONICS FOR THE UPGRADED UA1 DETECTOR
ONE-CHIP SMOKE DETECTOR/ALARM [1]
ELECTROSTATIC VOLTMETER USES BIMOS OP AMP [BIMOS./OA.]
ELECTRICAL CONDUCTIVITY METER FOR FOOD SAMPLES
EVERYMAN'S AUDIO AMPLIFIER [AMP.]
BIFURCATION AND CHAOS OF THE SINUSOIDALLY-DRIVEN CHUA'S CIRCUIT
HIGHLY STABLE RANDOM PULSER
DIGITAL CONTROLLER FOR SPEED SYNCHRONIZATION OF NURSERY CAN HANDLER
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SPIN-CORRELATED POSITION MODULATIONS OF A POLARIZED PROTON BEAM
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HALL-PROBE ADAPTER CONVERTS DMM INTO GAUSSMETER [DMM.]
SIMPLE 80-METER RECEIVER, A [80M]
COMPENSATION OF LINEAR IC TEST LOOPS FOR TESTING OP AMPS AND COMPARATORS [OA.]

COMMUTATIVITY OF ELEMENTARY FUNCTIONS INVOLVING OPERATIONAL AMPLIFIERS [OA.]
COMPENSATE OP AMPS WITHOUT CAPACITORS [OA.]
LINEAR THERMISTOR-BASED TEMPERATURE-TO-FREQUENCY CONVERTER USING A DELAY NETWORK
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SINE-QUADRATURE OSCILLATOR FOR CELLULAR SPIN RESONANCE UP TO 120 MHZ [120MHZ]
SYNTHESIZED TELEVISION MODULATOR [TV.]
TANDEM MATCH, THE - AN ACCURATE DIRECTIONAL WATTMETER
CONTROLLER FOR THE PYE S8 AUTO-INJECTION SYSTEM, A
CONTROL SYSTEMS FOR SCANNING TUNNELING MICROSCOPES WITH TUBE SCANNERS [STM.]
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SINGLE-ELEMENT-CONTROLLED SINUSOIDAL OSCILLATOR EMPLOYING SINGLE CURRENT CONVEYOR IC
ECONOMICAL LONG-TIME-CONSTANT INTEGRATOR
TWO-DIMENSIONAL HIGH PRECISION THERMAL NEUTRON DETECTOR [2]
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TWO-METRE TRANSCEIVER [2M]
GROWING BIGGER CRYSTALS AUTOMATICALLY
APPLICATION OF FEEDBACK TECHNIQUES TO THE REALISATION OF HYBRID AND MONOLITHIC BROADBAND LOW
IMPROVING RECEIVER DYNAMIC RANGE WITH A SQUARE-WAVE LOCAL OSCILLATOR [LO.]
REPRODUCIBLE SHARP-POINTED TIP PREPARATION FOR FIELD ION MICROSCOPY BY CONTROLLED AC POLISHING
VARACTOR TUNED ULTRAHIGH FREQUENCY SQUID MAGNETOMETER [UHF./SQUID.]
NARROWBAND PLL WITH FAST ACQUISITION [PLL.]
ZERO-ERROR LOW-PASS FILTER [LPF.]
MOS OP AMPS FORM 'PINK NOISE' SOURCE [MOS./OA.]
FAST EXTRACTION OF POSITIVE-SEQUENCE CURRENT FROM HARMONICALLY CORRUPTED THREE-PHASE CURR
AUTOMATIC TRIGGERING OF NEUROSTIMULATION AS A FUNCTION OF SEVERAL E.E.G. PARAMETERS [EEG.]
DETERMINATION OF LEAD IN ROCKS AND GLASSES BY TEMPERATURE CONTROLLED GRAPHITE CUP ATOMIC AB
SOUND EFFECTS PROJECT
POWER SUPPLY CHIPS APPLY THEIR MANY TALENTS TO RUNNING 5-V SYSTEMS [PS./5V]
NEW MWPCS FOR THE MUNICH Q3D SPECTROGRAPH [MWPC.]
DUAL-PORT RAM CONNECTS MICROPROCESSORS [RAM./UP.]
BUILD YOURSELF A PARALYZED BEAM
UNIVERSAL SINE SQUARED SHAPED VIDEO SYNCs
BUILD THE WATER TAP
MULTIPLIER, OP AMP GENERATE SINE FOR PRODUCING VECTORS [OA.]
LOOK-UP TABLE ALLOWS EPROM MIX [EPROM.]
DESIGN METHOD YIELDS LOW-NOISE, WIDE-RANGE CRYSTAL OSCILLATORS
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AM-STEREO CHIP FROM MOTOROLA & POWER-SUPPLY SOLUTIONS, AN [AM./PS.]
\$50 LAB-GRADE FUNCTION GENERATOR
PLAYING ON THE RAILROAD WITH COMPU-THROTTLE
ANALYSIS OF A FORCE BALANCE ACCELEROMETER
MEASUREMENT OF THE LIGHT OUTPUT FUNCTION OF THE DEUTERATED LIQUID SCINTILLATOR NE-230 TO RECO
VIBRATION SUPPRESSION OF INDUCTION-MOTOR-DRIVEN HYBRID VEHICLE USING WHEEL TORQUE OBSERVER
MICROCOMPUTER-BASED INTELLIGENT SENSOR FOR MULTIAxis FORCE/TORQUE MEASUREMENT, A

CACHE-TAG RAM IS CONTENT-ADDRESSABLE [RAM.]
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THERE AND BACK AGAIN
CREASON'S DO-IT DVM THE MORE SAM BUILDS, THE MORE SMART PEOPLE PAY ATTENTION. [DVM.]
CREATE A SIMPLE BUT CAPABLE SPEAKERPHONE AND AUTODIALER
PRECISE REAL TIME CLOCK, A [RTC.]
FREQUENCY-MARKING CONTROLLER INDEXES TAPE SEGMENTS
PRESSURE MEASUREMENT
HIGH-VOLTAGE DC GENERATOR [HV./DC.]
HIGH-PERFORMANCE SPEED CONTROLLER FOR VOLTAGE-SOURCE INVERTER-FED INDUCTION MOTOR DRIVES
BUILD A CENTER-WOOFER CROSSOVER
CHIP SET SIMPLIFIES LINKING T1 OR ISDN LINES TO PBXS [ISDN./PBX.]
DRIVE BRUSH MOTORS WITH BRUSHLESS IC
MAKE LIQUID-CRYSTAL DISPLAYS WORK FOR YOU [LCD.]
1 KW 500 KHZ FRONT-END CONVERTER FOR A DISTRIBUTED POWER SUPPLY SYSTEM, A [1KW/500KHZ/PS.]
PAL PROGRAMMER, A [PAL.]
MULTICHANNEL PRINTING VOLTMETER USING INTEL SDK-85 KIT
ALL-METAL AUTOMATED TOEPLER PUMP FOR LABORATORY USE
TELECOMMUNICATIONS IC INTEGRATES STILL MORE LINE-CARD TASKS
MULTIWIRE PROPORTIONAL CHAMBER SYSTEM WITH DIGITAL READ-OUT FOR THE MUNICH Q3D-SPECTROGRAPH
TELEPHONE RING CONVERTER, THE
SIMPLE CONTINUITY TESTER FOR PCB'S [PCB.]
SIMPLE NONPERTURBING TEMPERATURE PROBE FOR MICROWAVE/RADIO FREQUENCY DOSIMETRY [RF.]
DEMONSTRATION OF MULTIPLEXING IN INSTRUMENT READOUT DISPLAYS [MUX.]
SIMPLE CHARGER (LLL)
COMPARISON OF PERFORMANCE OF SINGLE-LOOP AND CURRENT-INJECTION CONTROL FOR PWM CONVERTER
MINI MUSIC SYNTHESIZER
SYNCHRONIZATION OF A PICOSECOND MODE-LOCKED DYE LASER OSCILLATOR-AMPLIFIER WITH A STREAK CAMERA
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CONTINUITY TESTER DESIGNED BY STEPHEN IBBS THAT IS QUICK AND SIMPLE TO BUILD, AS
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KENWOOD TH-21AT 2 METER HAND-HELD TALKIE, THE [2M]
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CROSS-CORRELATOR FOR NEURONAL SPIKE TRAINS, A
ECONOMICAL ELECTROPHORESIS WITH A CONTROLLED-CURRENT POWER SUPPLY [PS.]
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LOSSLESS COILS FOR LC FILTERS [LC.]
FAST SHUTTER VALVE FOR USE IN PLASMA DIAGNOSTICS, A
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AUTOBIASING PREAMPLIFIER [AMP.]
AUTOMATIC AIR POLLUTION DATA COLLECTION AND TELEMETERING STATION, AN
INTEGRATED CIRCUIT POWER SOURCE FOR CONSTANT-CURRENT COULOMETRY, AN
FOUR CHANNEL MULTIPLEXER FOR REDOX PROBES [4/MUX.]
REVIEWING THE GROUND RULES
HOW TO BUILD A PRACTICAL FUNCTION GENERATOR
OP AMP PROVIDES A CURRENT AND VOLTAGE SOURCE [OA.]
D-A CONVERTER CONTROLS PROGRAMMABLE POWER SOURCE [DAC.]
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BACKUP SHUTS ITSELF OFF
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USE CMOS DACS TO GENERATE SINE WAVES [CMOS./DAC.]
DEFORMATION STUDIES OF POLYMERS BY FOURIER TRANSFORM INFRARED SPECTROSCOPY II: MECHANICAL S
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DIGITAL-TO-ANALOG AND ANALOG-TO-DIGITAL CONVERTERS [ADC.]
BUILD A QSO "BEEPER"
DRIVEN PENDULUM FOR STUDYING CHAOS
BUILD A 30-WATT AUDIO AMPLIFIER [30W/AMP.]
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ELIMINATE RTD SELF-HEATING ERRORS [RTD.]
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DAS PACKS MEMORY FOR EASY UP INTERFACE [DAS./UP.]
DATA ACQUISITION AND CONTROL SYSTEM FOR LABORATORY EXPERIMENTS
ALTERNATIVES TO LASER TRIM: ZAPPING ZENERS, BLOWING FUSE LINKS
EXTERNALLY TRIGGERED CIRCUIT PRODUCING DIGITALLY CONTROLLED DELAYS WITH SUB-NANOSECOND STEPS
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NE602-BASED QRP TRANSCEIVER FOR 20-METER CW, AN [20M/CW.]
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VOICE SCRAMBLER/DESCRAMBLER AND MORE
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CONSTRUCT A SIMPLE L-C AUDIO OSCILLATOR [LC.]
LINEAR AND SWITCHING ICS CONTROL MOTORS EFFICIENTLY
TUNE IN ON THE NEW FRONTIERS OF VLF SIMPLE CONVERTER BRINGS THE LOW LOW BANDS IN ON 80-METER BAND
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PROGRAMMABLE INTEGRATOR HAS 6-DECADE RANGE
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STRETCHING MARSH'S PREAMP [AMP.]
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RTTY TUNING: THE NEW SOLUTION [RTTY.]
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FIFO MEMORY CIRCUIT STORES WAVEFORM DATA FOR MONITORS AND SCOPES [FIFO.]
RDFING - A GROWING SPORT
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BUILD ACTIVE FILTERS WITHOUT OP AMPS [OA.]
TRIM HEAD-POSITIONING OVERHEAD WITH EMBEDDED DISK SERVO
BUILD LOW-COST WINDOW COMPARATOR
BUILD A FUNCTION GENERATOR AN INEXPENSIVE WAY TO GENERATE USEFUL WAVEFORMS.
SIMPLE LINE-SAMPLING APPARATUS FOR LINE FREQUENCY STROBOSCOPIC OBSERVATION OF PERIODIC PHEN
REMOTE CONTROLS AND A GREAT A/D CONVERTER! [ADC.]
REMOTE-SENSING ROOM THERMOSTAT
COMPUTER-CONTROLLED WEATHER STATION (PART 3) WINDSPEED AND DIRECTION METER

SINE/COSINE GENERATOR FOR 0.1-10KHZ [10KHZ]
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SINGLE CHIP MIXER WITH 3 BALANCED INPUTS
CONTROLLER AUTOMATICALLY ADJUSTS FAN SPEED
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CMOS MICROPOWER OP AMPS AND COMPARATORS [CMOS./OA.]
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AM RADIO TRANSMISSION [AM.]
500W MOSFET POWER AMPLIFIER, A (PART 2) [MOSFET./AMP.]
LM1035 DUAL DC OPERATED TONE/VOLUME/BALANCE CIRCUIT - NATIONAL [DC.]
REAL-TIME IMAGING OF ANALYZED AREAS IN SURFACE ANALYSIS
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TRANSITION RADIATION DETECTOR TO MEASURE THE ENERGY OF COSMIC RAY MUONS IN AN UNDERGROUND L
SMALL-FRY MINI-AMP, THE NOT TOO HI AND NOT TOO FI - BUT SMALL, HOT AND NOT A LOT OF MONEY. [AMP.]
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OSCAR, THE AUDIO FREAK
CYCLIC INDICATOR COLOR CHANGE BY TITRANT ELECTROGENERATION
UNDERGRADUATE EXPERIMENT: DETERMINATION OF THE BAND GAP IN GERMANIUM AND SILICON
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PRECISE TUNING INDICATOR FOR GENERAL-COVERAGE RECEIVERS, A
ELECTRONIC STABILIZATION SYSTEM FOR AN OSCILLATING VANE PRESSURE GAUGE
PRECISION TEMPERATURE CONTROLLER
GREEN VEGETATION SENSOR
TEENY-WEENY T'S
EFFICIENT TECHNIQUE FOR DECOUPLING NMR TRANSMIT COILS FROM SURFACE-COIL RECEIVERS, AN [NMR.]
HIGH PERFORMANCE RANDOM PULSER BASED ON PHOTON COUNTING
REGULATOR SERVES AS CURRENT SOURCE
DIGITAL APPROACHES TO MYOELECTRIC STATE CONTROL OF PROSTHESES
BUILD A SYNCHRONOUS DETECTOR FOR AM RADIO [AM.]
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COINCIDENCE EYE POSITION DEVICE WITH APPLICATIONS IN CLINICAL PSYCHOPHYSICS, EYE-POSITION TRAINING
BUILD A FOXHOLE RADIO
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BUILD THE X4 LOGIC PROBE
BUILD A SONIC KALEIDOSCOPE
ADJUSTABLE, AUDIBLE CONTINUITY TESTER FOR DELICATE CIRCUITS THE UNIT IS ADJUSTABLE TO RESISTANCE

MAKING MILLIOHM MEASUREMENTS
MULTIPLEXER-OP AMP IC OPENS UP NOVEL CIRCUIT POSSIBILITIES [MUX./OA.]
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SOLAR SENSOR TO MONITOR THE ORIENTATION OF THE GONDOLA OF A STRATOSPHERIC BALLOON, A
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SIMPLE, LOW-DRIFT CIRCUIT FOR MEASURING TEMPERATURES IN FLUIDS, A
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LINEAR VOLTAGE CONTROLLED OSCILLATOR, A [VCO.]
CONSTANT TEMPERATURE HOT-WIRE ANEMOMETER, A
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LINEAR DRIFTLESS VCO, A [VCO.]
LENGTH-TENSION RECORDING SYSTEM FOR STRABISMUS SURGERY
CONSTANT-SPEED MOTOR DRIVE
THOSE NICAD BATTERIES AND HOW TO CHARGE THEM! [NICD.]
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PHONLINK INTERACTIVE REMOTE CONTROL
FLOW INJECTION AND SOLVENT EXTRACTION WITH INTELLIGENT SEGMENT SEPARATION. DETERMINATION OF C
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QRP LOW POWER OPERATION
AIR-MOTION DETECTOR
DNR NOISE REDUCER, THE: HOW IT WORKS AND HOW TO BUILD IT
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YESTERYEAR'S CIRCUITS SHOW THE WAY
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INTELLIGENT TOASTER OR EXPERIMENTS IN COMPUTER CONTROL, THE
INTEGRABLE ELECTRONICALLY TUNABLE CURRENT CONVEYORS
GATING AMPLIFIER FOR GENERATING TONE BURSTS OF PRECISE SEPARATION [AMP.]
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ACUTE AND CHRONIC SERVO-CONTROL OF RENAL PERFUSION PRESSURE
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LOW COST TEMPERATURE CONTROL OF A LABORATORY USING A WINDOW AIR CONDITIONER UNIT
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LOW DROPOUT REGULATOR SUITS 3V SYSTEMS
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CHAOS IN A NEURAL NETWORK CIRCUIT
RUBY DECAY-TIME FLUORESCENCE THERMOMETER IN A FIBER-OPTIC CONFIGURATION
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AUDIO AMPLIFIER BIAS CURRENT (LLL) [AMP.]
UNDERSTANDING TRANSFORMS, VIDEO COMPRESSION SECRETS, VIDEO CROSSHATCH GENERATOR, POWER E
MODIFIED LOW-DROP REGULATOR [MOD.]
ELECTRICAL ANTENNA NULL STEERING
CHECKOUT THE SMORGASBORD OF CIRCUITS OFFERED THIS MONTH
STEPPER MOTOR SCANNING SONAR SENSOR
PREAMPLIFIER USING DISCRETE OP-AMPS [AMP./OA.]
ELECTRICAL CONDUCTIVITY MEASUREMENTS OF CORROSIVE LIQUIDS AT HIGH TEMPERATURES
BUFFER I²C DATA AND CLOCK LINES
SIGNAL TRACER
BUILD... PANOPLY
CHIRP, JANGLE, WOOSH, BOOM
CHIP OFF THE OLD PROGRAM (LLL)
BUILD A TUNABLE FIELD-STRENGTH METER
UNIVERSAL RS232C CABLE
NOISE AND SENSITIVITY ANALYSIS FOR MINIATURE E-FIELD PROBES
BUILDING A FIELD-STRENGTH METER
BUILD THE CUNNINGHAM SPECIAL!
FULLY AUTOMATED MICRO-INJECTION SYSTEM FOR THE LKB BATCH MICROCALORIMETER, A

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CMOS MONOSTABLE [CMOS.]
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GROMMES HI-FIDELITY MODEL 208 PREAMP [AMP.]
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CHAOTIC RHYTHMS OF A DRIPPING FAUCET
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INEXPENSIVE VOLTAGE-CONTROLLED OSCILLATOR IS RICH IN HARMONICS OVER ENTIRE AUDIO RANGE [VCO.]
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ON THE DESIGN OF RC-ACTIVE HIGHPASS FILTERS USING 2-OA GIC [RC./OA.]
ON FLOATING IMPEDANCE SIMULATION (LLL)
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READOUT ELECTRONICS FOR THE VENUS MUON DRIFT TUBES AT TRISTAN
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INFRARED AND VISIBLE THERMOLUMINESCENCE SIGNALS OF TM-DOPED CaF_2 MEASURED BY A SEMICONDUCT
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LOW NOISE AMPLIFICATION CHAIN FOR THE VACUUM PHOTOTRIODE READOUT OF THE DELPHI LEAD-GLASS CALORIMETER

NEW Q ENHANCEMENT TECHNIQUE OF LOW POLE FREQUENCY BANDPASS FILTER USING SINGLE-ENDED OPERATIONAL AMPLIFIERS

LOW-COST SYSTEM FOR AUTOMATED ACQUISITION, DISPLAY AND ANALYSIS OF TRANSMEMBRANE IONIC CURRENTS

NEW KIND OF PROM, SOFTWARE FOR NEC MICROCONTROLLERS, SWITCHABLE SCSI TERMINATOR AND COMPACT FLASH

CRYOGENIC GAAS FET AMPLIFIERS AND THEIR USE IN NMR DETECTION [GAASFET./AMP./NMR.]

TUBE AMP ISOLATES HIGH VOLTAGES [AMP./HV.]

INJECTION CURRENT CALIBRATION OF DIODE LASER WAVELENGTHS

ISOLATED MICROELECTRODE AMPLIFIER FOR MEASUREMENTS ON PAPILLARY MUSCLE SUBJECT TO A RAPID TEMPERATURE CHANGE

BASE MIC - PROCESSOR CONTROLLED

LOW NOISE ISOLATED AMPLIFIER SYSTEM FOR ELECTROPHYSIOLOGICAL MEASUREMENTS, A: BASIC CONSIDERATIONS

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PC-BASED SPECTRUM ANALYZER [PC.]

6502 PERSONAL SYSTEM DESIGN, A: KOMPUUTAR

MC68701 MICROCOMPUTER CHIP PROGRAMMER, AN

STABLE, SUREFIRE VFO FOR THE LF BANDS, A [VFO./LF.]

DRAKE R8 COMMUNICATIONS RECEIVER, THE

MICROPROCESSOR DRIVEN ULTRAFAST MULTICHANNEL EVENT COUNTER [UP.]

FEEDBACK LINEARIZES ISOLATION AMPLIFIER [AMP.]

USE ALL-CMOS CIRCUITRY FOR EFFICIENT CONTROLLER DESIGN [CMOS.]

PRECISION CMOS CLOCK GENERATOR [CMOS.]

HIGH SPEED CMOS PRODUCES Z80 CLOCK (LLL) [CMOS.]

REGISTER EXPANDS UC'S I/O PORTS [IO.]

HIGH FLUX OPERATION OF THE GATED MULTISTEP AVALANCHE CHAMBER

HIGH FREQUENCY SWITCH [HF.]

HIGH-SPEED PHOTOGRAPHY WITH COMPUTER CONTROL

BUILD A UNIVERSAL ELECTRONIC STOPWATCH

BUILD YOUR OWN DIRECT-CONVERSION RECEIVER

(LLL)

ACL 'GROUND BOUNCE' COMPARISON

PULSE MODE SATURATION PROPERTIES OF PHOTOMULTIPLIER TUBES [PMT.]

MULTICHANNEL DISCRIMINATOR SYSTEM FOR SILICON STRIP DETECTOR READOUT, A

COMING IN AT 20 MBAUD, AN OPTOCOUPLER IC DOUBLES THE DATA TRANSFER RATE

SIMPLE STOPWATCH SPLITS SECONDS!

SIMPLE DEVICE FOR SPOT-WELDING ELECTRODES IN ELECTROPHYSIOLOGICAL APPLICATIONS

SIMPLECEIVER, THE

TEN-TEC ARGOSY AS A DXPEDITION TRANSCEIVER, THE

CONTROL YOUR TELESCOPE BY VOICE

ICOM 471A AN EXCELLENT UHF TRANSCEIVER [UHF.]

BUOY FLASHER

ICOM 735 DELUXE HF TRANSCEIVER, THE [HF.]

PROXIMITY SENSOR IS BATTERY POWERED

PHOTOGATE TIMER FOR MEASURING THE SPEED OF A BULLET, A

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GROMMES HI-FIDELITY MODEL 207A PREAMP [AMP.]

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TWO-METRE TRANSCEIVER [2M]
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"EXPLORER" 8085-BASED MICROCOMPUTER
V- AND I-PROTECTED INTRINSICALLY SAFE OP-AMP (LLL) [OA.]
MICROPOWER IMPEDANCE METER FOR MEASURING ELECTRODE CONTACT IMPEDANCE, A
AUDIO TIME DELAY SYSTEMS CONCLUDED BUILD A DIGITAL AUDIO DELAY LINE
USING TRIACS AND SCR'S [SCR.]
SELF-SENSING HEATING ELEMENTS
MULTICHANNEL TELEMetric SYSTEM FOR BIOMEDICAL SIGNALS VIA SWITCHED TELEPHONE LINES
OMNIPROM [PROM.]
THREE PHASE TESTER [3]
MASS-SELECTIVE NEUTRAL PARTICLE ENERGY ANALYZER WITH BACKGROUND REJECTION, A
AUTOMATED ANALYSIS OF PRERECORDED EVOKED ELECTROMYOGRAPHIC ACTIVITY FROM RAT MUSCLE [EMG.]
AUTOCOMPENSATING DEVICE FOR ULTRA-LOW TEMPERATURE MEASUREMENTS
REVERB AMPLIFIER [AMP.]
NOVEL REGENERATOR HAVING SIMPLE CLOCK EXTRACTION AND AUTOMATIC PHASE-CONTROLLED RETIMING OF
DEVICE FOR MEASURING SOFT TISSUE INTERFACE PRESSURES
FIBER-OPTIC LINK HANDLES RS-232 DATA
LOGIC ANALYZER
PROGRAMMABLE STIMULATOR: DESIGN AND IMPLEMENTATION USING A Z8 MICROCOMPUTER
REPLAY DIGITAL VOICE MESSAGE SYSTEM, THE
SUPER PAS THREE POWER SUPPLY DO IT YOURSELF PROJECT, THE [3/PS.]
YAPSU-2/11
IMPROVING THE CLASSIC TUBE PREAMP [AMP.]
EXTENDING THE FREQUENCY RANGE OF A WIEN-BRIDGE OSCILLATOR USING COMPOSITE OPERATIONAL AMPLIFIERS
INTEL FLASH EPROM FOR IN-SYSTEM REPROGRAMMABLE NONVOLATILE STORAGE [EPROM.]
LOW-COST, LOW WRITE-VOLTAGE EEPROM, A [EEPROM.]
NEW DATA ACQUISITION SYSTEM AT KEK, A [DAS.]
IC TEST STRUCTURES BRINGING 1149.1 INTO THE REAL WORLD
SIMPLE DIGITAL INTEGRATOR AND PULSE COUNTER
APPLICATION OF AN ULTRASONIC DELAY-LINE OSCILLATOR FOR THE MEASUREMENT OF MINUTE CHANGES IN PULSED
DETERMINATION OF SULFUR DIOXIDE BY REACTION WITH ELECTROGENERATED BROMINE IN A THIN-LAYER CELL
TI INCREASE SUPPORT OF P1149.1 BOUNDARY SCAN
IN-CIRCUIT EMULATION FOR THE APPLE II COMPUTER [ICE./2]
OP-AMP MONITORS LIQUID LEVELS [OA.]
GRAPHICS COPROCESSOR CHIP GIVES SMALL SYSTEMS A LOOK AT THE BIG PICTURE
ANALOG & PULSED CONSTANT-CURRENT STIMULATOR DESIGNS
ABC ACTIVE FILTER, THE

MICROCOMPUTER MEASUREMENT OF THE VELOCITY OF SOUND IN AIR
PREDICTION OF RFI DEMODULATION IN BIPOLAR OPERATIONAL AMPLIFIERS [RFI./OA.]
THERMALLY-CONTROLLED POWER SUPPLY [PS.]
EFFECT OF HEAT ON RADIATION DAMAGE IN LARGE NAI CRYSTALS, THE
EIGHT-PHASE CLOCK [8]
HIGH-SPEED POWER-MOSFET DRIVER AMPLIFIER ALLOWS YOU TO CUSTOM TAILOR OUTPUT STAGES [MOSFET./
NEGATIVE ION SPUTTER SOURCE FOR OPERATION IN A VAN DE GRAAFF TERMINAL, A
BUILD THE PT-68K 68000 ADDRESSING, AND MORE.
MULTICHANNEL EVENT TIMER FOR REAL-TIME LABORATORY COMPUTER SYSTEMS, A
SIMPLE PLETHYSMOGRAPH FOR MEASURING RESPIRATION RATES IN RATS WITH LUNG DAMAGE
SIMPLE CASE CONVERSION (LLL)
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COMPUTER CONTROLLED, HIGH PERFORMANCE, NEUTRON COINCIDENCE COUNTING SYSTEM, A
SIMPLE MULTI-POLE FILTER DESIGNS FOR PATCH CLAMP AND OTHER ELECTROPHYSIOLOGICAL SIGNALS
NUMEROUS IMPROVEMENTS SUGGESTED (LLL)
NINE POSITION JOYSTICK [9]
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RUN A 68008-BASED 1-BOARD COMPUTER ON THE STD BUS
PROM STATE MACHINE ADDS OUTPUTS AND STATES [PROM.]
APPLE II GS, THE [2]
EXPERIMENTAL SOLID-STATE OSCILLOSCOPE
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APPARATUS FOR CALIBRATING SOIL HEAT FLUX PLATES, AN
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BIPHASE AMPLIFIER FOR PRECISION CONTROLLED RECTIFICATION AND POLAR LOGIC OPERATIONS [AMP.]
CAPACITIVE VOLTAGE DIVIDER FOR A POWER SUPPLY [PS.]
EXPANDED RANGE DIRECT-READING INDUCTANCE METER BUILD THIS CHEAP CHOKE CHECKER.
STRAY-CAPACITANCE NEUTRALISATION FOR HIGH-RESISTANCE MICROELECTRODES - A SIMPLE ANALYSIS
LARGE VOLUME NEUTRON DETECTORS WITH SUBNANOSECOND TIME DISPERSIONS
CURRENT-CONVEYOR SINE-WAVE OSCILLATORS
THREE BANDS WITH ONE ROCK VERSATILE QRP TRANSMITTER FOR 80, 40 AND 20M. [3/1]
FAST AMPLITUDE CONTROL IN TWIN-T BRIDGE RC OSCILLATORS [RC.]
DESIGN OF A SIMPLIFIED PIPELINE PROCESSOR FOR FLOATING POINT ADDITION (SPFA)
FAST MULTICHANNEL TIME CORRELATOR FOR COINCIDENCE EXPERIMENTS IN ATOMIC PHYSICS
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INTERFACING PENDULUMS TO A MICROCOMPUTER
GATE ARRAY FOR SQUARE-ROOT CHIP MEETS MILITARY SYSTEMS' NEEDS
INTEL 376 FAMILY FOR EMBEDDED PROCESSOR APPLICATIONS, THE
OPTICAL FIBER COMMUNICATIONS
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COMPUTERIZED FREQUENCY COUNTER, A
SIMPLE MICROCOMPUTER-BASED OPTICAL THEODOLITE FOR WIND MEASUREMENTS, A
SIMPLE-TO-BUILD CODE-PRACTICE OSCILLATOR, A
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TWO-FREQUENCY METHOD FOR MEASURING IMPURITY PROFILES [2]
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EXPANDABLE KEYBOARD ENCODER AND DISPLAY CIRCUIT., AN
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MODIFIED SLURRY BEVELER FOR HRP-FILLED INTRACELLULAR MICROPIPETTES, A [MOD.]
CALORIMETRIC SYSTEM FOR RECORDING PLASMA BLOWOFF AND SCATTERED LIGHT DISTRIBUTIONS FROM LAS
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I/O ADD-ON ENHANCES MICRO-SYS [IO.]
BIPOLAR POWER SUPPLY FOR BATTERY INSTRUMENT [PS.]
APPLE MACINTOSH COMPUTER, THE
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TRANSPUTER-BASED SUPERSCALAR COMPUTER ARCHITECTURE SUITS ATM SWITCHING
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MICROTORQUEMETER FOR MAGNETIZATION MEASUREMENTS ON SMALL SUPERCONDUCTING SAMPLES
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ONE-CHIP FM DEMODULATOR HAS IMPROVED RESPONSE [1/FM.]
ELECTRONICS AND WIRELESS WORLD SPECIAL OFFER
PRELIMINARY DEVELOPMENT OF A RADIOTELEMETRY SYSTEM FOR BIOLOGICAL APPLICATIONS
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SINGLE-BOARD SPEECH SYNTHESIZER EXTENDS MICROCOMPUTER-I/O CAPABILITY [IO.]
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CMOS DC-DC CONVERTERS FOR GENERATING 5 VOLTS FROM SINGLE CELLS [CMOS./DC./5V]
IMPROVED LINEAR TEMPERATURE/VOLTAGE CONVERTER USING THERMISTOR IN LOGARITHMIC NE
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INPUT CAPACITANCE FEEDBACK IMPROVES NEUTRALIZATION
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IMPROVED SYSTEMS FOR THE MEASUREMENT OF HYSTERESIS LOOPS: DC AND AC CHARACTERISATION [DC./AC
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DEVICE TO QUANTIFY PASSIVE RESISTANCE TO MOTION OF THE LEG, A
WAVES, WAVES, EVERYWHERE.
NEW ANALOG-TO-DIGITAL CONVERTER AND SWITCHING POWER SUPPLY CONTROL DEVICES, A [ADC./PS.]
SIX METER QRP STATION WHO SAYS WE DON'T USE TUBES ANYMORE? [6M]
ISDN PROTOTYPING TELEPHONE [ISDN.]
BUILD A SOUND-EFFECTS GADGET
EXPERIMENTER' 64K DRAM CARD [DRAM.]
SOPHISTICATED CONTROLLER ICS ADAPT MOTORS TO ROBOTICS AND COMPUTER-PERIPHERAL APPLICATIONS
ACTIVE POTENTIOMETER TUNES COMMON-MODE REJECTION [CMR.]
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ST HARDWARE LAB VOICE ON THE ST
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NEC SPEEDS UP THE V20 AND V30; FAST VIDEO DACS; CRT AND STEPPER MOTOR DRIVERS [DAC./CRT.]
MODIFIED KEYLESS LOCK OPENS DOORS WITH FEWER PARTS (LLL) [MOD.]
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HIGH-POWER CAVITY AMPLIFIER FOR THE NEW 900-MHZ BAND, A [AMP./900MHZ]
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GAIN-TUNED ACTIVE FILTERS WITH CONSTANT PERCENT BANDWIDTH [BW.]
BUILDING AN LED MOVING MESSAGE DISPLAY [LED.]
SWITCH-MODE POWER SUPPLY [SMPS.]
PULSED ELECTRON BEAM TIME OF FLIGHT APPARATUS FOR MEASURING ABSOLUTE ELECTRON IMPACT IONIZATION
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CAN YOU REMEMBER HOW YOU GOT STARTED IN ELECTRONICS?
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AMPLIFIER FOR A FAST SEMICONDUCTING BOLOMETER, AN [AMP.]
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ADVANCED INSTRUMENTED SPHERE (IS) FOR IMPACT MEASUREMENTS
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BICYCLE ERGOMETER FOR PARALYZED MUSCLE
MICROSECOND SPECTROELECTROCHEMISTRY BY EXTERNAL REFLECTION FROM CYLINDRICAL MICROELECTRODE
ELECTRICAL CHARGE CONDUCTION MECHANISM OF A POLYMER MEMBRANE ELECTRODE SELECTIVE FOR HYDROGEN
SPEED CONTROL FOR A PLANT PACKAGING REEL ON A SEEDLING HARVESTER
USE OF MINICOMPUTER FOR MEASURING KINETICS OVER MANY ORDERS OF MAGNITUDE IN TIME
HIGH-STABILITY BIMORPH SCANNING TUNNELING MICROSCOPE [STM.]
GILDING THE TDA 2030
SILICON-TUNGSTEN ELECTROMAGNETIC CALORIMETER FOR LEP, A [EM.]
TEMPORAL AVERAGING TECHNIQUES REDUCE IMAGE NOISE
TEMPERATURE EFFECTS ON CMOS MULTIPLEXERS USED FOR DATA ACQUISITION [CMOS./MUX.]
HOME CONTROL SYSTEM II SUPERVISORY CONTROLLER, THE [2]
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TWO-PHASE FREQUENCY-CONVERSION TYPE SPECTRUM ANALYZER FOR LOW-FREQUENCY NOISE MEASUREMENTS
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VERSATILE FOUR-PROBE AC CONDUCTIVITY MEASUREMENT SYSTEM [4/AC.]
INSTRUMENTATION AMPLIFIER NEARS INPUT NOISE FLOOR [IA.]
INSTRUMENTATION AMPLIFIER WITH DIGITAL GAIN PROGRAMMING AND COMMON-MODE REJECTION TRIM [IA./CM]
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INTEGRATED CIRCUIT AND DIODE THERMOMETRY
INTEGRATED CIRCUIT AND DIODE THERMOMETRY
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LOUDSPEAKER POWER AMPLIFIERS WITH LOAD-ADAPTIVE SOURCE IMPEDANCE [AMP.]
LOW-COST PCS AND SOFTWARE ANALYZE ANALOG CIRCUITS [PC.]
NEW METHOD OF STUDYING THE LOW SURFACE PRESSURES OF MONOLAYER AT AIR/WATER INTERFACE
MEASURING MAGNETIC FIELDS IN YOUR OWN HOME
AUDIO COMPANDING
SIGNAL CONDITIONER TURNS INTO PRODUCTION-LINE TESTER
USING A FREQUENCY COUNTER AS A CAPACITANCE METER
BUILD AN AVIATION-BAND RECEIVER
VOLTAGE-TO-FREQUENCY CONVERTER FOR BIPOLAR INPUTS [VFC.]
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LARGE-BORE COPPER VAPOR LASER WITH A DOUBLE THYRATRON PULSE MODULATOR [PM.]
DOUBLE-SIDEBAND S.C. DEMODULATOR FOR 455KHZ (LLL)
FIVE-BAND COMPANDED TECHNIQUE FOR CONVERTING TELEPHONE QUALITY TO BROADCAST QUALITY USING T
PW "AXE" SIGNAL TRACER, THE
NEAR INFRARED REFLECTANCE SOIL MOISTURE METER, A [NIR.]
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TECHNOLOGICAL ASPECTS OF FREQUENCY DOMAIN DATA STORAGE USING PERSISTENT SPECTRAL HOLE BURN
RECEIVER DESIGN FOR LASER RANGING TO SATELLITES
AUDIO ANALYSER
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FALLING WATER DROP VELOCITIES AT 1570 M ELEVATION [1570M]
WALL-JET CONDUCTOMETRIC DETECTOR FOR DETERMINATION OF SULPHUR DIOXIDE IN AIR AFTER PRECONCE
COMBINED MEASUREMENT METHOD FOR BOTH DYNAMIC INTERMODULATION AND STATIC NONLINEAR DISTORT
CONSTRUCTION OF A PHOTOELECTRIC COLORIMETER AND APPLICATION TO STUDENTS' EXPERIMENTS
VARIABLE FREQUENCY AND WAVEFORM HIGH-VOLTAGE POWER SUPPLY FOR THREE-PHASE TRAVELING ELECT
RESPIRATORY RESPONSES OF CARCINUS MAENAS TO DECLINING OXYGEN TENSION, THE
METHOD FOR FAST AMPLITUDE DETECTION OF VARIABLE PERIOD SINUSOIDAL SIGNALS, A
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DIGITAL PULSE-SHAPE DISCRIMINATING UNIT FOR NEUTRON-GAMMA DISCRIMINATION WITH NE213, A
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20-HZ-TO-200-KHZ MAGNETIC FLUX PROBE FOR EMI SURVEYS, A [20HZ/200KHZ/EMI.]
SAFEGUARDING ANALOG DESIGNS AGAINST DISASTER
HUNTING THE COMPUTERIZED ECLIPSE
ELECTRONIC IGNITION FOR SINGLE-CYLINDER ENGINES
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1152 CHANNEL TIMING SYSTEM FOR AN ELECTROMAGNETIC CALORIMETER READOUT, A [EM.]
SL6270 GAIN CONTROLLED AUDIO AMPLIFIER [AMP.]
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STABILIZING AC MOTORS FOR BETTER SOUND [AC.]
END-CAP PROPORTIONAL TUBE CHAMBERS FOR THE UPGRADED UA2 EXPERIMENT
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AMPZILLA III [AMP./3]
CIPHER MACHINE, THE
AMPLIFIER NEUTRALIZES GROUND LEAKAGE [AMP.]
STRANGE ATTRACTORS OF A BOUNCING BALL
LISTEN IN ON THE TUBE
PISTON-ACTUATED SHOCK-TUBE, WITH LASER-SCHLIEREN DIAGNOSTICS, A
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IC TEMPERATURE SENSORS AND MORE
IC FAMILY BEING READIED FOR DIGITAL SIGNAL PROCESSING [DSP.]
UC SUPERVISOR NEVER FAILS
OP-AMP AM RADIO, AN [OA./AM.]
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KD8JN'S QRP ACHIEVEMENTS
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WHATS ALL THIS NOISE STUFF, ANYHOW? (PART 2)
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"MAGIC-FILM" SPEAKER, THE
SLAVE MAINS ON-OFF CONTROL (LLL)
STARTING OUT WITH DSP [DSP.]
CYCLOCONVERTER TRANSISTORIZED POWER SUPPLY FOR INDUCTION HEATING [PS.]
UPDATING THE RCM BATTERY MANAGEMENT SYSTEM
AUDIO ACTIVATED POWER SWITCH, AN: MODEL 2 NEW POWER AMP ALTERNATIVES (PART 3) [AMP.]
LED EXPANDED VOLTMETER [LED.]
USE VOICEPRINTS TO ANALYZE SPEECH
SWEET TALK (LLL)
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DIGITAL SPEEDOMETER FOR YOUR CAR
HIGHER LEVEL, A (LLL)
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BUILD A SIMPLE AMP COMPONENT [AMP.]
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BUILDING A BRIDGE TO MORE COST EFFECTIVE TESTING
VOLTAGE-REGULATOR IC BIASES EXPANDED SCALE METER
CELLULAR CHIP SET SPEEDS DESIGN-TO-PRODUCTION PROCESS
COMMUTATION CHIP KEEPS DC BRUSHLESS MOTORS OUT OF HARM'S WAY [DC.]
SIMPLIFIED VOLTAGE LEVEL SENSING (LLL)
COMPACT, BIPOLAR, CONSTANT-CURRENT-VOLTAGE SOURCE FOR SUPERCONDUCTING JUNCTION CHARACTER
SIMULATING IDEAL SELF-INDUCTION
TEN-TEC'S TITAN LEGAL-LIMIT POWER AMPLIFIER [AMP.]
PROBLEM OF POWER CONSUMPTION, THE (LLL)
PROGRAMMABLE, HIGH-VOLTAGE AMPLIFIERS [HV./AMP.]
EXPANDED SCALE VOLTMETER COVERING THE 10-15 V RANGE [15V]
CAPACITIVE VOLTAGE DOUBLER FORMS +12-TO-+15-V CONVERTER [15V]
CAPACITANCE BRIDGE DETECTOR AND SIGNAL LOCK FOR ION CYCLOTRON RESONANCE SPECTROMETRY [ICR.]
AMPLIFICATION OF BIOSIGNALS BY BODY POTENTIAL DRIVING. ANALYSIS OF THE CIRCUIT PERFORMANCE [AMP.]
EXPERIMENTING WITH SUPER CAPACITORS
CAPACITANCE MEASURING CIRCUIT FOR WATER WAVES
LEPTON CANDLE, THE
DSP SYSTEM COMPRISES ONLY FIVE MAJOR CHIPS [DSP./5]
EXPANDED-SCALE VOLTMETER, AN FOR ACCURATE BATTERY MONITORING.
IMPROVED VOX MOBILE EXTENDER GIVE YOUR HANDHELD THE POWER OF A MOBILE. (LLL)
THREE-PHASE POWER-FACTOR CONTROLLER [3/PF.]
LARGE AREA POSITION-SENSITIVE X-RAY DETECTOR FOR A BRAGG CRYSTAL SPECTROMETER
EAR TO THE GROUND
SERIOUS RESEARCH AND UNDERGRADUATE PROJECTS IN POWER ELECTRONICS
THREE-PHASE MOTOR PROTECTOR [3]
DESIGNING WITH LINEAR IC'S (PART 3)
DESIGN A HARD-DISK CONTROLLER WITH DSP TECHNIQUES [DSP.]
INSTRUMENTATION FOR TIME-RESOLVED MEASUREMENT OF ULTRASOUND VELOCITY DEVIATION
DESIGN AND APPLICATION OF HONEYWELL'S LASER-TRIMMED TEMPERATURE SENSORS, THE
DISTORTIONLESS POCKET STEREO AMP (LLL) [AMP.]
AUTORANGING AMPLIFIER WITH HIGH LINEARITY [AMP.]
AUTONOMOUS CONTROL TECHNIQUE FOR HIGH-PERFORMANCE SWITCHES
FLUORESCENCE POLARIZATION: MEASUREMENTS WITH A PHOTON-COUNTING PHOTOMETER
POWER SPEAKER ENHANCES MOBILE OPERATION
NEW EFFICIENT HIGH-FREQUENCY POWER INVERTER WITH INDUCTIVE ENERGY PROCESSING LOOPS [HF.]
LOW COST SUPERRENERATIVE SAW STABILIZED RECEIVER, A [SAW.]
HOW TO BUILD A SIMPLE QRP TRANSMITTER CONTROL SYSTEM
FIXED-VOLTAGE REGULATOR PAIR FORMS BIPOLAR POWER SUPPLY [PS.]
10-GHZ FREQUENCY MARKER [10GHZ]
MEASUREMENT OF ANTENNA IMPEDANCE
HYBRIDIZED FRONT END ELECTRONICS OF THE CENTRAL DRIFT CHAMBER IN THE STANFORD LINEAR COLLIDER
UNDERSTANDING FM RECEIVERS (PART 18) [FM.]
MODIFICATIONS TO 8P6 SPECIAL FOR 30 M [MOD./30M]

UNDER CONSTRUCTION (PART 4) THE SWR TWINS - QRP AND QRO [SWR.]
ELECTRONICS FROM THE START (PART 10) TRANSISTORS: HOW THEY WORK AND HOW TO USE THEM CORRECTLY
SPEED AND POWER CONTROLS FOR DC [DC.]
FIELD DAY SUCCESS
PREPARATION AND CHARACTERIZATION OF THIN METAL FILMS FOR EXPLODING-CONDUCTOR EXCITATION
SIGNAL PROCESSING CIRCUIT FOR A MASS FLOW RATE DIGITAL METER DESIGN
BUILD A SUPER AUDIO FILTER
BUILD THE AA6PZ POWER CHARGER
BUILD THIS QRP OMNI BOX
SWITCHING BEHAVIOUR OF UNIUNCTION TRANSISTOR IN THE PRESENCE OF MAGNETIC FIELD [UJT.]
MAKE THE RIGHT MATCH HOW TO MEET YOUR AMPLIFIER'S POWER-SUPPLY NEEDS [AMP./PS.]
ALL-BAND, 1500-WATT-OUTPUT 8877 LINEAR AMPLIFIER, AN (PART 1) [1500W/AMP.]
WILLIAMSON 40-40 MODIFICATION (LLL) [MOD.]
SIMPLE PERIOD TIMING DEVICE FOR LASER DOPPLER SIGNALS
COMMENTS ON "A LINEAR TEMPERATURE/VOLTAGE CONVERTER USING THERMISTOR IN LOGARITHMIC NETWORK"
SIMPLE QRP GEAR VERSUS GOOD PERFORMANCE
COMPUTER-AIDED ANALYSIS OF ELECTRONIC DC-DC TRANSFORMERS [DC.]
VFO STABILITY [VFO.]
FLORIDA T-R SWITCH, THE GET YOUR 2M AMPLIFIER OUT OF THE WAY - WITHOUT A RELAY. [TR./2M/AMP.]
IMPROVED DC CURRENT SUPPLY FOR HIGH-VACUUM STRAIGHT THROUGH SOLENOID VALVES [DC.]
IMPROVED CONSTANT CURRENT BALLAST (LLL)
IMPROVED METHOD FOR THE STABILIZATION OF NAI-PHOTOMULTIPLIER GAMMA DETECTORS AGAINST THERMAL DRIFT
RIP-OFF RETARDER ALARM
APPLE TALKS WITH THE DEAF, AN
QRP TRANSMITTER FOR 30 METERS, A [30M]
IMPULSE GENERATOR FOR ANTENNA MEASUREMENTS IN THE TIME DOMAIN, AN
AMPLIFICATION AND CALIBRATION FOR MINIATURE E-FIELD PROBES [AMP.]
IMPULSE EXCITATION AMPLIFIER FOR FOURIER TRANSFORM MASS SPECTROMETRY [AMP./FT./MS.]
QRP FUN (PART 2)
IMPROVED BUFFERS (LLL)
SUPERFUSE, THE
SCR PREREGULATOR FITS ANY POWER SUPPLY (LLL) [SCR./PS.]
WIRELESS STEREO LINK (PART 2)
FAST QSK SYSTEM USING REED RELAYS, A
INSTRUMENTATION AMP SUITS WIDE RANGE OF CIRCUIT DESIGNS [IA.]
COST-EFFECTIVE ELECTRONIC IGNITION WELL-PROVEN DESIGN OFFERS PAYBACK IN LESS THAN A YEAR
LETTERS TO THE EDITOR (LLL)
INTERFACE 50-OHM RF TO HC/HCT LOGIC [50OHM/RF.]
INTERFACE BETWEEN A NICOLET FTMS/2000 AND A QUANTEL ND:YAG LASER USING AN IBM PC-AT [FT./PC.]
UNUSUAL USES FOR VARACTOR DIODES
POWER MEASUREMENTS AT VHF [VHF.]
HOW TO BUILD A SUPER SIMPLE KEYING MONITOR
BEYOND THE DIPPER
MULTIPLEXED LCD DISPLAY DRIVER WITH ON-BOARD RAM FREES UP HOST PROCESSOR [MUX./LCD./RAM.]
CAPACITIVE DISCHARGE CIRCUIT FOR CONTROLLED HEATING OF ANISOTROPIC GRAPHITE TUBES (PART 1)
INTERFACING COMMODORE'S USER PORT (PART 5)
RF DESIGN REVOLUTION, THE (PART 3) DEVICES FOR FREQUENCY SYNTHESIS [RF.]
QUASI-ADIABATIC CALORIMETER FOR THE MEASUREMENT OF SPECIFIC HEAT OF SOLIDS IN THE RANGE 4.2-60 K
TECHNICAL TOPICS

AUDIO-VIDEO PROCESSOR TYPE AVP300 (PART 2) INPUT CIRCUITS AND CHROMA-VBS SEPARATION FILTER
ELECTROSTATIC DEFLECTOR SYSTEM FOR IDENTIFYING EVAPORATION RESIDUES FOLLOWING FUSION BETWEEN
TRIPLE PHOSWITCH DETECTOR FOR HARD C-RAY ASTRONOMY, A
COLOUR VISION EXPERIMENT, A
NONCONTACTING OPTICAL PROBE
NPN PAIRS YIELD ULTRA-LOW-NOISE OP AMP [OA.]
CONSTRUCT THE CYCLOPS DIP METER
BIPOLAR DC-DC CONVERTER REQUIRES NO INDUCTOR [DC.]
IMPEDANCE MATCHING AND STABILIZATION OF RF RESONATORS [RF.]
APPLE GAME-PORT TIMING
PARALLELING OF PREAMPLIFIER INPUT STAGES FOR A LOW-NOISE, WIDEBAND TERMINATION OF LOW-IMPEDAN
ACTIVE FEEDBACK IMPROVES AMPLIFIER PHASE ACCURACY [AMP.]
YOUR FIRST HOMEBREW QRP RIG - THE TWOFER [1ST/2]
FLUCTUATION ANALYSIS OF LIQUID/LIQUID AND GEL/LIQUID INTERFACES
STABILIZATION OF CLASS C TRANSISTOR AMPLIFIERS BY USE OF FERRITE BEADS [AMP.]
AUDIO FUNCTION GENERATOR
UTILIZATION OF THE SERIES DC LINK CONVERTER AS A CONDITIONING SYSTEM FOR SMES [DC.]
DTMF FILTER DETECTS TONES IN EXCHANGES [DTMF.]
CURRENT FED INVERTER WITH INHERENT SHORT CIRCUIT PROTECTION AND SUPPRESSION OF RINGING, A
130 KHZ 7.5 KW CURRENT SOURCE INVERTERS USING STATIC INDUCTION TRANSISTORS FOR INDUCTION HEATING
MICROPROCESSOR CONTROLLED SOLAR TRACKING SYSTEM, A [UP.]
USE ADPCM FOR HIGHLY INTELLIGIBLE SPEECH SYNTHESIS [ADPCM.]
STEREO D-TO-A CONVERTER [DAC.]
HIGHER PERFORMANCE USING 32-BIT MICROPROCESSORS [UP.]
SPICE APPLICATIONS TO AN UNDERGRADUATE ELECTRONICS PROGRAM
FILTERS, FIFOS AND OTHER DEVICES [FIFO.]
COMPACT POWER UNIT RAISES SUPPLY'S SWITCHING RATE BY AN ORDER OF MAGNITUDE
MONOLITHIC MICROWAVE INTEGRATED CIRCUITS (PART 2) [MMIC.]
ACOUSTICAL EVALUATION OF A PROTOTYPE SECTOR-VORTEX PHASED-ARRAY APPLICATOR
METHOD FOR LONG-TERM ARTIFACT-FREE RECORDING OF SINGLE UNIT ACTIVITY IN FREELY MOVING, EATING A
RF MODULATOR FEATURES TWO POWER MOSFETS [RF./2/MOSFET.]
HIGH-SPEED AMPLIFIERS WITH LOW OFFSET AND DRIFT [AMP.]
DRIVE 100-MA CABLE LOADS [100MA]
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SUPPLY INSENSITIVE CURRENT SOURCE
CURRENT TRANSMITTER IC CATERS TO HIGH-LEVEL SIGNALS AND TIGHT BUDGETS
WIRELESS DATA-COMMUNICATION NETWORKS WIRELESS DATA LINKS BROADEN LAN OPTIONS [LAN.]
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TESTER CHECKS CAPACITORS ON LOADED PC BOARDS [PCB.]
MIL-STD-1553 CONQUERS NEW TERRITORIES
IMPROVE VOLTAGE-CONTROLLED CURRENT SOURCE (LLL)
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FAST LARGE APERTURE CAMERA AND DATA ACQUISITION SYSTEM WITH APPLICATIONS IN ASTROPHYSICS, PAR
FAST MATH COPROCESSOR FOR 80386 COMPUTERS, LOW-POWER GFI AND HIGH-SPEED GAAS SRAM, A [GAAS./S
INDUCTION MOTOR DRIVE USING AN IMPROVED HIGH FREQUENCY RESONANT DC LINK INVERTER, AN [HF./DC.]
ONE-CHIP BIPOLAR MICROCONTROLLER APPROACHES BIT-SLICE PERFORMANCE [1]
RESISTIVE FEEDBACK AIDS BROADBAND AMPLIFIER DESIGN [AMP.]
NOTCH REJECTION QUADRUPOLE MASS FILTER, A
THYRATRON-BASED POCKELS CELL DRIVER FOR SINGLE PULSE SWITCH-OUT IN MODE-LOCKED LASERS

IMPROVED MULTICHANNEL ANALYZER-MICROCOMPUTER INTERFACE, AN [MCA.]
ANALOGUE MULTIPLIER USING COMPOUND PULSE-TIME MODULATION
WORKING WITH COUNTERS
DESIGN OF A HYBRID RECEIVER FOR THE OLYMPUS SPACECRAFT BEACONS
TECHNIQUES SIMPLIFY ACTIVE FILTERS
FREQUENCY CONTROL LOOP WITH DIGITAL INTEGRATOR
BUILD A SERIAL PRINTER MULTIPLEXER [MUX.]
STORED STATE ASYNCHRONOUS SEQUENTIAL CIRCUITS (LLL)
SEQUENCE GENERATOR FOR PERIODIC SAMPLING OF TRANSIENT PHENOMENA
LIQUID LEVEL CONTROL FOR USE IN ANAEROBIC DIGESTERS, A
WORKSTATION INTERFACE FOR MEASURING INTERSPIKE INTERVALS, A
HIGH-PERFORMANCE UHF SQUID MAGNETOMETER [UHF./SQUID.]
COMPOUND OP-AMPS [OA.]
SEQUENTIAL LOCK CIRCUIT PROVIDES PROGRAMMABLE KEY WORD LENGTH
VERSATILE, POWERLESS LIQUID NITROGEN LEVEL DETECTOR, A
ANALOG MULTIPLIER MEASURES PHASE
ONE-CHIP 'SLIDE-RULE' WORKS WITH LOGS, ANTILOGS FOR REAL-TIME PROCESSING [1]
PRECISION ANALOGUE DIVIDER SYSTEM FOR FAST CIRCULAR DICHROISM MEASUREMENT AND OTHER APPLICA
SEQUENCER CIRCUIT FOR SELF-START OF MOTOR-ENGINES
NEW SAMPLED-DATA ANALOGUE MULTIPLIER
CYLINDER VALVE CONTROLLER FOR AN UNINTERRUPTED SUPPLY OF CRYOGENIC LIQUID
GENERALIZED BIQUADRATIC FILTER WITH PARAMETRIC DISPLAY, A
LIQUID-LEVEL INDICATOR FOR THE BLIND
SEQUENTIAL CODE CONVERTER FOR SHAFT ENCODERS
QUAD-SLOPE ADC MULTIPLIER, A [ADC.]
ERROR CONTROL OF MATRIX CODES (A SURVEY SINCE 1950)
LIQUID HELIUM LEVEL DETECTOR
NEARLY ULTIMATE DECODER, THE
PRECISION OP-AMPS [OA.]
FAST, VERSATILE SINGLE DUAL-PARAMETER MULTICHANNEL ANALYZER, A [MCA.]
SURPLUS KW AMPLIFIER, A [AMP.]
QUADRATURE OSCILLATOR RANGES WIDELY
AND THE WINNER IS...
ADD A VIDEO DISPLAY TO YOUR 8031 MICROCONTROLLER GRAPHICS AND COLOR LIVEN UP ANY OUTPUT
OPERATIONAL EXPERIENCE WITH A 2.5 X 1.5 METER DELAY LINE CHAMBER [2.5X1.5M]
PRECAUTIONS NECESSARY FOR PROPER CIRCUIT FUNCTION (LLL)
FREQUENCY-TO-VOLTAGE CONVERSION
DIGITAL PHASE-LOCKED LOOP, THE (PART 2) [PLL.]
LIGHT UP YOUR DAYS WITH A PERPETUAL CALENDAR
BUILD THE CIRCUIT CELLAR IC TESTER (PART 1) HARDWARE
BUILD A CORDLESS-TELEPHONE LOCK
BUILD AN EFFICIENT PARALLEL COMM PORT
BUILD THE SMARTROM EPROM EMULATOR [ROM./EPROM.]
BUILD A TURN-SIGNAL REMINDER
PULSE WIDTH MODULATED INPUTS TO MICROCOMPUTERS [PWM.]
HOME-SECURITY COOKBOOK
SINGLE STEP
PIN-DIODE DRIVER ALLOWS LINEAR RF ATTENUATION [RF.]
PHOTON COUNTING CIRCUITS

IMPROVED SOFTWARE AND CIRCUITS SPEED EPROM PROGRAMMING [EPROM.]
CAPACITANCE-BASED INSTRUMENTATION FOR MULTI-INTERFACE LEVEL MEASUREMENT
MXR DRUM COMPUTER EXTERNAL SOUND MODULE
STROBED EPROMS CUT SYSTEM POWER NEEDS [EPROM.]
EPROM DUPLICATING AID [EPROM.]
BURGLAR ALARM
VERSATILE DIGITAL FREQUENCY DISPLAY
KARNAUGH MAP DISPLAY
PORTABLE SHORTWAVE CONVERTER [SW.]
FERMILAB TEVATRON HIGH LEVEL RF ACCELERATING SYSTEMS [RF.]
VARIABLE C-MOS OSCILLATOR [CMOS.]
ZERO CROSSING POWER CONTROLLER
PERSONAL MESSAGE CENTER
VERY HIGH ACCURACY, VARIABLE VOLTAGE REFERENCE, A
STRESS TESTER SPIKES 120V AC INPUTS [AC.]
MOSFET AND OSCILLATOR COMPOSE RELAY [MOSFET.]
INTERFACE REDUCES TIME FOR MULTICHANNEL SERIAL OUTPUT
AUTOMATIC CAR ALARM
AUTO VIM (PART 2) SMART POWER SUPPLY FOR EVERY BENCH [PS.]
INTRODUCING ELECTRONICS (PART 3)
INTERFACING WITH C (PART 2) THE SECOND PART OF HOWARD HUTCHINGS' SERIES ON C FOR ELECTRONICS E
DATA COMPRESSION IN MICROPROCESSOR-BASED DATA ACQUISITION SYSTEMS [UP./DAS.]
MOTOR-SPEED CONTROLLER CORRECTION (LLL)
LET'S BUILD OUR OWN VIDEO SCRAMBLER!
POWER CONTROLLER SWITCHES CYCLES
0.5-MHZ BANDWIDTH, VOLTAGE-PROGRAMMABLE CURRENT SOURCE FOR LIGHT-EMITTING-DIODE TESTING [0.5M
INCREASED ANALYTICAL PRECISION IN THE HOLLOW CATHODE DISCHARGE EMISSION SOURCE BY IMPROVED D
NICHROME AND RESISTANCE WIRE, EPOXY ENCAPSULATION MYTHS, SEMICONDUCTOR SUPPLIERS III, FCC PAR
SPECTRO-ACOUSTICS MODEL 217 PREAMPLIFIER [AMP.]
USE OF A MULTICHANNEL SCALING METHOD TO DETECT RADIOACTIVE SPECIES IN SPREAD MONOLAYERS, THE
USING EXISTING HOUSE WIRING FOR COMPUTER REMOTE CONTROL (PART 1)
BUILD A BURGLAR ALARM
HAM RADIO TECHNIQUES
SIMULATING IRON-CORED COMPONENTS
SIMPLE FREQUENCY INDICATOR
CONE PENETROMETER SYSTEM FOR MEASURING CONE INDEX AND STRESS RELAXATION, A
FLOP IN THE FLOPPY, A (LLL)
IMPROVED SCANNING TUNNELING MICROSCOPE FEEDBACK FOR INVESTIGATION OF SURFACES WITH MICRON-S
LARGE DISK CACHE USES FAST 64K-BY-1 STATIC RAMS TO SPEED DATA-BASE ACCESSES [64KX1/SRAM.]
SCRs MAKE SERVICEABLE RELAXATION OSCILLATORS [SCR.]
VERSATILE EPROM EMULATOR [EPROM.]
SCR CIRCUITS/REPLACEMENT GUIDE [SCR.]
CIRCUIT SPECIAL OUR COLLECTION OF VARIOUS CIRCUITS, AUDIO, DIGITAL, GAMES AND MORE.
PORTABLE, CONTINUOUSLY OPERATING FOUCAULT PENDULUM
LASER POWER-PER-LINE ANALYZER
INTERFACES AND PROGRAMS FOR CLASSROOM EXPERIMENTS IN BIOLOGY
MUTUAL INDUCTANCE BRIDGE FOR LOW-TEMPERATURE THERMOMETRY AND SUSCEPTIBILITY MEASUREMENTS
SOUPING UP THE TRIODE VACUUM TUBE
NEW TECHNIQUE FOR AUTOMATIC C-V AND G-V MEASUREMENTS, A

THYRISTOR CIRCUITS

ANALYSIS OF THE EFFECTS OF SHUNT CAPACITANCE ON THE PERFORMANCE OF PULSE MODULATORS [PM.]

MICROPROCESSOR-CONTROLLED LIGHT-EMITTING DIODE DARK ADAPTOMETER [UP./LED.]

PLD STATE MACHINES CUT CONTROLLER DESIGN TIME [PLD.]

BUILD AN EPROM PROGRAMMER [EPROM.]

BUILD THE EMULO-8

BUILD AN INTELLIGENT EPROM PROGRAMMER [EPROM.]

BUILD A WORKSTATION THAT DISPLAYS A GREATER VARIETY OF CHARACTERS

MAKING ALL THE PIECES FIT

SIMPLE DIPSTICK CRYOSTAT WITH VERSATILE TEMPERATURE CONTROLLER FOR HIGH THERMAL STABILITY

TIMING DATA TRANSFER

CROSS-POLLINATING THE APPLE II [2]

COOLED LOW-NOISE BOLOMETER PREAMPLIFIER [AMP.]

VARIABLE-DUTY-CYCLE CIRCUIT CONTROLS VALVE MIXER

CURRENT "FOLDBACK" PROTECTS POWER SUPPLY & LOAD [PS.]

CPU AND PERIPHERALS CONVERSE VIA SIMPLE SERIAL PARTY LINES [CPU.]

QUARTZ CRYSTALS AND APERIODIC OSCILLATORS IN RF SYSTEMS [RF.]

ADD A DIGITAL READOUT TO THE "POOR MAN'S SPECTRUM ANALYZER"

MONITORING THE AURORA ELECTRONICALLY

LARGE SIGNAL TESTING OF FUSIBLE LINKS

EQUIPMENT TO CONDITION INSPIRED AIR OVER A WIDE TEMPERATURE AND HUMIDITY RANGE FOR A HYPERVEN

LOW POWER PHOTOMULTIPLIER BASE CIRCUIT

CW AND THE APPLE II [CW./2]

UP-BASED DECODER ORCHESTRATES BAR-CODE FUNCTIONS [UP.]

ZX-EPROMER [EPROM.]

ON-LINE DATA ACQUISITION SYSTEM FOR VECC [DAS.]

SCAN THE BAR CODE SCENE WITH YOUR OWN READER

REAL-WORLD CONTROL (PART 1)

READING HARD SECTOR DISKS

ANALOG TO DIGITAL CONVERTERS (PART 2) [ADC.]

READER INTERACTIVITY CONTINUES

MEASUREMENT OF PRESSURE AT THE WAVY GAS-LIQUID INTERFACE

CHARACTER GENERATION EXPERIMENT FOR A COMPUTER LOGIC DESIGN COURSE

STATE/CYCLE COUNTER FOR 8080 PROCESSORS

GAASFET PREAMP SEQUENCER (LLL) [GAASFET./AMP.]

HYBRID MICROELECTRONICS LABORATORIES IN ENGINEERING SCHOOLS

ROBOT-AIDED-LEARNING (RAL) PROJECTS CONCERNING STUDY OF FINITE STATE MACHINES

OSCILLOSCOPE TO PRINTER INTERFACE

WIDEBAND ELECTROMECHANICAL STIMULATOR

FDDI DUAL ATTACHMENT STATION ON A PC-AT INTERFACE CARD [PC.]

INEXPENSIVE MARKER GENERATOR CALIBRATE AND STAY IN BAND.

ELECTRONIC MAINS SWITCHING

FEEDBACK SYSTEM TO CONTROL BLOOD FLOW IN DOG LUNG LOBES, A

ELECTRONIC STRAIN GAGES

SPECIAL CONTROLLER FOR THE BSR X-10 ADAPTS AN ENVIRONMENTAL CONTROL SYSTEM INTENDED FOR THE

DIGITAL PULSE-TRAIN SWITCHES

DIGITAL CORRELATOR WITH BLINKER FACILITY, A

LOGIC GATES AND DERBYS

BUILD THE TVT-6: A LOW-COST DIRECT VIDEO DISPLAY (PART 1) [TV.]

BUILD IT YOURSELF

BRING LERNER FILTERS UP-TO-DATE: REPLACE PASSIVE COMPONENTS WITH OP AMPS [OA.]

UNITY POWER-FACTOR CONTROLLER FOR A SYNCHRONOUS MOTOR [PF.]

BUILD THIS VERSATILE LOGIC PROBE

FLIP-FLOPS AND LATCH CIRCUITS (PART 2) PRACTICAL FLIP-FLOP AND LATCH CIRCUITS TO BUILD, TEST, AND USE

BUILD YOUR OWN EPROM PROGRAMMER [EPROM.]

SPICE BREADBOARDS ARE GIVING WAY TO PC-BASED CIRCUIT SIMULATION. [PC.]

NOISE-RESISTANT TRIGGERING SCHEME FOR CAROTID-ARTERY PRESSURE

RFI MEASUREMENTS USING A HARMONIC COMB GENERATOR [RFI.]

SWITCHING OSCILLATOR

SOLID STATE MARKER GENERATOR

MILLIMETRE WAVE SPECTRA FOR SOLID SAMPLES IN PULSED MAGNETIC FIELDS

ROLE OF THE AMPLIFYING GATE IN THE TURN-ON PROCESS OF INVOLUTE STRUCTURE THYRISTORS [AMP.]

VOLTAGE POLARITY RELAY - OPTIMAL CONTROL OF ELECTROCHEMICAL UREA OXIDATION

COMPUTER CONTROLLED IC TESTER (PART 3)

CAMAC INTERFACE FOR DIGITALLY RECORDING INFRARED CAMERA IMAGES [IR.]

SIMPLE FEEDBACK SYSTEM TO KEEP THE FLUX FROM AN X-RAY DOUBLE MONOCHROMATOR CONSTANT, A

SIMPLE IMPLEMENTATION OF THE 'CURRENT INTEGRATION' METHOD, A

SIMPLE LATCH IS ALSO UNIVERSAL

CAMAC TIMING MODULE FOR THE USE WITH HIGH ENERGY RESOLUTION DETECTORS, A

CONTROL YOUR ENVIRONMENT WITH THE ATARI 400/800

CONFIGURE A GENERAL-PURPOSE UC FOR FAST, ECONOMICAL IC TESTING

TUNING INDICATOR FOR RTTY AND PACKET RADIO [RTTY.]

CENTRONICS-TYPE MICROCOMPUTER PARALLEL INTERFACE TO OLIVETTI PRAXIS TYPEWRITERS, A

SONIC DEFENDER, THE

MINI-KEYER, THE (LLL)

TWO INVERTERS AND A CRYSTAL ASSURE OSCILLATOR START [2]

PROGRAMMABLE POWER-UP FREQUENCY FOR THE HEATH VF-7401 TWO METER TRANSCEIVER [2M]

PHOTOCONDUCTIVITY NULL APPARATUS FOR THE DETERMINATION OF MINORITY CARRIER LIFETIME

APPLE IIE KEYBOARD MODIFICATION [2/MOD.]

APPLY SQUARE WAVES TO SIMPLIFY MEASURING FREQUENCY RESPONSE

VERSATILE LOGIC PROBE DISPLAYS FOUR MODES [4]

PARALLEL PRINTER BUFFER: SET YOUR COMPUTER FREE

EPROM SIMULATOR, AN [EPROM.]

MORSE DECODER

PORTABLE DIGITAL RECORDING SYSTEM FOR LOW-COMPLEXITY ENVIRONMENTAL SIGNALS: WIND VELOCITY MEASUREMENT

VERSATILE BENCH POWER SUPPLY [PS.]

EPROM SIMULATOR FOR INSTRUMENTATION, AN [EPROM.]

VERY WIDE-BAND FM GENERATOR, A [FM.]

CURRENT-CONVEYOR RC OSCILLATOR [RC.]

WORDS-PER-MINUTE READOUT FOR THE DELUXE MEMORY KEYER

EPROM PROGRAMMER FOR APPLE II [EPROM./2]

FIRMWARE CARD

CURRENT FOLLOWERS ADAPTABLE UNIVERSAL OP-AMP CAN BE USED IN ANY OF FOUR BASIC CONFIGURATIONS

SERIAL TO PARALLEL DATA CONVERTOR

AIR SAMPLER WITH MASS FLOW RATE MEASUREMENT AND TOTAL VOLUME PRESELECTION

FURNACE FIRMWARE PROJECT, THE PROCESS CONTROL ON THE HOME FRONT

PARALLEL-PORT EPROM PROGRAMMER, A (PART 1) LETS YOU PROGRAM EPROMS THROUGH THE PARALLEL PORT

WIRELESS CAMCORDER MICROPHONE

PARALLEL EXPANDER FOR THE PC, A [PC.]
DESIGN OF A LOGIC CIRCUIT FOR MICROPROCESSOR RECOVERY FROM A POWER FAILURE AND A TRANSIENT F
CUSTOMIZING IMAGE PROCESSOR CHIPS WITH PLDS [PLD.]
INSTRUMENTATION TO MEASURE THE OIL THICKNESS ON A WAVY WATER SURFACE
TESTER CHECKS FUNCTIONALITY OF STATIC RAMS [SRAM.]
OPTOELECTRONIC VERSION OF THE "MONKEY-AND-HUNTER" DEMONSTRATION
ACTIVE FILTER IMPROVES MORSE CODE READABILITY
INTERFACE FOR F.M.-RECORDING OF AND DIGITAL COMPUTING ON THE PHOTODIODE PULSE TRAIN FROM THE U
STUN-GUN ERRORS (LLL)
EQUAL-PULSE-WIDTH MODULATION CONTROL STRATEGY FOR AN AC TO DC CONVERTER [PWM./AC./DC.]
NEW, IMPROVED PRINTER ADAPTER, A
LOW COST CORRELATOR EMPLOYING A PERSONAL COMPUTER, A [PC.]
TRY THIS VERSATILE CW SHAPER [CW.]
FLASHER
MODIFIED FOUCAULT PENDULUM FOR A CORRIDOR EXHIBIT, A [MOD.]
WEEKENDER, THE
USE SERIAL EEPROMS TO SIMPLIFY DESIGN TASKS AND HOLD DOWN COSTS [EEPROM.]
LOGIC CIRCUIT TESTS WIRING ASSEMBLIES
LOGIC PULSER
BUG-OFF: THE POPULAR ELECTRONICS(R) PEST REPELLER
BUILD THE BIOBOX
TAIL-BITING ONE-SHOT KEEPS CAR-DOOR LIGHT ON [1]
BRITISH HEE-HAW SIREN
UBIQUITOUS 555, THE
BUILD AN ELECTRONIC DARKROOM TIMER BUILD THIS SIMPLE CIRCUIT AND LET IT WATCH THE CLOCK FOR YOU
BUILD A HOLIDAY-LIGHT TESTER
MULTICELL SPINNING DROP INTERFACIAL TENSIO METER
SIMPLE X-RAY ALIGNMENT MONITOR
SENSITIVE AND INEXPENSIVE SUSCEPTOMETER FOR THE STUDY OF HIGH-TEMPERATURE SUPERCONDUCTORS
FINALLY, A VIDEO SIGNAL!
CONSTRUCTION AND ALIGNMENT OF A COMPACT WAVELENGTH METER FOR CW LASERS [CW.]
TWO 8'S AND 9'S [2]
PROTECT YOUR AIR CONDITIONER WITH A "COMPRESSOR GUARD"
CMOS TIMER EASES BATTERY DEMANDS [CMOS.]
GOOD KNIGHT (LLL)
BURGLAR ALARM FOR YOUR CAR
VERY FLEXIBLE RIPPLE TANK APPARATUS
CORRECTION (LLL)
VERSATILE PULSE GENERATOR
VERSATILE, LOW-COST LOGIC PROBE, A
CORRECTED DESIGN IDEA (LLL)
MORE ON THE MACRO SCRUBBER (LLL)
FIRE ALARM
OUR OSCILLOSCOPE IS SHAPING UP NICELY.
RESPONSE LINEARIZATION OF A DIODE DETECTOR TYPE RADIO FREQUENCY ELECTRIC FIELD PROBE [RF.]
DESIGNER'S NOTEBOOK THE HALL EFFECT
DESIGNING WITH LOW COST FIBRE OPTIC LINKS
AUTOMATIC TR SWITCHING FOR THE KENWOOD SM-220 MONITOR SCOPE [TR.]
NOTES ON TELEFAX

DEVICE FOR CALIBRATING HOT-WIRE PROBES AT LOW VELOCITIES, A
HOW TO BUILD A 2 AND 10 METER REPEATER SYSTEM ON A SHOESTRING BUDGET [10M]
HOW TO SELECT A DATA RECORDER
DIY VOR GENERATOR
GO FORTH INTO THE WORLD
PRACTICAL SPREAD SPECTRUM: A SIMPLE CLOCK SYNCHRONIZATION SCHEME
ACCURATE CORONA DETECTOR CALIBRATOR
FREQUENCY-SCANNING MARGINAL OSCILLATOR FOR ION CYCLOTRON RESONANCE SPECTROSCOPY [ICR.]
DIGITAL POT SIMULATES STRAIN GAUGE
BUILD A LOW-COST EPROM ERASER [EPROM.]
CIRCUIT AND SOFTWARE MONITOR UP PROGRAMS [UP.]
FORTH COMPUTER (PART 1) WITH APPLICATIONS RANGING FROM VIDEO GAMES TO RESEARCH AND PROCESS
TEST INSTRUMENTS AND MORE!
SOUNDS GOOD TO ME
EVER THE TWAIN SHALL MEET
DIGITAL INTERFACE FOR PHASE CONTROL OF PTS-300 SYNTHESIZERS, A
FILAMENT INRUSH-CURRENT LIMITER FOR LINEAR AMPLIFIERS [AMP.]
PROGRAMMABLE TV SYNC SIGNAL GENERATOR, A [TV.]
WORLD'S CHEAPEST IC TEST PROBE
PERSONAL SECURITY ALARM, A
IRREVERSIBLE WALL MOTION IN INDUCTIVE RECORDING HEADS
ERRATUM: QUARTZ CRYSTAL MICROBALANCE THIN-FILM DISSOLUTION [REV.SCI.INSTRUM.60,489(1989)] (LLL)
DESIGN OF A TIME DOMAIN REFLECTOMETER, THE [TDR.]
INTRODUCING THE PS5 - A DEPENDABLE, 5-A PORTABLE POWER SUPPLY [5A/PS.]
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FIELD PORTABLE SCANNER FOR ANALYSIS OF THIN LAYER CHROMATOGRAPHY PLATES BASED ON MULTIWAVELENGTH
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BUILDING BLOCK RADIO
BUILD THE POOR MAN'S STROBE
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'AM RAD' A WIDE RANGE TRANSISTORISED SIGNAL GENERATOR [AM.]
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LINEAR V-F CONVERTER CHIP INVADES MODULE TERRITORY [VFC.]
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FIELD-FREQUENCY LOCKED X-BAND OVERHAUSER EFFECT SPECTROMETER
OPENING-UP YOUR GATES
HIGH FREQUENCY STRAY-IMMUNE CAPACITANCE TRANSDUCER BASED ON THE CHARGE TRANSFER PRINCIPLE,
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CORRECTION (LLL)
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SCR PREREGULATOR FITS ANY POWER SUPPLY [SCR./PS.]
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AC AMPLIFIER PASSES LOW FREQUENCIES [AC./AMP./LF.]
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CURRENT REGULATOR FOR HIGH-POWER CW GAS LASERS [CW.]
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METHOD FOR MEASURING SUTURE TENSION IN SURGERY
DOT'S WHAT'S MISSING (LLL)
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RF SWITCHING [RF.]
FM RADIO: PLAYING A BETTER TUNE [FM.]
OP-AMP APPLICATIONS [OA.]
250-VOLT BENCHTOP POWER SUPPLY [250V/PS.]
TRAIN TRANSFORMER POWER SUPPLY (LLL) [PS.]
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READOUT AND TRIGGER ELECTRONICS FOR THE TPC VERTEX CHAMBER [TPC.]
ANALOGUE I/O STRATEGIES FOR TRANSPUTERS [IO.]
START WITH A DEAD VCR [VCR.]
WHAT'S ALL THIS QUAKEY SHAKEY STUFF, ANYHOW?
DUAL ZERO-CROSSING DETECTION CIRCUIT FOR FRACTIONAL FRINGE INTERFEROMETRY, A [ZCD.]
CTCSS, FAST AND CHEAP LOW-COST PL TONE GENERATOR.
MICROPROCESSOR-BASED SEMICONDUCTOR SOLAR RADIOMETER, A [UP.]
RADAR DETECTOR TO MICROWAVE RECEIVER CONVERSION LISTEN ON 10 GHZ, CHEAP. [10GHZ]
REDUCE HEATING COSTS WITH THE FUEL MISER
FREQUENCY-MODULATED COIL SENSOR FOR MAGNETIC SUSPENSIONS [FM.]
PRECISION VOLTAGE TO SINGLE-ENDED CURRENT SOURCE SIDESTEPS CMRR PROBLEMS [CMRR.]
CHECK YOUR SWR...WHILE YOU TALK [SWR.]
FEEDBACK (LLL)
FEEDBACK (LLL)
ELECTRONIC FIREFLIES
OFFBEAT METRONOME
HIGH-POWER FET AUDIO AMPLIFIER (PART 2) [FET./AMP.]

EMG INTEGRATOR FOR MUSCLE ACTIVITY STUDIES IN AMBULATORY SUBJECTS, AN [EMG.]
MAGNETIC STIRRER WITH NO EXTERNAL MOVING PARTS
HIGH PERFORMANCE AUTOMATIC ALIGNMENT AND POWER STABILIZATION SYSTEM FOR A MULTIKILOWATT CO
BUILD A FIELD DISTURBANCE SENSOR FOR SECURITY
TWIN CONTROLLER ICS POWER SUBSCRIBER INTERFACE FOR DIGITAL PHONE SYSTEMS
SWITCHING IMPROVES REGULATOR EFFICIENCY
BUILD A VOLTAGE ADAPTER FOR YOUR CAR
TAKE THE TWO-TONE CHALLENGE [2]
PULSE GENERATOR VARIES FREQUENCY, DUTY CYCLE
FILTER CIRCUITS
INMOS COLOUR LOOK-UP TABLES
CONSTANT-DENSITY RECORDING COMES ALIVE WITH NEW CHIPS
TEN-ELEMENT BAR GRAPH DISPLAYS ANALOG SIGNALS IN DIGITAL FORM [10]
DANGER! - 1,000,000 OHMS! [1000000OHM]
SENTRY STROBE ALERT SYSTEM, THE
CAPILLARY GAS FLOW CONTROL SYSTEM, A
IMPLEMENTATION OF OPTIMAL TRAJECTORY CONTROL OF SERIES RESONANT CONVERTER
MORSE READOUT FOR YOUR DIGITAL DIAL, A
VERY SENSITIVE LF OR HF FIELD-STRENGTH METER, A [LF./HF.]
CURRENT SINK PROTECTS STATUS LAMP
BAR CODES IN THE WORKPLACE: PUTTING A SYSTEM TOGETHER
CAR CLOCK POWER SUPPLY (12-VOLT TO 5-VOLT DC-DC CONVERTER) [PS./DC./12V/5V]
EARLY-WARNING CAR BATTERY-DRAIN INDICATOR, AN
CURRENT SOURCE HAS PROGRAMMABLE TC [TC.]
VERSATILE BENCH TOP POWER SUPPLY [PS.]
BAR-GRAPH VOLTMETER FOR YOUR CAR
CORDLESS PHONE LINK, THE
CIRCUIT RESETS CMOS UP [CMOS./UP.]
CURRENT LIMITER USES LOW POWER
SERIAL PORT CONTROLS PARALLEL DEVICE
THREE-CHANNEL CW EMERGENCY TRANSCEIVER, A (PART 2) [3/CW.]
VARIABLE PHASE SHIFTER AND BPSK MODULATOR, A [PSK.]
VARIABLE VOLTAGE REGULATOR
DIRECT METHOD FOR MEASURING THE SPEED OF SOUND
PERSONAL CASSETTE AMPLIFIER A BUDGET-PRICED 2W AMPLIFIER ADDS A SPEAKER TO CASSETTE PLAYERS.
CURVATURE-CORRECTED THERMOMETER
PARALLEL-TO-RS232-C CONVERSION
CORRECTIONS (LLL)
MORE ON DIRECT CONVERSION RECEIVERS
PERIODIC POWER UP SUPPLANTS WATCHDOG TIMER
DESIGN AND BUILD A TRANSPONDER USING DSP TOOLS (EDN'S DSP PROJECT - PART 3) [DSP.]
DESIGN CONSIDERATIONS FOR A HARDWARE-REFRESHED MEMORY CARD FOR THE MC68000
DESIGNING POWER-SUPPLY CIRCUITS [PS.]
COSMIC RAY TRIGGER CIRCUIT FOR LARGE SOLENOIDAL PARTICLE DETECTORS
RESISTOR-BASED SERVO REPLACES MECHANICAL GOVERNORS IN MOTORS
BASIC ELECTRONICS #2A
INTERFACING DATA CONVERTERS AND MICROPROCESSORS [UP.]
SMT PROJECT: LIGHT METER [SMT.]
GET HARMONICS FROM COMPARATOR ADDER

EMULATE AN EPROM ELEPHANT [EPROM.]
TOUCH-TYPE CW - THE TRS-80 WAY [CW.]
NOVEL BIAS DESIGN FOR COMPLEMENTARY AMPLIFIERS, A [AMP.]
POWER-SUPPLY CIRCUITS [PS.]
LOW-COST SERVO ACCELEROMETER
LOW-HARMONIC S.C.R. VOLTAGE CONTROLLER ZERO-CROSSING SWITCHING AND PROGRAMMABLE BURST MOD
RAY MARSTON TAKES AN IN-DEPTH LOOK AT NATIONAL SEMICONDUCTOR'S LM381/LM382/LM387 RANGE OF DUA
1000-V, 300-PS PULSE-GENERATION CIRCUIT USING SILICON AVALANCHE DIODES [1000V/300PS]
TRANSISTORS: A BIASED APPROACH (PART 2)
TRANSISTORIZED MARGINAL OSCILLATOR NMR DETECTOR WITH IMPROVED PERFORMANCE [NMR.]
MICROPROCESSOR-BASED VECTOR GRAPHIC SYSTEM FOR MICROCOMPUTERS, A [UP.]
PICTURE PHONE (PART 4)
OSCILLATOR FORMS POSITION TRANSDUCER
TECHNICAL TALK
MICRO ATV TRANSMITTER (LLL) [TV.]
MODIFYING A CB-BOARD SYNTHESIZER FOR AMATEUR USE [MOD./CB.]
MODIFIED PULSED GRADIENT TECHNIQUE FOR MEASURING DIFFUSION IN THE PRESENCE OF LARGE BACKGROU
UPDATES (LLL)
PRECISION STRESS MEASUREMENTS IN SEVERE SHOCK-WAVE ENVIRONMENTS WITH LOW-IMPEDANCE MANGA
EMERGENCY POWER SOURCE FOR AN ION VACUUM PUMP
ELECTRON SCATTERING FACILITY AT THE SACLAY 600 MEV LINEAR ACCELERATOR, THE [600MEV]
PRECISION DC CURRENT SOURCES (PART 2) IN CURRENT SOURCES, TWO AMPLIFIERS CAN BE BETTER THAN O
BUILD YOUR OWN MICRPHONE EQUALIZER
PRINCIPLES AND BUILDING OF SSB GEAR, THE (PART 2) [SSB.]
CLICK AND POP FILTER FOR YOUR STEREO (PART 2)
SPICE EXTENSIONS DYNAMICALLY MODEL THERMAL PROPERTIES
DRIVE-TIME SWLING [SW.]
5 KV NANOSECOND-RISETIME PULSE GENERATOR GATING AN ELECTRO-OPTICAL SHUTTER, A [5KV]
SOLID-STATE RELAY [SSR.]
HOME-BREW PROJECTS TEACH, AS WELL AS ENTERTAIN
SIMPLE TEST FOR 13C MULTIPLICITY ON A VARIAN XL-100, A
SIMPLE SOLUTION TO POWER SUPPLY RIPPLE, A [PS.]
SIMPLE LOW-NOISE POWER SUPPLY FOR ELECTRICAL TRANSIENT MEASUREMENTS [PS.]
COMPACT ELECTRON-BEAM SOURCE FOR FORMATION OF NEUTRAL BEAMS OF VERY LOW VAPOR PRESSURE M
LUNCHBOX, THE THIS LUNCH PACKS A PUNCH.
OOOOPS! (LLL)
SHORT CIRCUIT (LLL)
TWO-DIMENSIONAL DRIFT CHAMBER, A [2]
IMPROVED METERING FOR THE LINEAR, SELF-CALIBRATING OHMMETER (LLL)
CAR RADIO LATCH
COR FOR THE HA-201 AMPLIFIER, A [AMP.]
PORTABLE QRP STATION THE EASY WAY, A
WIRELESS IDLE TACHOMETER FOR AUTO TUNE-UPS, A
HARMONIC GENERATOR
SWR INDICATOR [SWR.]
MARKER PROCESSOR FOR SWEEP MEASUREMENTS
TERMINAL TERMINAL UNIT, THE [TU.]
EARTH FAULT MONITOR CIRCUIT
NMR PROBE WITH SHORT RECOVERY TIME [NMR.]

Sheet1

VARIABLE-GAIN AMPLIFIER USES MATCHED FETS [AMP./FET.]
CURRENT-TO-VOLTAGE AMPLIFIER WITH A HIGH VOLTAGE ISOLATED INPUT [AMP./HV.]
EARTH TUNER
VARIABLE CRYSTAL OSCILLATOR, THE
TESTER FOR COIL INDUCTANCE, A
DESIGNING AND BUILDING SIMPLE CRYSTAL FILTERS
INSTRUMENTATION FOR CENTRIFUGAL MODELING OF UNDERGROUND STRUCTURES SUBJECTED TO BLAST LOADING
EASY MONITOR RECEIVER FOR 2 METERS [2M]
FAST VALVE FOR THE NATIONAL SYNCHROTRON LIGHT SOURCE
DESIGN, PERFORMANCE, AND THEORY OF LONG THERMIONIC DIODES
BASIC ELECTRONICS #4A
FAST-ACTING MODEM PROTECTION
INTELLIGENT IDIOT LIGHT
BATTERY POWER SUPPLY [PS.]
INTERFACING AN XRF SPECTROMETER AND COMPUTER SYSTEM TO AID DATA MANAGEMENT
SOUND TRACK
SEVERAL NEW SOUND-GENERATOR IC'S
NOVEL DIRECT-READING HFE TESTER, A
HOW TO BUILD A SIMPLE MICROPHONE INTERFACE/TEST OSCILLATOR UNIT
HOW TO DESIGN MICROPROCESSOR-BASED PROJECTS (PART 2) [UP.]
HOW TO BUILD AND USE A VHF WATTMETER [VHF.]
FAX/MODEM PROTECTOR
LOGIC LEVELS AND MORE
SOLID STATE RELAY [SSR.]
TELEPHONE SCRAMBLER
SERIAL-TO-PARALLEL OUTPUT CONVERSION
OPTICALLY COUPLED ELECTRICAL SAMPLING SYSTEM WITH 4-GHZ BANDWIDTH [4GHZ/BW.]
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BEAM PROFILE MONITOR SYSTEM FOR THE BEVALAC TRANSFER LINE
LEAKAGE CURRENT AND CAPACITY VARIATION WITH TEMPERATURE IN SILICON DETECTORS OF A SPACE CALORIMETER
MEASUREMENT OF ERYTHROCYTE VELOCITY BY USE OF A PERIODIC DIFFERENTIAL DETECTOR
ROCKWELL-COLLINS KWM-380 TRANSCEIVER, THE
MICROCOMPUTER-BASED MUSCLE RELAXATION MONITOR AND CONTROLLER FOR CLINICAL USE
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ARGUS MICROVERTEX DRIFT CHAMBER, THE
HIGH-SPEED ULTRASENSITIVE INSTRUMENTATION FOR MYOFIBRIL MECHANICS MEASUREMENTS
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APRIL 1 BUILD THIS SPOT A MATIC
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AC POWER MEASUREMENT LEARN THE PRINCIPLES OF MEASURING POWER. [AC.]
TV-RATE HISTOGRAM EQUALIZATION PROCESSOR FOR THE ELECTRON MICROSCOPE [TV.]
3456 MHZ LINEAR TRANSVERTER, A [3456MHZ]
ANALYZER OF CENTRAL RESPIRATORY PHASES, AN
STABILIZED FLOW IN CAPILLARY-TYPE CLOSED VISCOMETER
TRACKING SOVIET TELEVISION SATELLITES [TV.]
PEAK DETECTOR-MEMORY SYSTEM FOR ELECTROPHYSIOLOGICAL SIGNALS
ONE CHIP CONTROLS BOTH HARD AND FLOPPY DISKS [1]
GREY LEVEL LINEARISING CIRCUIT FOR COMPUTER-INTERFACED DISPLAY DEVICES
REFRACTIVE INDEX GRADIENT (RING) DIAGNOSTIC FOR TRANSIENT DISCHARGES OR EXPANSIONS OF VAPOR O
HIGH-RESOLUTION THIRD-SOUND RESONATOR [3RD]
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RIGID FAST-RESPONSE THERMOMETER FOR ATMOSPHERIC RESEARCH, A
NOISE IMMUNITY OF CMOS INTEGRATED CIRCUITS [CMOS.]
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TELEPHONE ADD-ON NO MORE WRONG NUMBERS!
MULTICHANNEL DATA ACQUISITION AND PROCESSING SYSTEM FOR LASER SPECTROSCOPIC EXPERIMENTS, A
PLL COMPARES CAPACITORS [PLL.]
COMPRESSED AMPLIFIER IMPROVES DYNAMIC RANGE [AMP.]
SEMICONDUCTOR NOISE ANALYSER MEASURES VOLTAGE AND CURRENT NOISE DENSITIES OF DEVICES FROM
HANDY TESTER CHECKS CLOCK SYNC
PROPORTIONAL CHAMBERS FOR VERY HIGH COUNTING RATES BASED ON GAS MIXTURES OF CF4 WITH HYDRO
ISOTOPE DILUTION MASS SPECTROMETRY OF CHOLESTEROL IN SERUM [MS.]
IMPROVED MICROELECTRODE RESISTANCE METER, AN
APPLE ANALOG-TO-DIGITAL CONVERSION IN 27 MICROSECONDS [ADC./27US]
EXPERIMENTAL ROBOT VISION
IMPLEMENTATION OF A VHF BROAD-BAND FIR ADAPTIVE FILTER [VHF./FIR.]
DIRECT READING, NOISE IMMUNE RESISTANCE COMPARATOR FOR MEASUREMENT OF TEMPERATURE AND PRE
CURRENT OUTPUT PRESERVES IC'S ACCURACY
PORTABLE TRANSFER DIGITAL DOSEMETER FOR BEAM OUTPUT MEASUREMENTS WITH X AND GAMMA RAYS, EL
LASER SYNCHRONIZER FOR PARAMETRIC FREQUENCY CONVERSION SYSTEMS
NTSC-TO-RGB CONVERTER PUT A TV IN YOUR VGA MONITOR. [NTSC./RGB./TV.]
FAST MULTILINE LOW-Z IMPURITY IMAGING DIAGNOSTIC FOR FLUCTUATION AND PARTICLE CONFINEMENT STUD
GAS-STREAM HEATER TO CONTROL LOCAL SKIN TEMPERATURE UNDER EVAPORATIVE SWEAT CAPSULES, A

LASER (PART 2) CONTROL UNIT LSI7000 (CIRCUIT DESCRIPTIONS)

GATE/POWER DRIVERS

ANTISATURATION DESIGN TECHNIQUES IMPROVE TRANSISTOR SWITCHING SPEED

X-TERMINALS EVOLVE TO NEXT LEVEL: NO ENCLOSURE BOX

DOUBLE-NOTCH FILTER SIMPLIFIES DISTORTION ANALYSIS

NEUTRON-INDUCED LATCH-UP IMMUNITY IN METAL GATE CMOS INTEGRATED CIRCUITS [CMOS.]

BEVY OF SCSI ADAPTERS BOLSTER PC SYSTEMS [SCSI./PC.]

NEW TWO-THREE-PHASE VOLTAGE-CONTROLLED OSCILLATOR, A [2/3/VCO.]

LOW-COST TRUE-RMS CHIPS ALSO COMPUTE AC AVERAGE [RMS./AC.]

POWER SUPPLY WITH TEMPERATURE AND $\sqrt{2}$ LEVEL TEST CONTROLLED BY A PC IBM-XT FOR A HP-GE DETECTOR

NEW SYSTEM FOR MEASURING LOW DC CURRENTS, A [DC.]

LOW-COST RMS/DC ICS UPGRADE AC MEASUREMENTS [RMS./DC./AC.]

HF TRANSISTOR AMPLIFIER DESIGN (PART3) THE THIRD AND LAST PART OF AN INVESTIGATION INTO PRACTICAL

50-350 MHZ, 50 OHM AMPLIFIER WITH 24DB GAIN, A [350MHZ/50OHM/AMP.]

MICROPOWER OP AMP OFFERS SIMPLICITY AND VERSATILITY [OA.]

RADIO FREQUENCY IMMUNITY OF SPEECH TRANSMISSION ICS [RF.]

WIDEBAND ANTENNA AMPLIFIER [AMP.]

EVEN CHEAPER CAPACITANCE METER SUITABLE FOR FAST TRANSIENTS, AN

DIGITAL CAPACITANCE METER

HIGH-PERFORMANCE AMPLITUDE AND PHASE DIGITIZERS AT 60 MHZ [60MHZ]

SELF-BIAS TECHNIQUE IMPROVES AMPLIFIER GAIN AND NOISE FIGURE [AMP./NF.]

SPLITTER BOARD FOR STREAMER TUBE READOUT AT THE SLD

SOLID-STATE LOW-VOLTAGE TESLA COIL DEMONSTRATOR, A [LV.]

SIMPLIFIED DC BRUSHLESS MOTOR CONTROL FROM A SERIAL BUS [DC.]

WINDOW AMPLITUDE DISCRIMINATOR WHICH REPRODUCES THE WAVEFORMS OF ACCEPTED ACTION POTENTIAL

WORLD'S SMALLEST 1200-BPS MODEM

INSTRUMENT TO MEASURE ABUNDANCE RATIOS OF TRANSIENT MASS SPECIES WITH A QUADRUPOLE MASS SPECTROMETER

INSTANTANEOUSLY ADAPTIVE DELTA SIGMA MODULATOR

INSIDE FUTABA'S ATTACK RADIO

VISITEL ON-THE-AIR A VISUAL PHONE DISPLAY YOU CAN INTERFACE WITH YOUR TRANSCEIVER.

PASSIVE REMOTE CONTROL, A

ACTIVE TUNABLE GROUP DELAY EQUALIZER, AN

AUTOMATIC GAS SAMPLER

INTERFACING A PULSED NITROGEN LASER WITH ELECTRO-OPTIC INSTRUMENTATION OF HIGHER FREQUENCY

FLAT-PANEL DISPLAYS A TUNABLE 60-HZ HUM FILTER [60HZ]

EVALUATING THE BEHAVIOUR OF PHASE-MODULATED MODEMS SENSITIVE TO AMPLITUDE AND PHASE TRANSIENTS

SECTION III. GASEOUS DETECTORS TEST OF A HIGH RESOLUTION DRIFT CHAMBER PROTOTYPE [3]

UNDERSTAND CAPACITOR SOAKAGE TO OPTIMIZE ANALOG SYSTEMS

PRELIMINARY RESULTS ON A POSITION SENSITIVE PARALLEL PLATE AVALANCHE COUNTER WITH A DISTRIBUTED

JFET-INPUT OP-AMP IC SETTLES 10V STEP TO $\pm 0.01\%$ IN 400 NSEC TYP [JFET./OA./400NS]

ELIMINATION OF A LOW FREQUENCY LARGE AMPLITUDE NOISE USING THE IMPROVED BASELINE RESTORER EMULATOR

BUILD THE TONE PROCESSOR

RELIABILITY STUDIES OF PLANAR SILICON DETECTORS

MULTI-TONE INTERMODULATION METER, A (PART 2) CONSTRUCTION

LINEARIZATION OF LASER-DIODE NONLINEARITY FOR BROADBAND ANALOGUE FIBRE-OPTIC COMMUNICATION

NONINVASIVE TISSUE REFLECTANCE OXIMETER, A AN INSTRUMENT FOR MEASUREMENT OF TISSUE HEMOGLOBIN

PHOTOVOLTAIC CELLS FOR LOW ENERGY X-RAY DOSIMETRY

BASELINE STABILIZER FOR ELECTROPHYSIOLOGY, A

DESIGN FAST-SETTLING CIRCUITS WITH FET-INPUT OP AMP [FET./OA.]

FASTBUS CABLE SEGMENT EXTENDER BASED ON TTL [TTL.]
FAST CHARGE INTEGRATING AND SHAPING CIRCUIT, A
DEVELOPMENT OF HARDWARE AROUND SILICON MICROSTRIP DETECTOR WITH 512 ELEMENTS
2000-A/1-MOHM POWER MOSFET'S IN WAFER REPAIR TECHNIQUE [2000A/1MOHM/MOSFET.]
USE MOTOR-DRIVE IC TO SOLVE TRICKY DESIGN PROBLEMS
COMMUTATING DIRECT CURRENT OUT OF A VACUUM INTERRUPTER WITH A GTO THYRISTOR [DC./GTO.]
SUPER-SENSITIVE GAS DETECTOR
GAS MONITORING TRANSDUCERS (PART 3) COMBUSTABLE GAS SENSORS
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POWER CONTROLLER FOR A WIND-TURBINE-DRIVEN TANDEM INDUCTION GENERATOR
CHARACTERIZATION SUMMARY FOR A RADIATION HARDENED 16KX1 SRAM [SRAM.]
BACKGROUND PLASMA LIGHT SUBTRACTION BY DELAY LINE TECHNIQUES FOR A THOMSON SCATTERING APPAR
RECORDING OF PHYSIOLOGICAL SIGNALS WITH DOMESTIC VIDEOTAPE STORAGE
WIDEBAND GAAS AMPLIFIER [GAAS./AMP.]
SUM AND BUFFER AMPLIFIER FOR LEAD-GLASS BARREL CALORIMETER IN THE TOPAZ DETECTOR [AMP.]
IMPROVED FAST INTEGRATOR FOR SMALL ION CURRENTS (1 FA-1 MA) [1FA/1MA]
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FAST, SMALL-SIGNAL RECTIFIER
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NOTCH FILTER AND FAST CURRENT AMPLIFIER FOR USE WITH TIME-RESOLVED QUADRUPOLE MASS SPECTROM
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MODULAR ARCHITECTURES BREAK I/O BOTTLENECK [IO.]
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SOLID-STATE SWITCHED SMALL TEA CO₂ LASER, A
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HOW TO BUILD AN INEXPENSIVE CASSETTE LEVEL INDICATOR
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CONSTRUCT A LOW-NOISE GAASFET PREAMPLIFIER FOR 420 MHZ [GAASFET./AMP./420MHZ]
MOSFET TRIGGER CIRCUIT FOR GROUNDED GRID THYRATRONs [MOSFET.]
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FINE-TUNING UP/UC CODE (PART 2) RESONANT CONVERTERS TEAM CONTROL THEORY AND CIRCUIT DESIGN [U
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SUPERCONDUCTORS FOR THE HACKER, AND MORE!

CIRCUIT MEASURES OP-AMP SETTLING TIME [OA.]
FOR COST/PERFORMANCE, PARTITION RISC SYSTEM ON BUS PARAMETERS [RISC.]
CAR WINDSHIELD-WASHER LOW-LEVEL INDICATOR
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LM1821S VIDEO IF PLL SYNCHRONOUS DETECTOR [IF./PLL.]
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OSCILLATOR COMPUTER-AIDED DESIGN PROCESS UTILIZES S-PARAMETER AND TIME-DOMAIN TECHNIQUES [CA
SECOND GENERATION TELETEXT AND VIEWDATA DECODERS [2ND]
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MODULAR RESOLUTION ENHANCER ADDS FOUR BITS TO 8-BIT ADCS [4/ADC.]
BREATH ALERT ALCOHOL TESTER
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ONE CHIP SCSI DRIVES BUSES, FIGHTS HIGH-CURRENT GLITCHES [1/SCSI.]
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HOW TO USE FLASH EPROMS IN YOUR OWN CIRCUITS [EPROM.]
PLAY A TUNE WITH THESE NEW IC'S
LEDS YOU'VE NEVER SEEN [LED.]
MODULATED-CONDUCTIVITY DEVICES REDUCE SWITCHING LOSSES
VME BUS APPLICATIONS CAN BENEFIT FROM 80386-BASED DESIGNS
DIGITAL POTENTIOMETERS SET BIQUAD FILTERS
LSI - THE KEY TO A HIGH-PERFORMANCE DTMF RECEIVER USING STANDARD FILTERS [LSI./DTMF.]
COMMUNICATIONS PROCESSOR EXPLOITS MULTIBUS II BANDWIDTH [2/BW.]
SIMPLE MINIATURE CAPACITATIVE POSITION TRANSDUCER, A
CONVERT FROM DOT AND BAR INDICATORS TO NUMERICAL READOUTS
TESTING TRANSISTORS
ANTENNA RELAY SEQUENCING
MOTOR CONTROL
IC SUPPORT FOR THE RS-232-C AND ITS DERIVATIVES
TV SERVICE CASE HISTORIES [TV.]
30 MHZ IF SYSTEM UPDATE FOR 10 GHZ TRANSCEIVERS (LLL) [30MHZ/IF./10GHZ]
TV SOUND I-F/LIMITER CHIP BECOMES ULTRASONIC DETECTOR [TV./IF.]
OP-AMP CIRCUITS [OA.]
12-BIT DAC, A FLOPPY DISK CONTROLLER CHIP, TWO UARTS, TWO FIFOS, AND A SPEECH/SOUND CHIP, A [DAC./2]
RS-232C LINES DRIVE CMOS CIRCUITS [CMOS.]
12-BIT SERIAL DAISY-CHAIN CMOS D/A CONVERTER, A [CMOS./DAC.]
100,000-MEGOHM-INPUT METER INDICATES STATIC ELECTRICITY [100000MOHM]
RS232 FOR SHARP POCKET COMPUTERS
I²C LED DISPLAY [LED.]
-48 V TO 5 V - WITH NO TRANSFORMER [48V/5V]
REAL-TIME VISUAL DISPLAY OF A HIGH-POWER LASER BEAM, A

MEASURE PHOTOVOLTAIC-DIODE RESISTANCE AT ZERO BIAS
TRANSISTOR ARRAY SQUARES CONTROL CURRENT
EVALUATION SYSTEM FOR MICROPROCESSOR-COMPATIBLE D/A CONVERTER [UP./DAC.]
TRACING PARTICLE SIZE DISTRIBUTION CURVES USING AN ANALOGUE CIRCUIT
ANALOG SUPERVISOR CHIP KEEPS MICROPROCESSOR OUT OF TROUBLE [UP.]
GRAPHICAL METHOD FOR THE EVALUATION OF SERIES RESISTANCE IN SOLAR CELLS
STABLE SINUSOIDAL DRIVER CIRCUIT FOR TUNING FORK CHOPPERS
CHARACTERIZATION OF A CHARGE-COUPLED DEVICE PHOTOARRAY AS A MOLECULAR ABSORPTION SPECTROPHOTOMETER
DUAL LIGHT-EMITTING DIODE SYNTHESIZES POLYCHROMATIC LIGHT [LED.]
EIA/TIA-562 TRANSCEIVER, DRAM CONTROLLER, IMPROVED FOUR-BIT MICROCOMPUTER, TEMPERATURE SENSORS
GRAPHICS LCD CONTROL FOR EMBEDDED APPLICATIONS [LCD.]
TRACEABLE AND NETWORK-READY MICROCONTROLLERS, NEW SYNTHESIZER CHIP, GUI ACCELERATOR, DC-TO-DC CONVERTER
SUB-PA IIB OP AMPS GRAB FOR NEW APPLICATIONS [OA.]
OSCILLATOR YIELDS BETTER MOUSETRAP
RECTIFY FULL WAVES UP TO 16-MHZ SIGNALS [16MHZ]
RECTIFIER CONVERTS WIDEBAND SINE WAVES
MICROPROCESSOR-CONTROLLED APPARATUS FOR IN VIVO ELECTROCHEMICAL MEASUREMENT [UP.]
ADC/DAC COMBINATION FINDS SQUARE ROOTS [ADC./DAC.]
BACKUP SUPPLY SUSTAINS PSEUDOSTATIC RAMS [SRAM.]
MICROCONTROLLER Q&A ANSWERS TO QUESTIONS POSED BY READERS
MODELING LIGHT-EMITTING DIODE DYNAMIC PRESSURE TRANSDUCERS [LED.]
AUDIO CONTROLS CHIP HAS TWO CHANNELS [2]
MODIFIED SCR FOR OPTICALLY ACTUATED TRIGGERING [MOD./SCR.]
DODGE VIDEO DAC AND SAVE POWER [DAC.]
PLD ADDS HYSTERESIS DIGITALLY [PLD.]
ADDING A RANGE SWITCH TO A DPM [DPM.]
UNDERSTANDING THE EDIF STANDARD
ONE TRANSISTOR SENSES, HEATS IN TEMPERATURE REGULATOR [1]
ELECTRON IMPACT EXCITATION AND UV EMISSION IN THE FRANCK-HERTZ EXPERIMENT [UV.]
CLEVER HEXADECIMAL DISPLAY CIRCUITS
ELECTRONIC CONTROL OF POWER TRANSFORMERS
FEEDBACK-STABILIZED FRACTIONAL FRINGE LASER INTERFEROMETER FOR PLASMA DENSITY MEASUREMENTS
OPERATIONAL AMPLIFIERS [OA.]
CHEMICAL FLOW RATE CONTROL IN INJECTION-TYPE SPRAYERS
ELECTRONIC SYSTEM FOR INVESTIGATION OF THE ELECTRICAL HYSTERESIS OF FERROELECTRIC THIN FILMS
PLETHYSMOGRAPH FOR LONG-TERM MEASUREMENTS OF VENTILATION IN UNRESTRAINED ANIMALS, A
ONE COAX CABLE CARRIES VIDEO AND POWER [1]
SPECTRUM ANALYSIS ON THE CHEAP
SPEED UP BASIC-52 PROGRAMS
KEEP IIC AND VICE CONSTANT
SOFTWARE DETECTION OF ECG BASELINE AND QRS-COMPLEX FOR CORONARY INTENSIVE CARE [ECG.]
DIFFERENTIAL TEMPERATURE INTEGRATOR
EFFECT OF SINUSOIDAL EXCITATION ON THE CHUA'S CIRCUIT
BUFFERING SCHEME DRIVES LARGE LCDS [LCD.]
LIGHT-EMITTING DIODES AS DYNAMIC PRESSURE TRANSDUCERS [LED.]
HIGH-IMPEDANCE OP AMP EXTENDS 555 TIMER'S RANGE [OA.]
DIGITAL PRESSURE GAUGE FOR YOUR CAR
EEG MEASUREMENT DURING ELECTRICAL STIMULATION [EEG.]
DIGITAL THERMOMETER (LLL)

MAGNETIC FIELD STABILIZER FOR NMR IMAGING SYSTEMS WITH RESISTIVE MAGNETS [NMR.]
DIGITAL-SIGNAL-PROCESSING TV DESIGNS ENHANCE PICTURE AND PRODUCT QUALITY [DSP./TV.]
DIGITALLY PROGRAMMABLE ACTIVE-C OTA-BASED OSCILLATOR [OTA.]
DIGITALLY PROGRAMMED HF UNIVERSAL ANALOGUE FILTER EASES FILTER DESIGN PROCESS [HF.]
DIGITAL MEASUREMENT OF THE POLAR AND RECTANGULAR FORMS OF IMPEDANCES
UPGRADING AN AUDIO SIGNAL GENERATOR
HIGH-VOLTAGE OP AMP PUTS OUT +-75 MA AT +-500 V [HV./OA./75MA/500V]
LIGHT TURNS ON THERMOMETER
LOGIC-ANALYZER INTERFACE ASSISTS IN 68030 PROGRAM DEBUGGING
HIGH-IMPEDANCE ELECTRONICS
HIGH-RESOLUTION COMPARATOR PROVIDES HIGH SPEEDS
DIGITAL PHASE METER
LIGHT EMITTING DIODE BASED FLOW-THROUGH OPTICAL ABSORPTION DETECTORS [LED.]
S/H AMP-ADC MATRIMONY PROVIDES ACCURATE SAMPLING [SH./AMP./ADC.]
TWIN REGULATORS DELIVER CONSTANT VOLTAGE AND CURRENT
BUILD YOUR OWN ANTENNA BRIDGE
AZIMUTH MEASUREMENT BY MEANS OF OPTICAL DETECTOR ARRAYS
BRIDGE BALANCE IN INTRACELLULAR RECORDING; INTRODUCTION OF THE PHASE-SENSITIVE METHOD
USING THE BBC MICROCOMPUTER IN CHROMATOGRAPHY
6-IC CIRCUIT MULTIPLEXES WAVEFORMS [MUX.]
BRIDGE OSCILLATOR CIRCUITS BENEFIT FROM BIMOS-E OP AMPS [BIMOS./OA.]
BUILD REACTS: THE RADIO-ELECTRONICS ADVANCED CONTROL SYSTEM
UNIPOLAR-TO-BIPOLAR PULSE CONVERTER
UNIVERSAL SENSOR LINEARIZING CIRCUIT, A
PRINTER PORT POWERS STEPPER MOTOR
TRISTROBED TRANSCONDUCTANCE AMPLIFIER IMPROVES RATE-LIMIT SENSOR'S NOISE IMMUNITY (LLL) [AMP.]
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COLOUR RECEIVER OPTIONS 2: ADDING REMOTE CONTROL
MULTIPLE-MACHINE LOADER FOR CLASSROOM COMPUTERS, A
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PLL HANDLES SMALL, 0.05-HZ SIGNALS [PLL./0.05HZ]
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COMPENSATION OF LINEAR IC TEST LOOPS
SIMPLE ELECTRONIC UNIT ALLOWING EXTRACELLULAR RECORDING AND STIMULATION THROUGH THE SAME WIRE
SOME OBSERVATIONS OF THE DESIGN OF RF COILS FOR HUMAN INTERNAL USE [RF.]
COMPUTER CONTROL OF STEPPING MOTORS
SIMULATION OF LOSSLESS FLOATING INDUCTANCE USING TWO CURRENT CONVEYORS AND AN OPERATIONAL TRANSIMPEDANCE
SIMPLE COMPUTER-SUPPORTED PHOTOELECTROCHEMICAL INSTRUMENT FOR STUDIES OF ULTRATHIN FILMS
PUMPING CHARGE, NOT IRON, CMOS ICS TAKE 5 V IN, PROVIDE +-10-V OUT [CMOS./5V/10V]
LUMINESCENCE LIFETIME MEASUREMENTS FROM SPECTROFLUORIMETERS EMPLOYING LOW-COST ANALOG INTEGRATORS
SIMPLE SUPPLY POWERS LARGE LCDS [LCD.]
COMBINE HARVESTER DISCHARGE METER, A
C-MOS VIDEO MULTIPLEXER/AMPLIFIER [CMOS./MUX./AMP.]
SIMPLE BUT ACCURATE THERMOMETER
SAMPLING FILTERS SIMPLIFY CONVERTER'S OFFSET MEASUREMENT

SIMPLE X² CONVERTER
SAMPLE CELL FOR HIGH-PRECISION TEMPERATURE-DEPENDENCE NMR EXPERIMENTS [NMR.]
64M DRAMS, MIXED-VOLTAGE GATE ARRAYS, FLASH MEMORY PROGRAMMER, "SMART" BATTERY CHARGER AND
SENSITIVE DIP OSCILLATOR FOR TITRATIONS
LINEAR SENSOR IMAGE PROCESSOR
MONOSTABLE USING VIDEO AMPLIFIER & COMPARATOR [AMP.]
CONNECTING 8-BIT TELECOMMUNICATIONS I.CS TO 8081/80186 PROCESSORS
LINEAR LOAD DISSIPATES CONSTANT POWER
LINE TAP AIDS SOFTWARE DEBUGGING
MONOLITHIC CMOS MUX/AMP PUSHES 50MHZ [CMOS./MUX./AMP.]
MONITOR SUPPLIES DOWN TO 0.6 V [0.6V]
TUNABLE INTERCARRIER SOUND IF FOR DX-TV [IF./TV.]
ION RECOMBINATION AND THE RESPONSE OF A "P2"-QUANTAMETER
ION-SELECTIVE ELECTRODE FOR INTRACELLULAR POTASSIUM MEASUREMENTS
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CENTRONICS-COMPATIBLE 12 BIT PROGRAMMABLE POWER SUPPLY [PS.]
LINEAR FREQUENCY TUNING OF SAW RESONATORS [SAW.]
MONITOR FOLLOWS PC'S POWER-ON SELF TEST [PC.]
CMOS CURBS THE APPETITE OF POWER-HUNGRY DC-DC CONVERTER CHIPS [CMOS./DC.]
CMOS DACS WORK BACKWARDS TO PROVIDE VOLTAGE OUTPUTS [CMOS./DAC.]
TWO ANALOG SWITCHES CONVERT OP AMP INTO LOGARITHMIC A-D CONVERTER [2/OA./ADC.]
ISOLATED AMPLIFIER CIRCUIT FOR MONITORING IMPEDANCE, CURRENT PASSAGE AND RECORDED SIGNAL FROM
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SUPER OP AMP FLAUNTS SPEED-PRECISION MIX [OA.]
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SUPERCONDUCTING TUNNEL JUNCTIONS FOR USE AS ENERGY RESOLVING X-RAY DETECTORS
APPLICATIONS OF UNDERSAMPLING TECHNIQUES
EXPERIMENT ON FAULT LOCATION IN LARGE-SCALE ANALOG CIRCUITS
SEQUENTIAL FLASHER
CURRENT MONITOR USES HALL SENSOR
CURRENT MIRROR ENHANCES DAC [DAC.]
MORE DIGITALLY GENERATED SAWTOOTH, PLUS TRIANGLE WAVES
CIRCUIT FOR CONSTANT CURRENT OPERATION OF AN ELECTRON CAPTURE DETECTOR
VERSATILE TEMPERATURE COMPENSATION
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PURE SINE WAVES FROM DIGITAL SOURCE
LARGE CAPACITOR SERVES AS BATTERY BACKUP
SERIES RESONATORS WIDEN FM DEMODULATION [FM.]
DIRECT MEASUREMENT OF PLASMA FLOW VELOCITY USING A LANGMUIR PROBE
DESCRIPTION AND DESIGN FOR A REMOTE-CONTROLLED GLASS-TEFLON HIGH-VACUUM STOPCOCK
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DISPLAY CONTROLLER FOR INFRARED CHARGE COUPLED DEVICE ARRAYS, A [IR./CCD.]
GAS-PHASE COULOMETRIC DETECTOR FOR GAS CHROMATOGRAPHY [GC.]
RESPIRATORY FLOW INTEGRATOR WITH IMPROVED STABILITY
DISCONNECT SWITCH SAVES BATTERY
SYSTEM FOR AUTOMATICALLY TRACKING WHITE BLOOD CELLS
DESIGNER'S GUIDE TO BATTERY CHARGING, SWITCHOVER, AND MONITORING, A
METHOD FOR MEASUREMENT OF CAPACITANCE, SERIES AND SHUNT RESISTANCES OF SEMICONDUCTOR JUNC
GATE ARRAY TIES 16-BIT DAC INTO UP-BASED SYSTEMS [DAC./UP.]
INTERACTIVE WATER MONITORING SYSTEM ACCESSIBLE BY CORDLESS TELEPHONE
A TO D 16-CHANNEL A TO D CONVERTER [ADC.]
MOTION DETECTOR
ULTRASONIC RANGERS AND STEPPER MOTORS
INTERMITTENT DRUG ADMINISTRATION DURING LABOR AND PROTECTION OF THE FETUS
NETWORK TRANSFORMATIONS FOR INCORPORATING NONIDEAL SIMULATED IMMITANCES IN THE DESIGN OF AC
INTERFACE ICS DEAL WITH A FASTER WORLD
INTERFACING A STEPPER MOTOR TO YOUR APPLE
DETERMINATION OF TOTAL DISSOLVED SULFIDE IN THE PH RANGE 7.5 TO 11.5 BY ION SELECTIVE ELECTRODES
METHOD FOR THE MEASUREMENT OF CAPACITANCE, SERIES AND SHUNT RESISTANCES OF SEMICONDUCTOR J
BUTTERWORTH LOWPASS FILTER [LPF.]
ULTRASONIC AGC AMPLIFIER WITH 60 DB INPUT RANGE [AGC./AMP./60DB]
METAL DETECTOR BUILD THIS LOW-COST PROJECT AND LOCATE THOSE HIDDEN PIPES AND WIRES.
AUTO LIGHT A SIMPLE UNIT THAT WILL PROVIDE EMERGENCY LIGHTING OR AN AUTOMATIC NIGHT LIGHT.
OPTICAL ALARM FOR VACUUM TRAPS, AN
ULTRASONIC AIR TRANSDUCER CIRCUITS
METHOD FOR FAST SINE-WAVE CALIBRATION OF HOT-WIRE FREQUENCY RESPONSE
LATERAL PHOTODETECTOR USING A (310)-ORIENTED PB₂CRO₅ THIN FILM, A
EXTEND BIT RESOLUTION OF COMPLEMENTARY-OUTPUT DACS [DAC.]
PATTERN ROTATION SYSTEM FOR A VISUAL STIMULATOR
OPTICAL PATTERN GENERATOR FOR VISUAL RESEARCH
BITSTREAM CONVERSION
DATA LINE SENSES REMOTE SHORTS
RATE LIMIT SENSOR IGNORES TRANSIENTS; WORKS WITHOUT LARGE CAPACITORS
AUTOCORRECTING DRIVER RIGHTS PULSE POLARITY
WATER LEVEL CONTROL
AUTONULLING AC BRIDGE FOR ACCURATE MEASUREMENT OF SMALL IMPEDANCE VARIATIONS USING MOS COM
ACTIVE FREQUENCY MULTIPLIER, AN
LATCHING RELAY DISCONNECTS LOW BATTERY
DATA LINE DRIVING WITH ISOLATION
FOUR TRANSISTORS MEASURE RMS POWER [4/RMS.]
SQUEEZE THAT BATTERY 'TILL IT'S DRY
SEVEN-SEGMENT LEDS LIVE ON [7/LED.]
POWER OP AMPS SOLVE DEFLECTION-YOKE DRIVE PROBLEMS [OA.]

POWER SEMICONDUCTORS

NEW RCA XL-100 COLOR TV CHASSIS [TV.]

NEW CURRENT INTERRUPTION TECHNIQUE DESIGNED FOR LARGE-AREA INDUSTRIAL ELECTROCHEMICAL CELLS

HOW TO APPLY MULTIPLYING DACS [MDAC.]

LOW-COST HIGH-PERFORMANCE ULTRASONIC AMPLIFIER FOR DIRECTLY DRIVING SOLID-DIELECTRIC CAPACITORS

HOW TO BUILD AN INEXPENSIVE CYCLOTHERM INSTRUMENT FOR AUTOMATED POLYMERASE CHAIN REACTION

LOW NOISE PREAMPLIFIER FOR GRAVITATIONAL RESEARCH [AMP.]

2-WIRE V/I CONVERTER USES PICO-POWER OP AMP [OA.]

POWER OP AMPS TAKE ON TOUGH JOBS [OA.]

NEW NEURON CHIP, MULTIPLE ARRAY MATRIX EPLD, NEW NEC MICROCONTROLLERS AND A DUAL RS-232 IC, A [F]

LOW DROPOUT MICROPOWER NEGATIVE REGULATOR

LOW-POWER INVERTER RUNS OFF -48 V [48V]

HOW TO BUILD A SUPER-SIMPLE COMPUTER INTERFACE FOR THE KENWOOD TS-440S AND ICOM IC-735 HERE'S

LOW-VOLTAGE RISC MICROPROCESSOR; DYNAMIC BUS SIZER; 4M VRAM; LOW-DROPOUT REGULATOR; AND MUL

LOW-COST CLOCK TIMES BATTERY DRAIN

SPARE GATE IMPROVES STEPPER DRIVER

OVERLAY CHARACTERS ON LIVE VIDEO WITH SINGLE-CHIP CONTROLLERS

THERMOMETRIC ION EXCHANGE: AN APPROACH FOR MEASUREMENT OF ACID OR BASE CONCENTRATION ABOVE

ELIMINATE SOURCE NOISE FROM PHASE NOISE TEST

BUILD A ONE-TUBE, 10 WATT C.W. TRANSMITTER [1/10W/CW.]

CHIP SET SIMPLIFIES FUTUREBUS SYSTEM DESIGN

HALLICRAFTERS HA-5 GRID-BLOCK KEYING CONVERSION

MULTIPLE TIME DIGITIZERS AND A TRIGGER FOR DRIFT CHAMBERS - A COMPLEMENT

GENERATING LOW I-F FREQUENCIES FROM AN HF SIGNAL GENERATOR [IF./HF.]

REPETITIVE WAVEFORM HIGH FREQUENCY, HIGH PRECISION DIGITIZER [HF.]

HARD AND FLOPPY DISKS PLUS TAPE OBEY DISK CONTROL CHIP DUO

DIRECT READING WATTMETER, A, DC OR AC (PROBABLE MAX FREQUENCY 500 HZ) [DC./AC./500HZ]

VARIABLE SIDETONE FOR THE HW-101

THREE METHODS PROTECT UP I/O LINES [3/UP./IO.]

FIRST COMPLETE FUTUREBUS+ CHIP SET OPENS DOOR FOR BOARD-LEVEL IMPLEMENTATIONS [1ST]

DESIGNER'S NOTEBOOK: DIODES

MOS POWER BOOSTER [MOS.]

MOSFET POWER BOOSTER [MOSFET.]

NOTCH FILTER

BATTERY-DRIVEN HIGH-POWER PULSED NMR AMPLIFIER USING COMMERCIAL BROADBAND TRANSISTOR AMPLIFIER

MOTOR-CONTROL ICS EXTEND PERFORMANCE LEVELS OF STEPPER AND BRUSHLESS DC MOTORS [DC.]

EXTRACTING STABLE CLOCK SIGNALS FROM AM BROADCAST CARRIERS FOR AMATEUR SPREAD-SPECTRUM AP

OP AMP'S OSCILLATOR SQUARES ONE-SHOT'S OUTPUT (LLL) [OA./1]

TV SIGNAL DESCRAMBLING (PART 8) [TV.]

IC PROVIDES RESET OR DETECTS POWER FAILURES

DO YOU NEED THE REAL TIME?

IC EASES MONITORING OF DC-DC CONVERTERS [DC.]

PC COOLING FAN CONTROL [PC.]

PC SERIAL PORT YIELDS SQUARE WAVE [PC.]

IC MOLDS POWER FOR LCD'S BACKLIT FLUORESCENT LAMP [LCD.]

RS-232C/RS-422A INTERFACE

18-BIT D TO A CONVERTER FOR X8 OVER-SAMPLING [DAC.]

68008 UP USES 8259A FOR INTERRUPTS [UP.]

\$100 TVRO RECEIVER, THE - SATELLITE CENTRAL (PART 8) [TVRO.]

3-1/2-DIGIT A/D CONVERTER CONSUMES LITTLE POWER [3.5/ADC.]
MC1648 (SL1648) VOLTAGE CONTROLLED OSCILLATOR [VCO.]
MC14538 MONOSTABLE APPLICATIONS
RS232 WITH SINGLE POWER SUPPLY [PS.]
MC6809 CLOCK SYNCHRONISER CIRCUIT, AN
MC68HC16, THE STRETCHING 8 BITS TO THE LIMIT
ADAPTABLE CHIP MONITORS FIVE POWER LINES TO SAFEGUARD DIGITAL SYSTEMS [5]
HEADPHONE ISOLATOR
DMA CONTROLLER MESHES WITH 68000 SYSTEMS [DMA.]
SMALL CAPACITOR GIVES BIG BOOST TO ONE-SHOT'S PULSE WIDTH [1]
'SAFE' CONSTANT CURRENT SOURCE, A
HEADLIGHT WARNING
SMALL AREA NETWORKS USING SERIAL DATA TRANSFER (PART 3) I²C MASTER CONTROLLER OPERATION
TRANSFER OF ANALOG TEMPORAL DATA VIA STANDARD DUAL-CHANNEL DIGITAL FIBEROPTIC LINKS
SCANNING 10 POINTS WITH TWO WIRES [2]
ANALOG INTERFACING IN THE REAL WORLD
PHASE SHIFTER USES DIGITAL TECHNIQUES
SEALED LEAD-ACID BATTERY TESTER
MEASURING SPEED USING A COMPUTER - SEVERAL TECHNIQUES
JTAG TESTABILITY TAKES ON TODAY'S SYSTEM-TEST DEMANDS
MEASURE DUTY CYCLE TO 0.5% ACCURACY
BIASING SOLID STATE AMPLIFIERS TO LINEAR OPERATION [AMP.]
DIAL A HARMONIC
SPARKS FLY AS INSULATION FAILS
EVALUATING THE COMMUNICATIONS PERFORMANCE OF YOUR NEXT BOARD DESIGN
STARTER FOR MODEL AIRCRAFT
MEASURE OHMS WITH YOUR CALCULATOR? -YES, AND ACCURATELY, TOO!
MOBILE DIGITAL DATALINK FOR FIELD WORK APPLICATIONS
RGB TO COMPOSITE VIDEO WITHOUT POWER [RGB.]
CYBERBOT: A NEURAL-NETWORK ROBOT (PART 1) EXPERIMENT WITH BASIC NEURAL NETWORKS BY BUILDING
NICD BATTERY CHARGING [NICD.]
MICROCOMPUTER-BASED MEASUREMENT OF BUBBLE DIELECTROPHORESIS
MICROPROCESSOR INTERFACING FOR A HIGH-SPEED A-TO-D CONVERTER [UP./ADC.]
MICROCOMPUTER-CONTROLLED SIGNAL INTEGRATION
MICROPROCESSOR-BASED DATA-ACQUISITION SYSTEM [UP./DAS.]
BACKGROUND COMPENSATION IN FAST SCAN SQUARE WAVE VOLTAMMETRY AND OTHER PULSE TECHNIQUES
RECEIVER CIRCUITS YOU CAN BUILD
ACCESS MEMORY DIRECTLY IN 16-BIT UC SYSTEMS
MICROPROCESSOR BASED INDUSTRIAL LOAD BUS STATIC VAR CONTROLLER, A [UP.]
MICROCOMPUTER BRINGS FLEXIBILITY AND POWER TO COMMUNICATIONS CONTROL
WIDE-RANGE PROGRAMMABLE CONSTANT-CURRENT SOURCE, A
MODIFICATION OF THE UGLY DUCKLING (LLL) [MOD.]
VIDEO SWITCH
MODIFICATIONS TO THE AR-2001 SCANNING RECEIVER [MOD.]
VIDEOTEX FOR TV - HOW IT WORKS (PART 3) [TV.]
RADIO SPECTRUM
MODULAR SYSTEM OF INTERFACING MICROCOMPUTERS, A
REDUCE NOISE IN A SERIAL BIT STREAM
LED DISPLAY DRIVERS INTERFACE TO UCS ON JUST THREE I/O LINES [LED./3/I/O.]

UNDERSTAND CMOS FLASH ADCS TO APPLY THEM EFFECTIVELY [CMOS./ADC.]
MODIFICATION OF AN INDUCTIVELY COUPLED PLASMA RADIO FREQUENCY SUPPLY FOR AMPLITUDE MODULATION
RIDGE MEASUREMENTS OF SUPPLY NOISE
MODIFIED RTD BRIDGE ELIMINATES ERRORS [MOD./RTD.]
ADDING A REAL-TIME CLOCK [RTC.]
STEREO PHASE AND LEVEL DISPLAY
USE OF LASER-GENERATED ACOUSTIC PULSES TO MEASURE THE ELECTRIC FIELD INSIDE A SOLID DIELECTRIC
ELECTRONIC GUITAR
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PRECISION OP AMP [OA.]
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CHEAP, EFFICIENT, STRATEGIC FIRE ALARM, A
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ONE METER LONG LOW-MASS MINI DRIFT VERTEX CHAMBER USED AT THE TEVATRON COLLIDER, A [1M]
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ONE POT ADJUSTS POLARITY, GAIN [1]
PRESSURE SENSOR CONTROLS MOTOR
EFFECT OF CHANNEL SEPARATION ON EARPHONE-PRESENTED TONES, NOISE, AND STEREOPHONIC MATERIAL
SOFT CARRIER TURN OFF
SOFT-START AND DELAY PROTECTS POWER SUPPLY [PS.]
BUFFER PREVENTS METASTABILITY
DIGITAL WEIGHING SCALE RESOLVES QUARTER COUNTS
HIGH-RESOLUTION ANALOG-TO-DIGITAL CONVERTER FOR THE TRS-80, A [ADC.]
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LOGARITHMIC TONE GENERATOR
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HIGH QUALITY CONTROLLED CURRENT SOURCE, A
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UNIMOD A VERSATILE SOUND-EFFECTS GENERATOR
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QSK MODIFICATION FOR THE TRIO-KENWOOD TL-922 AMPLIFIER [MOD./AMP.]
TAKE THE JITTER OUT OF PLLS [PLL.]
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BOLTZMANN TEMPERATURE: AN INSTRUCTIONAL EXPERIMENT FOR THE ADVANCED LABORATORY
VELOCITY OF SOUND AND RESONANCE ABSORPTION DETERMINATION FROM A LOW-COST HELMHOLTZ EXPERIMENT
ALL ABOUT THERMISTORS (PART 3)
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MULTI-INPUT FAST COINCIDENCE SYSTEM WITH SUB-NANOSECOND TIMING, A

TELECOMM ICS OFFER IMPROVED FUNCTIONS FOR TELEPHONE- AND PABX-SYSTEM DESIGNS [PABX.]
TELECOMM/DATACOMM SPECIAL COMPLEX DATACOMM PERIPHERAL ICS INTERFACE TO MANY PROCESSORS
WALSH FUNCTIONS POWER FSK TRANSMITTER [FSK.]
POLISH YOUR APPLE WITH A LUMINANCE BOARD
VOLTAGE REGULATORS IC'S AND HYBRIDS
RELE/DATA-COMM ICS CALL ON ALL PROCESSES TO CUT NOISE AND POWER WITHOUT LOSING SPEED
SELECT LINE VOLTAGES INSTANTLY
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MULTISITE RECORDING OF BRAIN FIELD POTENTIALS AND UNIT ACTIVITY IN FREELY MOVING RATS
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SIMPLE CIRCUITS PROVIDE ACCURATE AC TESTING OF OP AMPS [AC./OA.]
TEMPERATURE-COMPENSATED FUEL GAUGE
SIMPLE TECHNIQUES HELP YOU CONQUER OP-AMP INSTABILITY [OA.]
TIME AND TEMPERATURE CONTROLLER FOR FILAMENT ATOMIZERS
COMPUTER-AIDED ANALYSIS OF GASTROINTESTINAL MYOELECTRIC ACTIVITY
"SMART" SQUELCH FOR SSB [SSB.]

TEMPERATURE DEPENDENCE OF CSI(TL) SCINTILLATION YIELD FOR COSMIC MUONS, 5 AND 1.25 MEV GAMMA-RAYS
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GENERAL PURPOSE INTERFACE BUS (PART 2) [GPIB.]
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CIRCUIT MONITORS SYSTEM'S POWER SUPPLY [PS.]
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CURRENT FEEDBACK OP AMPS RAISE GAIN-BANDWIDTH PRODUCT [OA./BW.]
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CIRCUIT CONVERTS PERIOD TO VOLTAGE
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DUAL OP AMP TAKES ABSOLUTE DIFFERENCE [OA.]

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NICD CHARGER/POWER SUPPLY AN EASY TWO-IN-ONE CONSTRUCTION PROJECT. [NICD./PS./2/1]
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OSCILLATOR DRIVES DIGITAL CLOCK WHEN AC POWER FAILS [AC.]
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INCREDIBLE HOT CANARIES, THE
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REDUCE NOISE IN VOLTAGE REGULATORS
INDEX PULSES IN OPTICAL ENCODERS
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INDUCTIVE NOISE THERMOMETER: PRACTICAL REALIZATION
STEPPING MOTOR FOR YOUR TELESCOPE, A
PRECISION IC OP AMPS [OA.]
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THERMISTOR PROBE HELPS REGULATE LIQUID LEVELS
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THERMAL MASS-FLOW TRANSDUCERS SENSORS OFFER FAST RESPONSE TIMES
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BREATH-O-METER, THE
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SPEECH-SYNTHESIS CHIP BORROWS HUMAN INTONATION
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ELECTRONIC TEMPERATURE MEASUREMENT
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EFFECT OF ELEVATED TEMPERATURE ON LATCHUP AND BIT ERRORS IN CMOS DEVICES, THE [CMOS.]
REGULATOR IC SHUTS DOWN AT TIME OF FAULT, RESETS WHEN CLEAR AFTER DELAY
REGULATOR HAS DUAL OUTPUTS, LOW VOLTAGE DROPOUT [LV.]
LIGHT SWITCHING WITH AN SCR USED AS A GTO [SCR./GTO.]
REGULATOR PROVIDES EEPROM CONTROL [EEPROM.]
DIGICOM>64 A SOFTWARE-BASED PACKET RADIO SYSTEM FOR THE COMMODORE 64
HIGH-TEMPERATURE PULSED NOZZLE FOR SUPERSONIC JET SPECTROMETRY AND ITS APPLICATION TO GAS CH
HIGH-SPEED PHOTOMULTIPLIER GATING CIRCUIT FOR LUMINESCENCE MEASUREMENTS, A
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MAGNETIC LEVITATION: AN EXAMPLE IN CLOSED-LOOP CONTROL HOW TO DEFY GRAVITY WITHOUT THE USE OF
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HIGH-VOLTAGE REGULATOR IS IMMUNE TO BURNOUT [HV.]
HIGH-FREQUENCY OPERATION WITH THE AM9513 CONTROLLER [HF.]
REGULATING SPEED OF DC MOTORS WITHOUT TACHOMETER [DC.]
60HZ CLOCK PULSES
INHALATION REGIONAL CEREBRAL BLOOD FLOW: THE USE OF TIDAL CO₂ DATA TO FIND RADIONUCLIDE ACTIVIT
SCHMITT TRIGGER WITH INDEPENDENTLY-PROGRAMMABLE THRESHOLDS
DRIVE-CONTROL FREQUENCY MONITOR, A
PRIMED BY A PROCESSOR, AN ANALOG COMPARATOR CHIP CAN RUN ITS OWN SHOW
BUILD THE HI-FI/TV AUDIO-MINDER [TV.]
NOISE REDUCTION UNIT
LSI'S CMOS DIVIDERS: COUNTING CIRCUITS FOR 50 OR 60 HERTZ APPLICATIONS [LSI./CMOS./60HZ]
BUILD THE... DRESSING CONSULTANT
BUILD A BAR-CODE SCANNER INEXPENSIVELY
BUILD THE... HANDS-ON FISHING GUIDE
GUITAR AND BASS TUNER
BUILDING THE AUTOMATIC FIELD CHARGER
USING VOLTAGE COMPARATORS
DRIVE STEPPER MOTOR WITHOUT MISSING STEPS
UNIPOLAR/BIPOLAR CIRCUIT EASES DATA FLOW
WRITE PROTECT 8-IN. DISK DRIVES [8IN]
SWITCHING POWER SUPPLY FOR DC SPUTTERING, A [PS./DC.]

BUILD THE AUTO SCAN
TRIPHASIC VENTILATOR FOR REPTILES, A
SWITCHED-CAPACITOR NOTCH FILTER
UNIUNCTION TRANSISTOR RELAXATION OSCILLATOR AS A SEMIDIGITAL MAGNETIC FLUXMETER [UJT.]
BUILD A PRECISION ANTENNA-ROTOR CONTROL SYSTEM
TRIAC SENSES AC HALF-CYCLE POLARITY; DETERMINES DIRECTION OF MOTOR ROTATION [AC.]
TRIPLE POWER SUPPLY OUTPUT [PS.]
BUILD A WIRE TRACER
CHIPS AND TEST GEAR
BUILD THE FREEZE FIGHTER
DRIVER ISOLATES ITSELF FROM TRANSDUCER
BUILD A CONFIGURABLE POWER SUPPLY [PS.]
BUILD A WHISTLE SWITCH
UNIVERSAL SPEECH PRCESSOR, A AN EASY UPGRADE FOR YOUR TRANSCEIVER.
BUILD A TIME-DELAYED KILL SWITCH FOR YOUR CAR
MAKE THE ICOM 720A WORK FOR YOU
5-KV 1.5-MW VARIABLE DC SOURCE, A [5KV/1.5MW/DC.]
TAKE A SWIPE AT OPTICAL ID CARDS
ALL-BAND FIELD STRENGTH METER
UNLOCK THE MYSTERY OF VOICE-REMOTE ACTIVATION CIRCUITS
VOLTAGE REGULATOR HAS PRECISE IOUT LIMIT
FILTER IC PERFORMS SIGNAL DEMULTIPLEXING [MUX.]
TELECOMM/DATACOMM SPECIAL DESIGN REAL-TIME ETHERNET SYSTEMS BY GIVING PRIORITY TO NODES
MULTIPLIER INCREASES IC-TIMER DELAYS
SELF-CONTAINED AUTOMATIC RECORDER OF THE DC JOSEPHSON CURRENT [DC.]
SILICON DIODE DOSIMETER WITH A MEMORY, A - AN ALTERNATIVE TO MAILED TLD
TELETEXT DECODER ENHANCEMENTS (LLL)
ALL ABOUT THERMISTORS
VOLTAGE DIVIDER NEEDS NO TRIMMING
VOLTSENTRY MONITOR YOUR POWER SUPPLY. [PS.]
TALE OF TWO CHIPS, A (PART 2) THE PM TR-1001 -- A GAAS MMIC TRANSCEIVER CHIP FOR 915 MHZ [2/GAAS./MM
TEMPERATURE TRANSDUCER IC IS LINEAR OVER WIDE RANGE
COMPUTER DATA ON SATELLITES
8-MHZ FLASH CONVERTER CONSUMES JUST 150 MW [8MHZ/150MW]
SIMPLE CIRCUIT ADDS HANDSHAKING FOR PRINTERS
COMPUTER INTERFACE
COMPUTER-TO-RIG INTERFACE
REMOVE THE OVERSHOOT FROM A PEAK DETECTOR'S OUTPUT WITH ONE RESISTOR [1]
SIMPLE DEVICE FOR THE MEASUREMENT OF TIME INTERVALS
COMPARISONS REVEAL THE PROS AND CONS OF DESIGNING WITH SWITCHED-CAPACITOR ICS
SIMPLE CIRCUIT TESTS TWISTED-PAIR CABLES
TEMPERATURE SENSOR AND DVM INTERFACE [DVM.]
COMPUTER-AIDED DESIGN PROGRAM THAT'S REALLY MEANT FOR THE HOBBYIST., A [CAD.]
COMPARATOR PROVIDES ZERO-VOLTAGE SWITCHING
SIMPLE METRONOME BEATS 34 TO 246/MIN
SIMPLE AND INEXPENSIVE METHOD OF MEASURING MEDIUM PRESSURE, A
REMOTE CONTROL EXTENDER CONTROL YOUR VCR AND WATCH VIDEO TAPES FROM ANY ROOM IN YOUR HOM
REMOTE DRIVER/CONTROLLER FOR A TWO-ANTENNA SYSTEM, A [2]
IMMORTALIZE YOUR IC-2AT BATTERY PACK

SOME SIMPLE EXPERIMENTAL STUDIES USING A PASSIVE CAVITY COUPLED TO A HE-NE LASER CAVITY FOR PRA
SIMPLE CIRCUIT EXTRACTS TV SYNC PULSE [TV.]
SIMPLE CALF MUSCLE ERGOMETER FOR USE IN A STANDARD WHOLE-BODY MR SCANNER, A
SIMPLIFYING MEMBRANE SWITCH INTERFACING
SIMPLIFY CONVERTER CONNECTION TO DSPTS [DSP.]
SAMPLE-AND-HOLD AT OUTPUT OF F/V CONVERTER GIVES FAST RESPONSE AND LOW RIPPLE [SH.]
SEMICONDUCTOR THERMOMETER IS ACCURATE OVER WIDE RANGE
COMPARATOR ACCEPTS NOISY INPUTS, YET PROVIDES 'NO-BOUNCE' OUTPUT
SIMPLE CIRCUIT FOR PACING HEARTS OF EXPERIMENTAL ANIMALS
TEMPERATURE SERVOMECHANISMS USING THERMOELECTRIC MODULES
COMPUTER AIDED ELECTROCHEMISTRY USING ASYST. (PART 1) CORROSION RATE MEASUREMENTS AND SURF
TEMPERATURE MONITORING
SIMPLIFY HIGH-VOLTAGE VIDEO-AMPLIFIER DESIGN [HV./AMP.]
COMPARATIVELY BETTER THAN THE OP-AMP? [OA.]
SIMPLE ELECTROCARDIOGRAPH, A [ECG.]
ZENER DIODE INCREASES A FIXED PNP REGULATOR'S OUTPUT VOLTAGE RATINGS
GENERATING 60-HZ CLOCK PULSES [60HZ]
SYNC STRIPPER EXTRACTS TIMING FROM NTSC VIDEO [NTSC.]
SINGLE-CHIP, 2-PORT RAM CONTROLLER SAVES BOARD SPACE [RAM.]
MONITOR THERMOCOUPLES ELECTRONICALLY
EDN NETWORKING DESIGN SERIES ADDITIONAL LSI AND HYBRID PARTS EASE COMPLETION OF LAN [LSI./LAN.]
CONVERTER OUTPUT SWINGS 5V USING 5V SUPPLY
CONTROL SIX FUNCTIONS OVER TWO WIRES [6/2]
PENDULUM PROBLEMS
NON-IDEAL LINEAR IC AMPLIFIERS TYPICAL PROBLEMS AND HOW TO SOLVE THEM [AMP.]
DYNAMICS OF A FALLING CHAIN, THE: I [1]
LINE VOLTAGE AT A GLANCE - AT LAST, A USEFUL GADGET
MONOLITHIC PHASE LOCKED LOOP, THE [PLL.]
CONVERT A COMPARATOR INTO A FLIP-FLOP [FF.]
FAN CONTROLLER MINIMIZES AUDIBLE NOISE
MONITOR FOR ZX81
TUNE BP FILTERS TO 0.1% ACCURACY
LINEAR CURRENT TRANSFER
LINEARIZED TRIAC CONTROL OPERATES BIDIRECTIONAL DC MOTOR SMOOTHLY [DC.]
LINEARIZED DC LAMP CONTROLLER, A [DC.]
NONINVASIVE OPTICAL POLARIMETRIC GLUCOSE SENSING USING A TRUE PHASE MEASUREMENT TECHNIQUE
SINE-WAVE SOURCE HAS STABLE OUTPUT
SENSOR ADAPTS TO CHANGING LIGHT LEVELS
PROBLEMS AND PROPOSALS (LLL)
VMOS TRANSISTORS INTERFACE ICS TO HIGH POWER LOADS [VMOS.]
TWO-TONE GENERATOR FOR SSB TESTING [2/SSB.]
ECONOMY NICD BATTERY CHARGER [NICD.]
"COINSHOOTER" METAL DETECTOR
CLOCK FREQUENCY MULTIPLIER USING MM58174
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TROUBLESHOOTING ANALOG CIRCUITS (PART 2) THE RIGHT EQUIPMENT IS ESSENTIAL FOR EFFECTIVE TROUBL
TWO HIGH-FREQUENCY MUTUAL INDUCTANCE BRIDGES WITH HIGH RESOLUTION [2/HF.]
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TWO-TONE GENERATOR WITH VERY LOW DISTORTION, A [2]
TROUBLESHOOTING ANALOG CIRCUITS (PART 9) TROUBLESHOOTING TECHNIQUES QUASH SPURIOUS OSCILLATIONS
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SHORT-CIRCUIT LOCATOR WITH NAVIGATION AID
SHOP EQUIPMENT
PROGRAMMED REGULATORS CHECK SYSTEM'S OPERATING MARGINS
DIODE SIMULATOR REDUCES FORWARD DROP TO 0.04V
IMPROVED FILTER FOR DIGITAL SPEECH
PIPELINING AND THROTTLING SPEED DATA TRANSFERS
ALPHANUMERIC INTERFACE FOR CRT [CRT.]
LAP-TOP REPEATER CONTROLLER, A FULL-FEATURED REPEATER CONTROLLER FROM A PC-DOS LAP-TOP COMPUTER
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EXPERIMENTING WITH MOTOROLA'S 68HC11 TRUE SINGLE-CHIP COMPUTER (PART 4) BUILDING A BOARD TO SIMULATE
AMPLIFIER OPTIMIZES CURRENT AND COMPENSATION [AMP.]
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APPLICATIONS CIRCUITS
EXPERIMENTER'S POWER SUPPLY, AN ADAPTABLE MULTI-VOLTAGE SUPPLY. [PS.]
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VERSATILE EXPONENTIAL TIME-FUNCTION GENERATOR USING TWO SAMPLE-HOLD CIRCUITS [2/SH.]
VERSATILE COMPUTER INTERFACE FOR A VARIAN E9 EPR SPECTROMETER [EPR.]
CURSOR FOR WAVEFORM ANALYSIS, A
HARDWARE-SOFTWARE INTEGRATION EASES E-ROM PROGRAMMING [ROM.]
CIRCUIT INDICATES STATUS OF POWER SUPPLY [PS.]
SERIAL INTERFACE BUFFERS PARALLEL DATA
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CIRCUIT FOR MONITORING THE MEDIAN FREQUENCY OF THE SPECTRUM OF THE SURFACE EMG SIGNAL [EMG.]
PERFORMANCE ANALYSIS OF DELTA MODULATED PWM INVERTERS [DM./PWM.]
PORTABLE TOUCHTONETM AUTO-DIALER, A
PORT TECHNIQUE ALLOWS COMPLEX-IMPEDANCE EMULATION AND SCALING
CIRCUIT LETS YOU ANALYZE NICD BATTERIES [NICD.]
CURRENT AMPLIFIER FOR LOW SUPPLY [AMP.]
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COR OF A RELIABLE REPEATER, THE
CIRCUIT ALLOWS MULTIPLE I/V CONVERTERS
EPROM ENHANCES TMS32010 UC'S MEMORY [EPROM.]
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PARTICLE VELOCITY MICROPHONE FOR THE SONG OF SMALL INSECTS AND OTHER ACOUSTIC MEASUREMENTS
THREE-TERMINAL REGULATOR, THE MULTIPLE USES IN ONE PACKAGE. [3/1]
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FUSE-PROGRAMMABLE CHIP TAKES COMMAND OF DISTRIBUTED SYSTEMS
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FAST MONOLITHIC A/D CONVERTER, A [ADC.]
BASIC CIRCUIT-DESIGN TECHNIQUES YIELD STABLE CLOCK OSCILLATORS
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EASY CIRCUIT TO PROTECT YOUR AMP, AN [AMP.]
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BIT-SLICE ARCHITECTURE TACKLES THE 32-BIT WORLD
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INTELLIGENT MODEM ICS INTEGRATE FUNCTIONS, SIMPLIFY DESIGN OF COMMUNICATIONS CIRCUITRY
INTERFACE CONNECTS MEMORIES TO 1802 UP [UP.]
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AUTOZERO CHIP CUTS OP AMP OFFSET VOLTAGES TO A MERE +5 UV [OA./5UV]
METHOD TO INCREASE THE BANDWIDTH OF HEAT FLUXMETERS [BW.]
AUTOMOTIVE EXHAUST EMISSIONS ANALYZER
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OPTICAL REFLECTANCE SENSOR MEASURES DISPLACEMENT IN MAGNETIC SUSPENSION
ORTHOGONAL ELECTROCARDIOGRAM DERIVED FROM THE LIMB AND CHEST ELECTRODES OF THE CONVENTION
AUTO MULTIFUNCTION METER KEEP TRACK OF VITAL FUNCTIONS UNDER THE HOOD WITH THIS MODULAR ADD-
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BATTERY-BACKED MASTER POWER SYSTEM, A
AUTOMOTIVE AIR-CONDITIONING "SMART BOX", AN
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AUTOMOBILE VOLTMETER, AN
AUTOMATED ION-EXCHANGE COLUMN SYSTEM FOR BIOLOGICAL SAMPLE FRACTIONATION
OPTIMIZE UP-SYSTEM THROUGHPUT WITH A FAST, 5-MODE, 12-BIT ADC [UP./ADC.]
AUTOMATIC LOAD CONTROL SYSTEM FOR POTATO CONVEYORS
ULTRAFAST EMISSION SPECTROSCOPY IN THE ULTRAVIOLET BY TIME-GATED UPCONVERSION [UV.]
AUTOMATIC SHUTTER CONTROL FOR MOLECULAR-BEAM EPITAXIAL REACTORS
AUTOMOBILE HEADLIGHTS MONITOR
ACTIVE BRIDGE-TYPE LINEAR FREQUENCY-TO-VOLTAGE CONVERTER
AUTOPROTECTING GATE DRIVE CIRCUIT FOR GTO THYRISTORS, AN [GTO.]
INTENSITY STABILIZED PULSED ANALYZING LAMP FOR ULTRAVIOLET TRANSIENT SPECTROMETRY [UV.]
AUTOMATIC CURVE DIGITIZER
AUTO-MUTE FOR DANIEL
METHOD FOR FABRICATING A SIMPLE LOW-COST POSITION-SENSITIVE PHOTODETECTOR
OPTICALLY COUPLED WIDE BANDWIDTH DC ISOLATION AMPLIFIER [BW./DC./AMP.]

BATTERY OPERATED THERMISTOR THERMOMETER FOR ORAL USE
DATA CONVERSION/TRANSMISSION (LLL)
ULTRA STABLE 1.5 A POWER SUPPLY [1.5A/PS.]
AUTOMATIC BEAM AIMER
OPTICAL RECEIVER
INTERFACE FAST DSP CHIP INEXPENSIVELY [DSP.]
MOTORIZATION OF THE DUPONT-SORVALL MT-1 ULTRAMICROTOME
BETTER MOUSETRAP, THE: A NUCLEAR CHAIN REACTION DEMONSTRATION
AUTOMATIC OVER-RANGE DEVICE FOR STRIP-CHART RECORDERS
OPTICALLY ISOLATED FET GIVES CALIBRATION SIGNALS [FET.]
ACTIVE FREQUENCY METER, AN
AUTOMATIC FOCUS/HOLD SYSTEM FOR OPTICAL TELESCOPES, AN
BIT-SLICE PROCESSOR SPEEDS THROUGH BCD MATH [BCD.]
DETECTOR CIRCUITS, AND MORE
BATTERY TESTER
AUTO POWER-ON/OFF FOR BICYCLE SPEEDOMETER
GATE DRIVE CIRCUITS FOR POWER MOSFETS [MOSFET.]
LET'S WORK ON THE VERTICAL SECTION OF OUR SCOPE
MOTOR CONTROLLER POWERS PERISTALTIC PUMP
OPTICAL TRANSMITTER/RECEIVER SYSTEM FOR WIRELESS VOICE COMMUNICATION, AN [TR.]
ALTAIR: AN INFRARED LASER SCATTERING DIAGNOSTIC ON THE TORE SUPRA TOKAMAK [IR.]
LATCHED OSCILLATOR
EXTENDING YOUR CONTROL: THE HCS II MCIR-LINK [2/IR.]
LOUDSPEAKER TESTER
HOUNDOG
BOUNDING, CLAMPING TECHNIQUES IMPROVE CIRCUIT PERFORMANCE
FOUR-TONE AUDIO OSCILLATOR: A POTENT TROUBLESHOOTER [4]
ATVER'S AMAZING LITTLE GRAY BOX, THE [TV.]
FIVE-CHIP SET EASES DESIGN OF 100M-BPS, FIBER-OPTIC LOCAL-AREA NETWORKS [5/LAN.]
SAVE MONEY ON USED METERS
WAVESOUND SYNTHESIZER
NOVEL METHOD FOR STABILIZING SINGLES RATES IN ATMOSPHERIC CHERENKOV TELESCOPES, A
WAVEFORM SYNTHESIZER
LEVEL SHIFTER BUILDS HIGH-VOLTAGE OP-AMP BLOCK [HV./OA.]
MOVING-DOT INDICATOR TRACKS BIPOLAR SIGNALS
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LOW-BATTERY WARNING
3-WAY DRIVE SYSTEM FOR SPEAKERS, A
POWER REGULATOR FEEDBACK LOOP KEEPS DC MOTOR ON SPEED [DC.]
LOW COST, LOW NOISE, AND DESIGN SIMPLICITY KEEP LINEAR VOLTAGE REGULATORS COMPETITIVE
POWER-FAIL CIRCUIT GIVES PROMPT RESPONSE
HOW THE ISOFET ENHANCES STABILITY IN BROADBAND HIGH GAIN AMPLIFIERS [FET./AMP.]
POWER SUPPLY IMPROVEMENTS (LLL) [PS.]
NEW PROCESSES, DESIGNS BOOST IC OP AMP SPEED FAST, WIDE-BAND OP AMPS [OA.]
LOW-COST, PORTABLE, AND SAFE APPARATUS FOR LECTURE HALL CONDUCTIVITY DEMONSTRATION, A
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TV SOUND CONVERTER (LLL) [TV.]
ZX INTERFACES EXPLAINED
CW PARROT, THE [CW.]
CW SIDETONE FOR THE DX-60 [CW.]
LF DUAL-STAIRCASE GENERATOR HAS ADJUSTABLE PHASE [LF.]
F1 FOR THE HOT WATER 101 - ALL THE WAY WITH FSK! [FSK.]
OP AMP HANDLES HIGH COMMON-MODE VOLTS [OA.]
IN VIVO HIGH-RESOLUTION VOLUME-SELECTED PROTON SPECTROSCOPY AND T₁ MEASUREMENTS IN THE DOG
FM MODULATOR FOR THE TXA5-33 [FM.]
ON THE MECHANISM OF DIELECTRIC BREAKDOWN OF SOLIDS
PC BOARD FOR OUR AUDIBLE LOGIC PROBE, A. [PCB.]
NI-CD-BATTERY CHARGER HAS WIDE RANGE OF FEATURES [NICD.]
RE-EXAMINATION OF FREQUENCY RESPONSE CALCULATIONS FOR FEEDBACK AMPLIFIERS [AMP.]
15-BIT D-TO-A USING ZN425 CONVERTERS
TS-440 INTERFACE FOR KEYING LINEARS WITH HIGH VOLTAGE BIASING [HV.]
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C-64 AND GLB PK-1 INTERFACE CIRCUIT
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TRAVELER'S RECEIVER FOR 20 METERS, A [20M]
BRAKE PROTECTION FOR THE CDE HAM IV ROTATOR
CHARGE IT! YOUR NICAD, THAT IS [NICD.]
LEARN ABOUT THYRISTORS
TRANSISTOR PROVIDES THYRISTOR CONTROL
TRAPS FOR VHF INTERFERENCE [VHF.]
DMA TRANSFER GENERATOR [DMA.]
LEARNING ALL THE "ABC'S" OF SEVEN-SEGMENT LED'S. [7/LED.]
STABILIZATION OF SINGLE FREQUENCY INTERNAL MIRROR HE-NE LASERS (LLL)
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MEASUREMENTS ON POWER SUPPLIES [PS.]
GRAPHICS-ORIENTED DATA-COLLECTION UNIT
TRANSMITTER MODIFICATION WHICH PROVIDES INCREASED SENSITIVITY FOR HOMONUCLEAR DECOUPLING EX
AMATEUR RADIO AND SCIENCE FAIRS
ROBINSON-TYPE NUCLEAR QUADRUPOLE RESONANCE SPECTROMETER ADAPTED TO FIELD-EFFECT TRANSISTO
MOBILE ANTENNA MATCHING - AUTOMATICALLY
MOBILE POWER SUPPLY FOR YOUR 2-METER HT [PS./2M]
VIC 20(TM) CW TRANSMITTER INTERFACE [CW.]
OSCILLOSCOPE SPOT INTENSIFIER, TO IMPROVE PHOTOGRAPHIC RECORDINGS OF ACTION POTENTIALS, AN
MICROCOMPUTER AS A LABORATORY INSTRUMENT, THE
RECORDING WITH CURRENT INSTEAD OF VOLTAGE
MICROPROCESSOR-BASED SYSTEM FOR FULL AUTOMATION AND ON-LINE MEASUREMENT OF CONDUCTIVITY IN
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PACKET RACKET LIP ZIPPER AUTOMATICALLY TURNS OFF YOUR RIG'S SPEAKER DURING PACKET OPERATION.
MICRO CONTROLLED LIGHTING SYSTEM (PART 3)
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ADD A CASSETTE INTERFACE TO YOUR VIC-20
INDUCTION PICKUP DRIVES ELAPSED-TIME INDICATORS
ADD-ON IMPROVES PAY-TV DECODER [TV.]
ADDING 1-MHZ OFFSET TO THE KDK FM-144 [1MHZ/FM.]
MODIFICATIONS TO THE ATLAS 350 AGC CIRCUIT [MOD./AGC.]
MODEST 45-FOOT DX VERTICAL FOR 160, 80, 40 AND 30 METERS, A [45FT/30M]
DADGET, THE: A GADGET TO GET DAD TO PAY ATTENTION
MODIFY THE SANYO DRIVES' LEDS [MOD./LED.]
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REDUCTION OF OPERATOR FATIGUE IN DOPPLER ULTRASOUND BLOOD FLOW INVESTIGATIONS
MODIFICATION OF A BRUKER WP-200 SPECTROMETER FOR THE OBSERVATION OF NMR IN SOLIDS [MOD./NMR.]
RADIO WAVES FROM A METEOR?
CHEAP PHOTODIODES
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ONE-TRANSISTOR RF AMPLIFIER, A [1/RF./AMP.]
ONE-TRANSISTOR AUDIO MIXER [1]
ONE ARMED BANDIT [1]
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FIELD EFFECT TRANSISTORS A GUIDE TO THE BASICS. [FET.]
THEORY OF OPERATION OF THE DRO
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ELECTRICAL DETERMINATION FOR FROST DEPTH IN SOIL
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RUGGEDNESS TESTING BOLSTERS POWER MOSFET RELIABILITY IN HIGH-STRESS CIRCUITS [MOSFET.]
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HIGH-VOLTAGE SWITCHING FOR IN-FLIGHT CAPTURE OF KEV ANTIPROTONS IN A PENNING TRAP [HV.]
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HIGH-PERFORMANCE SECONDARY ION MASS SPECTROMETER [MS.]
HIGH-VOLTAGE RAMP GENERATOR [HV.]
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HIGH-SPEED DEMONSTRATION MOTOR WITH SUPERCONDUCTING BEARINGS, A
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ETI LOGGIT DATA LOGGER, THE
CHIRPLESS BREAK-IN KEYING
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SWITCHIT, THE HOW TO USE ONE RTTY TERMINAL UNIT WITH TWO RIGS [1/RTTY./TU./2]
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BUILD A HOT SOCKET HERE'S A FUN PROJECT THAT'S BOUND TO GENERATE A SHOCKING RESPONSE!
FAIL-SAFE MUTING CIRCUIT FOR PREAMPS [AMP.]
BUILD A MATCHBOX CRYSTAL RADIO
DRIFT TUBES FOR CHARACTERIZING ATMOSPHERIC ION MOBILITY SPECTRA USING AC, AC-PULSE, AND PULSE T
BUILD AN IN-LINE AC WATTMETER [AC.]
STILL USING A "MODEL T" TV/GAME ANTENNA SWITCH? [TV.]
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VOLTAGE GAIN IS JUST ONE OF THE MANY USES FOR INSTRUMENTATION AMPS [1/IA.]
TTL-TO-RS-232 ADAPTER NEEDS NO SEPARATE NEGATIVE VOLTAGE SUPPLY [TTL.]
ALL ABOUT OPTOCOUPERS
VOLTAGE REFERENCE FINDS CURRENT-LOOP FAULTS
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MULTIFREQUENCY PHASE FLUOROMETER USING THE HARMONIC CONTENT OF A MODE-LOCKED LASER, A
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RUNNING LEDs FROM A 1V5 BATTERY [LED.]
CONFIDENTIAL: FOR ANTENNA TUNER USERS ONLY
HANDY-PACK, THE BUILD SOME PORTABLE POWER FOR YOUR HANDHELD
CONQUER COMMON-MODE LIMITS WITH DIFFERENCE-AMP IC [AMP.]
SINGLE-CHIP MODEM PROVIDES LOW-COST DATA COMMUNICATION
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DERIVE STABLE DC FROM AC CURRENT [DC./AC.]
PARALLEL PORT I/O BOARD, A CONTROL YOUR WORLD! [IO.]
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NEGATIVE RESISTORS ARE VERSATILE DESIGN AIDS
8BIT DAC CLOCKS AT 500MHZ [DAC.]
POINTING OUT A FEW DIFFERENCES (LLL)
COINCIDENT RECORDING AND STIMULATION OF SINGLE AND MULTIPLE NEURONAL ACTIVITY WITH ONE EXTRAC
BUILD AN ACTIVE ANTENNA
MAKE VIC TALK THIS LITTLE CHIP OFFERS BIG BENEFITS.
CALCULATING COMPONENT VALUES
SELECTION CRITERIA ASSIST IN CHOICE OF OPTIMUM REFERENCE
MULTIPLEXED INPUTS ON OP AMP SIMPLIFY A VARIETY OF CIRCUITS [MUX./OA.]
MULTIWIRE SECONDARY EMISSION PROFILE MONITOR FOR SMALL EMITTANCE BEAMS, A
VOLUME EXPANSION OF NONMYELINATED NERVE FIBERS DURING IMPULSE CONDUCTION
SILICON PHOTODIODE DETECTOR FOR A GLANCING-EMERGENCE-ANGLE EXAFS TECHNIQUE
SIMPLE APPARATUS FOR MEASUREMENT OF SMALL MAGNETOSTRICTION OF AMORPHOUS ALLOYS, A
SIMPLE WATER-STILL ALARM, A
6-METER OSCILLATOR, A [6M]
SIMPLEST MICROPHONE PREAMP, THE [AMP.]
LIMITER STEERED BY CURRENT
SIMPLIFIED DRIVER FOR 25V PULSES FROM 5V
MONOLITHIC OP AMP HITS TRIO OF LOWS [OA.]
SINGLE-CHIP CONTROLLERS COVER ALL RAMS FROM 16-K TO 256-K [RAM./16K/256K]
ANNUNCIATOR GIVES AUDIBLE PULSE COUNT
MANIPULATE CURRENT SIGNALS WITH OP AMPS [OA.]
FIND A COMMON DENOMINATOR IN CURRENT-LOOP SCALES
HAND-HELD, LOW-COST DATA LOGGER
FLOPPY-DISK INTERFACE CHIP CUTS PARTS, ADDS CONTROL
STOPPED-FLOW APPARATUS FOR PHOTOAFFINITY LABELING STUDIES IN THE MILLISECONDS TIME RANGE. APPL
BLOCKING OF IMPULSE CONDUCTION IN PERIPHERAL NERVES BY LOCAL COOLING AS A ROUTINE IN ANIMAL EXP
LOOP GAIN MEASUREMENT IN FEEDBACK AMPLIFIERS [AMP.]
TWO METER TRACKING TRANSMITTER LOW-COST BEACON. [2M]
CMOS LOGIC CREATES PRECISION WAVEFORMS [CMOS.]
EXPENDABLE BATHYTHERMOGRAPHS AS TEMPERATURE MICROSTRUCTURE PROFILERS
EXPERIMENTAL PERFORMANCE OF A BANDWIDTH ENHANCEMENT TECHNIQUE FOR PHOTODETECTORS [BW.]
IMPROVED HOT-WIRE PROCEDURE FOR THERMOPHYSICAL MEASUREMENTS UNDER PRESSURE
EXPERIMENTER'S METAL DETECTOR
EXPERIMENTING WITH AN INFRARED RECEIVER MODULE [IR.]
RAPID MECHANICAL AND THERMAL CHANGES IN THE GARFISH OLFATORY NERVE ASSOCIATED WITH A PROPAG
CAPACITOR PERMITS HIGHER SLEW RATES
DIRECT POTENTIAL MEASUREMENT IN THE PHOTOELECTRIC EFFECT EXPERIMENT, A
DIRECT-READING INSTRUMENT FOR MEASUREMENTS OF INDUCTANCE OF FERRITE-CORE COILS, A
CIRCUIT THEORY: THEVENIN'S THEOREM
CIRCUIT VOCALIZES DIALED PHONE NUMBERS
CIRCUIT CONVERTS PULSE TRAIN TO SINUSOID
VARIABLE SLEW-RATE FILTER TAMES NOISE
ZERO-DEGREE CALORIMETER FOR THE RELATIVISTIC HEAVY-ION EXPERIMENT WA80 AT CERN, THE [0DEG/CERN
FORCE MICROSCOPY WITH A BIDIRECTIONAL CAPACITANCE SENSOR

CAREFUL DESIGN TAMES HIGH-SPEED OP AMPS [OA.]
CIRCUIT FOR LEAD RESISTANCE COMPENSATION AND COMPLEX BALANCING OF THE STRAIN-GAUGE BRIDGE, A
FAST RECOVERY WITH A CONVENTIONAL PROBE
FASTER, CHEAPER MODEM ICS ARE WELL ON THEIR WAY
DESIGNING WITH HIGH-FREQUENCY PRESCALERS [HF.]
POSITION-SENSITIVE PHOTODETECTOR USING INTERDIGITAL ELECTRODES ON $Pb^{2+}CrO_5$ THIN FILMS
TEST GANGED POT TRACKING
INTERESTING "MELODY-MAKER" IC, AN
KATHAROMETER BRIDGE CIRCUIT WITH LINEARISING FEEDBACK, A
AUTOMATIC BRIGHTNESS CONTROLLER, AN
AUTOMATIC COMPENSATING MICRODOUBLEBALANCE
ASTABLE MULTIVIBRATOR, THE
EXTERNAL MICROPHONE FOR A HAND-HELD TRANSCEIVER
AUTOMATIC RECORDING OF DIRECT CURRENT SINGULARITY AMPLITUDES IN JOSEPHSON JUNCTIONS [DC.]
ULTRAFAST HYBRID COUNTER CONVERTS BCD INTO BINARY [BCD.]
GATED BASE-LINE RESTORER WITHOUT "DROOP"
ACTIVE ANTENNA FOR BETTER DX'ING
AUTOMATIC DOUBLE-STAGE WATER STILL, AN
ACTIVE HIGH-VOLTAGE DIVIDER AND PHASE SHIFTER, AN [HV.]
FET OP AMPS CONVERT PHOTODIODE OUTPUTS TO USABLE SIGNALS [FET./OA.]
ACTIVE ANTENNAS
AUTOMATIC DRIFT CORRECTION
BIT SYNCHRONIZER RECOVERS NRZ DATA FROM NOISY T1 LINES [NRZ.]
BATTERY-SENSE CIRCUIT DEACTIVATES QUICKLY
OPTICAL/ELECTRONIC TECHNIQUE FOR MEASURING BUBBLE COALESCENCE TIMES, AN
MATCHED JFETS PRECISELY CONTROL GAIN [JFET.]
FUTURE MODULATION AMATEUR TELEVISION SOMETIMES CALLED FREQUENCY MODULATION. [TV./FM.]
ULTRA LOW-NOISE PREAMPLIFIER FOR LOW-FREQUENCY NOISE MEASUREMENTS IN ELECTRON DEVICES [AMP.]
OPTICAL ISOLATION OPERATIONAL AMPLIFIER [OA.]
INTELLIGENT POWER SWITCH (LLL)
OPTICAL TWEEZERS USING A DIODE LASER
OPTOISOLATOR MAXIMIZES OP AMP'S RANGE [OA.]
SOURCE FOLLOWER LINEARIZES PHOTODIODE
FOURTEEN-DECADE PHOTOCURRENT MEASUREMENTS WITH LARGE-AREA SILICON PHOTODIODES AT ROOM TEMPERATURE
WAVES ON A RIPPLE-TANK SEEN BY A PHOTODIODE
DEVELOPMENT OF AN AUTOMATED ICE-BLOCK-MAKING SYSTEM UTILIZING WINTER OUTDOOR AIR
LOW-COST 16-LED LOGIC MONITOR, A [LED.]
NEW BNL HIGH-ENERGY GAMMA-RAY SPECTROMETERS, THE
LOW-POWER OP AMP DELIVERS PRECISION AT LOW SIGNAL LEVELS [OA.]
NEW SILICON AVALANCHE PHOTODIODE PHOTON COUNTING DETECTOR MODULE FOR ASTRONOMY, A [APD.]
LOW-DISTORTION AMPLIFICATION [AMP.]
MIXED-PROCESS, CMOS-DRIVEN POWER ICS COME SLOWLY BUT INEXORABLY TO MARKET [CMOS.]
SIX-CHIP SET RIDS IMAGING OF THE FLICKERS [6]
SUPPORT FOR YOUR BATTERIES
GAUGE GAAS ICS WITH DIGITAL SCOPES [GAAS.]
TRANSISTOR INPUT AND OUTPUT CAPACITANCES
SMALL BATTERY ENERGY STORAGE SYSTEM
MICROPROCESSOR-BASED HIGH AVAILABILITY IRRIGATION CONTROL SYSTEM, A [UP.]
MODULATION AND DEMODULATION

USE MOSFETS AS ACTIVE DUMMY LOADS [MOSFET.]
STEP-RECOVERY DIODES SHARPEN PULSES [SRD.]
FEEDBACK (LLL)
SWEEP GENERATOR PURE AND SIMPLE
EFFECT OF OPERATING CONDITIONS ON THE RADIATION RESISTANCE OF VDMOS POWER FETS, THE [DMOS./FE
OFFSET CANCELLATION IN THE XR-2206
LOG-RATIO MODULE MEASURES HIGH RESISTANCES
BUILDING A ROBOT FROM THE BOTTOM UP
SWITCH HIGH RESISTANCES ELECTRONICALLY
PLL LOCK INDICATOR [PLL.]
COMPUTING POWER BOOSTS SPEECH QUALITY
COMPACT PULSED MOLECULAR BEAM SYSTEM FOR REAL-TIME REACTIVE SCATTERING FROM SOLID SURFACES
SIMPLIFY FEEDBACK CONTROLLERS WITH A 2-QUADRANT PWM IC [PWM.]
TIME-RESOLVED MASS AND ENERGY ANALYSIS BY POSITION-SENSITIVE TIME-OF-FLIGHT DETECTION [TOF.]
SIMPLE SETUP FOR SINGLE AND DIFFERENTIAL PHOTOACOUSTIC SPECTROSCOPY
GENERATE SCALED INVERSE OF INPUT SQUARED
HUNT THE AUTO-FOX
CMOS-PROCESSED POWER-MOSFET DRIVER IC BOOSTS CMOS OR TTL LEVELS TO 18V, 6A [CMOS./MOSFET./TTL
PROTECTION CIRCUIT CUTS VOLTAGE LOSS
SMPS CORE SATURATION PROTECTION [SMPS.]
THREE-CHIP TRANSCEIVER HANDLES 64K BPS [3]
CIRCUIT FORMS PABX INTERFACE [PABX.]
VERSATILE FUNCTION GENERATOR
EARLY-WARNING INTRUSION ALARM, AN
CURRENT-CONTROLLED INDUCTANCE
DESIGNING SOLID-STATE RF POWER SUPPLIES (PART 3) [RF./PS.]
MOSFET CIRCUIT DEBOUNCES POWER RELAY [MOSFET.]
MOSFET SWITCHES MEMORY-SUPPLY CURRENT [MOSFET.]
CASCADING TIMERS EXTEND DELAY PERIODS
MOSFET VS. PULSE (LLL) [MOSFET.]
ALTERNATING PULSED MAGNETIC FIELD GRADIENT APPARATUS FOR NMR SELF-DIFFUSION MEASUREMENTS, AN
INTEGRATED CURRENT SENSING SIMPLIFIES MOSFET DESIGNS [MOSFET.]
BATTERY-STATUS INDICATOR
"FUNCTION GENERATOR" CIRCUITS (PART 2)
ADVANCES IN IC-TIMER TECHNOLOGY
POWER MOSFETS, THE [MOSFET.]
POWER FET SOFT-STARTS FILTER CAPACITOR [FET.]
TOWARDS PICOSECOND RESOLUTION WITH SINGLE-PHOTON AVALANCHE DIODES
POWER MOSFETS [MOSFET.]
PC DATA CAPTURE ADAPTER FOR A PHOTON CORRELATOR [PC.]
32-BIT SUPERMINI BUILT WITH BIT-SLICE IC FAMILY
Z80 BOOTSTRAPPING AND COMMINATION INTERFACE
D/A CONVERTER WITH $V=N^{-1}$ CONVERSION [DAC.]
DUAL-WAVELENGTH TEMPERATURE MEASUREMENT OF LASER-HEATED SILICON
EVALUATE SENSOR TRADEOFFS IN DIGITAL-THERMOMETER DESIGN
CHARACTERIZATION OF THIN-FILM NEGATIVE RESIST VIA PHOTO-FT-IR [FT./IR.]
PHASE-PLANE PLOTS
MEASURE, DISPLAY RELATIVE HUMIDITY [RH.]
MEASUREMENT OF CONTACT RESISTANCE WITH MICROAMPERE CURRENTS

HYBRID DETECTOR PROTECTS CIRCUITS FROM RADIATION
DECODE OVERLAPPED EPROM, RAM, AND I/O [EPROM./RAM./IO.]
MICROPROCESSOR-CONTROLLED SIT INVERTER FOR SOLAR ENERGY SYSTEM [UP.]
MIDI INTERFACE FOR THE IBM PCJR (LLL) [MIDI./PC.]
ONDI - THE ON-LINE DEVICE INTERFACE BUILDING A POWERFUL REMOTE CONTROL FOR YOUR PC (PART 1) [PC.]
AUDIO LEVEL DETECTION SYSTEM
SPEED CONTROLLER
ELECTROCHEMICAL PREPARATION OF PALLADIUM PH SENSORS, AN
CREATING A NONVOLATILE RAM MODULE [NOVRAM.]
ELECTRONIC CONTACT BREAKER
DIFFERENCE DETECTION SYSTEM FOR HIGH PRECISION MEASUREMENTS OF ULTRAFAST TRANSMISSION CHANNELS
FIFO EASES ADC-TO-UART INTERFACE [FIFO./ADC./UART.]
EZFET [FET.]
DIGITAL LOCK CIRCUIT
DIGITAL PHASE-LOCKED LOOPS MOVE INTO ANALOG TERRITORY [PLL.]
REGULATOR TRACKS 3 OUTPUTS, MONITORS CONTROLLING UP'S PULSES [UP.]
LIGHT-PARTICLE DETECTION WITH PLASTIC SCINTILLATORS COUPLED TO A PHOTODIODE READOUT SYSTEM
LOGIC PROBE HAS MEMORY
SIGNAL ACTIVATES BATTERY-POWERED CIRCUIT
BUILD AN AUTOMATIC FISH FEEDER
BUILD A REGENERATIVE VACUUM-TUBE RECEIVER
SLICE OF TIME, A
CHIP SET PUSHES FIBER LINKS TO 1.250 GBPS [1.250GBPS]
BUILD A LITZ DECODER TOUCH-TONE CONTROL YOUR SPEAKER FOR EMERGENCY ALERTS.
FLIP-FLOP ADDS POLLING TO ADC [FF./ADC.]
HALL-EFFECT CURRENT DETECTOR
PULSE-WIDTH MODULATED INPUTS TO MCS-48 [PWM.]
REMOTE IBM KEYBOARD OPERATION
SIMULATOR HONES DESIGN ACCURACY
SIMPLE DFM FOR 0 TO 20KHZ
SIMPLIFIED VARIABLE DELAY CIRCUIT DESKEWS POSITIVE AND NEGATIVE NRZI DATA TRANSITIONS [NRZ.]
TINY HYBRID DELIVERS KING-SIZED ISOLATION
MONOLITHIC RESOLVER/DIGITAL CONVERTER
SYNC SEPARATOR FLAGS ODD FIELDS
MONOLITHIC OPERATIONAL AMPLIFIERS [OA.]
CONVERTER INCREASES I/O-PORT CAPACITY [IO.]
SINGLE PULSE SWITCHOUT SYSTEM FOR A PASSIVELY MODE-LOCKED Q-SWITCHED ND:YAG LASER
SINGLE CABLE CARRIES BIDIRECTIONAL DATA
SENSING THE POSITION
TWO-CHIP SET SIMPLIFIES INTERNAL DISK DRIVE CIRCUITS [2]
ECONOMICAL METHOD FOR STUDYING VERY LARGE EXTENSIVE AIR SHOWERS, AN
PROGRAMMED FILTER STRIPS ALIASES BEFORE SAMPLING INPUT SIGNALS
STOPPING SYSTEM MEMORY AND BUS FROM PUTTING THE SQUEEZE ON FAST CPUS [CPU.]
TROUBLESHOOT AND REPAIR PORTABLE CASSETTE RECORDERS
'LORENZ ATTRACTOR' FROM AN ELECTRICAL CIRCUIT WITH UNCOUPLED CONTINUOUS PIECEWISE-LINEAR RESISTANCE
CLOSING THE LOOP (PART 2) DIVIDER CHAINS
IMPLANTABLE DEFIBRILLATOR WITH HIGH-OUTPUT PACING FUNCTION AFTER DEFIBRILLATION
RAPID AND EFFICIENT TRANSFER OF ENERGY BETWEEN INDUCTORS, WITH APPLICATION TO MAGNETIC RESONANCE
AMPLIFIER CLIP DETECTOR [AMP.]

CARRYING TWO CAPACITORS, CHOPPER-STABILIZED OP AMP PERFORMS WITH PRECISION [2/OA.]
CIRCUIT RECOGNIZES REAL-TIME DATA
NMR FREQUENCY TO MAGNETIC FIELD CONVERTER CIRCUIT WITH DIGITAL READOUT [NMR.]
SERVICING AUDIO AMPLIFIERS [AMP.]
CIRCUIT FINDS A FLOATING-POINT NUMBER'S MSB [MSB.]
BORBELY MOSFET OSCILLATION PROBLEM (LLL) [MOSFET.]
BORBELY MOSFET MOD (LLL) [MOSFET./MOD.]
TERMINAL-BASED ENGINEERING SYSTEM CUTS LOGIC-DESIGN TIME TENFOLD [10]
SERIAL NUMBER CHIP, MELODY MAKERS, SILICON PRESSURE SENSOR AND FREE SELECTION GUIDE
CIRCUIT USES FEWER PARTS THAN PREVIOUS IDEA (LLL)
MYSTERY COMPUTER REVEALED
DESIGNER'S GUIDE TO VIRTUAL MEMORY MANAGEMENT, A
DESIGN OF SELF-DIAGNOSIS SYSTEM FOR NUCLEAR INSTRUMENTATION
DESIGN AND LAYOUT OF A VIDEO GRAPHICS SYSTEM FOR REDUCED EMI [EMI.]
DESIGN BRIEF: 60W CUK CONVERTER
MOSFET MOD FOR THE DYNA ST-120 [MOSFET./MOD.]
EASIER ROUTE TO LIGHT MEASUREMENT, AN
AUTOCALIBRATION CEMENTS 16-BIT PERFORMANCE
INTEGRATING MORE ENGINEERING TOOLS, WORKSTATIONS ARE LINKING LOGIC SIMULATORS TO PROTOTYPE A
WATCHDOG CIRCUIT MAKES UP FAULT TOLERANT [UP.]
CUT NOISE IN ISOLATED CIRCUITS WITH VARIABLE-CARRIER AMPLIFIER [AMP.]
INTEGRATED BIPOLAR 200MBIT/S DATA REGENERATOR, AN
ACTIVE QUARTER-WAVELENGTH DIELECTRIC RADIATOR WITH CIRCULARLY POLARISED RADIATION PATTERN
FOURIER TRANSFORM INFRARED SPECTROMETER FOR A SINGLE AEROSOL PARTICLE [FT./IR.]
FAULT DETECTION OF I/O MODULE ACCESS [IO.]
DOUBLE SCROLL VIA A TWO-TRANSISTOR CIRCUIT [2]
TOUCH-TONE ACTIVATED SCANNER SO YOU WON'T MISS A CALL!
LOW-NOISE LOW-INPUT CONDUCTANCE PREAMPLIFIER FOR GRAVITATIONAL RESEARCH, A [AMP.]
POWER-ON DELAY
POWER SUPPLY SENTINEL [PS.]
OP AMPS [OA.]
PC-BASED STEPPER-MOTOR CONTROLLER, A [PC.]
TRANSIENT SUPPRESSION CIRCUIT
SMART SIPMOS(R) TECHNOLOGY [MOS.]
TRANSDUCER MEASURES RELATIVE HUMIDITY [RH.]
TECHNICAL TIPS
CYCOLOR PRINTING SECRETS
MICROPOWER OP AMPS LOW-CURRENT DEVICES OFFER HIGH PERFORMANCE [OA.]
SIDAC TRIGGERS XENON FLASHER
MODELS CAN MIMIC BEHAVIOR OF REAL OP AMPS [OA.]
RADIATION DETECTOR ACTIVATES ALARM
FREQUENCY-STABLE ELECTRO-OPTICALLY Q-SWITCHED ND:YAG LASER
PRECISION CIRCUIT MEASURES SHUNT RESISTANCE
PRECISION OP AMPS [OA.]
PRESCRIPTION FOR LINEAR ASIC'S, A [ASIC.]
PRESSURE SENSOR CONDITIONS SIGNALS
EFFICIENT NEGATIVE VOLTAGE REGULATION
DIGITIZE TRANSDUCER OUTPUTS DIRECTLY AT THE SOURCE
REGULATOR MANAGES BATTERY DEPLETION

FOLLOW DESIGN RULES FOR OPTIMUM USE OF FAST COMPARATOR IC (PART 1)
SPLIT SUPPLY OPERATES FROM A SINGLE CELL
MEMORY-MAPPED COPROCESSOR SPEEDS FLOATING-POINT MATH
COMPENSATE FOR DOPPLER SHIFT IN SATELLITE LINKS
LINEAR REGULATOR CUTS DROPOUT VOLTAGE
BANG-BANG CONTROLLER GOES GUNNING FOR SIMPLE, ACCURATE CONTROL LOOPS
BANG-BANG IC, A
HANDS-ON PRIMER SIMPLE TRIGGER CIRCUITS FROM TRANSISTORS
MONOLITHIC INSTRUMENTATION AMPLIFIERS [IA.]
SINGLE 1.5V CELL POWERS CRYSTAL OSCILLATOR
CONTROLLER KEEPS TEMPERATURE WITHIN +-5DEG C
SINGLE IC PROGRAMS FLASH MEMORY
TWO-WIRE TRANSMITTER PROMOTES PAINLESS PROCESS CONTROL [2]
CMOS INTERFACE IC, AIMING AT U REFERENCE POINT, TARGETS ISDN TELECOMM [CMOS./ISDN.]
ATOMIC AND IONIC FLUORESCENCE IN AN INDUCTIVELY COUPLED PLASMA USING HOLLOW CATHODE LAMPS PU
PROCESS TECHNOLOGY AND CIRCUIT DESIGN BUILD IC SWITCHER FOR ONE-CELL BATTERIES [1]
EXPLORING ELECTRONICS (PART 5) TRIGGERED CIRCUITS
CIRCUIT PROVIDES INTERFACE FOR TILT SENSOR
CURRENT DRIVES SYNCHRONOUS RECTIFIER
CIRCUITS ALLOW DIRECT DIGITIZATION OF LOW-LEVEL TRANSDUCER OUTPUTS (PART 1)
FUSE REPLACEMENT BY VARIABLE SEMICONDUCTOR
INSTRUMENTATION AMPS [IA.]
TEST YOUR ANALOG-DESIGN IQ (PART 2)
DESTABILIZED OP AMP PERFORMS ABYSMALLY [OA.]
SYSTEM FOR PHOTOGRAPHICALLY STUDYING DROPLET IMPACTION ON LEAF SURFACES, A
TEST DC/DC CONVERTERS WITH ISOLATED LOAD [DC.]
EASE BAR-CODE-READER DESIGN BY USING 8-BIT A/D CONVERTERS [ADC.]
BEST OF 1989 - ANALOG ICS 1989: THE YEAR OF THE OP AMP? [OA.]
PUSH SCSI PERFORMANCE TO THE LIMIT [SCSI.]
INSTRUMENTATION-AMP ICS: MORE PERFORMANCE FOR LESS JFETS, CHOPPERS BRING SPEED AND PRECISION
DESIGNING SWITCHERS GETS EASIER
OCTAL DAC CHIP'S INTERFACE MEETS PROCESSOR BUS DIRECTLY [DAC.]
INTERFACING OF A DIGITAL CORRELATOR WITH A PET MICROCOMPUTER
OPTO-ISOLATED HIGH VOLTAGE DRIVER [HV.]
INTERFACE CHIP LINKS FLOATING-POINT COPROCESSORS TO HOST TO FORM SUPERMINI LOOK-ALIKE
MATCH POWER-MOSFET PARAMETERS FOR OPTIMUM PARALLEL OPERATION [MOSFET.]
D.T.N. WILLIAMSON'S POWER AMPLIFIER, 1947 [AMP.]
ULTRA-ZENER, THE...IS IT A PORTABLE REPLACEMENT FOR THE WESTON CELL?
DETECTOR ENSURES SAFE CHRISTMAS
ULTRA-ZENER, THE - A PORTABLE REPLACEMENT FOR THE WESTERN CELL?
BATTERY POWER BREEDS EFFICIENT REGULATORS
FOUR STANDARD CIRCUITS CONVERT CURRENT-LOOP SCALES [4]
LEVEL TRANSLATOR SWITCHES MOSFETS [MOSFET.]
NEW OP AMP [OA.]
NEW & IMPROVED! RS-232 ANOTHER SERIAL INTERFACE STANDARD?
LOW-DRIFT OPTICAL-DENSITOMETER
LOW-NOISE DESIGN PRIMER, A
LOW-COST INSTRUMENTATION AMPLIFIER, VISIBLE LED LASERS AND A BIDIRECTIONAL FIFO, A [IA./LED./FIFO.]
POWER BUFFER BOOSTS REFERENCE'S CURRENT

POWER MOSFET SIMPLIFIES SINGLE-SLOPE ADC [MOSFET./ADC.]
REFLECTION HIGH-ENERGY ELECTRON DIFFRACTION INTENSITY OSCILLATION RECORDER FOR MOLECULAR-BE
YELPING SIREN
SELECTING THE OPTIMUM SWITCHING FREQUENCY FOR SWITCHER DESIGN
BIPOLAR ARRAY IC BUILDS HIGH-VOLTAGE ANALOG CIRCUITS NEARING GIGAHERTZ SPEEDS [HV./GHZ]
FISH FINDER EXPLOITS 16-BIT MICROCONTROLLER
IC INCREASES EFFICIENCY OF AC INDUCTION MOTORS [AC.]
ON-LINE TRIGGER PROCESSOR FOR LARGE TRANSVERSE ENERGY EVENTS, AN
SLIM DRIVE CIRCUITRY KEEPS A FLAT-PANEL DISPLAY FLAT
VOLTAGE-VARIABLE CAPACITORS
REMOTE CONTROL ICS MV500 AND MV601 (PLESSEY SEMICONDUCTORS)
IMPROVE CLOCK SYNTHESIS IN LAPTOPS WITH A FREQUENCY GENERATOR
LASING CHARACTERISTICS OF A NEW DCM DERIVATIVE UNDER FLASHLAMP PUMPING
NOTES TO ACCOMPANY A STUDENT LABORATORY EXPERIMENT ON CHAOS
ANALOG SWITCH ACHIEVES ZERO ON RESISTANCE [0]
HOME-BREW A TVRO DOWNCONVERTER - WORKS WITH LAST MONTH'S LNA [TVRO./LNA.]
1800-V 300-A NONDESTRUCTIVE TESTER FOR BIPOLAR POWER TRANSISTORS, AN [1800V/300A]
AMATEUR'S VERSION OF A. A. MICHELSON'S APPARATUS FOR MEASURING THE SPEED OF LIGHT, AN
FABRY-PEROT SOLID ETALON FOR TEACHING, A
MULTIPLE OUTPUTS FROM ONE D-TO-A [1]
RELAY HAS ELECTRICALLY RESETTABLE FUSE
SIMPLE GATEWAY FOR ODD NETWORKS, A
SINGLE CHIP CONVERTS RAM TO FIFO BUFFER MEMORY [RAM./FIFO.]
VENUS INNER DRIFT CHAMBER FOR A FAST Z-TRIGGER, THE
HARVARD ARCHITECTURE PUSHES MICROCONTROLLER IC INTO HIGH-SPEED REALM
HARVARD ARCHITECTURE PUSHES MICROCONTROLLER IC INTO HIGH-SPEED REALM
FAST ANALOG CHOPPER MULTIPLEXER FOR OSCILLOSCOPE RECORDING OF SINGLE-SHOT EVENTS [MUX.]
BEST OF 1988 - ANALOG & POWER
FAST MICROPROCESSOR FOR CONTROL APPLICATIONS, A [UP.]
FAST MICROPROCESSOR FOR CONTROL APPLICATIONS, A [UP.]
INTELLIGENT CAMAC I/O MODULE BASED ON THE SIGNETICS 8X300 MICROCONTROLLER, AN [IO.]
OCTAL TRIMPOTS COVER 0-TO-5-V SUPPLY RANGE [5V]
OCTAL TRIMPOTS OFFER RAIL-TO-RAIL ADJUSTMENT
SAW STABILIZED MONOLITHIC PULSE AMPLITUDE MODULATED MICROTRANSMITTER, A [SAW./AM.]
INCREASED RANGE FOR THE 8910 SOUND CHIP
FIFO TIDES OVER SERVO CONTROLLER [FIFO.]
DIGITAL READ-OUT INTERFACE BETWEEN A MULTICHANNEL ANALYZER AND A REMOTE COMPUTER, A
I/O EXPANSION FOR THE TRS-80 (PART 2) SERIAL PORTS [IO.]
WIPEOUT VIDEOGAME
VERSATILE DUAL AXIS PROGRAMMABLE STEPPING MOTOR CONTROLLER FOR A PERSONAL COMPUTER, A: A SP
LASER SYSTEM FOR MONITORING PHOTOMULTIPLIER TUBES IN COUNTER ARRAYS, A [PMT.]
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BAUD-RATE MATCHING FOR COCO
ASYNCHRONOUS DUAL-PORT RAM SIMPLIFIES MULTIPROCESSOR SYSTEMS [RAM.]
REGULATORS FOR DC GENERATORS [DC.]
AUDIO SCRAMBLING SYSTEM
DIGITAL AUTOTACH
BUILD THE SOUND SENTRY
BUILD A TOUCH-CONTROLLED SOLID-STATE SWITCH LOW-COST DEVICE CAN BE USED FOR TTL OR MOS [TTL./M

TELEPHONE DIALING BY COMPUTER
COMPONENT SPECIFICATIONS
SIMPLE DIGITAL FADING SIMULATOR FOR MOBILE RADIO, A
PROTOTYPE FLASH ADC SYSTEM FOR THE CDF VERTEX TIME PROJECTION CHAMBER [ADC./TPC.]
OZONE MONITOR USING AN LED SOURCE [LED.]
CMOS PLL'S [CMOS./PLL.]
LOOKING AT SIGNALS IMPOSSIBLE TO SEE WITH AN OSCILLOSCOPE
COPPERBACK BEETLE, THE A NEW TYPE OF "BUG."
CIRCUIT GRAB-BAG
DESIGN OF A MULTIMICROPROCESSOR-CONTROLLED PABX [UP./PABX.]
SHUTTER SPEED TIMER
COURTESY LIGHT EXTENDER
SQUARE-ROOT COUNTER CALCULATES DIGITALLY
SOUND-EFFECTS GENERATOR
GAUSSIAN NOISE GENERATOR WITH SPECIFIC AUTOCORRELATION PROPERTIES
SOUND-CONTROLLED SOUND GENERATOR
TOUCH 'ON', AUTO 'OFF' CONTROLLER FOR BATTERY-OPERATED EQUIPMENT
ELIMINATION OF OSCILLATOR COUPLING EFFECTS IN ION CYCLOTRON DOUBLE RESONANCE EXPERIMENTS
PLUG-IN MODULE REPLACES 2532 EPROM [EPROM.]
TRANSIENT EXPERIMENT USING A MULTIPLE-PULSE LASER LIGHT SOURCE
HOUSEHOLD BATTERY CHECKER
CHOOSE THE BEST SCSI ADAPTER ARCHITECTURE [SCSI.]
PHASE SHIFTER VARIES CLOCK-GENERATOR OUTPUT
DIAGNOSTIC SERIAL DATA LATCH, A
INDUSTRIAL COUNTER HANDLES WIDELY VARYING INTERVALS
BIDIRECTIONAL SWITCH REPLACES RELAYS
DEFS OF DISK DRIVES, THE
DIGITAL ELECTRONICS COURSE, THE AN INTRODUCTION TO LATCHES
BUILDING PLUG-IN CARDS FOR PC/COMPATIBLES [PC.]
PULSE DURATION COUNTER
SIMPLE THREE-PHASE VARIABLE-FREQUENCY OSCILLATOR, A [3/VFO.]
COMPUTER CONTROLLED PHOTODETECTOR SYSTEM FOR MONITORING RODENT MOVEMENTS IN EXPERIMENTAL
SINGLE PHOTON DETECTION AND TIMING SYSTEM FOR A LIDAR EXPERIMENT
NANOSECOND KILOVOLT PULSE GENERATOR USING MICROSTRIP CHARGING LINES ,A
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ULTRALOW REPETITION RATE SHUTTER MECHANISM FOR THYRATRON TRIGGERED PULSED LASERS
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HOURLY CHIMER, AN
SQUARE WAVE OSCILLATOR
COUNTER DEVELOPMENT CENTER
PLUG-IN MODULE AUTOMATES ON-SITE EPROM LOADING [EPROM.]
COUNTER MULTIPLIES BY PROGRAMMABLE FRACTION
DIVIDE-BY-5 CIRCUIT HAS 50% DUTY CYCLE
DIVIDER SPLITS THE DIVISOR
POWER SUPPLY [PS.]
MICROPROCESSOR CONTROL OF A TRANSISTORIZED INDUCTION HEATING POWER SUPPLY [UP./PS.]
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AUTOMATIC CAPACITANCE-VOLTAGE (C-V) PLOTTER FOR SOLAR CELLS
ACTIVE LOW-PASS FILTERS FOR CW OR SSB [LPF./CW./SSB.]
ULTRASONIC AMP NEEDS JUST 3.5UW [AMP.]
NEW IC'S FOR DIGITAL TV [TV.]
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PHASE MODULATOR HAS LOW PARTS COUNT
ONE-CHIP R-F MODULATOR FOR CRISP COLOR SIGNALS [1/RF.]
CHECK YOUR EXPOSURE TO POWER LINE FIELDS WITH THIS MAGNETIC FIELD STRENGTH METER
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SEMICUSTOM ASIC DESIGN FACILITY BASED ON LOGIC CELL ARRAYS [ASIC.]
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LOWERCASE-TO-UPPERCASE CONVERTER, A
LOW-POWER, NARROW-BAND FM IF [FM./IF.]
VSWR PROTECTION OF SOLID STATE RF POWER AMPLIFIERS [VSWR./RF./AMP.]
LOW-BATTERY ALARM WITH AUTOMATIC LOAD DISCONNECT
JOYSTICK INTERFACES
DC VOLTMETER SPEAKS ENGLISH [DC.]
CLASS-B OUTPUT WITHOUT ADJUSTMENT
REAL-TIME LSI CLOCK CHIPS EASE UP-CONTROL TASKS [LSI./UP.]
MEASURE POWER WITHOUT ISO AMPS [AMP.]
LOCAL AREA TIME DISSEMINATION BY CARRIER-CURRENT WAVES
MICROCOMPUTER INTERFACING: AN ANALOGUE-DIGITAL/DIGITAL-ANALOGUE CONVERTER [DAC.]
FEEDBACK, SENSITIVITY, AND STABILITY OF AUDIO POWER AMPLIFIERS [AMP.]
DIGITAL SIGNAL PROCESSING - A MODERN AUDIO FILTER [DSP.]
HIGHLY SENSITIVE SPECTROSCOPIC MEASUREMENT SYSTEM USING AN INGAAS PIN PHOTODIODE IN THE NEAR
BUILD THIS 20-WATT STEREO AMP [20W/AMP.]
BUILD A POWER CONTROLLER FOR AUTOMOTIVE ACCESSORIES
MILLION-POINT GRAPHICS TABLET, A [1000000]
SYNCHRONOUS SYSTEM MEASURES U-OHMS
CLOCKBOX, THE
CROSSING THE BRIDGE
POOGE-5: RITE OF PASSAGE FOR THE DAC960 A TWO-PART SAGA (PART 1) [DAC./2]
POOGE-5: RITE OF PASSAGE FOR THE DAC960 (PART 2) A TWO-PART SAGA
IMPROVED AUTOMATIC TEST SYSTEM FOR VLSI PARAMETRIC TESTING, AN [VLSI.]
NAP TIMER, A
VERSATILE APPARATUS FOR THE INVESTIGATION OF WAVEFORMS FOR MATRIX-DRIVEN LIQUID CRYSTAL DISPL
VERSATILE DATA-ACQUISITION SYSTEM BASED ON THE COMMODORE C-64/C-128 MICROCOMPUTER [DAS.]
NESTED DIFFERENTIATING FEEDBACK LOOPS IN SIMPLE AUDIO POWER AMPLIFIERS [AMP.]
PUTTING THE CHIPS THROUGH THEIR PACES IN THREE SYSTEMS [3]
DETECTION AND LOCATION OF FOREIGN METAL OBJECTS IN CONVEYED PRODUCTS, THE
DATA ACQUISITION AND SIGNAL PROCESSING USING A LAPTOP PERSONAL COMPUTER [PC.]
LOW-COST DATA ACQUISITION SYSTEM FOR THE APPLE II+ COMPUTER, A [DAS./2]
NEW DRIFT CHAMBER ELECTRONICS FOR HIGH ENERGY GAMMA RAY TELESCOPES
LOW-BATTERY THRESHOLD DETECTOR DRAWS ONLY 2 UA OF STANDBY CURRENT [2UA]
LOW-POWER CLOCK SERVES LOW-SPEED APPLICATIONS
BEAT OSCILLATOR FOR CODE (LLL)
AUDIO CONTINUITY TESTER INDICATES RESISTANCE VALUES
HIGH-POWER FET STEREO AMP [FET./AMP.]
DIGITAL PHASE SHIFTER FOR MULTIPLE PULSE NMR, A [NMR.]

SOLID-STATE CONSTRUCTION PRACTICES (PART 6) THE EXAM
TAPE HEAD AMPLIFIER [AMP.]
AIR CONDITIONER BROWNOUT PROTECTOR
CIRCUITRY FOR THE CONTACTLESS DETECTION OF SUPERCONDUCTING TRANSITIONS
DESIGN OF A 20 W L-BAND CLASS A AMPLIFIER [20W/AMP.]
DESIGN AND PERFORMANCE OF THE READOUT ELECTRONICS CHAIN OF THE DELPHI FORWARD RING IMAGING C
BATTERY POWERED HYGROMETER
INTERFACE FOR COMPUTER-BASED ALTERNATING CURRENT VOLTAGE CONTROL [AC.]
LOW-VOLTAGE MICROPOWER DUAL OP AMPS BUILD THE FUTURE [LV./OA.]
CRYOGENIC GAAS MESFET MAGNETIC RESONANCE SPECTROMETER FOR USE FROM 500 MHZ TO 3 GHZ [GAAS./
TRANSFORMERLESS DC-TO-DC CONVERTERS WITH LARGE CONVERSION RATIOS [DC.]
DAC FOR TRS-80 INTERFACING, A [DAC.]
PRECISION CHARGE AMPLIFICATION AND DIGITIZATION SYSTEM FOR A SCINTILLATING AND LEAD GLASS ARRAY
BUILD A POOR-MAN'S WOW & FLUTTER METER
BUILD THE LAWN RANGER (PART 3) THIS MONTH WE DISCUSS THE MOTOR-CONTROLLER BOARD
COMPUTER-OPTIMIZED LOW-NOISE BROADBAND AMPLIFIER [AMP.]
PERFORMANCE OF SILICON STRIP DETECTORS WITH 50 AND 100 UM STRIP DISTANCE [100UM]
LOW-NOISE HALL PROBE PREAMPLIFIER [AMP.]
40W ALL-MOSFET POWER AMP, A (PART 1) [MOSFET./AMP.]
40W ALL-MOSFET POWER AMP, A (PART 2) [MOSFET./AMP.]
LOWTHER 26W LL26 AMPLIFIER [AMP.]
REALIZATION OF LOSS-FREE RESISTIVE ELEMENTS
LOW-NOISE 2-4 GHZ PREAMPLIFIER, A (LLL) [4GHZ/AMP.]
40W STEP-UP DC/DC CONVERTER [DC.]
LOW-COST INDUCTION POWER SUPPLY FOR SUBSTRATE HEATING, A [PS.]
MODIFICATION OF AN INRAD AUTOTRACKER II FOR AUTOMATED SECOND HARMONIC GENERATION ANGLE SCAN
LOW-COST ANALYZER CONVERTS DATA PULSES TO HISTOGRAM
NEW HIGH-POWER OP-AMP, A [OA.]
PRINCIPLES OF POWER AMPLIFIER DESIGN - HIGH QUALITY CIRCUITS USING POWER DARLINGTONS [AMP.]
LOW-DRAIN REGULATOR EXTENDS BATTERY LIFE
SAWS! POWERFUL PASSIVES [SAW.]
HIGH REPETITION RATE PULSED NOZZLE BEAM SOURCE
HIGH-VOLTAGE TRANSFORMER FIRES HE-NE LASER TUBES [HV.]
BUILD AN ACTIVE POWER R BOX
60W NDFL AMP [AMP.]
60W NDFL AMP [AMP.]
POWER LINE FOR TIN LIZZY, A
REDUCING POWER CONSUMPTION BREATHING NEW LIFE INTO DATA LOGGING
HIGHLY SEGMENTED NAI(TL) DETECTOR WITH VACUUM PHOTODIODE READOUT FOR MEASURING ELECTROMAG
THREE LSI CIRCUITS SIMPLIFY DIGITAL-SWITCHING SYSTEMS [3/LSI.]
60-WATT SWITCHING POWER SUPPLY COMES TOGETHER FOR JUST \$37 [60W/PS.]
TECH TIPS CIRCUITS FOR THE EXPERIENCED CONSTRUCTOR
RECORDED MESSAGE
AUDIO RECORDING
BUILD A DIGITAL PHOTOTACHOMETER
TAILOR THE SOUND OF YOUR AUDIO SYSTEM WITH THIS STEREO PARAMETRIC EQUALIZER
SWITCHING REGULATOR WITH LOW DROP-OUT VOLTAGE
HANDS OFF INTERCOM
HANDS OFF INTERCOM

CONSTRUCTION PROJECT: A LOW DISTORTION SINEWAVE OSCILLATOR
CONSTRUCT THIS CLASSIC TRANSMITTER
APPLIANCE "OFF" REMINDER, AN
PORTABLE PA AMPLIFIER [AMP.]
DIRECT-CONVERSION F.S.K. RECEIVER [FSK.]
PUTTING MIC AMPLIFIERS ON THE LINE [AMP.]
LOW-POWER AMPLIFIER IC'S [AMP.]
LOW POWER AUDIO AMP [AMP.]
OP-AMP BASED CIRCUITS [OA.]
HEAT PEN PROJECT
MICROPROCESSOR-BASED TRAFFIC CONTROL SYSTEM, A [UP.]
TACHOMETER DRAWS LOW POWER
VIDEO TEST GENERATOR
AUDIO PRE AMP IC'S [AMP.]
STEPPER MOTOR DRIVE WITH SPEED STABILISATION
USEFUL AMPLIFIER CIRCUITS [AMP.]
WIEN-BRIDGE OSCILLATOR WITH HIGH-AMPLITUDE STABILITY, A
FREQUENCY CONTROL FOR A SYNCHRONOUS MOTOR INFUSION PUMP
OFFSETTING OP AMP FORMS LOW-THRESHOLD DETECTOR [OA.]
BEGINNERS' WORKSHOP A SERIES FOR THE WOULD-BE CONSTRUCTOR (PART 1) SETTING UP
ADJUSTABLE FUNCTION GENERATOR IS LOW IN COST
SIMPLE CMOS LOGIC CIRCUIT SOLVES NEARLY EVERYTHING [CMOS.]
SIMPLE INK-JET GRAVIMETER, A
COMPOSITE AUDIO POWER AMPLIFIERS [AMP.]
LINE-SYNCHRONIZED SAWTOOTH GENERATOR
WINNEBIKO'S SOLAR POWER SYSTEM, THE (PART 4) IN THE TECH NOMAD SERIES
LINE POWER FROM 12 VOLTS [12V]
TWO ICS MAKE LOW-COST VIDEO-DISTRIBUTION AMP [2/AMP.]
PROTECTED REGULATOR HAS LOWEST DROPOUT VOLTAGE
COOLED LOW-NOISE PREAMPLIFIER FOR A BOLOMETER [AMP.]
IMPROVE CIRCUIT PERFORMANCE WITH A 1-OP-AMP CURRENT PUMP [OA.]
LAPPACK, THE EXTENDED PORTABLE POWER FOR YOUR LAPTOP COMPUTER.
CURRENT-SOURCE ALTERNATIVES INCREASE DESIGN FLEXIBILITY
DISK-CONTROLLER IC VARIES SCSI BUS INTERFACE DESIGNS [SCSI.]
AUTOMOTIVE BATTERY/CHARGING SYSTEM ANALYZER
DETECTOR POWER SUPPLY FOR A CARLE BASICTM MODEL 6500 GAS CHROMATOGRAPH [PS./GC.]
MOTOR CONTROLLER RUNS OFF TWO LITHIUM CELLS [2]
SHUNT-EXCITED INDUCTIVE POWER LINK, A
FLUXGATE MAGNETOMETRY
DEVELOPMENT OF A LOW NOISE PREAMPLIFIER FOR THE DETECTION AND POSITION DETERMINATION OF SINGLE
LOW-COST DWELL METER
HOW TO DESIGN & BUILD POWER SUPPLIES (PART 1) [PS.]
LOW-POWER AUDIO AMP [AMP.]
LOW-COST A/D CONVERTER, A [ADC.]
LOW-NOISE LOW INPUT IMPEDANCE AMPLIFIER FOR MAGNETIC MEASUREMENTS OF NERVE ACTION POTENTIAL.
LOW-NOISE AMPLIFIER FOR RESOLVING THE RIGHT-LEFT AMBIGUITY IN DRIFT CHAMBERS [LNA.]
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LOW-POWER MAGNETIC CURRENT SENSOR DIRECT CURRENT IS SENSED VIA A SATURABLE-CORE REACTOR. [D
POWER BOOSTER OPERATES EFFICIENTLY

LOW-LEVEL MODULATOR SWEEPS GENERATOR OVER NARROW RANGE
LOW-DROP REGULATOR II [2]
HEADLIGHT ALARM
REALIZATION OF A LOW NOISE PREAMPLIFIER FOR LOW CAPACITANCE SOLID STATE DETECTORS [AMP.]
CHECKING THE OUTPUT FROM YOUR 2-METER HAND-HELD RIG [2M]
USE OF A MONOLITHIC DUAL JFET IN A LOW COST, LOW NOISE, CHARGE-SENSITIVE PREAMPLIFIER FOR SEMICOND
DIGITAL HIGH/LOW-PASS FILTER FEATURES VOLTAGE-ADJUSTABLE CUT-OFF POINTS [LPF.]
BUILD A DIODE TEMPERATURE PROBE
BUILD A LEGAL IN-FLIGHT AIRLINE RECEIVER
BUILD A REMOTE ANTENNA SELECTOR SWITCH
MULTIPLEXED SQUID VECTORMAGNETOMETER FOR BIOMAGNETIC RESEARCH [MUX./SQUID.]
SILVER CITY KILOWATT, THE OR, HOW TO BEAT THE HIGH COST OF POWER
IMPROVING YOUR ZX81
LIQUID HELIUM-COOLED MOSFET PREAMPLIFIER FOR USE WITH ASTRONOMICAL BOLOMETER [MOSFET./AMP.]
PERPETUAL PULSEWIDTH COUNTER
WARC BANDS AND 160 METERS ON THE 75S-1 [WARC./160M]
PORTABLE POWER FREQUENCY CHECKER
POSITION SENSITIVE HIGH RESOLUTION HODOSCOPE FOR PARTICLE UNSTABLE INTERMEDIATE MASS FRAGMENT
ROTOR ELECTROMETER: NEW INSTRUMENT FOR BULK MATTER QUARK SEARCH EXPERIMENTS
GETTING STARTED ON VHF: A 6-METER TRANSMITTER YOU CAN BUILD (PART 1) [VHF./6M]
SWTPC DMAF2 MODIFIED TO SUPPORT 5" DRIVES [DMA./MOD./5IN]
EXTENDING THE RANGE OF THE K9LHA 2-METER SYNTHESIZER [2M]
ALTERED AUDIO AMP (LLL) [AMP.]
METHOD FOR PERFORMING GAS GUN EXPERIMENTS IN TWO-DIMENSIONAL STRAIN [2]
MOUNTING A PAPER TAPE READER
LOW-POWER TRANSMITTER OFFERS WIDE BANDWIDTH [BW.]
LOW-PRICED LOGIC PROBE INDICATES LEVELS WITH TONES
POWER WATCHDOG
LOW COST LOCK-IN AMPLIFIER FOR AC POLAROGRAPHY, A [AMP./AC.]
NEW MAGNETIC TIME-OF-FLIGHT SPECTROMETER FOR ELECTRON SPECTROSCOPY, A [TOF.]
LOW NOISE WIDEBAND INSTRUMENTATION AMP [IA.]
LOW-NOISE BROADBAND TRANSMIT/RECEIVE CIRCUIT FOR NMR [TR./NMR.]
LOW-NOISE VOLTAGE-SENSITIVE PREAMPLIFIER WITH OUTPUT STABILIZATION BY POLE-ZERO CANCELLATION IN
LOW-COST RF CABLE MODEM FOR LOCAL AREA NETWORKS, A [RF./LAN.]
LOW-LOSS VOLTAGE DROPPER FEEDS S-M CONTROLLER
HIGH SENSITIVITY DIFFERENTIAL THERMOMETER
BUILD A LOW-COST WHITE/PINK NOISE GENERATOR
NOISE BEHAVIOR OF POLAR SOLVENTS IN LASER-EXCITED PHOTOIONIZATION, THE
SALLEN-KEY FILTER IS CURRENT DRIVEN
CROSS-QUAD QUIZZING
CURRENT MULTIPLIER FOR USE WITH ULTRAMICROELECTRODES
DESIGN AND CONSTRUCTION OF HIGH-SENSITIVITY, INFRARED BOLOMETERS FOR OPERATION AT 300 MK [IR./300
NEW OP-AMPS [OA.]
LOW-NOISE AC/DC VOLTAGE SOURCE WITH CONTINUOUS ZERO CROSSING [AC./DC.]
LOW-NOISE FET AMPLIFIER FOR DC SQUID [FET./AMP./DC./SQUID.]
LOW-COST CONDUCTIVITY APPARATUS, A
GO CLASS B OR C WITH POWER MOSFETS [MOSFET.]
ON THE DEVELOPMENT OF LIQUID IONIZATION DETECTORS AS SPECTROSCOPIC INSTRUMENTS
60 WATT VHF AMPLIFIER USING SPLITTING/COMBINING TECHNIQUES [60W/VHF./AMP.]

13 CM ATV DOWNCONVERTER, A [13CM/TV.]
60-WATT PEP LINEAR AMPLIFIER, A [60W/AMP.]
QUASI-RESONANT CONVERTERS - TOPOLOGIES AND CHARACTERISTICS
STARLAN TRANSCEIVER MAKES EASY CONNECTIONS FOR OFFICE PCS [LAN./PC.]
ADAPTIVE CONTROL OF A LABORATORY POWER SYSTEM
BUCK QUASI-RESONANT CONVERTER OPERATING AT CONSTANT FREQUENCY: ANALYSIS, DESIGN, AND EXPERIMENT
RADAR DETECTOR TESTER IS YOUR FRIEND'S RADAR DETECTOR AS GOOD AS YOURS? WHY NOT PROVE IT, THE
OFF-LINE APPLICATION OF THE FIXED-FREQUENCY CLAMPED-MODE SERIES RESONANT CONVERTER
HIGH-FREQUENCY, LOW VOLUME, POINT-OF-LOAD POWER SUPPLY FOR DISTRIBUTED POWER SYSTEMS, A [HF./MVA.]
BUILD A POWER-LINE CARRIER-CURRENT MODEM
SWITCHING CONVERTERS WITH WIDE DC CONVERSION RANGE [DC.]
SOLID-STATE 6-METER LINEAR AMPLIFIER YOU CAN BUILD, A [6M/AMP.]
SOME BASICS OF VHF DESIGN AND LAYOUT [VHF.]
SIMPLE POWER AMPLIFIER [AMP.]
SINGLE-CYCLE RESONANT CONVERTERS: A NEW GROUP OF QUASI-RESONANT CONVERTERS SUITABLE FOR HIGH POWER
COPPER-BASED HYBRID FABRICATION OF A 50-W 5-MHZ 40-V-5-V DC/DC CONVERTER [50W/5MHZ/40V/5V/DC.]
FARA PROJECT, THE AN ECONOMICAL, EASY-TO-BUILD, 25 WATT 2 METER AMPLIFIER. [25W/2M/AMP.]
MOSFET PROVIDES GLITCHLESS POWER BACKUP [MOSFET.]
MOUSE-FEET A 40 WATT QSK CW AMPLIFIER. [40W/CW./AMP.]
NEW MOSFETS SIMPLIFY HIGH POWER RF AMPLIFIER DESIGN [MOSFET./RF./AMP.]
NEW POWER HYBRID CIRCUITS
LOW-POWER, HIGH PERFORMANCE ELECTRODE AMPLIFIER FOR CLINICAL USE IN MYOELECTRIC CONTROL SYSTEMS
POWER-SWITCHING CIRCUIT
REACHING THE SHOT NOISE LIMIT IN THE POLARIZATION MEASUREMENT OF INDIVIDUAL NANOSECOND LIGHT PULSES
MODULAR TRANSMIT AND RECEIVE CONVERTERS FOR 902 MHZ [902MHZ]
USE POWER FETS TO DESIGN AC-LINE POWER CHOPPERS [FET./AC.]
USE OF A LARGE AREA PHOTODIODE IN CSI(TL) SCINTILLATION COUNTERS
HIGH-SPEED OUTLOOK SURFACE-MOUNT PIN DIODES FORM LINEAR SWITCHES
BUILD A THIRD-GENERATION PHONETIC SPEECH SYNTHESIZER [3RD]
FAIL-SAFE, REAL-TIME CLOCK FOR TRS-80 [RTC.]
SIMPLE INTERFACE DRIVES REMOTE LED DISPLAY [LED.]
LANG 20W CLASS-A MOSFET AMPLIFIER, THE [MOSFET./AMP.]
PERFORMANCE TEST OF A TMS CALORIMETER
DESIGN OF A FLEXIBLE POWER-SAVING LOGIC CIRCUIT FOR CMOS MICROPROCESSORS EMPLOYING POWER-DOWN MODES
DESIGN OF RADIO FREQUENCY SYSTEM FOR THE RIKEN SEPARATED SECTOR CYCLOTRON [RF.]
DESIGN AND CONSTRUCTION OF A LARGE CYLINDRICAL TRANSITION RADIATION DETECTOR FOR THE VENUS EXPRESS
ULTRA-LOW-NOISE, HIGH-IMPEDANCE PREAMP FOR CRYOGENIC DETECTORS [AMP.]
EXTENDING RS-232 LINKS
DEVICE FOR CONTROLLED INTENSIFICATION OF THE LIGHT OUTPUT OF XENON FLASH TUBES
HOW MANY HOURS ARE ON YOUR PHONO STYLUS?
CLASS-D ZERO-VOLTAGE-SWITCHING INVERTER WITH ONLY ONE SHUNT CAPACITOR [1]
VIDEO CONVERSION WITH ADCS AND DACS [ADC./DAC.]
BUILD LOW-COST PRECISION BAROMETER
NANOAMPERE COMPARATOR IC WITH STABLE OFFSET MANAGES INPUTS UNAIDED
MONOLITHIC OP AMPS [OA.]
AMPLIFIER SCHEME LOWERS DRIFT AND NOISE [AMP.]
IMPROVED PREAMPS PUT DAT BACK ON THE ROAD [AMP.]
FETS IMPROVE MOTOR-DRIVE EFFICIENCY [FET.]
EFFICIENT 30-W, 140-MHZ RF AMPLIFIER FOR CW CO2 WAVEGUIDE LASER EXCITATION [30W/140MHZ/RF./AMP./CW.]

90W POWER FLASHER
CLOSING THE LOOP
HOW FAR DID YOU CYCLE TODAY?
PRINCIPLES AND BUILDING OF SSB GEAR, THE [SSB.]
MULTIPLEX TEMPERATURE DATA [MUX.]
TEXAS INSTRUMENTS PROFESSIONAL COMPUTER, THE
MSX EXTENSIONS - 3 EIGHT-SLOT BUS BOARD (PART 3) [8]
VOX ACTUATOR FOR BABY ALARM
MAXIMUM VOLTAGE DETECTOR NEEDS NO A-D CONVERSION
RADIO CONTROL MIXER
ADDING RAM TO A HEX KEYPAD ENCODER [RAM.]
BUILD YOUR OWN FAT MAC
CONNECT PROM AS A RING COUNTER [PROM.]
EPROM PROGRAMMER [EPROM.]
DERBY FINALE
RESISTOR ARRAY DEBOUNCES D FLIP-FLOP MIXER [FF.]
ACTIVE MICROELECTRODE ARRAY TO RECORD FROM THE MAMMALIAN CENTRAL NERVOUS SYSTEM IN VITRO
OPTICAL OUTPUT PORT FOR YOUR COMPUTER, AN
PIXEL CLOCK GENERATOR NEEDS NO PHASE-LOCKED LOOP [PLL.]
TRIANGULAR WAVES FROM 555 HAVE ADJUSTABLE SYMMETRY
MULTIPLEXER DISPLAYS TWO PRESSURE SIGNALS ON SINGLE OSCILLOSCOPE CHANNEL [MUX./2]
ALARM FOR TOXIC GASES, AN
COMPLEX FILTER USING TWO I.CS [2]
BCC180 MULTITASKING CONTROLLER, THE (PART 2) EPROMS AND COMPILERS [EPROM.]
STIMULATION SYSTEM FOR ARRHYTHMIA SURGERY & ELECTROPHYSIOLOGIC STUDIES, A
NEXT COMPUTER, THE
NEXT ARCHITECTURE, THE: DESIGN FOR THE '90S?
DUAL-AMPLIFIER EXPANSION AND THE DESIGN OF VERY-LOW-FREQUENCY (VLF) HYBRID INTEGRATED ACTIVE F
SIGNAL PROCESSING WITH A SUMMING OPERATIONAL AMPLIFIER IN MULTICOMPONENT POTENTIOMETRIC TITR
SINGLE-CHIP ANALOG BUILDING BLOCK, A
MAXIMUM/MINIMUM VOLTAGE DETECTOR, A
30-METER-PLUS RECEIVER, THE [30M]
MC6801 OFFERS VERSATILITY
BUILD A COMPACT-DISK PLAYER [CD.]
SIMPLE MULTIPLEXED INTERFACE FOR THE MC6809 AND THE 146818 RTC [MUX./RTC.]
CONNECT TERMINALS TO YOUR CPU OVER PBX TELEPHONE LINES [CPU./PBX.]
AUTO-SWITCHING FILTER ARRAY FOR FREQUENCY MEASUREMENT OF UNSTABLE SIGNALS
METHOD AND APPARATUS FOR INTERRUPTED TRANSIT TIME TRANSIENT PHOTOCONDUCTIVITY MEASUREMENT
MICROSTEPPING DRIVE CIRCUITS
PRECISION TIMER IC DRIVES PRINTERS AND LED DISPLAYS [LED.]
USE A 12- OR 16-BIT ADC WITH AN 8-BIT UP [ADC./UP.]
BIOMEDICAL TELEMETRY: THE FORMATIVE YEARS
COSMAC ELF (PART 4) BUILD THE PIXIE GRAPHIC DISPLAY
DESIGNER'S GUIDE TO SYNCHRONOUS V/F CONVERTERS (PART 2) SYNCHRONOUS VFC ENHANCES ACCURACY
BUILD A DISCO PREAMP/MIXER [AMP.]
HCMOS ANALOG SWITCHES AND MULTIPLEXERS/DEMULTIPLEXERS [CMOS./MUX.]
MICROPROCESSOR-BASED BOXCAR SIGNAL AVERAGER [UP.]
SWITCHED-CAPACITOR FILTERS FOR FILTERING: IT'S SWITCHED-CAPACITOR ICS
MIXER WITH GAIN POLARITY CONTROL

TRANSISTOR AM RADIOS AS HAM RECEIVERS [AM.]
HIGH PERFORMANCE INTEGRATED CIRCUIT MIXERS
UNITING ULTRASONICS AND MICROELECTRONICS REAPS A COST-EFFECTIVE RANGING SYSTEM
BUILD A LASER-PRINTER CONTROLLER FOR THE PC AT [PC.]
SIMPLE AND RAPID AUTOMATIC DATA ACQUISITION SYSTEM FOR ION SELECTIVE ELECTRODES AND OTHER SENSORS
SAMPLING AUDIO MIXER
ULTRASONIC RANGING SYSTEM, AN BUILD THE SONARTAPE
UNDER CONSTRUCTION (PART 15) SOME POWER-SUPPLY DESIGN BASICS [PS.]
ELECTRONIC "NEURAL" NET ALGORITHM FOR MAXIMUM ENTROPY SOLUTIONS TO ILL-POSED PROBLEMS (PART 2)
V-F CONVERTER AND MICROCONTROLLER PRODUCE HIGH-RESOLUTION ADC [VFC./ADC.]
DIGITAL POTENTIOMETER BRINGS UP-BASED CONTROL TO AUDIO SYSTEMS [UP.]
BUILD THE CIRCUIT CELLAR MPX-16 COMPUTER SYSTEM (PART 2) A CONTINUED DESCRIPTION OF AN 8088-BASED
RELIABLE AUXILIARY SERVO CONTROLLER FOR CRITICAL PLANT OPERATION, A
MULTIPLEX 4-20 MA CURRENT SIGNALS [MUX./20MA]
WORLD BAND RADIO RECEIVER
HOW TO MEASURE TRANSCEIVER TR SWITCHING TIMES [TR.]
HEX DISPLAY HELPS GET THE BUGS OUT OF AN RS-232-C INTERFACE
CRYSTAL MICROWAVE
MAGNIFY YOUR CALCULATOR'S DISPLAY
WARC AND LF ON THE TR-7 [WARC./LF.]
DEVELOPMENT OF A MULTI-CHANNEL TELEMETRY SYSTEM WITH 256 DATA CHANNELS.
COMPUTER SPEECH SYNTHESIZER
POOGE-3
USING BALANCED MIXERS
DESIGN OF A POWER CONDITIONING UNIT FOR NONLINEAR SOURCE-LOAD SYSTEMS
DUAL-GATE GAAS FETS POWER UHF CIRCUITS [GAASFET./UHF.]
FAX MATE
ANALOG MULTIPLEXERS SWITCH HIGH VOLTAGES [MUX./HV.]
OPTICAL-FIBRE TRANSMISSION OF MULTIPLEXED VIDEO SIGNALS USING PULSE WIDTH MODULATION [MUX./PWM]
UNDERSTANDING KEYERS
ADD A KEYPAD TO YOUR NEXT PROJECT
CLEANING UP THE SKY BUDDY
SIMPLE SOURCE OF UNIFORM SIZED DROPLETS, A
SINGLE HEXFET, CURRENT-FED, UNIVERSAL SMPS, A [HEXFET./SMPS.]
PROGRAMMABLE TIMER
IMPROVING THE HW-9 TRANSCEIVER
DESIGNING A KEYBOARD CONTROLLER
TRUE-BLUE KEYS, THE - ITS SPEED READOUT DOESN'T LIE
REVERSIBLE POWER DRIVE (PART 2) J.M. SERVICE DESCRIBES A REVERSIBLE POWER FEED FOR THE MILLING M
KEYBOARD TESTER
THE WINNER: A CRYSTAL CONTROLLED FREQUENCY AND AMPLITUDE CALIBRATOR
SOLID-STATE RELAY OUTPERFORMS REEDS FOR SMALL ANALOG SIGNALS [SSR.]
SIMPLE FLYING SPOT SCANNER FOR ELECTRON BEAM LITHOGRAPHY ON A SCANNING ELECTRON MICROSCOPE
INSTRUMENT SYSTEM FOR LOW-FREQUENCY (10^{-3} - 10^3 HZ) IMPEDANCE MEASUREMENTS [LF./ 10^3 HZ]
CRYSTAL-CONTROLLED OSCILLATOR FOR TELESCOPE DRIVES, A
KEYBOARD AUTO-REPEAT CIRCUIT
KEYBOARD ENCODER
ASYNCHRONOUS SENSING FOR SORTING SMALL FRUIT
ADD FUNCTION KEYS TO YOUR MICROCOMPUTER EXPAND YOUR PARALLEL KEYBOARD

PENNY PINCHER'S JOYSTICK INTERFACE
KEYBOARD AUTO-REPEAT CIRCUIT
TOY ORGAN
MICROPROCESSOR KEYBOARD ENCODING [UP.]
DEVELOPMENT OF A NEW EXERCISE TEST FOR CHILDREN
MICROPROCESSOR TUTOR Z80-BASED UNIT HELPS TO TEACH MICRO-CENTRED CIRCUIT DESIGN [UP.]
FREQUENCY-MODULATED Q-METER FOR VERY LOW-TEMPERATURE NMR EXPERIMENTS, A [FM./NMR.]
BUILD A HARDWARE DATA ENCRYPTOR
CUTTING DOWN ON CURRENT DRAIN (LLL)
CRYSTAL-CONTROLLED TELEMTRY SYSTEM FOR LONG-TERM ACQUISITION OF PHYSIOLOGICAL DATA
MEASUREMENTS OF THE KINETICS OF METAL OXIDATION USING A SOLID STATE ELECTROCHEMICAL CELL
68000 BOARD - 2
CW6805, THE - AN INEXPENSIVE MORSE KEYBOARD [CW.]
SHIFT REGISTER AND COMPARATORS MAKE EFFECTIVE KEYLESS LOCK
EXPERIMENTING WITH CRYSTAL OSCILLATORS
"CRYSTAL BRIDGE" FOR MEASURING THE EQUIVALENT ELECTRICAL PARAMETERS OF PIEZOELECTRIC CRYSTAL
HW-9 THUMP SUPPRESSERS
ANALYSIS OF INVERTER CRYSTAL OSCILLATORS, AN IMPROVING PERFORMANCE OF A COMMON CIRCUIT
VARY THE SPEED OF SYNCHRONOUS MOTORS WITH THIS PROGRAMMABLE CONTROL
SURGICALLY IMPLANTABLE, CRYSTAL-CONTROLLED, TEMPERATURE TELEMTRY TRANSMITTER
OXYGEN ASHING ATTACHMENT FOR A FURNACE ATOMIZER POWER SUPPLY [PS.]
FLYBACK DC-DC CONVERTERS STABILIZED BY USING RIPPLE [DC.]
KEYBOARD CIRCUIT
COMPUTER CONTROLLED LIGHT METER
HIGH-STABILITY QUARTZ CRYSTAL MICROBALANCE ELECTRODE FOR SIMULTANEOUS SOLUTION-PHASE ELECTRODE
GENERAL ASPECTS OF AN ASYNCHRONOUS DELTA MODULATED INVERTER WITH RL LOADS [DM.]
TOP LOADING, VERY LOW-TEMPERATURE, X-BAND, MICROWAVE SPECTROMETER, A
CRYSTAL TESTER FOR RF OSCILLATORS IN THE RANGE 1-120 MHZ. [RF./120MHZ]
CROGENICALLY COOLED BROAD-BAND GAAS FIELD-EFFECT TRANSISTOR AMPLIFIER [GAASFET./AMP.]
TIE INTO HAM REPEATERS WITH THIS LOW-COST AUTOPATCH
6L6 SPECIAL, THE
STEP-BY-STEP DESIGN YIELDS BATTERY SUPPLY FOR PORTABLE UC
HIGH GAIN MICROPOWER AMPLIFIER FOR CRYOGENIC APPLICATIONS [AMP.]
NEW METHOD FOR RAISING NEONATAL RABBITS IN A HYPOXIC ENVIRONMENT, A
ASYMMETRICAL-TO-SYMMETRICAL CONVERTER
DIGITAL X-Y OSCILLOSCOPE DISPLAY
BUILD A KEYBOARD CONVERSION CIRCUIT
PILOT-LAMP CONTROLLER STABILIZES CRYSTAL OVEN
SOLID-STATE 75A-4 RECEIVER, A
COLOR COMPUTER FROM A TO D (PART 1) MAKE YOUR COLOR COMPUTER "SEE" AND "FEEL" BETTER
SUPERCHARGED CRYSTAL RADIO
EXPERIMENTING WITH A JOYSTICK (PART 2) SOME TYPICAL APPLICATIONS
IMPROVED CRYSTAL TESTER, AN CHECK OUT THOSE SURPLUS CRYSTALS WITH THIS PORTABLE CIRCUIT.
PORTABLE 60-HZ "CLOCK" OSCILLATOR [60HZ]
FAST ANALOG MEAN-TIMER, A
DESIGN MODIFICATION FOR A UNIFORM DROPLET GENERATOR SYSTEM [MOD.]
SMT PROJECT: I-R REMOTE ON A KEYCHAIN [SMT./IR.]
OPTICAL POWER FOR SENSOR INTERFACES
ULTRASONIC EXPERIMENTS ILLUSTRATE DOPPLER AND DIFFERENTIAL TIME-OF-ARRIVAL MEASUREMENT TECHNIQUES

DO IT YOURSELF COLOR ALIGNMENT
TRANSISTOR APPLICATIONS
REFLECTION OSCILLATORS CONTAINING SERIES-RESONANT CRYSTALS TRANSISTORS OPERATE BEYOND THE
HIGH-SENSITIVITY MICROWAVE OPTICS
UNIVERSAL CRYSTAL OSCILLATOR, A
SOME BASICS FOR EQUIPMENT SERVICING (PART 1)
CONSTRUCT A VHF/UHF SIGNAL GENERATOR [VHF./UHF.]
FINISHING UP THE KEYBOARD ENCODER
TAPPED COIL CRYSTAL RADIO
CHROMA-KEYING WITH THE ARCHER SPECIAL EFFECTS GENERATOR
FAST LAMBDA/4 AND LAMBDA/2 VOLTAGE POCKELS CELL DRIVER FOR AN INTERNALLY SEEDED AND CAVITY DU
BASICS OF TRANSMITTERS, THE (PART 11)
NATURAL CRYSTAL RADIO
HOW TO DESIGN OSCILLATOR CIRCUITS (PART 5)
HOW RECEIVERS WORK (PART 10)
DRY CELL CHARGER
CRYSTAL-CONTROLLED Q METER, A
CRYSTAL CHECKER
CRYSTAL CALIBRATOR HAS PULSED OUTPUT
JOYSTICK INTERFACE
BUILD A HOMEMADE SIGNAL GENERATOR
SWITCH-MODE POWER-SUPPLY ICS EXTEND PERFORMANCE BOUNDARIES [SMPS.]
SOME BASICS FOR EQUIPMENT SERVICING (PART 3)
MICROWAVE CRYSTAL OSCILLATORS
NEGATIVE RESISTANCE DESIGN FOR CRYSTAL OSCILLATORS
BUILD A 40-M CUBIC INCHER [40M]
TEST CIRCUIT FOR OVERTONE CRYSTALS
KEYBOARD ENCODER SENDS SWITCH CLOSURE INFO, TOO
OPERATION OF SWITCH-MODE POWER SUPPLY AT LOW AC VOLTAGES [SMPS./AC.]
DYNAMIC PROGRAMMING-FINITE ELEMENT PROCEDURE FOR THE DESIGN OF NONLINEAR MAGNETIC DEVICES, A
EXPERIMENTAL ACTIVE KEY-CLICK FILTER
SMALL RADIOGRAPH (DENTAL INTRA-ORAL) NUMBERING SYSTEM, A
IMPEDANCE MONITOR TO PROTECT THE THYRATRON IN METAL VAPOR LASERS
PRODUCTION OF SLOW POSITRON BUNCHES USING A MICROTRON ACCELERATOR
CRT CONTROLLER ADDS SYSTEM CAPABILITIES [CRT.]
AND OTHER MATTERS (LLL)
ENCODING CIRCUITS FOR AUDIO AND VIDEO NRZ SIGNALS IN THE VLBI MARK II STANDARD [NRZ./2]
IMPLEMENTATION OF A PSEUDO 2-D MEDIAN FILTER FOR IMAGE ENHANCEMENT
BUILD A 10-MHZ FREQUENCY COUNTER [10MHZ]
ANALOG-DISPLAY DIGITAL CLOCK, AN
CHANNEL CAPACITY ENHANCEMENT IN SEGMENTED FIBRE-OPTIC DATA COMMUNICATION LINKS
HIGH-RESOLUTION SPRITE-ORIENTED COLOR GRAPHICS
ANOTHER FUZZ BOX
V-F CONVERTER OFFERS 120-DB DYNAMIC RANGE [VFC./120DB]
1HZ TO 30MHZ VOLTAGE TO FREQUENCY CONVERTER [VFC.]
DISPLAYING CO₂ WAVEFORMS ON A BLOOD PRESSURE MONITOR
LOW-COST LN₂ MONITOR, A
NEGATIVE GOLD ION GUN FOR LIQUID SECONDARY ION MASS SPECTROMETRY [MS.]

Sheet1

MAG,C	VOL,	INO,N,	YMMMD	P,N,4,	AUTHOR,C,18
ELTO	9	8	850800	41	HOWES,M.
REW	0	0	840600	61	SILVESTER,D.
EEU	2	1	911100	52	RUFFELL,J.
INJO	66	6	890600	921	AL-KARAWY,S.M.
68MI	4	10	821000	29	GRAVES,D.J.
MIMI	8	6	840700	274	GUNASINGHAM,H.
EDN	27	21	821027	242	WILLIAMS,D.
EVEL	15	11	861100	593	TOOLEY,M.
ANCH	54	6	820500	1022	BRESTOVISKY,A.
EDN	29	18	840906	213	GATTAVARI,G.
MIRF	25	5	860500	179	HORVATH,J.
QEX	0	34	841200	8	BRITAIN,K.
ANCH	53	2	810200	351	NAU,V.J.
ITNS	33	1	860200	893	DRAKE,G.
COPR	21	5	810900	32	CARR,J.J.
ELWI	91	1591	850500	67	SMITH,K.L.
RAEL	61	1	900100	41	ROBINSON,J.J.,II
INCI	1	1	830100	74	DEININGER,R.A.
80M2	0	67	850800	80	ALFORD,R.C.
NIM	213	2	830801	553	BHATTACHARYA,R.C.
73AM	0	274	830700	90	GURURAJ,G.
RESC	54	11	831100	1578	DUFFY,W.,JR.
EWWW	96	1652	900600	497	HARPHAM,S.
ETI	7	7	830700	49	MARKWICK,B.
JOPH	13	6	800600	614	BOHIDAR,H.
ELWI	95	1640	890600	574	DELANEY,P.M.
QEX	0	29	840700	7	VARNER,D.G.
RAFU	0	3	911000	4	ELKINS,J.W.,JR.
QST	61	3	770300	48	SWARD,W.
RESC	63	9	920900	4066	RUAN,S.
ELEN	64	784	920400	34	DESAI,R.G.P.
M049	57	2	900200	78	BONTRAGER,D.A.
ELEN	56	696	841200	41	MARSHALL,I.
LAPR	33	9	840900	112	EWEN,G.J.
PE	6	8	890800	75	YACONO,J.
JOCH	65	11	881100	1005	BEATTLE,J.K.
73AM	0	338	881100	45	FERRELL,P.J.
RESC	50	1	790100	127	MANDL,A.
RAEL	58	11	871100	43	GREEN,B.
ELDE	41	7	930401	54	VARGHA,D.
PE	7	1	900100	33	GREEN,B.
RESC	63	3	920300	1927	PRESTON,C.M.
RAEL	61	9	900900	61	ORTMAN,R.
CQ	46	2	900200	44	ADAMS,W.M.
JOCH	59	1	820100	65	WARNER,B.D.
ELTO	8	9	840900	57	PENFOLD,R.A.
TOEL	0	8	860400	31	
JOCH	67	6	900600	507	PARIS,M.R.

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ELEN	64	782	920200	9
ELHA	0	0	861000	26 HOWARD,D.W.
RCM	16	1	790100	62 CHRISTENSEN,G.
MEBI	22	6	841100	609 BREEDIJK,M.
NIMA	235	1	850301	26 HELLER,R.
ETT	14	6	900600	77 EVERS,T.
ELDE	36	23	881013	111 CRISP,R.
QST	68	9	840900	11 MUNYON,D.
73AM	0	299	850800	14 SIMPSON,L.
ELDI	7	1	860000	82 CAMPBELL,B.
68MI	7	3	850300	45 MCDANIEL,J.A.
APSP	46	6	920600	900 BRILL,T.B.
EEU	2	6	920400	43 BARENDRECHT,J.
7ART	0	383	920800	30 DAULTON,P.G.
80M2	0	36	830100	358 PARRIS,M.
COCH	8	3	840300	169 VAN DEN BELT,T.
ITNS	35	1	880200	436 LO,C.C.
80M1	0	30	820600	310 HAAN,D.
NIM	205	0	830100	167 CASOLI,P.
REW	0	0	840200	27
IJSS	11	1	760200	115 SEQUIN,C.H.
HARA	14	11	811100	50 KRAUSS,G.H.
REW	0	0	830300	62 ROBERTS,H.
RAEL	52	12	811200	43 COHEN,J.
ITCS	35	12	881200	1551 ZHANG,Z.
73AM	0	326	871100	90 BRYCE,M.
PE	7	3	900300	49
ITCS	33	12	861200	1248 DAVIS,A.M.
RAEL	62	5	910500	49 TRIETLEY,H.L.
EWWW	97	1665	910800	693 FROST,B.
QST	70	6	860600	27 JANSSON,D.
RESC	58	12	871200	2271 BRAUN,W.
QST	66	4	820400	25 HOAG,W.
ELTO	10	1	860100	55 EGGLETON,R.
ELEC	53	11	800508	170 JAMIESON,J.
PE	9	11	921100	46 JOHNSON,D.A.
MIMI	15	10	911200	559 FAULKNER,A.
ELEC	48	24	751127	133 COLE,B.
POEL	12	3	770900	67 MEYER,M.
POEL	12	4	771000	88 MIMS,F.M.
ELMU	4	7	880700	127 RYCKEBUSCH,J.
MCJ	3	1	920100	15 MACDONALD,J.
EDN	32	13	870625	280 FATUR,T.C.
73AM	0	356	900500	24 COWHIG,D.
EDN	38	10	930513	158 SIMPSON,C.
EDN	27	22	821110	155 WILLIAMS,J.
EWWW	97	1671	920200	142 BROWN,A.
RAEL	54	7	830700	47 HUNTER,W.W.
PE	6	6	890600	39

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EDN	30	16	850711	286 GYLES,C.
WW	87	1551	811200	47 WILSON,B.
RESC	59	1	880100	163 PUNKKINEN,R.K.
7ART	0	384	920900	50 GRAF,R.F.
73AM	0	271	830400	38 BECKER,W.
ITIM	30	2	810600	132 DE MARCHI,A.
EDN	27	18	820915	193 CONANT,P.L.
73AM	0	322	870700	32 BLOOM,R.E.
RESC	61	7	900700	1979 CILLOCO,F.
RCM	15	8	780800	74 STEINER,G.
QST	55	12	811200	34 BROWN,F.
EDN	37	7	920330	136 GARCIA,A.
QST	62	8	780800	11 GRAY,D.
EDN	31	6	860320	181 STITT,R.M.
QST	66	6	820600	42 COLLINS,G.
QST	62	8	780800	16 DEMAW,D.
7ART	0	388	931000	10 WELCH,J.
7ART	0	385	921000	20 CUNNINGHAM,J.
ITPE	6	1	910100	127 MAKSIMOVIC,D.
QEX	0	33	841100	8 BOWMAN,C.
CQ	40	7	840700	52 REED,J.C.
ELDE	29	25	811210	178 DEUTSCH,R.W.
HARA	20	2	870200	72 HINSHAW,J.
73AM	0	338	881100	39 WITMER,B.
IEEB	138	2	910300	95 HAMADA,S.
EWWW	97	1675	920600	517
EWWW	99	1683	930200	165
ELDE	40	9	920501	91 WILCOX,M.
ELDE	33	30	851226	73 NELSON,C.
ELPR	34	3	910800	65
MOEL	5	3	880300	66 HELMS,H.L.
M172	38	4	910400	767 WILSON,C.R.
MEIN	18	6	841100	326 STAUFFER,P.R.
ELEN	59	729	870900	35 AUSTIN,W.M.
ELEC	49	10	760513	95 CICCHIELLO,F.N.
CODE	25	1	860101	65 HAYES,N.M.
73AM	0	267	821200	51 REIS,A.B.
NIMA	222	3	840501	524 BENINATI,A.
PE	9	8	920800	45 LISLE,L.
RAEL	58	2	870200	92 SCOTT,R.F.
BYTE	6	11	811100	36 CIARCIA,S.
ELTO	10	10	861000	32 BEDROSIAN,D.
73AM	0	355	900400	46 GEIER,M.J.
7ART	0	383	920800	22 SHEETS,W.
ELWI	95	1643	890900	909 YATES,D.
ETT	12	4	880400	39 WILCOX,A.
EDN	28	25	831208	330 MURUGESAN,S.
RESC	50	8	790800	1010 PODOLSKE,J.
EDN	31	21	861016	130 CONNER,M.S.

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CICE	0	21	910600	38 BUTLER,J.
NIMA	244	3	860401	440 GRAY,R.
RAEL	60	6	890600	79 MCILHANY,B.A.
MIMI	13	6	890700	413 BONING,W.
ELWI	94	1625	880300	234 CAIN,S.
POEL	11	2	770200	66 GARNER,L.
ELDE	38	13	900712	83 HEARD,C.
RFDE	13	6	900600	71 THOMPSON,M.W.
JOAU	38	6	900600	440 ADAMS,R.W.
68MI	4	7	820700	23 ABRAMS,C.W.
MOEL	5	5	880500	63 MIMS,F.M.,III
73AM	0	358	900700	44 BLEHER,W.
ELEC	49	25	761209	99 WILLIAMS,M.D.
ELEN	61	755	891100	21 SHEPERD,I.E.
ELDE	40	19	920917	89 XIA,Y.
ELEC	49	3	760205	103 WAKERLY,J.F.
NIMA	269	3	880620	455 ONODERA,T.
RESC	50	7	790700	882 THOMSON,F.J.
ELDE	39	2	910131	64 WYATT,M.A.
68MI	8	12	861200	37 GREEN,S.I.
KIMI	6	2	820200	122 WACHTER,G.
JOMA	72	2	870400	334 CORY,D.G.
BYTE	7	1	820100	216 ERNDE,H.K.
EDN	29	20	841004	254 MASSERY,D.
ELDE	28	21	801011	210 WHELESS,T.
POEL	11	1	770100	48 MARKEGARD,D.
POEL	10	6	761200	64 TENNY,R.
MIMI	13	3	890400	149 SMITH,R.M.
ELDE	38	9	900510	104 MOHR,D.R.
RESC	54	11	831100	1446 SCHMIDT,M.
ELEC	49	8	760415	136 SMITH,R.J.
COEL	22	1	840100	62 DESPOSITO,J.
LAMI	3	4	840400	127 EVERETT,S.
POEL	20	1	820100	68 DANZER,P.
POEL	16	1	790700	54 GILDER,J.
ELTE	3	2	800200	18 EL-TOBGY,I.
KIMI	6	1	820100	102 CARR,E.Q.
JONE	18	3	861100	295 ALARCON,G.
MOEL	6	5	890500	28 JIMINEZ-G,R.
GLAU	4	1	920100	33 GRAHAM,P.W.
EDN	30	4	850221	130 SMITH,D.
BYTE	6	7	810700	38 CIARCIA,S.
BYTE	10	5	850300	183 FIELD,J.C.
RAEL	56	4	850400	78 SAVADE,E.
HAEL	5	8	880800	65 SWAIN,G.
M033	5	3	850900	166 OLSEN,D.
RESC	61	12	901200	3726 PANNING,W.
ELEN	58	719	861100	40 PRESTON,T.J.
ITIM	34	1	850300	6 FORGACS,R.L.

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7ART	0	378	920300	40 RAKES,C.D.
ELDE	28	5	800301	109 O'FARREL,J.J.
ELDE	27	6	790315	50 MATTERA,L.
ELDE	33	23	851003	115 HANSFORD,A.
RESC	57	7	860700	1416 NEELAKANTAN,K.
ELDE	30	21	821014	243 MUTAGI,R.N.
MEIN	21	6	871200	304 HARRIS,G.F.
ELDE	33	26	851114	264 PANASUK,C.
ELDE	37	2	890126	134 HOLMES,T.
ITIM	39	4	900800	676 CHUNG,W.-S.
ELWI	92	1606	860900	63
RAEL	59	6	880600	65 LANCASTER,D.
ELDE	37	9	890427	108 KHALSA,N.S.
QST	72	4	880400	46 STUNTZ,S.
HARA	19	12	861200	67 CARR,J.
RESC	48	9	770900	1219 CONRADI,M.S.
ELDE	26	24	781122	160 TANDON,V.B.
EDN	31	6	860320	234 GONZALES,D.R.
ELEC	51	12	780608	120 NICOLL,A.J.
73AM	0	339	881200	14 NEAL,R.
RAEL	62	8	910800	50 AVRITCH,S.
ELDE	36	9	880414	121 FUNK,R.E.
WW	89	1565	830200	49 DRIELS,M.R.
RESC	51	7	800700	926 MASTNER,J.
JOCH	66	5	890500	410 TANG,T.B.
QEX	0	63	870500	7 PERKINS,F.H.,JR.
BYTE	5	7	800700	22 CIARCIA,S.
EWWW	97	1676	920700	587 CONWAY,D.F.
7ART	0	363	901200	57 LEAVEY,M.I.
MIMI	10	9	861100	500 TAN,B.T.G.
JOPH	17	11	841100	1062 BIANCHI,D.
NIMA	235	3	850415	536 CORREIA,C.B.A.
ITNS	35	1	880200	436 DHAWAN,S.K.
ANCH	52	2	800200	379 ANDRESEN,B.D.
RAEL	60	9	890900	33 BAUMGARTNER,F.
80M2	0	66	850700	84 ALFORD,R.C.
BYTE	7	7	820700	360 BARDEN,W.,JR.
JOPH	22	3	890300	154 RIDLEY,B.H.
EDN	32	17	870820	219 WILLIAMS,J.
RAEL	54	4	830400	153 SCOTT,R.F.
MOEL	5	6	880600	75 HELMS,H.L.
RAEL	59	9	880900	37 GREEN,B.
RAEL	53	1	820100	81 COHEN,J.
ANCH	59	23	871201	2747 HUANG,X.
PE	10	3	930300	46 BLECHMAN,F.
INJO	64	5	880500	787 SHARMA,S.K.
AUAM	18	1	870100	30 BORBELY,E.
ELWI	93	1615	870500	507
M058	0	0	870000	22 POWELL,G.

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NIMA	275	1	890201	192 BANCROFT,P.G.
M134	27	1	900200	70 TAMIYA,T.
EEU	2	2	911200	71 LORENZ,D.
ELDE	28	14	800705	125 SPENCER,J.
M007	21	3	870500	57 GAINES,J.
NIM	211	1	830601	17 EHRLICH,R.
DIDE	11	4	810400	94 OKLOBDZIJA,V.G.
EEU	2	2	911200	48 RIGBY,A.
ESD	19	10	891000	73 MUELLER,D.
POEL	15	6	790600	51 CARR,J.J.
PE	10	3	930300	31 IOVINE,J.
ELEN	55	677	830500	45 HARRIS,D.
EDN	30	3	850207	199 MITHANI,D.
M043	9	7	900200	42 BARDEN,W.,JR.
PE	9	3	920300	70 RAKES,C.D.
EDN	31	6	860320	191 WILLIAMS,J.
RAEL	59	3	880300	59 MARSTON,R.
EWWW	97	1672	920300	256 HICKMAN,I.
CQ	41	1	850100	88 MATH,I.
CQ	41	2	850200	22 MCCOY,L.
COEL	21	9	830900	80 STONER,T.
EDN	30	2	850124	248 KARMARKAR,V.
REW	0	0	840600	103
HARA	15	7	820700	12 HELFRICK,A.D.
ELEC	49	10	760513	94 GERGEK,F.
M002	13	146	870600	47
NIMA	290	2	900510	445 CORREIA,C.M.B.A.
ELEC	50	21	771013	108 JOHNSON,B.
WW	89	1567	830400	67 EWINS,A.J.
ITBE	34	4	870400	265 GALBRAITH,D.C.
RESC	51	7	800700	951 AOKI,T.
QST	66	3	820300	40 BRADSHAW,N.H.
HRH	4	3	800300	66 HART,T.M.
CICE	0	25	920200	74 NISLEY,E.
CQ	41	4	850400	116 MATH,I.
73AM	0	292	850100	30 FOUNTAIN,E.
73AM	0	348	890900	78 LEAVEY,M.I.
CQ	43	7	870700	38 JACKSON,A.H.
HAEL	5	7	880700	86 RAKES,C.D.
BYTE	12	4	870400	113 BROWN,K.
ELDE	35	15	870625	109 MEGO,T.J.
EDN	37	18	920903	135 KESTER,W.
EDN	30	12	850530	63 CORMIER,D.
NIMA	301	2	910301	279 BIANCO,S.
HAEL	2	2	840200	71 CLARKE,J.
ITPE	6	1	910100	141 MAKSIMOVIC,D.
EDN	35	15	900719	192 WILLIAMS,J.
ELEN	56	689	840500	43 ARGENT,M.G.
EWWW	97	1674	920500	413

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EDN	29	21	841018	307 WILLIAMS,J.
ELDE	30	6	820318	211 MAIN,R.
CICE	0	18	901200	50 LEVY,M.A.
BYTE	11	1	860100	105 CIARCIA,S.
RFDE	3	5	800500	6 LEIGHTON,L.
RAEL	54	7	830700	80 SCOTT,R.F.
73AM	0	298	850700	50 KATZ,S.
ETI	6	5	820500	41
EEU	2	7	920500	50 REELSON,H.
JOPH	18	11	851100	904 DEVANAND,K.
M054	35	3	870800	141 RAO,V.P.
MIAP	10	1	870100	63 VERMA,H.K.
MIAP	7	1	840100	51 SINGH,L.
MIMI	7	7	830900	324 JAMZADEH,F.S.
MIAP	12	1	890100	41 DESAI,B.T.
M105	3	1	870300	21 GERSHON,P.D.
ITIE	37	1	900200	77 EL-BOLOK,H.M.
ITIE	37	2	900400	152 EL-BOLOK,H.M.
ITBE	29	7	820700	551 BROWN,T.J.
ELTO	9	11	851100	55 SILVESTER,D.
WW	88	1556	820500	51 HAMMOND,G.C.
ITIM	31	1	820300	56 WEITZEN,J.A.
JOPH	13	5	800500	557 GRIMBLEBY,J.B.
M030	29	6	840600	745 GRIFFIN,D.W.
ELAU	52	12	901200	102 ROWE,J.
ITBE	33	12	861200	1137 GE,J.-G.
CICE	1	2	880300	32 NISLEY,E.
ELLE	25	2	890119	92 PADIN,S.
POEL	20	1	820100	65 HIRSCHL,J.
COCH	12	1	880100	39 MILETIC,M.
HARA	21	8	880800	54 OWENS,R.
M098	0	7	890200	11 WRIGHT,R.
ELNO	64	3	930300	83 PLAVCAN,A.E.
POEL	20	6	820600	84 MIMS,F.M.
RESC	50	5	790500	602 ZELLER,C.
RAEL	57	3	860300	90 GROSSBLATT,R.
CICE	1	1	880100	35 NISLEY,E.
MIAP	11	1	880100	67 VERMA,H.K.
ELWI	95	1643	890900	898 LEVELL,R.
ELWI	90	1585	841100	43 ADAMS,J.H.
ITIM	37	4	881200	600 RAJKUMAR,A.D.
PE	6	2	890200	46 RAKES,C.D.
CICE	0	11	891000	22 RINALDI,D.
RAEL	63	3	920300	53 BLACK,T.E.
ELEN	58	713	860500	50 PETROURE,T.
IJEE	25	1	880100	59 YEUNG,W.K.
MOEL	7	10	901000	34 MELTON,J.
MESC	3	1	920100	98 RAO,Y.-J.
7ART	0	364	910100	27 BRUMBAUGH,J.F.

Sheet1

CQ	39	2	830200	36 SCHULTZ,J.J.
ITCE	36	4	901100	933 BALASUBRAMANIAN,K.
JOPH	16	8	830800	733 HARTLEY,B.W.
ANIN	17	1	880100	87 SIN,C.H.
M172	38	4	910400	817 MULLIGAN,W.J.
ELEC	51	11	780525	132 SINNETT,J.C.
ITBE	31	10	841000	675 GRAHAM,A.J.
MOEL	6	9	890900	36 SHOEMAKER,C.D.
JOPH	15	1	820100	74 JOHNSON,G.
ELDE	32	8	840419	208 BREIVOGEL,B.
JOPH	13	5	800500	542 KOCHER,E.R.
ANCH	53	2	810200	356 SCHER,A.
JOPH	15	7	820700	771 MALCOLME-LAWES,
HARA	19	12	861200	25 HILDRETH,D.E.
NIMA	317	1	920615	28 ELLETT,J.
RAEL	55	11	841100	96 DARR,J.
HAEL	3	7	861200	92 RAKES,C.D.
QST	70	1	860100	18 ABRAMS,C.W.
BYTE	10	1	850100	223 BANES,V.
M002	17	190	910600	63 KOLTER,H.
CICE	0	20	910400	41 VOGEL,E.
RAEL	62	7	910700	53 BARBARELLO,J.J.
POEL	7	2	750200	70 MCGAHEE,T.
RESC	54	12	831200	1719 PROFFITT,M.H.
ELEC	55	15	820728	119 PATIL,V.L.
TRIN	8	1	860100	46 VASU,E.
RESC	60	3	890300	456 LAWSON,M.A.
RAEL	61	4	900400	66 GROSSBLATT,R.
REW	0	0	840400	27 DICK,J.
NIM	199	0	820800	505 GOSWAMI,G.C.
JOPH	20	5	870500	502 ROBINSON,F.N.H.
ELWI	93	1600	860200	33 KRAUS,K.
ELEC	56	1	830113	169 SUNDQVIST,B.
QST	69	12	851200	52 NICHOLS,E.P.
ETI	7	4	830400	46
ETT	13	4	890400	9 RIMMER,S.
ETT	13	5	890500	55 RIMMER,S.
CICE	0	19	910200	22 SCHULZE,D.P.
EDN	36	6	910314	140 KUECHLE,D.
JOPH	13	7	800700	729 BHOSALE,S.B.
ELEC	52	17	790816	132 WAGNER,W.S.
POEL	10	5	761100	41 MEYER,M.
73AM	0	275	830800	88 JOFFE,A.S.
POEL	15	1	790100	81 MIMS,F.M.
JOPH	20	3	870300	338 ALANI, A.H.
EUMI	6	2	800200	111 JULLIERE,M.
JOPH	16	9	830900	836 CMORETTO,G.
RESC	49	5	780500	617 FRANCIS,M.S.
AUEL	8	12	751200	43 STELLEMA,L.

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73AM	0	256	820100	68 STARK,P.A.
QST	67	4	830400	45 DEMAW,D.
RESC	55	12	841200	2017 NEWCOME,B.H.
ELEC	49	13	760624	107 HILEMAN,D.
RESC	60	10	891000	3265 BUNDGAARD,J.
MBE	14	6	761100	699 LYNN,P.A.
PE	9	10	921000	42 VOLLONO,V.
ELDE	29	5	810305	140 D'AMICO,A.
M075	54	4	771000	143 BRANDON,C.
ITCS	36	8	890800	1128 DEVILLE,Y.
NATE	0	0	900700	14 HUSTON,S.W.
COCR	1	1	910400	54 MANGIERI,A.A.
PE	10	6	930600	70 RAKES,C.D.
RAEL	57	6	860600	42 GROSSBLATT,R.
NIMA	267	2	880501	351 HAHN,S.R.
HARA	22	6	890600	17 CIARALLO,N.
80M1	0	17	810500	236 SUTER,L.
80M2	0	68	850900	76 ALFORD,R.C.
LAMI	7	4	880400	132 HILL,E.
INJO	67	4	891000	577 WOJTYNA,R.
COCR	2	8	920800	36 PORTUGAL,R.J.
M067	8	2	870200	165 ALI,J.S.
RAEL	60	7	890700	10
INJO	69	5	901100	603 BHAMA,S.
POEL	15	1	790100	82
BYTE	10	10	851000	101 KELLEY,C.
INJO	63	4	871100	509 ABUELMA'ATTI,M.T.
MOEL	7	10	901000	7 BOLLINGER,E.A.
M172	37	5	900500	1343 LIEW,B.-K.
JOPH	19	12	861200	1013 PRASAD,M.
RAEL	55	7	840700	74 MALEY,D.
NUIN	173	0	800600	1 MONNIN,M.M.
IEEE	128	3	810500	95 NEALE,D.F.
COCR	3	9	930900	64 AXELSON,J.
EDN	33	14	880707	276 CREASON,S.C.
EDN	32	1	870108	167 ROBERTSON,W.H.
JOPH	21	12	881200	1154 NATH,D.N.
BYTE	3	1	780100	94 BANKS,W.
EDN	36	15	910718	192 COX,B.T.
CHBI	12	1	820100	33 CHUNG,H.L.
RAEL	51	12	801200	49 MCCLELLAN,G.
HARA	20	1	870100	101 GRIFFITH,B.
HARA	14	5	810500	93 SHAPIRO,G.
QST	71	4	870400	51 BARTLETT,F.A.
73AM	0	349	891000	80 REED,J.
ELDE	31	25	831208	218 PLATE,H.
AUAM	20	2	890400	16 MORTENSEN,H.J.K.
HAEL	5	6	880600	26 RIGGS,T.A.
ITIE	39	1	920200	74 CHU,H.-Y.

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CQ	46	12	901200	44 STEER,C.
ITNS	33	1	860200	122 APSIMON,R.J.
M149	48	1	930100	65 GOKMEN,A.
EDN	28	10	830512	151 TRAVIS,B.
RESC	51	6	800600	795 BASSI,D.
RAEL	55	8	840800	57 MARGOLIN,S.M.
ELEC	56	2	830127	112 BARNETT,T.G.
JONE	5	4	820500	309 MCCLELLAN,A.D.
ELHA	0	0	861000	22
RESC	56	9	850900	1734 NEDVIDEK,F.J.
ELDE	32	5	840308	60 BIANCOMANO,V.
BYTE	7	9	820900	64 CIARCIA,S.
RAEL	60	3	890300	33 MCCOMB,G.
EDN	31	14	860710	262 O'FARRELL,J.J.
HAEL	4	10	871000	92 RAKES,C.D.
ANCH	51	8	790700	1149 NOTTENBURG,R.
PE	9	7	920700	59 CARR,J.J.
RAEL	60	2	890200	44 MCNABB,J.
WW	89	1567	830400	69 FORRESTER,T.D.
RAEL	62	5	910500	56 BARBARELLO,J.J.
M049	55	2	880200	118 RIPLEY,B.D.
PE	6	11	891100	23 WELS,B.G.
ELNO	62	12	921200	63 MARSTON,R.M.
RAEL	53	4	820400	32 KRAUSE,D.
HARA	22	2	890200	82 CARR,J.
M125	3	2	900400	89 MOELL,J.
EWWW	96	1649	900300	213 KHAZANOV,S.
CODE	24	9	850801	97 BROWN,G.
MEBI	19	2	810300	208 PEPPER,M.G.
CQ	48	7	920700	80 ORR,B.
FAJO	7	5	790900	18 VAECHES,T.
RESC	58	7	870700	1185 HWANG,I.H.
RESC	50	1	790100	9 TOMOV,I.V.
RAEL	59	7	880700	41 HECKT,N.W.
RAEL	61	4	900400	69 RENTON,P.
CQ	47	3	910300	48 BUNN,H.P.,II
CICE	0	29	921000	40 HOUGHTON,B.
QST	67	2	830200	26 NOBLE,F.
QST	69	5	850500	37 DEMAUW,D,
ITIA	25	2	890300	326 BHAT,A.K.S.
QST	73	12	891200	22 BEDNAR,J.
AMJO	56	8	880800	739 GOULD,L.I.
ITIE	31	4	841100	385 TROTT,G.W.
RESC	49	9	780900	1279 BRODBECK,C.M.
ETI	8	5	840500	18 MCMAHON,D.C.
ELDE	38	19	901011	117 BURSKY,D.
ITBE	36	7	890700	720 JAEGER,R.J.
IJEE	24	1	870100	41 LANGMAN,R.D.
MIMI	11	6	870700	330 KOVACEVIC,F.

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ITPE	5	2	900400	191 ADDOWEESH,K.E.
INJO	69	2	900800	305 HILLOOWALA,R.M.
RAEL	56	11	851100	45 FLACK,J.
ANIN	15	3	860300	215 NELSON,G.
AUAM	20	1	890200	48 JOHNSON,A.
QST	66	12	821200	39 COLLINS,G.
COEL	21	2	830200	95 FOX,T.
COEL	21	1	830100	74 FOX,T.
RAEL	63	4	920400	57 DAGE,D.
JOCH	58	9	810900	732 BAILEY,R.A.
MEBI	20	5	820900	645 BOLTON,M.P.
BYTE	6	3	810300	317 ORLOFSKY,T.P.
ELNO	64	4	930400	71 FOURNIER,M.
HAEL	2	3	850300	78 FRIEDMAN,H.
RAEL	58	10	871000	60 GROSSBLATT,R.
MIMI	12	7	880900	383 CATALFO,J.M.
ELWI	91	1592	850800	64 HUNT,J.R.
ELEC	55	24	821130	116 KERBER,R.J.B.
CODE	19	11	801100	232 GREENWOOD,B.
HAEL	5	1	880100	49 DAVIDSON,H.L.
MOEL	8	2	910200	58 MIMS,F.M.,III
IJEE	25	4	881000	303 PAULL,C.J.
NIMA	237	3	850701	554 VAN EIJK,P.J.A.
CQ	43	6	870600	28 KATZ,S.
MIMI	8	2	840300	58 CHANDRA,R.C.
M083	24	3	880800	99 ZHENG,D.
BYTE	3	3	780300	178 HUGHES,P.
BYTE	8	8	830800	430
TCA	17	3	890300	35 BLICK,A.
RESC	53	8	820800	1290 LANDIS,G.
POEL	14	2	780800	66 GARNER,L.
NIM	192	0	820100	315 BOLOGNA,G.
ELNO	63	7	920700	33 STROUD,L.M.
EDN	38	19	930916	113 DAVIS,D.
ITBE	38	10	911000	933 KACZMAREK,K.A.
EDN	28	2	830120	188 HAGEMAN,S.
RESC	58	12	871200	2249 NAYAK,D.
EEU	2	4	920200	46
RESC	55	7	840700	1149 CIBILS,R.M.
JEPT	7	2	810100	9 ANDERSON,R.J.
7ART	0	382	920700	32 WITMER,J.R.
ELTO	11	2	870200	78 POWER,J.
QST	61	2	770200	19 DEMAW,D.
CQ	38	5	820500	36 SCHULTZ,J.J.
MESC	1	9	900900	980 HALAS,S.
ANCH	52	2	800200	367 BOND,A.M.
ELLE	28	5	920227	493 WANG,J.
ELDE	37	16	890727	67 SHERMAN,L.
ELEN	56	685	840100	27 CATTO,C.J.D.

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M002	17	190	910600	20 NISCHALKE,K.
MEBI	20	4	820700	457 MODESTO,J.P.
EDN	29	24	841129	169 RODRIGUES,A.
NIM	188	0	810900	497 BADTKE,D.H.
ELDE	38	20	901025	123 GOODENOUGH,F.
SICH	4	10	911000	54 YATES,D.
7ART	0	382	920700	26 PIVNICHNY,J.
ELDE	28	7	800329	75 HARAYDA,G.M.
ELDE	29	26	811224	137 WITTLINGER,H.A.
TOEL	0	8	860400	17
EDN	35	19	900917	228 UNDERWOOD,B.
CICE	0	28	920800	50 DAHLIN,T.
EWWW	98	1678	921000	854 GOUGH,R.
ELDE	41	11	930527	77 GRIMM,M.
POEL	19	1	810100	43 PRENTISS,S.
M012	82	1	870700	126 LEPAGE,E.L.
RESC	50	9	790900	1062 MILLER,G.L.
MEBI	28	2	900300	198 MCROBBIE,D.W.
73AM	0	260	820500	58 GIBSON,S.
RESC	52	7	810700	1079 BORDONI,F.
RAEL	62	10	911000	72 LANCASTER,D.
TOEL	0	8	860400	13
EDN	31	11	860529	49 FREEMAN,E.
ANCH	55	7	830600	1186 IRGUM,K.
NUIN	180	0	810200	137 ASENOV,S.
RESC	61	11	901100	3390 SEIDMAN,D.N.
POEL	11	4	770400	68 GARNER,LOU
RAEL	52	12	811200	51 TALBOT,D.
AMJO	47	5	790500	464 CHADDA,S.
RAEL	61	4	900400	59 LANCASTER,D.
CQ	48	9	920900	126 MATH,I.
ITED	29	1	860200	30 KHAN,A.A.
HAEL	5	2	880200	35 BUCK,S.E.
CEE	28	9	841100	68
RESC	55	8	840800	1333 HAWARY,M.M.
ELWI	90	1581	840600	39 ADAMS,J.H.
JOMA	50	3	821200	349 BONORI,M.
RAEL	59	8	880800	88 NICHOLS,K.
JOPH	15	9	820900	951 PAKULSKI,G.
APSP	36	3	820500	203 HAUGEN,G.R.
ELDE	37	6	890323	99 GOODENOUGH,F.
RESC	63	5	920500	2940 ZUCCHERETTI,E.
RESC	51	11	801100	1569 SZCZUREK,T.
ITMA	23	2	870300	1417 KNEISEL,P.
RAEL	52	12	811200	80 FRIEDMAN,H.
CODE	19	8	800800	14 WILLARD,D.G.
EWWW	96	1649	900300	217 MICHELE,F.
EWWW	97	1668	911100	917 VERSHINKIN,V.V.
RFDE	15	5	920500	46 BABIN,D.

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MIMI	12	6	880700	345
ELEC	56	21	831020	139 PSHAENICH,A.
ELEC	49	8	760415	173 MORLEY,R.E.
NIMA	222	1	840515	364 SNYDER,P.A.
HARA	11	1	780100	81 POLLOCK,J.W.
MADE	54	1	820107	124 DAVIS,R.
AGEN	63	4	820400	22 ALLISON,J.M.
ITCE	30	3	840800	481 APETZ,U.
ITIA	25	4	890700	588 LIU,C.-H.
NATE	10	4	860700	36 WOELLER,F.H.
PE	9	6	920600	53 CARR,J.J.
HAEL	2	4	850400	53 PAYNE,E.A.
CLEN	12	1	870100	37 FERRIS,C.D.
JOPH	16	7	830700	643 RAMACHANDRAN,R.
QST	66	9	820900	14 HADORN,U.
73AM	22	9	820600	12 AHRENS,T.
RFDE	5	5	820900	40 SUCKLE,L.I.
JOPH	22	8	890800	551 EDGAR,A.
POEL	14	3	780900	87 GARNER,LOU
RESC	56	10	851000	1870 CIMA,G.
RFDE	6	1	830100	38 PORTER,J.
CEA	1	1	851200	5 PAGE,E.W.
EDN	27	17	820901	177 AHRENS,T.
M047	3	4	890700	73 MEYER,W.T.
PHED	17	1	820100	14 SUMMERS,M.K.
PHED	17	2	820300	70 SUMMERS,M.K.
ELHA	0	0	861000	40
JOMA	46	2	820201	233 IGNER,D.
73AM	0	281	840200	77 SCHMARDER,D.
EDN	29	20	841004	201 MUNICH,S.
QST	71	5	870500	23 MCINTIRE,G.
HARA	22	7	890700	62 PIVNICHNY,J.
BYTE	3	4	780400	114 CIARCIA,S.
ELDE	35	27	871112	133 HASSAN,Z.
EDN	29	15	840726	365 KHAN,M.U.
ELDE	36	3	880204	97 CARLSON,B.
ELDE	31	18	830901	164 POLLAN,T.
RESC	57	6	860600	1179 KOJIMA,A.
JOPH	13	5	800500	522 ROGER,G.
RESC	60	1	890100	90 WEGRZYN,J.
ELDE	31	10	830512	165 PSHAENICH,A.
ELWI	90	1579	840400	30 BARTH,A.J.
RESC	50	11	791100	1433 KOSKI,O.H.
NIM	185	0	810600	75 CRITTENDEN,R.R.
73AM	0	268	830100	12 PERKINS,F.H.
NIMA	300	1	910101	1 ITAHASHI,T.
ELDE	40	17	920820	51 GOODENOUGH,F.
CQ	39	7	830700	24 MARCELLINO,F.T.
M036	6	6	870900	47 DANIEL,B.

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RAEL	60	9	890900	47 SHEETS,W.
CQ	46	7	900700	60 MANDELKERN,M.
INJO	70	2	910200	367 JOU,H.-L.
EWWW	97	1663	910500	442
PCTE	3	5	850500	101 COVINGTON,M.A.
JOMA	38	2	800315	219 ELLIS,P.D.
ELWI	92	1604	860600	62
RAEL	59	4	880400	55 STROUD,L.M.
EDN	28	21	831013	255 STEELE,J.
ITPD	6	2	910400	536 SHAKARJIAN,D.R.
ELEC	53	12	800522	138 WOODY,R.F.
EEU	2	5	920300	42 REELSEN,H.
RAEL	62	10	911000	33 STEVENS,A.
REW	0	0	840400	61
EWWW	99	1684	930300	227 CRONK,J.
ELEN	63	780	911200	32 OLORODE,A.
M080	27	284	900800	58 KIHARA,S.-I.
EWWW	97	1663	910500	421 DENNISS,P.
MESC	3	3	920300	283 REYNOLDS,S.
PE	63	12	921200	51 KREUTER,R.A.
HAEL	4	1	870100	79 VIESCA,F.G.
73AM	0	269	830200	10 STUDENBERG,F.
WW	88	1554	820300	54 KIRBY,S.
ANIN	20	2	920200	171 RAMALEY,L.
RESC	51	4	800400	504 WALTON,K.R.
ELMA	20	2	920300	149 AGARWAL,P.
EDN	32	5	870304	131 REIDY,J.
EDN	29	1	840112	290 BANYAY,P.
EDN	27	22	821110	174 BURANI,R.
ITNS	37	2	900400	566 WILBANKS,T.
POEL	19	2	810200	44
EDN	34	11	890525	200 OVERCAST,A.W.
RESC	60	6	890600	1129 GIBBINS,J.R.
RESC	61	2	900200	693 WENZEL,K.W.
RFDE	14	12	911100	109 PERRI,F.
RESC	53	7	820700	1102 DE JAGER,P.A.
RAEL	62	11	911100	58 HAUSMAN,P.
MEBI	23	5	850900	493 MASUDA,T.
MOEL	7	4	900400	16 VONPAWLAK,C.M.
ITIM	38	4	890800	907 RAJA,N.K.L.
CHIN	8	3	780300	167 CONAWAY,J.E.
ELDE	36	19	880825	116 EICHENBERG,D.
AUAM	16	1	850100	11 KRUEGER,A.
73AM	0	266	821100	109 FOLKERT,R.
MADE	57	26	851107	117 HARITON,D.I.
AUAM	22	4	911000	20 SVANBERG,C.
QST	66	7	820700	28 JAGERMAN,D.
EEU	2	3	920100	20 CARR,J.J.
MESC	1	6	900600	505 BANERJEE,S.

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RESC	62	2	910200	496 FARTASH,A.
FAJO	7	4	790700	20 BENNETT,D.
ELEC	56	23	831117	145 STITT,R.M.
73AM	0	347	890800	48 SYMCZYK,W.
GLAU	2	1	900100	31 MACAULAY,J.P.
MEBI	21	2	830300	227 GROENEVELD,W.H.
JOPH	22	2	890200	79 WHITE,D.R.
ETT	13	3	890300	34 PENFOLD,R.
ELLE	25	3	890202	212 GILES,C.R.
PE	6	10	891000	42 COVINGTON,M.A.
7ART	0	389	930200	46 CARR,J.J.
AUAM	17	1	860200	55 HURLEY,R.
73AM	0	345	890600	61 STEER,C.
EDN	30	23	851017	170 SIMONSEN,A.N.
M084	1	8	881000	277 CHOO,E.B.L.
EDN	35	1	900104	138 SOUSA,J.P.
RAEL	62	1	910100	56 KREUTER,R.A.
NIM	214	2	830901	269 BINON,F.
ELDE	28	1	800104	158 MARSHALL,R.
PE	9	5	920500	49
RAEL	59	8	880800	37 SHEETS,W.
RFDE	13	13	901200	27 WONG,A.
AMJO	56	9	880900	822 GILGENBACH,R.M.
MADE	59	17	870723	126 ANDERSON,D.
EEU	2	9	920700	58 RUITERS,J.
TRAS	30	6	871100	1823 SIYAMI,S.
RESC	54	12	831200	1789 CARTIER,S.
MESC	1	3	900300	303 SWANSON,C.J.
BYTE	8	6	830600	21 NOBLE,F.
RAEL	61	3	900300	31 METZ,R.
M113	9	5	900500	92 DEMAW,D.
RESC	58	3	870300	363 SARAN,M.
RESC	62	3	910300	835 TESSLER,L.R.
EDN	30	11	850516	179 SHERMAN,L.H.
IJMS	39	0	813900	65 MCIVER,R.T.
NIM	211	2	830615	369 COUPLAND,M.
RESC	57	7	860700	1338 WISE,M.B.
RESC	57	7	860700	1444 RUGGIERO,S.T.
EDN	29	7	840405	215 FOLEY,C.
AUAM	19	4	881000	7 VIKAN,R.
ITIM	35	4	861200	467 SOBERING,T.J.
ELEN	61	749	890500	27 BURAIMOH-IGBO,L.A.
M179	27	9	910900	37 SMITH,T.
NIM	199	0	820800	497 CARTER,D.E.
RESC	57	1	860100	123 PATHAK,L.
ELEC	55	1	820113	160 NISSINK,H.F.
AMJO	47	11	791100	1012 BLACK,T.D.
CODE	18	4	790400	184
ITNS	32	5	851000	2865 TALLERICO,P.J.

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INJO	56	2	840200	217 IBRAHIM,K.M.
ELEN	61	756	891200	27 KONOPACKI,J.
ELDE	35	4	870219	81 COGGER,S.D.
MOEL	7	11	901100	57 MIMS,F.M.,III
ELEN	58	716	860800	32 FOORD,A.
EWWW	97	1659	910100	35
AUAM	18	1	870300	23 POEHLAND,B.L.
RAEL	58	10	871000	64 MARSTON,R.
RESC	51	11	801100	1574 KAO,K.J.
RAEL	59	3	880300	43 IANNINI,R.
HAEL	5	5	880500	28 HILEMAN,D.
RESC	51	12	801200	1700 EKSTROM,P.A.
AUAM	24	1	930300	20 THAGARD,N.
RAEL	57	5	860500	43 IOVINE,J.
POEL	14	3	780900	75 COGSWELL,J.M.
HAEL	3	4	860700	40 CUNKELMAN,J.
HARA	20	11	871100	65 BRAITHWAITE,I.
PHED	19	3	840500	125 BORCHERDS,P.H.
ESD	17	6	870600	28 WILSON,D.
ELDE	30	19	820916	109 RENTEL,K.
RAEL	58	4	870400	39 SARNS,S.E.
ELDE	37	8	890413	123 YAGER,C.
ELEN	56	691	840700	15
EDN	34	13	890622	175 HARVEY,B.
REW	0	0	840200	69
RAEL	55	5	840500	64 SARNS,S.E.
NUIN	178	0	801200	587 BOLOGNA,G.
ELDE	31	4	830217	125 BELL,K.
QST	66	4	820400	33 COOK,T.
CLEN	14	1	890100	233 MCGILLIVRAY,R.
ITBE	36	4	890400	490 PALLAS-ARENY,R.
QEX	0	67	870900	3 JOHNSON,L.
NIMA	248	2	860801	525 SAKURAI,H.
APSP	35	1	810100	42 SACKS,R.D.
EWWW	96	1650	900400	280 HUTCHINGS,H.
RAEL	60	3	890300	25 LANCASTER,D.
RFDE	14	7	910700	39 WENZEL,C.
ITIM	41	1	920200	123 SALETTI,R.
CQ	46	4	900400	18 CARR,P.D.
EDN	31	12	860612	211 FRENCH,K.
QST	72	6	880600	49 BODEN,E.H.
EDN	28	18	830901	167 CUSHMAN,G.
EEU	2	5	920300	20 GIESBERTS,T.
EEU	2	6	920400	40
7ART	0	395	930800	22 SAMPSON,S.R.
RAEL	54	11	831100	45 MCLELLAN,G.
EDN	29	4	840223	283 CHENG,F.
WW	89	1567	830400	49 BAERT,D.
HAEL	5	9	880900	37

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73AM	0	358	900700	54 GASKILL,G.M.
QST	70	3	860300	15 SUEKER,K.
73AM	0	298	850700	40 MILLER,T.M.
ELTO	10	9	860900	32 NANCINOVICH,H.
ELEC	50	18	770901	111 NISSINK,H.F.
RAEL	53	12	821200	90 SCOTT,R.F.
RAEL	58	8	870800	39 GRAF,R.
ITIM	36	3	870900	842 WHITE,H.R.
ITCS	35	8	880800	987 ENDO,T.
ELDE	37	10	890511	115 WYATT,M.A.
ELDE	38	3	900208	104 WYATT,M.A.
73AM	0	361	901000	10 WELLS,H.
CQ	48	1	920100	12 CLARE,R.
GLAU	3	2	910200	32 LOGAN,E.
HARA	20	1	870100	29 NOLL,S.J.
ELEN	58	711	860300	34 BENNETT,J.
73AM	0	339	881200	24 KOESTER,R.B.
RFDE	12	3	890300	48 PACHOLOK,D.
ANIN	17	4	880400	307 MANSFIELD,M.T.
RESC	49	11	781100	1526 ALAMEDA,G.K.
ITBE	29	8	820800	583 SANTIC,A.
73AM	0	308	860500	68 ROEDER,J.
PE	7	7	900700	67 DAVIDSON,H.L.
NIM	171	0	800400	599 PFEIFFER,L.
7ART	0	372	910900	74 BRUMBAUGH,J.F.
RESC	55	11	841100	1864 CONFORTI,G.
RESC	56	1	850100	142 SRIDHARAN,G.
ELCI	131	6	841200	237 GREGARIO,J.A.
M164	18	4	910400	289 SANTIC,A.
POEL	14	6	781200	66 OLSON,H.
MEBI	23	5	850900	425 GOOVAERTS,H.G.
EDN	31	23	861113	286 SKURNIK,D.
M063	4	1	880100	3 CHUA,L.O.
RAEL	60	6	890600	42 ROSS,L.K.
RESC	49	7	780700	994 RENKES,G.D.
EWWW	97	1664	910700	572 HAASE,J.A.
EWWW	99	1682	930100	61
BYTE	9	10	840900	107 CIARCIA,S.
POEL	18	4	801000	61 FOX,T.R.
ELDE	34	12	860529	248 GOODENOUGH,F.
ETT	11	12	871200	26 STUART,M.
HAEL	5	8	880800	75 RAKES,C.D.
ETT	12	9	880900	17 CUTHBERTSON,P.
PE	8	11	911100	33 YACONO,J.
PE	10	10	931000	31 BLECHMAN,F.
ELNO	64	11	931100	31 NEVES,J.
ELDE	36	29	881222	69 STOIAN,L.L.
EWWW	99	1682	930100	54 BROWN,S.
ITIE	35	2	880500	278 GORMAN,S.F.

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EDN	35	6	900315	159 HARRES,D.
RAEL	57	1	860100	49 LAMARTINA,A.J.
RAEL	60	10	891000	37 HEIL,R.A.
73AM	0	352	900200	41 MCINTIRE,G.R.
ELDE	29	18	810903	201 EARLE,W.E.
EDN	31	2	860123	207 BARNETT,T.G.
PE	9	1	920100	22 YACONO,J.J.
ELNO	64	2	930200	65 BLACK,T.E.
QST	69	12	851200	25 MURPHY,G.
NIMA	225	1	840801	104 DE VINCENZI,M.
AMJO	56	6	880600	524 KOCHER,C.A.
HAEL	2	5	850500	33 STELLING,D.D.
TRAS	26	1	830100	287 SINGARAYAR,S.
RAEL	59	12	881200	69 MARSTON,R.
APSP	34	1	800100	33 ARAKI,T.
73AM	0	350	891100	28 LAZURE,W.
73AM	0	262	820700	56 HYDE,J.
RESC	58	7	870700	1306 SIYAMI,S.
EDN	29	21	841018	267 MORAVEC,J.
RESC	61	2	900200	922 KOBAYASI,S.
73AM	0	361	901000	46 BARTLETT,F.A.
EDN	36	17	910819	162 BLUM,D.P.
M149	48	3	930200	475 KLINKENBERG,H.
HAEL	5	6	880600	86 RAKES,C.D.
MIMI	11	10	871200	527 SOOMRO,A.A.
RESC	48	11	771100	1392 SIMPSON,H.M.
TRAS	21	1	780100	176 BOVING,P.A.
ELEC	50	8	770414	124 HANISKO,J.C.
ITED	34	1	910200	118 FERRIS,C.D.
ITIM	40	6	911200	1035 KHAN,A.A.
POEL	17	3	800300	74 STYS,P.
MEBI	22	3	840500	272 HAMSTRA,G.H.
ELEN	59	732	871200	28 YEUNG,W.K.
AUAM	17	3	860800	56 GORE,D.
QST	68	1	840100	46 BULLER,P.
HARA	23	3	900300	42 REHM,T.
73AM	0	267	821200	139 BURTOFT,J.
7ART	0	385	921000	60 BRUMBAUGH,J.F.
MOEL	7	11	901100	48 CARISTI,A.J.
ELEC	53	1	800103	159 CHETTY,P.R.K.
RESC	54	10	831000	1368 ESMAN,R.D.
TCA	14	7	860700	44 LYNN,M.
ETI	7	9	830900	34 HOOD,J.L.
73AM	0	321	870600	44 TAGGART,R.E.
MEBI	21	1	830100	21 TALONEN,P.
7ART	0	384	920900	84 BRYCE,M.
CQ	48	2	920200	11 CLARE,R.
RESC	58	8	870800	1523 BROWN,D.
QST	70	2	860200	51 SMITH,N.B.

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QST	68	6	840600	15	DEMAW,D.
NIM	197	0	820600	365	JOST,D.T.
7ART	0	389	930200	18	SALAS,P.
QST	61	11	771100	45	RIGHINI,M.
RESC	56	10	851000	1941	KLEIN,S.
PE	7	5	900500	41	COVINGTON,M.A.
QST	68	9	840900	19	DEMAW,D.
73AM	0	325	871000	24	PUTMAN,P.
JOMA	86	3	900215	605	FARRAR,T.C.
HAEL	3	4	860700	86	RAKES,C.D.
ITIM	35	2	860600	178	JOHNSON,C.D.
RESC	54	9	830900	1131	HASSELBACK,M.
QST	62	5	780500	38	BRANCA,M.
QST	67	9	830900	15	REED,J.
HARA	21	12	881200	19	NAJORK,J.
PE	7	11	901100	53	MELTON,J.
ELNO	63	11	921100	47	EADY,F.
QST	67	3	830300	11	REED,J.C.
HAEL	4	1	870100	43	CARR,J.J.
HARA	14	11	811100	12	ROHDE,U.L.
HARA	22	11	891100	91	MCMULLEN,T.
ELEC	48	25	751211	107	SMIT,T.W.
POEL	15	6	790600	59	TRAISTER,R.A.
ELEC	48	18	750904	107	BURHANS,R.W.
QST	70	3	860300	48	FORSTER,R.M.
MOEL	5	5	880500	28	PERKINS,D.M.
EDN	34	16	890803	154	DART,A.
JOPH	13	2	800200	168	WILLIAMS,G.D.
PE	7	12	901200	36	CHARLTON,A.
MADE	56	9	840426	40	HARVEY,P.
NIMA	278	2	890601	417	MOREAU,F.
HAEL	4	11	871100	44	SHEA,R.
MIMI	13	7	890900	473	HUNT,D.
73AM	0	352	900200	45	HOUGHTON,C.L.
RAFU	0	11	920600	20	BRYCE,M.
QST	69	5	850500	44	MANN,S.E.
PE	6	6	890600	35	AMAN,P.
73AM	0	271	830400	104	LEAVEY,M.I.
M130	8	8	900100	25	NEELAKANTA,P.S.
QST	70	2	860200	23	DEMAW,D.
JOPH	20	12	871200	1493	GLOTZ,M.
HARA	23	2	900200	64	CARR,J.J.
HRH	4	2	800200	24	OLSON,H.
QST	69	4	850400	38	LENT,B.B.
INJO	62	2	870200	251	REDDY,A.A.
RAEL	53	7	820700	72	HOROWITZ,M.
HARA	15	3	820300	66	MARRINER,E.
M153	1	4	771000	357	SANTIC,A.
RESC	60	8	890800	2690	GREENE,G.J.

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HAEL	5	12	881200	82 RAKES,C.D.
RESC	58	7	870700	1164 CHOU,Y.C.
RAEL	60	12	891200	59 TRIETLY,H.L.
ETT	16	6	910700	18 JOHNSON,R.C.
ETI	8	5	840500	40
ELDE	28	26	801220	65 ERDI,G.
QST	68	10	841000	17 DEMAW,D.
EWWW	97	1664	910600	494
73AM	0	292	850100	34 PUTMAN,P.H.
HAEL	4	10	871000	30 DAVIDSON,H.L.
EDN	28	7	830331	219 AMARANDOS,M.
EDN	32	24	871126	229 GRAEME,J.
EDN	31	4	860220	241 GRAEME,J.
M014	16	1	850100	41 KRIMMEL,E.F.
PE	8	7	910700	55 CARR,J.J.
MOEL	7	11	901100	24 FOX,T.R.
EDN	30	20	850905	309 KLINE,B.
ELWI	93	1600	860200	33 CRAKOVSKI,J.I.
RESC	59	8	880800	1420 HANNIGAN,J.W.
EDN	28	22	831027	279 HELMS,W.
PE	9	6	920600	39 YACONO,J.
EDN	35	4	900215	177 BURT,R.
RAEL	58	3	870300	42 HOUSLEY,D.J.
M052	12	3	891200	348 BOTTOMLEY,P.A.
RFDE	13	11	901000	65 FELTON,C.M.
ELDE	40	7	920402	73 BUXTON,J.
EDN	32	20	871001	188 TAYLOR,J.S.
RESC	48	4	770400	472 SPEARS,K.G.
RESC	64	7	930700	1723 WENZEL,K.W.
RESC	63	1	920100	157 ANDERSEN,P.M.
REE	46	5	760500	247 WALKER,H.P.
RESC	53	7	820700	1014 LINSAY,P.S.
RESC	57	11	861100	2786 SLOMP,A.
POEL	13	3	780300	55 VINCENT,D.
JOPH	21	2	880200	167 HAUGDAHL,J.
MADE	57	13	850606	90 TESCHLER,L.
CQ	38	11	821100	18 HART,B.
RFDE	4	4	810700	10 BROUNLEY,R.W.
POEL	19	2	810200	75 PEASE,R.
ITPE	2	1	870100	36 JOVANOVIC,M.M.
HARA	14	8	810800	42 HARTZ,E.
CIDE	137	3	900600	193 KAZIMIERCZUK,M.K.
RAEL	55	3	840300	54 SCHROEDER,R.
RFDE	9	11	861100	68 WYATT,K.D.
QST	72	3	880300	41 HOPKINS,G.
RESC	63	5	920500	2950 MACFARLANE,D.L.
AUEL	9	6	760600	25 DANCE,J.B.
ITIE	36	4	891100	568 KAZIMIERCZUK,M.K.
ELWI	90	1581	840600	51 KRAUS,K.

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ITIE	38	2	910400	89 LEE,Y.-S.
QST	65	11	811100	28 WITMER,R.
RESC	61	6	900600	1636 ELSAYED-ALI,H.E.
ITPE	6	3	910700	408 REDL,R.
RAFU	0	10	920500	4 SALAS,P.
73AM	0	299	850800	66 EMMONS,S.
INJO	68	4	900400	629 OGIWARA,H.
EWWW	97	1671	920200	156 LAW,M.
EEU	2	9	920700	47 TIWANA,A.B.
EEU	2	9	920700	47 TIWANA,A.B.
ELEN	58	717	860900	73
ELDE	28	8	800412	141 WINTER,K.
IEEB	139	4	920700	395 HAMADA,S.
CQ	41	9	850900	34 MCCOY,L.
POEL	18	1	800700	83 MCVEIGH,J.
EDN	37	5	920302	140 WILLIAMS,J.
EDN	33	21	881013	175 WILLIAMS,J.
EDN	33	23	881110	209 WILLIAMS,J.
RAEL	54	12	831200	103 SCOTT,R.F.
EDN	38	6	930318	240 HUFFMAN,B.
RESC	60	7	890700	1239 HUES,S.M.
NIMA	285	1	891210	299 SHAHAL,O.
RESC	63	12	921200	5634 DURIG,U.
ANCH	58	7	860600	1581 PANG,H.M.
RESC	60	4	890400	605 BHADANI,P.K.
HARA	14	4	810400	68 CORNELL,T.
EDN	35	8	900412	183 MICHALSKI,D.
MIRF	24	3	850300	151 CLARK,D.W.
73AM	0	356	900500	31 UNGER,B.
MIRF	24	5	850500	75 POTSON,D.
RESC	60	8	890800	2614 XIE,X.
EDN	35	26	901220	5 PARVARANDEH,P.
M089	7	4	900800	113 GOH,W.L.
M080	27	283	900700	67 IWASAKI,S.
RAEL	49	1	780100	21 MCCLELLAN,G.
PE	6	4	890400	42 CARR,J.J.
RESC	52	11	811100	1651 LEVATTER,J.I.
M051	0	0	850100	33 CAIN,A.H.
HARA	20	3	870300	77 ORR,B.
CQ	46	4	900400	52 BURKE,L.B.,JR.
QST	72	10	881000	43 EAST,L.V.
REW	0	0	831200	61 IBBS,S.
EWWW	97	1661	910300	240 HEGGLUN,I.
QST	67	1	830100	45 HARVEY,J.
ANCH	53	1	810100	135 VASSOS,B.H.
ELWI	92	1603	860500	34 MUSTAFA,H.
HARA	19	9	860900	82 RICHARDSON,R.M.
HAEL	2	2	840200	66 PATRICK,D.E.
IJPA	21	3	830300	171 SANYAL,S.

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ITIM	33	1	840300	53 TOMITA,Y.
MIAP	11	4	880700	185 KOZLOWSKI,K.
IDTC	1	2	840500	68 ROBACH,C.
ITNS	32	1	850200	380 FINK,C.L.
RAEL	63	6	920600	39 WOLFE,S.
ELNO	63	7	920700	41 WOLFE,S.
QST	67	7	830700	38 WASSON,G.
QST	65	8	810800	65 ATKINS,B.
AMJO	48	3	800300	232 DUSEK,J.
RESC	59	10	881000	2285 WACHTER,E.A.
QST	66	5	820500	36 WEINBERG,H.
COEL	20	12	821200	124 MIMS,F.M.
MIMI	8	2	840300	67 TAN,B.T.G.
RAEL	57	2	860200	61 WORLEY,M.C.
EDN	29	19	840920	181 FRANCIS,R.
7ART	0	381	920600	10 MOORE,C.A.
EDN	30	10	850502	179 HORTON,E.P.
BYTE	5	4	800400	198 GLASER,R.
BYTE	3	3	780300	84 CIARCIA,S.
73AM	0	260	820500	26 GEIST,J.
QST	68	8	840800	65 ATKINS,B.
MIMI	10	5	860600	278 TAN,B.T.G.
MIMI	9	1	850100	24 BOWEN,J.P.
ELEN	62	758	900200	30 THURLOW,B.
M063	4	1	880100	37 BIRMINGHAM,W.P.
CE	12	3	880300	415 YU,T.L.
ELTE	4	3	810300	22 BYER,M.
ELDE	33	24	851017	143 GLADSTONE,B.
RAEL	58	12	871200	95 STARK,P.
ELWI	91	1592	850800	59 CAMERON,S.A.
68MI	6	11	841100	42 GASBARRE,A.J.
EEU	2	7	920700	14 RIETJENS,A.
ELEC	53	8	800410	130 ROLOFF,J.J.
M119	15	5	860500	48 PATON,A.
ELEN	59	729	870900	30 DE SA,L.
RESC	53	9	820900	1452 GREEUW,G.
CQ	48	5	920500	66 MATH,I.
ELDI	7	1	860000	63 CAMPBELL,B.
AUAM	17	4	861000	17 HECKERT,H.J.
QEX	0	57	861100	10 KUNKEE,D.
FAJO	5	1	770100	20
RFDE	10	7	870700	65 DENNISON,R.A.
JOMA	63	2	850615	427 COOK,B.W.
ELDE	34	11	860515	151 CRUESS,M.W.
EDN	34	9	890427	220 GYULA,L.
REW	0	0	830300	33 MILLS,J.
MADE	61	2	890126	50 SCHULTZ,W.
QST	68	8	840800	37 PAGEL,P.K.
RAEL	55	2	840200	67 MARSTON,R.

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RAEL	54	11	831100	106 SCOTT,R.F.
QST	72	7	880700	22 STEVENS,D.
COCH	9	1	850100	11 TSE,R.S.
ITNS	31	6	841200	1582 ROESKE,S.B.
EDN	35	22	901025	203 GERSTENHABER,M.
BYTE	7	1	820100	344 RUBIS,D.
ELDE	36	8	880331	101 LECHNER,A.
TRAS	29	5	860900	1488 BRUSEWITZ,G.
ELEN	55	674	830200	37 AUSTIN,D.
RFDE	15	3	920300	41 OLSEN,L.
QST	66	9	820900	33 STROUD,R.
ELEC	53	12	800522	157 LINKOWSKI,W.
ELDE	37	23	891109	112 STITT,R.M.
EDN	34	23	891109	268 KENNEY,S.
ELEN	57	701	850500	36 MADHAVAN,K.N.
RESC	52	5	810500	746 BALASUBRAMANIAN,G.
EDN	33	1	880107	103 SHEAR,D.
RFDE	14	5	910500	26 CASADEVALL,F.
EEU	2	9	920700	34 GRIMM,N.
POEL	20	1	820100	39 ROBERTS,J.
HARA	21	8	880800	10 LEINWEBER,G.
EDN	34	8	890413	216 SHERMAN,D.
M002	16	182	901000	49 BODDINGTON,G.
ELNO	63	10	921000	75 MELTON,J.
JOPH	17	3	840300	234 NOBLET,A.
BYTE	7	11	821100	416 BARDEN,W.,JR.
ELEC	51	13	780622	105 EVANS,A.D.
BYTE	8	3	830300	26 CIARCIA,S.
80M2	0	58	841100	146 ALFORD,R.C.
PHTE	26	1	880100	42 HINRICHSEN,P.F.
MOEL	5	3	880300	34 CARR,J.J.
ELDE	28	5	800301	87 SEVERNS,R.
ANCH	58	2	860200	507 DASGUPTA,P.K.
HARA	21	10	881000	17 ELMORE,G.
QST	62	1	780100	16 MERRY,F.J.
M125	3	2	900400	74 PARKER,B.
73AM	0	361	901000	64 HOUGHTON,C.L.
QST	66	8	820800	41 MERRY,F.J.
MIRF	24	7	850700	67 RICHHARIA,M.
RAEL	56	8	850800	49 GROSSBLATT,R.
CQ	44	6	880600	64 INGRAM,D.
ELDE	38	23	901213	79 STITT,R.M.
RFDE	6	3	830500	30 VICTOR,A.
JOPH	13	9	800900	947 HUTCHISON,J.M.S.
NIMA	220	2	840301	575 SOBOTTKA,S.E.
RFDE	3	5	800500	24 HAUER,F.
MIRF	22	10	831000	91 BENDER,J.R.
MADE	61	19	890921	131 HAYES,L.
M032	0	29	850400	59 BRILLIANT,L.

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AMJO	44	5	760500	478 TOWLER,W.R.
QST	61	4	770400	43 DEMAW,D.
EDN	30	7	850404	269 TRIMBLE,D.
NATE	10	3	860500	39 KLEINBERG,L.L.
RESC	54	6	830600	706 BLAICH,T.
ITIE	35	3	880800	451 VANDELAC,J.-P.
RFDE	11	2	880200	53 GRANBERG,H.O.
JOCH	63	12	861200	1113 FISHER,T.L.
AUAM	23	4	921200	9 PASS,N.
MIRF	24	9	850900	191 BISHOP,T.
MIRF	24	1	850100	145 PANDIAN,G.S.
MEBI	21	5	830900	612 DE N. DONALDSON,N.
ELDE	28	7	800329	105 SEVERNS,R.
RESC	53	10	821000	1561 DARRASSE,L.
73AM	0	328	880100	61 ROWLES,D.
JJAP	29	4	900400	700 SUGINO,K.-I.
REW	0	0	840400	19
EDN	28	18	830901	135 WILLIAMS,J.
MIRF	23	10	841000	141 LOTT,U.
73AM	0	345	890600	38 BLOOM,R.E.
ELEN	60	733	880100	43 WUIDART,L.
RFDE	3	1	800100	32 LEIGHTON,L.
ELLE	26	19	900913	1623 CHEN.K.
EDN	27	6	920316	132 JENNINGSCHECK,W.S.
BYTE	6	7	810700	212 CIARCIA,S.
ELWI	90	1586	841200	74 HILL,P.N.C.
ELDE	31	10	830512	196 GALLERANI,A.
M002	13	142	870200	48
ELWI	92	1606	860800	59 ADAMS,J.H.
BYTE	11	13	861200	87 CIARCIA,S.
BYTE	6	10	811000	400 RICHARDS,D.R.
RAEL	59	10	881000	65 BYBEE,J.
MEBI	29	1	910100	108 GREGERSEN,H.
BYTE	11	7	860700	85 CIARCIA,S.
ETT	13	11	891100	8 KNIGHT,S.
HARA	15	4	820400	32 EUBANKS,C.A.
DIDE	12	7	820700	23 HINSHAW,T.
EDN	37	13	920618	140 XIA,Y.
EDN	33	1	880107	145 SHERMAN,L.
ELDE	39	5	910314	86 SPEAROW,C.
QST	69	7	850700	25 ROWLETT,D.,PHD
ELDE	39	8	910425	59 O'DELL,R.W.
RAEL	59	2	880200	65 TEMPLIN,T.T.
RFDE	3	8	800900	60 FONG,E.
BYTE	10	9	850900	87 CIARCIA,S.
RAEL	62	2	910200	37 GRASTY,J.
HARA	21	6	880600	19 ELMORE,G.
RESC	57	1	860100	43 BATSON,P.E.
CQ	40	3	840200	52 SCHULTZ,J.J.

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NIM	196	0	820500	351 BELLINI,G.
BYTE	4	10	791000	124 CONDRA,D.L.
EDN	34	2	890119	204 HUFFMAN,B.
REW	0	0	840700	28 BANCROFT,M.G.
ELEN	58	717	860900	55 RANDALL,M.
LAMI	5	2	860200	50 MALCOLME-LAWES,D.
CICE	0	12	891200	37 RINALDI,D.
ELEN	56	686	840200	28 SULLIVAN,G.
LAMI	3	3	840300	89 MALCOLME-LAWES,
AUAM	21	4	901000	56 ENDICOTT,E.
M086	2	3	881000	26 FOSTER,A.
EEU	2	4	920200	36 RUFFEL,J.
EEU	2	5	920300	48 RUFFELL,J.
CICE	0	35	930600	70 DYBOWSKI,J.
ELDE	36	21	880922	109 JORDAN,P.
M022	68	8	920800	18 HICKMAN,I.
M125	3	2	900400	63 PARKER,B.
CQ	38	11	821100	103 GORSKY,B.
EDN	28	12	830609	76 TEJA,E.R.
ELTO	11	8	870800	33 TOOLEY,M.
ELWI	93	1617	870700	695 MCDERMOTT,M.
QST	69	10	851000	21 HILLIARD,D.L.
QST	66	12	821200	27 BROWN,F.
7ART	0	391	930400	53 BRYCE,M.
RFDE	9	9	860900	45 GONORD,P.
MIRF	28	3	890300	144 BROWNE,J.
ELLE	26	8	900412	510 OLSEN,T.
EDN	37	5	920302	97 WRIGHT,M.
CICE	0	31	930200	70 DYBOWSKI,J.
RESC	49	10	781000	1401 KUMANO,M.
ELEN	56	694	841000	46 WOLFENDEN,B.S.
ELWI	91	1596	851000	41 VIRDEN,D.J.
COED	0	0	840500	32 NICHOLLS,G.
ELTO	9	5	850500	20 MOORE,P.
HAEL	2	4	850400	65 LOXTERKAMP,E.W.
MESC	3	12	921200	1198 NEUKUM,J.
EDN	35	8	900412	188 JAROSINSKI,T.
MIMI	12	7	880900	403
CICE	1	6	881100	51 NISLEY,E.
HARA	14	5	810500	46 ORR,B.
BYTE	11	7	860700	181 DINWIDDIE,G.
ELDE	31	20	830929	255 JORDAN,B.
CQ	46	2	900200	74 INGRAM,D.
EEU	2	7	920500	24 ESSER,P.
HARA	20	4	870400	74 REISERT,J.
AUAM	17	2	860200	45 EDGAR,B.
PE	9	2	920200	53 HAMPTON,R.
ETI	7	5	830500	13
AMJO	58	10	901000	933 COOKE,B.A.

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ELDE	31	14	830707	145 ZACCAI,A.
73AM	0	331	880400	20 LITTLEFIELD,R.
ITNS	39	5	921000	1316 MURAKAMI,H.
QST	66	12	821200	13 GRANBERG,H.
MIRF	22	1	830100	89 GRANBERG,H.O.
HARA	20	1	870100	21 HINSHAW,J.
RFDE	12	12	891200	35 PETROVIC,B.
MICO	7	5	830500	26 CHILDRESS,S.
RESC	59	11	881100	2499 PARDON,A.
JOPH	13	5	800500	585 RAVI,R.
EDN	28	2	830120	192 VALLIERE,M.
LAMI	5	2	860200	41 MALCOLME-LAWES,D.J
MIMI	9	2	850300	50 CHANCE,J.
68MI	8	6	860600	21 AHRENS,T.
HARA	14	8	810800	30 ORR,B.
M076	5	2	850400	20 HANSON,D.F.
ELEC	50	3	770203	109 BENNETT,R.N.
PE	9	9	920900	31 BALL,C.R.
AUAM	18	1	870100	49 BURGESS,D.
73AM	0	263	820800	32 NEPEAN,E.
EDN	31	23	861113	193 HORTON,E.P.
JOPH	15	4	820400	414 CALVERD,A.M.
POEL	17	5	800500	55 FOX,T.
BYTE	10	3	850300	129 CHANG,R.K.W.
RAEL	63	6	920600	57 PEREZ,E.
POEL	15	1	790100	58 ROBBINS,M.S.
REW	0	0	840400	16 IBBS,S.
ELEN	58	711	860300	29 HUNT,B.L.
EDN	37	3	920203	108 BENNETT,R.N.
CQ	43	8	870800	35 MCCOY,L.
PE	7	10	901000	59 YOUNG,R.A.
ELDE	41	19	930916	110 LAUDE,D.
M003	7	4	870100	30 BARBARELLO,J.
HARA	22	9	890900	72 LOUDEN,W.C.
PE	8	10	911000	22 YACONO,J.J.
WW	88	1555	820400	81 HICKEY,P.
M102	49	2	870400	152 JORDAN,C.T.
HAEL	5	1	880100	41 GORDON,A.F.
CICE	0	9	890600	11 DAVIDSON,K.
CICE	0	8	890400	10 CIARCA,S.
MIMI	11	8	871000	423 VISWANATH,T.
ULTR	22	3	840500	110 DO,M.A.
QST	66	8	820800	29 SHRINER,B.
ELTO	9	7	850700	35 BEDROSIAN,D.
ELDE	36	18	880811	128 JIMENEZ-GARCIA,R.
JOCH	63	5	860500	460 BATTINO,R.
ELTO	10	11	861100	28 CHAPPELL,P.
M196	1	9	930100	11 ROBERTS,R.H.
ELNO	64	4	930400	59 CARISTI,A.J.

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ELDE	36	21	880922	148 JIMENEZ-G.,R.
RFDE	16	3	930300	92 ROY,Y.
BYTE	8	8	830800	484 CIARCIA,S.
EDN	33	13	880623	167 DAHLIN,T.J.
TRIN	6	4	840700	182 WHITE,P.R.S.
HAEL	2	3	850300	92 BAKER,W.
ELWI	92	1604	860600	39 SANSONI,R.A.
HARA	22	7	890700	9 GREGORY,P.
EWWW	97	1673	920400	345 HICKMAN,I.
ELEC	48	26	751225	87 MUSOGLU,E.
POEL	12	3	770900	47 JONES,B.
TCA	14	7	860700	28 ROSS,M.
PE	9	5	920500	56 MARTIN,V.D.
MIRF	31	12	921200	61 KIEFER,R.
CQ	48	2	920200	96 INGRAM,D.
HAEL	5	1	880100	70 LISLE,L.
QST	62	11	781100	39 DEMAW,D.
73AM	0	269	830200	56 CLOWER,P.
7ART	0	367	910400	76 BRYCE,M.
MIRF	22	10	831000	101 GOLDMAN,S.
QST	62	3	780300	26 GREGOIRE,W.A.,JR.
AMJO	55	10	871000	933 MENG,Y.
RFDE	14	4	910400	69 CHEAH,J.Y.C.
JOCH	64	7	870700	630 DELUMYEA,R.D.
MIRF	22	7	830700	128 HEJHALL,R.
QST	61	2	770200	14 MULA,T.
RFDE	10	9	870900	62 THARP,D.L.
RAEL	58	5	870500	138 SCHRADER,T.
MOEL	5	6	880600	70 MIMS,F.M.,III
M043	9	3	891000	86 DISTEFANO,T.
7ART	0	363	901200	61 HOUGHTON,C.L.
68MI	7	2	850200	48 JEFFERY,K.
68MI	7	11	851100	52 TROLLOPE,G.A.R.
BYTE	9	1	840100	403 CARTER,E.M.
QST	62	6	780600	35 ARNOLD,J.D.
ANCH	54	13	821100	2327 LAST,T.A.
DIDE	13	4	830400	78 REDDY,A.
ELEN	57	706	851000	71 BROKAW,A.P.
BYTE	12	2	870200	129 RETTER,R.F.
ELDE	33	30	851226	91 VAN AKEN,J.R.
73AM	0	347	890800	62 MOELL,J.
AUAM	17	3	860800	46 POEHLAND,B.L.
RESC	62	10	911000	2457 ELMQUIST,R.E.
RAEL	61	10	901000	47 HUFFT,F.J.
M125	3	2	900400	67 PARKER,B.
ELDE	33	8	850404	189 COOPER,S.
QST	62	10	781000	15 DEMAW,D.
EDN	29	22	841031	147 GRANDBOIS,G.
BYTE	5	10	801000	62 CANTRELL,T.W.

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ELEC	50	25	771208	89	ALTMAN,L.
MIMI	8	6	840700	290	GLOBIG,J.
SOLU	0	0	860100	20	DAVIS,R.W.
MIMI	16	8	920800	427	DIPERT,B.
MIPR	1	0	771200	495	BUSHELL,P.
ELWI	92	1606	860900	54	GORDON,J.L.
M013	15	2	830200	48	WEBSTER,D.C.
CODE	20	9	810900	54	
ELDE	35	19	870820	100	DURHAM,S.J.
80M1	0	27	820300	172	HAWKES,J.
QST	62	8	780800	19	GRABOWSKI,E.J.
COCH	10	1	860100	31	GUNASINGHAM,H.
ELDE	31	5	830303	133	HARVEY,B.
ELEL	21	1	810100	78	
ELWI	91	1596	851000	43	SUMNER,T.
80M2	0	64	850500	79	ALFORD,R.C.
EDN	34	6	890316	131	HORTON,E.P.
DIDE	10	2	800200	22	GOOZE,M.
INJO	68	5	900500	829	FILANOVSKY,I.M.
7ART	0	364	910100	9	JOHNSON,G.
QST	69	12	851200	41	WARD,A.
HARA	21	11	881100	60	FOOT,N.J.
ITNS	36	1	890200	650	BIERY,K.A.
QST	61	3	770300	26	
RAEL	57	5	860500	9	
M050	26	1	880100	23	MICHAEL,M.
HAEL	3	4	860700	17	
QST	65	7	810700	21	WILSON,R.C.
QEX	0	84	890200	3	SHUCH,H.P.
73AM	0	267	821200	132	WINGFIELD,E.A.
CQ	41	10	851000	33	WARREN,P.
RESC	57	5	860500	978	MCMILLAN,D.E.
EEU	2	5	920300	53	BAILLEUX,O.
QST	66	11	821100	17	DEMAW,D.
ELWI	93	1600	860200	36	RUTTER,G.G.R.
ETI	8	2	840200	32	WALKER,P.
ELTO	8	6	840600	36	
ELTE	3	5	800500	29	FINLAY,P.L.
ETI	6	9	820900	70	INDYK,D.
MEBI	25	4	870700	458	KIMURA,M.
HAEL	5	3	880300	59	JONES,B.
JOPH	21	2	880200	151	YUAN,J.
73AM	0	339	881200	34	KNITTEL,D.
M064	7	4	851000	289	JOSSINET,J.
RAEL	52	1	810100	73	MOSTAFAPOUR,B.
ELEC	56	4	830224	128	LEE,E.
M120	10	8	890800	74	HANSEN,P.
NUIN	174	0	800800	613	EISEN,Y.
M002	16	182	901000	46	

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DIDE	13	4	830400	84 OLSON,M.
ELEC	51	8	780413	135 KANIEL,A.
73AM	0	326	871100	32 FEENEY,F.K.
HARA	15	3	820300	12 WITTE,B.
MIMI	9	2	850300	71 AL-RIAHY,H.A.J.
JAJO	18	9	790900	1827 TANAKA,S.
LAMI	11	4	920400	146 BALASUBRAMANIAN,K.
ELDE	36	18	880811	71 TILL,J.
QST	62	9	780900	15 CARTER,F.E.
CQ	39	10	831000	43 SCHULTZ,J.J.
M040	22	2	830200	97 ATSINA,E.G.
CICE	0	8	890400	46 BACHIOCHI,J.
AGME	20	0	790000	1 BUCKLEY,D.J.
CICE	0	26	920400	22 CIARCIA,S.
ELDE	30	5	820304	125 MUTAGI,R.N.
JOPH	14	4	810400	457 SETHI,V.S.
NIM	197	0	820600	297 BAUMBAUGH,A.E.
CQ	42	7	860700	11 SCHULTZ,J.J.
BYTE	12	5	870500	95 CIARCIA,S.
BYTE	12	6	870600	129 CIARCIA,S.
73AM	0	334	880700	26 ADAMS,W.M.
RAEL	59	11	881100	74 GROSSBLATT,R.
M150	24	0	790000	249 STREET,M.J.
JOPH	19	6	860600	433 TIKVIC,W.L.
M057	3	1	880120	2 BLACKMAN,D.
ELEC	52	17	790816	114 GALLUZZI,P.
CICE	0	33	930400	32 VON NOVAK,W.
EDN	29	9	840503	207 CUSHMAN,R.H.
ELMA	16	1	890100	49 CHEN,G.
EDN	35	16	900802	136 EICHENBERG,D.
ELNO	63	8	920800	72 LANCASTER,D.
RAEL	54	9	830900	80 HAM-PONG,R.
ETT	12	12	881200	14 BEDRICH,F.,JR.
RESC	60	4	890400	608 PARKINSON,M.
73AM	0	274	830700	58 DAVIES,T.K.
M040	14	2	750200	101 CUPAL,J.J.
NIMA	275	1	890201	89 GIUBELLINO,P.
HARA	21	2	880200	41 ELMORE,G.
ELDE	31	21	831013	203 SARTORE,R.
AUAM	17	4	861000	56 ADEFF,M.
JOPH	22	10	891000	827 RANDALL,E.W.
CODE	29	21	901101	36 WILSON,R.
M076	9	4	890800	15 KOHN,L.
POEL	13	4	780400	80 WILKINS,R.
73AM	0	333	880600	34 HOTINE,W.
JOPH	13	2	800200	160 LEE,H.
MESC	4	3	930300	293 OZDEMIR,S.
80M1	0	27	820300	242 BATIE,H.
ELEC	51	15	780720	121 KELLY,R.E.

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ITNS	33	1	860200	90 CRESSWELL,J.
ETI	4	5	800700	50
ELWI	91	1587	850100	75 HOJLEV,P.
NIMA	257	2	870615	244 KOTTE,R.
M084	2	12	891200	415 ROCCO,M.T.M.
CQ	46	4	900400	30 MCCOY,L.
EDN	38	2	930121	107 DINSMORE,D.L.
ITC1	39	8	920800	604 IVASCU,A.
ANCH	52	8	800700	1385 HUANG,J.Y.-K.
NIMA	284	2	891201	422 ADARKAR,H.
INJO	62	1	870100	141 ABDUL-NIBY,M.M.
ELDE	36	6	880317	97 WILLY,J.
ELWI	93	1602	860400	72 THEOBALD,S.
ANCH	54	7	820600	1229 WOODWARD,W.S.
MEBI	20	4	820700	461 SWANSON,D.K.
CICE	0	7	890100	36 VOORHEES,M.
M119	15	5	860500	19 BARLOW,G.
EDN	28	13	830623	267 KEVE,T.
ITNS	37	2	900400	171 MADDEN,N.W.
PE	10	2	930200	49
IJPA	27	9	890900	679 ADARKAR,H.
ELEN	58	716	860800	28 MARSHALL,I.R.
RESC	59	10	881000	2290 HABIB,S.
RESC	51	7	800700	968 LOOK,D.C.
ELWI	94	1625	880300	240 HOWSON,D.
M016	30	27	910920	3952 PILTINGSRUD,H.V.
EDN	29	26	841227	281 BALAKRISHMAN,N.
AUAM	18	2	870300	46 POEHLAND,B.
AUAM	15	1	840300	44
ANCH	51	7	790600	1098 MCCARRICK,T.A.
M110	6	1	910100	23 EDWARDS,P.J.
ELDE	31	2	830120	131 DEPALMA,G.
M129	33	6	891200	627 SUNANDANA,C.S.
M160	45	6	781200	1016 RILEY,J.L.
RESC	48	9	770900	1138 LEIKIND,B.J.
NIMA	240	1	851001	135 BENULIS,C.A.
ELEN	61	755	891100	11
HARA	23	3	900300	22 CLONINGER,W.C.,JR.
RAEL	61	8	900800	73 HATTEN,M.
JOPH	21	11	881100	1098 VELICHKOV,I.V.
EDN	32	20	871001	187 SHAH,M.J.
ELEC	51	8	780413	114 WARDLAW,S.
MADE	62	18	900906	138 DVORAK,N.
ELDE	30	16	820805	201 SANDERS,L.
M059	135	1	880100	49 STEPHAN,R.M.
RESC	50	10	791000	1278 BURROWS,M.D.
RESC	52	7	810700	1108 PESHKIN,M.A.
ITBE	31	5	840500	428 PLAMONDON,R.
EDN	30	2	850124	155 NAQVI,S.R.

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RAEL	61	2	900200	72 GROSSBLATT,R.
PHTE	29	5	910500	283 SUKHEEJA,B.D.
NIM	211	1	830601	219 UYTTEHVE,J.
RAEL	61	8	900800	31
NUIN	166	0	791100	451 PERKINS,L.J.
QST	62	7	780700	17 OVERBECK,W.
RESC	49	9	780900	1288 WRIGHT,J.R.
73AM	0	281	840200	62 MYERS,B.
80M2	0	63	850400	82 ALFORD,R.C.
HARA	14	5	810500	70 FOWLER,R.H.
ELWI	92	1606	860800	55
ELEC	56	7	830407	153 SARNS,S.
68MI	5	3	830300	29 WEST,T.
RAEL	55	2	840200	97 SREEKUMAR,J.
RESC	57	1	860100	122 SCAYSBROOK,F.F.
JOPH	15	11	821100	1157 TAKEUCHI,S.
ELTO	10	5	860500	50 CUTHBERTSON,P.
BYTE	8	12	831200	234 ANDREWS,E.W.
ELWI	93	1612	870200	171 DHURKADAS,A.
EDN	33	9	880428	238 GONZALEZ,F.
JOPH	13	9	800900	917 HENDY,B.N.
RFDE	10	8	870800	38 LOVE,G.V.
RESC	60	4	890400	797 SHIKARKHANE,N.S.
RESC	49	8	780800	1176 THUSIUS,D.
MOEL	7	10	901000	17 SCHOPP,W.W.
RAEL	62	5	910500	33 HUFFT,F.
NIMA	311	1	920101	273 WEINHEIMER,C.
M113	12	1	930100	102 CHEEK,B.
INAG	6	12	811200	27 O'CONNOR,P.
ELDE	30	8	820415	209 NEWMAN,S.
WW	88	1554	820300	50 HENDERSON,A.S.
M076	3	1	830200	62 MCKERROW,P.J.
ELDE	29	12	810611	249 BAILEY,R.
BYTE	4	9	790900	196 BARBIER,K.
ELDE	27	9	790426	112 ALI,Z.
AMJO	57	2	890200	184 GEORGE,J.
ELEC	56	14	830714	132 KARAPETIAN,A.
MEBI	26	4	880700	397 TAKAKI,T.
RESC	50	7	790700	867 RAMADAN,B.
JOEX	136	0	880500	495 BUCHAN,P.
RESC	60	12	891200	3827 POLICKE,T.A.
EWWW	97	1675	920600	508 AYERS,D.
POEL	16	1	790700	64 LEFKOWITZ,H.
QST	67	10	831000	32 VALLEAU,R.
QST	61	8	770800	33 DAVIS,A.
ANCH	55	14	831200	2285 RAMALEY,L.
ELDE	37	2	890126	132 JAROSINSKI,T.
PE	7	4	900400	33 WANNAMAKER,J.
PE	7	9	900900	82 RAKES,C.D.

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PE	8	10	911000	41 PENNER,J.
PE	10	7	930700	31 HANSLIP,M.
INJO	61	4	861000	539 JAMIL-ASGHAR,M.
MEBI	21	6	831100	756 DE N. DONALDSON,N.
POEL	19	8	810800	80
ANIN	14	3	850300	433 CHANG,M.C.
ELWI	93	1616	870600	604 DUFFY,J.E.
ELDE	26	20	780927	94 PERITSKY,M.M.
RESC	49	12	781200	1746 VANDERKOOY,J.
CHIN	8	2	770200	111 HOLLER,F.J.
AGEN	59	10	781000	44 LOVELL,A.D.
73AM	0	275	830800	54 BUNNELL,P.
POEL	13	3	780300	62 MEYER,M.
NIMA	261	3	871115	449 BRESSI,G.
HAEL	5	11	881100	44 CLARKE,J.
AMJO	48	4	800400	321 BOYS,D.W.
M035	11	3	910900	197 WOLFS,P.J.
PE	9	5	920500	73 RAKES,C.D.
JOMA	53	2	830615	303 SCHULTZ,R.
BYTE	8	7	830700	210 LA CLAUSTRA,R.
TRAS	27	3	840500	706 MAW,B.M.
JOPH	14	9	810900	1081 BOTTOMLEY,P.A.
WW	88	1556	820500	67 LYNES,H.S.
AMJO	58	9	900900	878 STAHLBERG,B.
ELEC	50	26	771222	94 GARON,G.
LAMI	3	2	840200	48 ROBERTS,T.M.
ITIE	32	1	850200	26 OZGUNER,F.
ELDE	36	18	880811	95 HENDEL,A.
M043	9	6	900100	40 DISTEFANO,T.
JOCH	59	12	821200	1082 BELL,D.H.
RESC	57	12	861200	2983 OHBAYASHI,K.
ITCS	23	2	760200	68 BRACKETT,P.O.
JOPH	14	11	811100	1248 BONSE,U.
ANIN	19	2	900200	87 GIGUERE,J.
COCR	1	7	911000	26 GOSS,N.
EEU	2	9	920700	61 MITRA,S.
QST	62	12	781200	41 SWENTON,R.
MESC	3	1	920100	43 BATTENSBY,J.
EEU	2	9	920700	78 SAUER,N.
JOPH	15	1	820100	108 HATFIELD,D.S.
ELEC	49	23	761111	111 GEFFE,P.R.
ITIM	35	4	861200	640 AHMAD,W.
MESC	1	2	900200	158 DING,Z.X.
M087	33	1	910200	25 GRAFFI,S.
POEL	19	1	810100	67 BALL,C.R.
RAEL	53	9	820900	74 SAVAGE,E.
73AM	0	330	880300	96 KRETZSCHMAR,J.
ETT	12	4	880400	24 BISHOP,O.
PE	6	3	890300	37 PRYSON,C.

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APSP	39	4	850700	704 SACKS,R.D.
M156	22	6	771100	120 WINEFORDNER,J.D.
EEU	2	2	911200	71 TIWANA,A.B.
EWWW	97	1676	920700	588 LIAO,T.C.
73AM	0	257	820200	92 CHRISTIAN,R.
NIMA	289	1	900401	103 D'ALESSANDRO,R.
MICR	0	49	820600	19 CLEMENTS,W.C.,J
ETI	6	5	820500	82 SINGH,D.
QST	70	1	860100	37 MURPHY,G.
M174	26	1	910100	26 HAMID,M.
ETT	13	1	890100	24 PARSELL,R.
EWWW	97	1659	910100	27 MAIDMENT,H.
HAEL	4	9	870900	41 VIESCA,F.G.
JOCH	62	6	850600	542 VASSOS,B.H.
NIMA	279	3	890715	573 ROGERS,L.C.
PE	7	10	901000	35 AXELSON,J.
ELEC	50	23	771110	105 SANCHOLUZ,A.
JOPH	18	10	851000	822 HUTTON,D.R.
OPLA	20	1	880200	39 VIVEK,S.
SCPR	1	1	901100	18 BARDEN,W.,JR.
TRAS	33	2	900300	666 COOPER,S.C.
AGEN	58	2	770200	23 BASHFORD,L.L.
POEL	20	12	821200	83 MCWILLIAMS,M.
ANCH	58	12	861000	2516 ANNINO,R.
ITMA	27	1	910100	50 KITZMILLER,J.R.
7ART	0	368	910500	14 SPIES,K.
ELWI	90	1585	841100	77 KNUTSEN,T.
JOAU	37	6	890600	465 HAWKSFORD,M.O.J.
EEU	2	9	920700	70 WALRAVEN,K.
RAEL	58	7	870700	74 GROSSBLATT,R.
NIMA	235	3	850415	464 DIETL,H.
JEPT	14	2	870200	85 MILES,T.S.
HAEL	6	1	890100	39 BECKER,D.
PE	7	5	900500	43 CARR,J.J.
MICR	0	76	841000	38 ENGELSHER,C.
ITBE	34	1	870100	74 LAGU,R.K.
73AM	0	273	830600	56 CEBIK,L.B.
RESC	49	6	780600	785 KAN,S.
POEL	7	2	750200	43 FROSTHOLM,R.C.
MIAP	8	1	850100	27 HORWOOD,J.M.K.
M040	14	4	750400	340 UNDERWOOD,S.A.
RESC	57	12	861200	3027 MILCHBERG,H.
ITIM	33	4	841200	293 FRENKEL,R.B.
CODE	27	21	881115	21 WILSON,R.
RESC	50	9	790900	1074 LYNK,E.T.
RESC	60	9	890900	3081 SHAKKOTTAI,P.
PE	8	5	910500	62 RAWLINSON,K.
JOPH	18	3	850300	218 BOREHAM,B.W.
POEL	12	2	770800	88 SOLOMON,L.

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RESC	53	11	821100	1770 GRUNER,S.M.
QST	69	2	850200	32 STUNTZ,S.
HARA	20	1	870100	110
73AM	0	286	840700	74 MILLER,D.F.
MEBI	20	6	821100	661 MCINERNEY,J.J.
CQ	43	5	870500	48 STIEB,K.
RESC	62	12	911200	3102 KATH,G.S.
ELEN	55	676	830400	41 TORELLI,G.
JOPH	14	3	810300	301 SHAW,R.
EDN	37	8	920409	135 CLARK,B.M.
CICE	0	20	910400	24 WETTROTH,J.
RESC	62	12	911200	2997 LECLERC,G.
ELWI	91	1597	851100	73 KRAUS,K.
ITNS	33	1	860200	113 ASHFORD,V.
RESC	62	6	910600	1648 LEGG,J.
M032	0	29	850400	48 BARTON,M.A.
RAEL	60	10	891000	83 HENRY,T.
ELEN	58	713	860500	44 AGRAWAL,V.K.
POEL	20	5	820500	108 MIMS,F.M.
EDN	33	7	880331	200 RUHLAND,M.
BYTE	13	5	880500	275 CIARCIA,S.
ITNS	31	1	840200	381 WONG,W.-H.
EDN	35	5	900301	180 DE SA,L.
AUAM	21	4	901000	64 ELLIS,A.H.
BYTE	10	1	850100	98 CIARCIA,S.
RAEL	53	4	820400	39 CHAMPAGNE,M.
ELDE	27	18	790901	94 JONES,F.
CICE	0	36	930700	56 BACHIOCHI,J.
RESC	49	12	781200	1631 MERCHANT,V.E.
RESC	58	4	870400	579 BASANO,L.
CICE	1	6	881100	45 MEISTER,R.W.
7ART	0	389	930200	26 WITMER,B.
RESC	50	12	791200	1653 HOLTEN,D.
ANCH	56	14	841200	2995 STEWART,J.A.
ETI	7	7	830700	13 COLES,R.D.C.
ELDE	32	12	840614	247 YONEZAWA,H.
EDN	28	2	830120	190 BARANSKI,A.W.
CICE	0	30	921200	80 BACHIOCHI,J.
HARA	20	12	871200	72 REISERT,J.
RESC	51	3	800300	331 CORSON,M.R.
JOCH	65	8	880800	743 JAFFAR,M.
73AM	0	270	830300	18 BENTSON,R.
RAEL	53	10	821000	144 SAVAGE,E.
RESC	50	11	791100	1441 LIEBMAN,I.
APSP	39	4	850700	587 WINEFORDNER,J.D.
ELDE	37	9	890427	110 KRAUS,K.
ELDE	37	22	891026	112 SHERMAN,D.
EWWW	97	1664	910700	604
RESC	57	10	861000	2547 VAN ARDENNE,A.

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INJO	52	5	820500	419 SARASWAT,R.C.
NIM	207	0	830300	365 BUSKENS,J.
EDN	27	23	821124	149 WITTLINGER,H.
ITIA	23	5	870900	901 GOKHALE,K.P.
EDN	34	13	890622	189 GRAEME,J.G.
EDN	34	17	890817	193 GOLDISH,D.B.
RESC	60	10	891000	3348 HOLZE,R.
NIMA	284	2	891201	430 BORSUK,S.
EWWW	97	1676	920700	608 RICHARDS,W.O.
INJO	73	6	921200	1253 PETROVIC,B.D.
ELEC	49	4	760219	112 HAYES,S.
ELDE	29	12	810611	243 FURUKAWA,O.
EDN	32	24	871126	247 SMITH,J.C.
INJO	68	6	900600	963 SHAH,N.A.
ELAU	52	12	901200	122 LANKSHEAR,P.
EDN	38	19	930916	124 DELAGRANGE,A.D.
JOPH	15	1	820100	101 PRANCE,R.J.
BYTE	11	7	860700	120 MARSHALL,T.
QST	66	3	820300	20 PALMER,D.
ETI	5	8	810800	11
ITNS	34	1	870200	240 BORGEOIS,F.
ITNS	36	1	890200	936 EVENSON,P.
ITNS	39	4	920800	753 BUCKENS,P.F.
BYTE	9	13	841200	105 CIARCIA,S.
ELEN	57	706	851000	39 O'DELL,T.H.
COCR	3	4	930400	62 GOSS,N.
PE	10	12	931200	31 MCKEAN,B.
EDN	27	23	821124	150 HUTCHINS,B.
RESC	54	9	830900	1248 LAGE,A.L.V.S.
ELEL	21	1	810100	63 NOLL,E.
ANIN	17	4	880400	339 LOW,G.K.-C.
73AM	0	355	900400	62 HOUGHTON,C.L.
ITIM	39	3	900600	522 GHOSH,D.
ANCH	52	4	800400	780 MADDUX,A.S.
PHED	17	5	820900	238 LOPES,J.S.
NIMA	323	1	921201	162 DEITERS,K.
ELEC	55	11	820602	148 ROBERTS,T.D.
QEX	0	63	870500	3 SHELL,D.
ELDE	39	2	910131	47 STEELE,J.
ELEN	64	783	920300	34 DOMSTEN,R.
EDN	32	8	870415	213 LELLE,B.
MEBI	20	2	820300	240 GRIP,A.
CICE	1	2	880300	43 RILEY,T.
ITNS	35	1	880200	446 FURETTA,C.
PE	6	3	890300	90 CARR,J.J.
AUAM	19	2	880500	46 GATZKE,R.E.
MOEL	6	12	891200	22 MACKISOC,N.J.,JR.
MIMI	16	6	920600	311 PREMALATHA,G.
NUIN	180	0	810200	45 DEITERS,K.

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INJO	71	3	910900	511 SURAKAMPONTORN,W.
RESC	53	4	820400	523 JANKA,K.
INJO	57	5	841100	713 FABRE,A.
JOPH	13	5	800500	500 KLUGMANN,E.
RESC	51	3	800300	310 HOLCOMB,D.J.
RAEL	61	8	900800	67 LANCASTER,D.
LAMI	11	3	930300	105 DO LAGO,C.L.
ELWI	92	1606	860800	29 UNSTEAD,P.B.
INJO	57	6	841200	775 HUERTAS,J.L.
CHBI	12	4	820400	215 EFSTATHIOU,C.E.
ELCI	133	4	860800	172 EVERARD,J.K.A.
RESC	50	6	790600	791 LUND,M.W.
NIMA	279	3	890715	579 PIQUE,A.
ITIM	39	5	901000	795 ABUELMA'ATTI,M.T.
POEL	7	2	750200	37 LANCASTER,D.
RFDE	16	2	930200	39 STILWELL,J.
EWWW	99	1689	930800	641 CIUBOTARU,A.
M116	30	1	791100	27 PHELAN,M.
M123	165	0	881200	439 SKARP,K.
ITNS	31	1	840200	362 NOWACK,G.
INJO	62	4	870400	521 NG,K.M.
EDN	30	24	851031	163 VALLEY,R.
ITCS	35	8	880800	1024 WEI,C.-H.
ELDE	40	12	920611	87 CARR,L.
CICE	0	24	911200	52 SWIGER,F.
EEU	2	6	920400	17 ZSCHOCKE,B.C.
ITNS	39	5	921000	1286 WINTENBERG,A.L.
RESC	53	9	820900	1338 FITZSIMMONS,J.R
AMJO	50	12	821200	1171 DU PLESSIS,L.A.
QST	69	3	850300	14 ANGLE,E.R.
EDN	29	24	841129	238 NEIDORFF,B.
AUAM	15	5	841000	48 JORGENSEN,P.
AUAM	15	1	840300	19 WILLIAMSON,R.
INJO	66	5	890500	697 ABDULLA,W.H.
NIMA	281	2	890901	325 BAAKE,M.
NIM	187	0	810800	323 SIGG,P.K.
73AM	0	354	900300	68 BRYCE,M.
NUIN	171	0	800400	149 BALDWIN,A.R.
M030	28	2	830200	177 MOUNTFORD,P.J.
M156	21	1	760100	1 STRAMBINI,G.B.
EEU	1	11	910900	14
EDN	37	8	920409	145 SCOLIO,J.
TALA	39	6	920600	589 HUANG,J.
ELWI	92	1606	860900	18 CATHERWOOD,M.
ELDE	30	15	820722	166 MICKO,E.
ITIE	34	1	870200	78 MUKHOPADHYAY,A.K.
M048	2	1	880200	66 HOCKADAY,D.
MIAP	10	4	871000	323 BATTAIOTTO,P.E.
ITIM	39	5	901000	801 KARYBAKAS,C.A.

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MEBI	23	1	850100	99 TAYLOR,W.B.
ELDE	36	13	880609	126 PETTY,C.
JOPH	22	8	890800	664 SLIFKIN,M.A.
COCR	1	5	910800	34 GOSS,N.
AUAM	22	3	910800	24 LIN,J.
PHED	21	3	860500	188 JONES,D.G.C.
JOPH	14	5	810500	638 DORING,F.W.
ITNS	34	1	870200	326 ENGINEERING DIV.,
ELWI	95	1643	890900	854
ELNO	64	4	930400	45 TUTHILL,N.J.
PE	10	5	930500	31 LANPHER,L.
73AM	0	263	820800	54 ROEHRIG,B.
NIMA	276	1	890315	131 ALBRECHT,R.
BYTE	5	9	800900	116 LANGNER,J.W.
BYTE	5	11	801100	32 CIARCIA,S.
COEL	21	4	830400	66 BERGAN,M.
HARA	21	7	880700	64 KREUTER,R.A.
EDN	28	1	830106	292 PIERCE,W.
M026	207	1	880415	325 TROJANOWICZ,M.
ITIM	33	1	840300	60 TROFIMENKOFF,F.
ITED	28	2	850500	65 AHLGREN,D.J.
AUAM	17	3	860800	42 NEHAN,A.
M076	11	1	910200	18 FULCHER,J.A.
73AM	0	299	850800	56 KOMM,D.S.
NIM	205	0	830100	403 BOUCLIER,R.
EDN	30	10	850502	232 PSHAENICH,A.
QEX	0	55	860900	16 KRAUSS,G.
ANCH	51	7	790600	1045 STROHL,A.N.
HAEL	4	3	870300	75 PATRICK,D.E.
RESC	55	6	840600	968 MCFEE,J.E.
RESC	58	3	870300	383 LAFYATIS,G.P.
HARA	22	10	891000	76 CEFALO,T.V.,JR.
MEBI	18	5	800900	664 KUSSENDRAGER,J.H.
80M2	0	48	840100	197 ALFORD,R.C.
BYTE	11	8	860800	97 CIARCIA,S.
HAEL	2	5	850500	76 FRIEDMAN,H.
NIMA	241	1	851115	100 CARIA,M.
TRAS	28	2	850300	622 SIGRIMIS,N.A.
JOPH	13	6	800600	647 FLOSSDORF,J.
RFDE	12	4	890400	54 DEWEY,R.
AMJO	47	3	790300	283 SELVARAJAN, A.
ITIE	37	5	901000	349 YOU,B.-J.
M030	28	3	830300	257 PEPPER,M.G.
RESC	50	8	790800	979 YOUSSEFKHANI,A.
ELEN	58	718	861000	27
ELEC	51	10	780511	122 JOHNSTON,D.F.
EDN	32	17	870820	243 ANDREZYK,S.
QST	71	6	870600	26 DION,W.
NIMA	279	1	890701	195 CAMIN,D.V.

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ELEN	64	782	920200	28 KULARATNA,A.D.V.N.
JMET	14	5	900500	102 OBEID,A.N.
QST	72	6	880600	38 NEWLAND,P.
REW	0	0	840200	75 HARDAKER,J.
ELTO	8	10	841000	52 QUINN,T.J.
ELDE	31	1	830106	326 ZAWILSKI,A.J.C.
RAEL	57	10	861000	67 MARSTON,R.
RESC	55	2	840200	250 JANKA,K.
INJO	52	3	820300	241 MARGARIS,N.
MIMI	9	4	850500	171 SAID,M.S.
TRAS	28	4	850700	994 PANG,S.N.
RESC	51	11	801100	1500 HAYASHI,H.
QEX	0	66	870800	8 MASCARO,D.
EDN	34	16	890803	153 QUINLAN,J.
HARA	22	11	891100	24 BRYANT,J.M.
CLEN	12	6	871100	447 MILLER,H.S.
IJMS	66	2	850725	121 TROTT,G.W.
RESC	57	11	861100	2842 BRISSON,J.G.
INJO	70	1	910100	221 ALLOS,J.E.
ITNS	38	2	910400	344 LEE,K.L.
CIDE	138	4	910800	457 BEN-TZVI,D.
EWWW	97	1672	920300	236 HEYCOCK,R.
RESC	52	2	810200	276 BLACKBURN,J.A.
RESC	48	5	770500	528 BASANO,L.
RAEL	58	10	871000	56 SARNS,S.E.
ELWI	92	1605	860700	39 WITTHOFFT,N.
JOPH	22	8	890800	618 OGER,M.
NIM	197	0	820600	371 BALL,R.C.
ELWI	91	1592	850800	65 MIRABEDINI,M.R.
JOPH	21	1	880100	113 EVANS,D.R.
ITNS	35	3	880600	1018 KURASHIGE,H.
M064	7	4	851000	310 RYAN,T.P.
MIRF	28	2	890200	119 LANE,C.
ITCE	34	1	880200	246 DEFRANCESCO,R.
JOMA	96	3	920215	624 WITTEBORT,R.J.
AJP	236	4	790600	894 LAW,H.F.
BYTE	7	11	821100	174 KERYAN,M.
EDN	29	21	841018	289 GILBERT,B.
NIMA	234	3	850215	517 HOLM,L.
M002	13	146	870600	55
EDN	36	13	910620	121 DEEVY,K.
RAEL	55	4	840400	98 SCOTT,R.F.
ITIM	31	1	820300	37 IKEDA,H.
ITBE	35	7	880700	526 MCKEAN,B.D.
TRAS	31	1	880100	240 MITCHELL,B.W.
M026	209	1	880615	213 YAO,S.-Z.
EDN	35	15	900719	194 CLARKE,R.M.
CHBI	12	3	820300	171 BRIMMER,S.P.
ELDE	36	16	880714	123 JIMENEZ-GARCIA,R.

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RESC	52	2	810200	297 CROSBY,D.A.
RESC	51	6	800600	803 HENNECKE,M.
EWWW	96	1656	901000	886 XIA,Y.
RFDE	13	12	901100	51 COLOTTI,J.J.
RFDE	13	12	901100	51 COLOTTI,J.J.
DIDE	12	4	820400	92
ELDE	30	24	821125	149 CANTRELL,T.W.
JOPH	21	7	880700	701 SHEN,G.
QEX	0	59	870100	12 KESTELOOT,A.
RFDE	12	6	890600	80 SOMER,G.L.
NIMA	288	2	900315	486 DUIJN,J.H.
MESC	4	2	930200	170 SUBRAMANIAN,V.S.
JOPH	20	3	870300	288 HOWELL,S.K.
AMJO	55	9	870900	835 WESLEY,J.T.
RESC	51	8	800800	1030 GRIFFING,B.F.
ELEN	61	745	890100	26 PETROVICIC,J.
MEBI	27	2	890300	210 JOHANSEN,O.
RESC	49	11	781100	1562 PEARCE,J.W.
COEL	21	1	830100	56 GORIN,J.
APSP	44	3	900300	380 HORLICK,G.
EWWW	96	1658	901200	1062
ITPD	4	4	891000	1997 KIRKHAM,H.
ELEC	50	18	770901	101 WILSON,K.
ELLE	28	6	920312	589 SUBRAMANIAN,V.S.
APSP	46	10	921000	1532 BOSTICK,J.M.
ELDE	32	5	840308	167 KITCHIN,C.R.
JOPH	18	5	850500	437 NAKAMAE,K.
JEPT	11	3	840300	125 KIDDER,G.W.,III
INJO	52	5	820500	477 JOHNSON,K.
RAEL	60	9	890900	43 NELSON,R.A.
NUIN	171	0	800400	275 LOVETT,A.
QST	68	10	841000	59 ATKINS,B.
SCEL	21	3	810500	30 SANTOKE,B.T.
RAEL	52	9	810900	43 SAWTELL,C.
MIRF	26	3	870300	91 SHVARTSMAN,V.A.
EWWW	97	1667	911000	860 RICHARDS,W.O.
RESC	53	6	820600	918 JACOBSON,A.R.
ELDE	34	10	860501	81 ALLAN,R.
ITIM	36	1	870300	54 CORNEY,A.C.E.
RAEL	60	7	890700	31 SONNTAG,R.
ELTO	8	7	840700	45
RESC	57	12	861200	3066 KOSTRZEWSKY,G.J
JOCH	68	3	910300	222 DEMAS,J.N.
ANCH	50	13	781100	1799 RATZLAFF,K.L.
M127	15	4	881200	325 PARAMESWARAN,M.
NIMA	226	1	840915	156 JARRON,P.
M087	30	4	881100	495 DRIVER,L.D.
AMJO	51	5	830500	452 DOUSSE,J.-C.
ELEN	57	707	851100	32 MOLNAR,K.L.J.

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ELTO	8	11	841100	12
ELWI	91	1588	850200	45 HUTTON,S.
QST	70	11	861100	22 ISLEIB,G.T.
RESC	60	7	890700	1347 BORGHESANI,A.F.
ITIM	39	6	901200	874 KWAAITAAL,T.
ITNS	38	2	910400	63 FOX,J.D.
ITIM	40	6	911200	925 SURAKAMPONTORN,W.
NIMA	273	1	881201	321 BACCI,C.
NIM	195	0	820400	429 ALAIME,C.
AUAM	15	2	840500	36 BAILEY,J.T.
EWWW	96	1654	900800	690 HOOD,J.L.
ETT	11	12	871200	10 STUART,M.
EDN	28	1	830106	115 WILLIAMS,J.
INJO	66	2	890200	289 WILLIAMS,L.
APSP	44	4	900500	701 BRILL,T.B.
TALA	34	10	871000	865 MIERZWINSKI,A.
RAEL	62	6	910600	54 TRIETLEY,H.L.
EWWW	99	1682	930100	75 SANDULEANU,M.
JOPH	21	12	881200	1167 SQUIRE,P.T.
INJO	68	2	900200	303 LAOPOULOS,T.L.
ITIM	38	3	890600	736 KONDO,K.
COCR	1	9	911200	36 PERKINS,D.M.
ITBE	37	4	900400	428 REZAZADEH,M.
RESC	52	9	810900	1403 CUTKOSKY,R.D.
ELDE	37	1	890112	131 JULIAN,M.
NIMA	270	2	880715	327 PENSOTTI,S.
MEBI	30	2	920300	251 RICHEZ,J.
NIMA	289	3	900415	496 PARK,S.
AUAM	21	1	900200	8 CHATER,W.
IJPA	27	7	890700	373 ALVAREZ,C.
CAL	2	5	840500	332 WATERS,P.J.
JOPH	20	12	871200	1480 LARSSON,K.
EDN	28	14	830707	307 LAIDA,D.
M016	29	4	900201	559 GARCIA,J.P.
ELLE	27	20	910926	1846 HASKINS,P.M.
JAJO	17	2	780200	429 OIDE,K.
ITIM	42	1	930200	75 WANG,Z.
RESC	60	2	890200	281 KAUFFMAN,J.F.
ELEN	56	693	840900	30 NORRIS,T.
AUAM	22	2	910400	32 BORBELY,E.
7ART	0	397	931000	58 HOUGHTON,C.L.
ELWI	91	1593	850900	64 KIRBY,S.
RAEL	63	4	920400	31 METZ,R.
RESC	61	4	900400	1251 LINDENBAUM,R.
NIMA	260	1	871001	101 BAUER,G.
AMJO	49	7	810700	672 BASANO,L.
JOPH	20	2	870200	217 WALKER,D.A.
RESC	56	3	850300	466 PROBST,P.A.
EWWW	95	1645	891100	1078

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RESC	57	8	860800	1574 CORNELIUS,W.A.
TALA	35	3	880300	215 ARNOLD,M.A.
AMJO	43	9	750900	839 BECKER,S.F.
JOPH	16	12	831200	1150 KURODA,S.
ANCH	54	11	820900	1908 BAIM,M.A.
JOPH	18	3	850300	188 CRONE,K.P.Y.
RESC	51	9	800900	1240 LAUG,O.B.
APSP	43	5	890700	794 UCHIDA,T.
RESC	54	4	830400	482 PATHAK,L.
ANCH	52	13	801100	2223 GEARHART,H.L.
ANCH	52	14	801200	2370 FARWELL,S.O.
ETT	13	9	890900	14 BOWES,C.
PE	7	4	900400	45 HUBSCHER,R.
AMJO	56	4	880400	352 GREENHOW,R.C.
MIRF	25	6	860600	113 SIN,J.K.O.
NIMA	240	2	851015	445 MARTIN,P.F.
IJPA	21	4	830400	253 CHATTERJEE,M.B.
HAEL	4	12	871200	43 FRUITMAN,E.
ELDE	35	16	870709	91 BREUNINGER,R.K.
ELDE	32	21	841018	258 MALANOWSKI,G.
ITIM	36	2	870600	230 KINOSHITA,J.
RAEL	56	10	851000	65 GIFFORD,J.D.
NIMA	275	2	890215	373 TIROSH,D.
HAEL	5	3	880300	82 RAKES,C.D.
M110	3	5	880900	439 PELED,A.
AUAM	21	2	900400	65 STAGGS,D.
NIMA	326	1	930301	71 BERTUCCIO,G.
ITCE	31	4	851100	700 LYTLER,R.
QST	66	7	820700	23 MCCLURE,D.
QST	62	9	780900	36 STEPHANY,J.F.
QST	67	12	831200	42 WASSON,G.
ELDE	34	18	860807	77
ITBE	33	1	860100	63 YONEZAWA,Y.
ANCH	60	3	880201	287 BAUER,W.E.
ETT	12	12	881200	52 COUGHLAN,I.
73AM	0	350	891100	12 GEIER,M.J.
JOAU	37	10	891000	809 MILLS,P.G.L.
AMJO	60	3	920300	269 CLAY,F.P.,JR.
EEU	2	9	920700	67 SOETE,L.
PHED	20	6	851100	305 WOOD,M.J.
EUJO	10	2	890200	123 SCONZA,A.
EWWW	96	1653	900700	634 HOOD,J.L.
EEU	1	12	911000	16 HALFOAT,C.W.
CEE	32	11	881000	48
ETT	14	3	900300	25 STUART,M.
ELDE	41	11	930527	78 RAILESHA,M.
MEBI	26	1	880100	68 TEW,A.I.
RFDE	11	1	880100	27 EVANS,S.
PE	10	6	930600	76 YACONO,J.J.

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CQ	39	9	830900	70 INGRAM,D.A.
NIMA	288	1	900301	250 SCHOONEVELD,E.M.
MEBI	29	3	910500	324 DASKALOV,I.K.
ELTO	8	10	841000	26 PRITCHARD,J.
RAEL	57	8	860800	43 COOPER,D.B.
CICE	0	27	920600	76 BACHIOCHI,J.
ELEC	51	6	780316	39
EDN	35	17	900820	152 BANDELL,H.
EDN	30	25	851114	311 MILLAR,J.
JONE	24	1	880500	81 MILLAR,J.
WW	89	1564	830100	42 FORRESTER,T.D.
ITBE	39	9	920900	982 PITSILLIDES,K.F.
ITCE	33	3	870800	10 MARINO,J.
NUIN	174	0	800800	277 BARDSLEY,D.J.
EEU	2	2	911200	60
M081	6	5	850500	219 JAEGER,R.C.
EDN	34	25	891207	257 SPEAROW,C.
JONE	25	2	880900	91 MILLAR,J.
ITIE	37	6	901200	452 CHANG,F.-J.
ELDE	33	28	851128	125 EVANS,S.
ELEC	56	19	830922	151 CAHILL,S.J.
MEBI	20	6	821100	761 ZINNER,H.
ELDE	35	5	870305	85 YAGER,C.
JOAU	35	11	871100	907 SELF,D.R.G.
73AM	0	335	880800	12 CEBIK,L.B.
M094	7	8	880800	3 VAN ALSTINE,F.
INJO	68	6	900600	931 TODA,K.
SCPR	1	2	910400	101 BARDEN,W.,JR.
73AM	0	351	891200	9 WARFEL,T.E.
QST	69	11	851100	51 STUNTZ,S.
M055	10	4	811000	175 KILVINGTON,M.
ITBR	37	2	910600	64 LOURENS,J.G.
ELWI	94	1623	880100	72
PE	10	5	930500	70 RAKES,C.D.
ELTO	9	1	850100	41
ELEN	56	692	840800	27 MEKHALE,R.N.
ELTO	8	6	840600	67 HAMILL,D.
ELEN	57	697	850100	39 HOVORKA,G.
INJO	59	6	851200	771 NORMAND,G.
ELTO	10	4	860400	26 PENFOLD,R.A.
JONE	7	2	830200	165 MERRILL,E.G.
MEBI	23	4	850700	387 TAKAHASI,M.
JEPT	12	3	850300	151 OLSON,J.E.
CQ	39	1	830100	36 KRETZMAN,B.H.
PHED	18	4	830700	172 CALVO,J.L.
ITIM	37	3	880900	383 AL-ALAOUI,M.A.
M064	9	3	870700	279 KING,M.E.
PE	6	12	891200	22 WELS,B.G.
AUAM	20	4	891000	62 HOGYA,N.J.

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73AM	0	361	901000	10 WELLS,H.
MOEL	7	10	901000	44 VON PAWLAK,C.
ELDE	38	18	900927	164 PEASE,R.A.
RESC	62	1	910100	238 OLKKONEN,H.
7ART	0	365	910200	62 BRYCE,M.
ITNS	38	2	910400	559 OWENS,A.
ELWI	95	1643	890900	910 YATES,D.
MIMI	15	7	910900	379 GANESAN,S.
EEU	2	8	920600	21 DICK,S.
AMJO	61	3	930300	282 DUPUY,D.L.
HAEL	2	1	840100	66 VIRNELSON,R.C.
ITIM	35	1	860300	65 BUMGARNER,B.A.
IJPA	25	1	870100	40 BHATTACHARYA,R.C.
NUIN	147	0	771100	599 CENTRO,S.
RESC	48	6	770600	706 PICKETT,H.M.
RAEL	58	10	871000	49 GRAF,R.F.
HAEL	4	11	871100	92 WELS,B.G.
EEU	2	5	920300	14 SCHREIBER,M.
MEBI	30	2	920300	226 DODDRELL,D.M.
RAEL	56	5	850500	110 PHAM,R.
MIAP	10	3	870700	219 TYLER,J.E.M.
ANCH	57	14	851200	2774 EWELS,B.A.
JOCH	65	12	881200	1079 SCHEELINE,A.
M138	9	3	890700	137 HENCKE,H.
RESC	57	3	860300	365 KUMAR,D.
73AM	0	266	821100	26 WEIR,J.
EEU	2	9	920700	24 GIESBERTS,T.
MEBI	22	4	840700	298 PETROFSKY,J.S.
MEBI	25	4	870700	420 DREWS,T.A.
ITNS	35	1	880200	342 SASAKI,O.
M161	58	3	850300	1031 HOWLAND,R.J.
RAEL	62	10	911000	43 SWIFT,S.D.
RESC	54	9	830900	1243 CHAHINE,R.
BYTE	8	7	830700	26 CIARCIA,S.
73AM	22	9	820600	52 CHRISTIAN,J.R.
PE	7	3	900300	69 HOFFMAN,R.
RAEL	61	6	900600	41 WANNAMAKER,J.
PE	8	7	910700	59 RAKES,C.D.
RAEL	62	11	911100	49 JAFFE,J.
PE	10	2	930200	35 GORDON,J.
COCR	3	11	931100	60 GOSS,N.
RESC	57	3	860300	384 DUNNAM,C.R.
MOEL	6	1	890100	42 CARISTI,A.J.
PE	6	2	890200	84 RAKES,C.D.
NIMA	275	3	890301	597 SCHOONEVELD,E.M.
ELWI	90	1581	840600	45 LAMBLEY,R.
LAMI	4	1	850100	26 EVERETT,S.
ELEC	50	13	770623	127 PERRETTA,L.A.
ELEC	50	18	770901	98 BARNETT,T.G.

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ELDE	27	6	790315	96 PEASE,R.A.
ELCI	131	5	841000	209 POPOVICH,M.V.
RESC	59	9	880900	2094 YANG,Y.-T.
SKTE	78	6	891200	658 COLE,D.C.
PE	7	8	900800	29 SCHOPP,W.W.
WW	89	1567	830400	74 SCARPELLI,A.T.
RAFU	0	7	920200	10 CONSUGAR,J.
RESC	58	6	870600	968 WILDER,J.A.
73AM	0	287	840800	21 CLOWER,P.
73AM	0	266	821100	56 WYATT,K.D.
ITIE	33	2	860500	185 RAJASHEKARA,K.S.
HARA	21	12	881200	26 LIAO,T.C.
PE	7	5	900500	72 CARR,J.J.
ELDE	34	12	860529	199 POZADZIDES,J.
QST	69	8	850800	25 ZEHR,G.
NIMA	47	2	860615	399 TESHIMA,M.
JMET	12	3	880500	106 LINDAHL,O.
73AM	0	329	880200	80 BRYCE,M.
NUIN	166	0	791100	299 CASOLI,P.
ETI	5	8	810800	49
CQ	39	3	830300	40 KRETZMAN,B.H.I.
ELEN	55	676	830400	28 RUNDLE,S.
RAEL	59	7	880700	61 MARSTON,R.
AMJO	57	7	890700	630 WILSON,D.E.
ELDE	28	21	801011	212 BALL,C.R.,JR.
ELNO	63	7	920700	57 FOX,T.R.
IJEE	23	1	860100	21 CAMPBELL,D.R.
73AM	0	285	840600	34 PENFOLD,R.A.
ITNS	34	1	870200	253 BERTOLUCCI,B.
CICE	0	37	930800	44 NISLEY,E.
COEL	21	6	830600	61 LEE,M.
POEL	11	4	770400	75 MIMS,F.M.
EDN	29	21	841018	279 SINGLE,P.
ELDE	37	12	890608	75 RAUH,G.
EDN	36	16	910805	161 VANDANA,J.
EWWW	99	1687	930600	454 HOOD,J.L.
NIMA	270	2	880715	487 BOSE,S.
M016	23	2	840115	269 OKAMOTO,T.
INJO	56	3	840300	379 EMURA,M.
ELTE	12	4	890400	38 PRANG,J.A.
73AM	0	346	890700	54 PACHOLOK,D.
RAEL	54	2	830200	50 PELTON,D.
RAEL	56	5	850500	73 COHEN,M.S.
ELEN	58	719	861100	40 BALAKRISHNAN,N.
RAEL	57	12	861200	71
AGME	18	0	770000	187 MUCHOW,R.C.
MEBI	21	6	831100	762 DE N. DONALDSON,N.
HAEL	4	1	870100	73 PAYOR,S.
QST	66	2	820200	49 STRINGHAM,K.,JR

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ELEC	55	1	820113	162 BROWN,F.
ELDE	30	3	820204	147 ERDMAN,W.
POEL	18	1	800700	92 WOODS,S.A.
POEL	14	6	781200	69 HOLLABAUGH,J.
HAEL	2	5	850500	51 IANNINI,R.
EDN	32	12	870611	203 BARNETT,T.G.
QST	70	11	861100	40 WILLIAMS,B.O.
M096	135	6	881200	155 LAZARUS,M.J.
HARA	22	3	890300	8 BADER,C.J.
AMJO	49	8	810800	776 ALFREY,A.J.
ITIM	38	6	891200	1083 NATARAJAN,S.
ITCS	37	8	900800	1000 KAZIMIERCZUK,M.K.
JMET	14	4	900700	155 MARSHALL,I.
AUAM	22	1	910200	47
73AM	0	265	821000	84 SWEARINGEN,P.
EDN	38	13	930624	149 MANNER,D.B.
JOPH	16	9	830900	862 JAROSZYNSKI,D.A
CQ	39	2	830200	64 INGRAM,D.
ETT	16	6	910700	37
NIMA	305	2	910720	449 BASSINI,R.
HAEL	5	2	880200	4
TRIN	9	4	871000	218 COATES,R.
73AM	0	354	900300	36 BLOOM,R.E.
M026	230	1	900301	41 KUROSAWA,S.
ITNS	37	2	900400	56 RAI,G.
WW	89	1564	830100	70 COATES,R.F.
M160	44	4	780400	607 JONES,D.L.
COCR	2	2	920200	50 AXELSON,J.
ELMU	2	9	860900	36 CAMPBELL,A.G.
COEL	22	1	840100	96 MIMS,F.M.,III
RESC	58	5	870500	742 CLAIBORNE,T.C.
EWWW	97	1670	920100	33 STEWART,P.
RESC	55	4	840400	495 LUTHJENS,L.H.
73AM	0	280	840100	10 ALLEN,D.P.
POEL	19	3	810300	92 MCVEIGH,J.
HAEL	4	11	871100	32 GILPIN,F.I.
QST	71	1	870100	34 KERN,M.A.
PE	8	4	910400	58 LAWRENCE,L.G.
EDN	36	17	910819	123 GRAEME,G.
CQ	41	8	850800	63 KATZ,S.
QEX	0	47	860100	9 KRAUSS,G.
RFDE	13	7	900700	63 PRZEDPELSKI,A.B.
JOPH	17	2	840200	105 CRUZ,C.H.B.
QST	68	8	840800	38 DEMAW,D.
INJO	65	1	880700	111 KADHIM,K.N.
RESC	52	3	810300	386 WOOD,B.M.
HARA	23	5	900500	30 COVINGTON,M.A.
ITBE	37	7	900700	716 ZIERHOFER,C.M.
POEL	11	6	770600	88 PRUDHOMME,W.J.

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AUDI	61	2	770200	28 PASS,N.
POEL	12	3	770900	55 BUCHANAN,M.J.
QST	72	11	881100	37 FREY,D.
QST	69	12	851200	37 DEMAW,D.
7ART	0	379	920400	80 BRYCE,M.
PE	9	6	920600	29 VOLLONO,V.
ELEN	59	731	871100	119 FORREST,C.
PE	7	2	900200	65 HUBSCHER,R.
DIDE	10	4	800400	94 TANDON,V.B.
QST	67	8	830800	48 GEISER,D.T.
ELWI	92	1604	860600	52 HALL,P.
RESC	49	8	780800	1054 ANELLI,E.F.
EWWW	97	1664	910700	608
73AM	0	280	840100	32 WILLIS,J.
QST	65	9	810900	43 VITREY,H.
M049	48	3	810300	108 HANSEN,D.W.
EWWW	96	1654	900800	735 TOWNSEND,R.
LAMI	9	3	900300	77 DE SOUZA,P.S.
REW	0	0	840400	64 BEARD,D.R.
73AM	0	318	870300	70 PUTMAN,P.H.
CQ	39	8	830800	48 BEARD,R.D.
M050	26	1	880100	15 BARTACHEK,J.L.
RESC	52	7	810700	990 JETHWA,J.
RESC	62	12	911200	3098 DEVRIES,G.J.
EWWW	95	1645	891100	1042 HOOD,J.L.
73AM	0	360	900900	46 BRYCE,M.
ELSC	4	1	770100	75 AUCOUTURIER,J.L.
CQ	47	9	910900	54 DEMAW,D.
QST	66	8	820800	45 DEMAW,D.
EDN	36	18	910902	160 YIU,H.
QST	65	7	810700	28 SANDERSON,D.
CQ	39	6	830600	54 BROWN,F.
POEL	11	1	770100	34 MCVEIGH,J.
NIM	214	2	830901	217 CERRI,C.
ITED	31	2	880500	132 KEHINDE,L.O.
RAEL	61	2	900200	51 BATHGATE,E.
RESC	63	2	920200	1710 JAMES,D.R.
RESC	62	2	910200	308 OAK,S.M.
RAFU	0	8	920300	14 RAKES,C.D.
QST	67	4	830400	19 DEMAW,D.
ELEC	50	21	771013	95 CHERKASON,L.A.
MEBI	21	3	830500	343 THAKOR,N.V.
RESC	48	12	771200	1555 MROCZKOWSKI,J.A.
EDN	36	8	910411	158 SZEP,T.
73AM	0	341	890200	64 STONE,M.
JOPH	15	12	821200	1341 BOTTANI,C.E.
QST	62	3	780300	19 SHRINER,R.
INJO	62	1	870100	97 OLANIYAN,O.O.
NIM	215	1	830915	135 FILATOVA,N.A.

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ITNS	38	2	910400	50 NAKAMURA,M.
QST	68	1	840100	13 WHIPKEY,D.
HAEL	2	1	840100	21 BAILEY,J.T.
ELDE	28	8	800412	107 PASTORINO,G.
JOPH	13	12	801200	1339 KNIGHT,R.C.
BYTE	12	11	871000	135 CIARCIA,S.
ELDE	34	7	860320	61 GOODENOUGH,F.
ELEC	49	9	760429	114 CHERIAN,P.J.
RESC	57	7	860700	1435 WAGNER,J.W.
QST	61	3	770300	37 HELFRICK,A.D.
RAEL	53	9	820900	45 GROSSBLATT,R.
RESC	52	4	810400	579 TSUCHIYA,Y.
RESC	62	1	910100	217 TODA,K.
RESC	52	5	810500	724 GOUGH,R.G.
NIMA	288	1	900301	212 THOMAS,S.L.
CQ	41	1	850100	24 SCHULTZ,J.J.
ELDE	37	4	890223	89 GRAEME,J.
ITNS	36	1	890200	416 SASAKI,O.
HARA	22	11	891100	62 ARMSTRONG,R.H.
RESC	49	10	781000	1413 PASSNER,A.
EDN	36	9	910425	182 GRAEME,J.
INJO	61	3	860900	286 NORMAND,G.
RESC	59	3	880300	486 POPOVIC,R.
ELDE	37	3	890209	107 PHILLIPS,B.W.
RESC	62	4	910400	1031 BAKER,R.J.
CODI	3	2	860200	9 DAHLBY,R.
HAEL	5	12	881200	58 CLARKE,J.
ETI	7	4	830400	19 ELAM,A.
NIMA	239	3	850915	568 KOSTAMOVARA,J.
RESC	63	1	920100	241 CHARETTE,P.G.
RESC	48	2	770200	195 GONDA,T.
RESC	63	9	920900	4208 DEL RIO,E.
LAMI	11	2	920200	74 NG,W.-Y.
ELDE	31	8	830414	165 RAYSBY,K.
RESC	55	5	840500	732 STROSCIO,J.A.
ITIM	40	1	910200	7 MACUCCI,M.
ELEN	57	700	850400	61 WILSON,R.
ELDE	37	5	890309	74 DERUITER,J.
NIMA	264	2	880215	219 HALLEWELL,G.
ITCS	36	11	891100	1485 KAZIMIERCZUK,M.K.
ELWI	93	1614	870400	387
ITPE	2	3	870700	186 LUTTEKE,G.
EDN	33	17	880818	219 LYGOURAS,J.N.
M113	1	3	820500	5
ITIE	36	3	890800	425 KAZIMIERCZUK,M.K.
ITIM	38	6	891200	1064 KAZIMIERCZUK,M.K.
ITIE	37	2	900400	160 KAZIMIERCZUK,M.K.
ITIE	37	2	900400	173 JOZWIK,J.J.
ITIE	38	5	911000	344 KAZIMIERCZUK,M.K.

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ITCS	36	10	911000	1165 KAZIMIERCZUK,M.K.
RFDE	15	9	920900	103 RAAB,F.H.
MOEL	8	2	910200	32 MEYER,M.
ELEN	56	686	840200	25 KRAUS,K.
ELWI	92	1604	860600	49 KRAUS,K.
JONE	19	2	870200	115 KASPER,H.J.
NIMA	265	3	880315	511 MEIJER,R.J.
RESC	62	12	911200	3037 RENKSIZBULUT,M.
ELLE	24	11	880526	697 HINCHLIFFE,S.
QST	70	1	860100	29 DEMAW,D.
RAEL	59	7	880700	87 NICHOLS,K.
MIRF	28	4	890400	91 ANTEPYAN,R.
RESC	49	3	780300	385 GUHARAY,S.K.
RESC	54	12	831200	1739 WARE,R.H.
NIMA	302	2	910415	241 DRACOS,M.
RESC	62	1	910100	81 COLLIGIANI,A.
ELLE	23	18	870827	973 COLLINS,D.
HARA	22	6	890600	76 DOHERTY,P.
PE	6	5	890500	85 RAKES,C.D.
ELDE	29	6	810319	221 GALLOWAY,D.
ELWI	92	1611	870100	43
73AM	0	362	901100	78 BRYCE,M.
EEU	2	1	911100	37 GIFFARD,T.
EEU	2	9	920700	51 PLUIS,S.
IJEE	20	4	831000	351 HOBSON,L.
JONE	15	1	851000	1 LAMB,T.D.
MEBI	22	4	840700	361 KEHINDE,L.O.
RESC	60	4	890400	779 BERNIUS,M.T.
NIMA	290	2	900510	579 KASHIWAGI,T.
COEL	20	11	821100	14 BUCHSBAUM,W.
NIMA	289	3	900415	426 ALESSANDRELLO,A.
M080	26	268	890400	50 TOKONAMI,M.
CICE	0	36	930700	62 CANTRELL,T.
MESC	1	9	900900	869 DAVIES,A.J.
ELMU	4	6	880600	78 HENRY,T.
M026	224	1	890901	145 LIU,J.
NIMA	237	3	850701	475 DOKE,T.
ELDE	38	10	900524	79 KHALSA,N.S.
NIMA	292	1	900615	129 ANNAND,J.R.M.
M184	24	1	870100	97 MATSUMOTO,T.
ITPE	7	1	920100	99 GU,W.-J.
NIM	216	1	831015	127 HAYASHIDE,Y.
NIMA	276	3	890401	482 KATVARS,S.G.
ITNS	36	1	890200	181 TAKAMI,Y.
ITPE	3	4	881000	430 GU,W.-J.
RESC	57	4	860400	661 KRAUSE,J.K.
AUAM	22	4	911000	40
IEEB	138	6	911100	285 KAZIMIERCZUK,M.K.
ELDE	35	12	870514	212

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ELNO	63	12	930100	69 LANCASTER,D.
ITIE	37	6	901200	514 GRACIA,F.J.
EDN	34	2	890119	203 KLOPFENSTEIN,R.,JR
EDN	34	9	890427	165 WILLIAMS,J.
ELDE	40	1	920109	132 LEE,M.
CICE	0	26	920400	34 COX,F.
ELSC	8	3	810100	103 MIURA,N.
ITPE	1	4	861000	193 LUTTEKE,G.
EDN	29	3	840209	232 WOLFE,K.
RESC	50	4	790400	488 RZEMIEN,R.
AUAM	18	4	871100	54 RUSCH,L.
BYTE	7	9	820900	276 SCHWEJDA,P.
AUAM	17	4	861000	44 MYERS,R.
RAEL	55	6	840600	41 GUPTA,S.K.
RESC	51	10	801000	1326 TRABJERG,I.
M017	41	1	860900	31 ZHENG,C.-E.
EDN	28	17	830818	100 TRAVIS,B.
MIMI	11	9	871100	475 MAUNDY,B.
NIMA	308	3	911020	574 ADARKAR,H.
ELDE	36	8	880331	107 MILLER,L.
ITNS	32	4	850800	1335 SWOBODA,C.
M084	2	8	890800	297 BHARJ,S.S.
PE	6	11	891100	35 CARR,J.J.
COCR	2	8	920800	10 EGGERT,D.N.
73AM	0	355	900400	57 MACALLISTER,A.
RAEL	61	10	901000	55 GREEN,B.
SOLU	0	0	860100	13
RAEL	56	9	850900	63 GROSSBLATT,R.
ELEN	58	710	860200	33 COZER,C.
RAEL	58	5	870500	62 SARNS,S.E.
ELDE	34	23	861002	131 OWEN,J.
CODE	19	5	800500	232 CHESTER,M.
ELDE	30	12	820610	236 GROSS,G.
MIMI	8	8	841000	430 EISELE,M.W.
ELEC	56	6	830324	128 THORP,A.
RAEL	55	11	841100	73 CARR,J.J.
RESC	51	1	800100	123 ZUBIN,J.A.
ELWI	93	1613	870300	295 DE RIVAS,J.
POEL	12	5	771100	84 MCVEIGH,J.
MISY	4	10	831000	56 REITZ,R.
COEL	21	10	831000	86 ERICKSEN,J.
COCR	1	8	911100	37 PERKINS,D.M.
ELEN	56	693	840900	38 CUFF,A.R.
ELWI	93	1615	870500	508 FROST,B.J.
EDN	28	3	830203	168 PATHAN,F.
EDN	35	1	900104	140 HILLIS,A.
COSY	1	1	851000	47 WALLACE,C.
EDN	37	25	921210	183 HAJJAR,T.
ELTO	8	6	840600	68 O'CONNER,B.

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RESC	59	5	880500	787 SCHEFFEY,C.
EDN	29	23	841115	335 MALLONEE,G.
CICE	1	2	880300	4 CIARCIA,S.
ITNS	31	1	840200	197 YASU,Y.
73AM	0	270	830300	46 KOLB,L.
EDN	28	10	830512	169 HEMENWAY,J.
RAEL	63	6	920600	33 SONNTAG,R.
QST	74	5	900500	22 RUMBOLT,R.
HARA	20	2	870200	81 WELLS,H.
PE	10	3	930300	40 BIGELOW,S.J.
ELDE	31	25	831208	203 CHAO,R.
M107	31	8	890800	70 DICK,B.
POEL	17	5	800500	84 MIMS,F.M.
ELDE	29	6	810319	73
CQ	40	7	840700	44 PLANT,D.F.
ELDE	39	13	910711	149 GOODENOUGH,F.
EWWW	98	1679	921100	894 NICKLIN,D.
68MI	5	9	830900	38
EDN	34	9	890427	195 GOODELL,E.
ELEN	64	783	920300	75
ITCS	37	2	900200	183 ASTA,D.
M070	27	3	830900	31 SELVAN,B.
ANCH	50	14	781200	2169 MAPP,G.R.,IV
COCR	2	3	930300	62 GOSS,N.
ELTE	13	5	900500	67 OKUPSKI,R.
EDN	36	11	910523	170 SOTO,J.
HARA	22	3	890300	59 HORN,G.W.
ELEC	51	15	780720	105 OLSCHESKI,B.
COCR	2	6	920600	32 GOSS,N.
EWWW	95	1645	891100	1061
CONO	5	8	871100	26 GREINER,B.
APSP	37	6	831100	537 BARNHART,S.G.
RAEL	60	12	891200	81 BEK,R.
ITPE	4	1	890100	147 HOPKINS,D.C.
M125	3	2	900400	26 CAMPBELL,E.E.
ELWI	95	1641	890700	692 PALAZZI,P.
ELDE	40	3	920206	81 KHALSA,N.S.
ANCH	53	8	810700	1175 MARINO,D.F.
RAEL	57	8	860800	39 STEVENS,A.
QST	72	8	880800	22 DEMAU,D.
ELDE	27	8	790412	126 WURZBURG,H.V.
COCR	3	8	930800	10 GOSS,N.
COCR	3	7	930700	48 GOSS,N.
RAEL	57	5	860500	67 GIFFORD,J.D.
CICE	1	1	880100	28 VOORHEES,M.
MESC	1	7	900700	539 WALMSLEY,A.
ELWI	93	1619	870900	933
ELNO	64	1	930100	55 BLACK,T.E.
EDN	31	2	860123	93 CORMIER,D.

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JOMA	50	2	821100	316 HINTERMANN,M.
POEL	20	1	820100	48 MANGIERI,A.
ELEN	55	675	830300	25 CATTO,C.J.D.
JONE	29	1	890700	59 STRICKHOLM,A.
PE	7	3	900300	37 STROUD,L.M.
M002	16	182	901000	58
ETI	7	5	830500	84
RESC	51	6	800600	855 DEMAS,J.N.
73AM	0	337	881000	77 COPPOLA,V.
BYTE	6	8	810800	50 CIARCIA,S.
M004	2	1	830300	38 FROMM,E.
JOAU	39	4	910400	219 BIRT,D.R.
ESD	17	2	870200	81 CASEY,P.
NIMA	273	1	881201	117 GAGLIARDI,C.A.
JOAU	31	3	830300	139 CATRYSSSE,J.A.M.
HARA	22	12	891200	42 TIEMEYER,C.
QST	71	12	871200	32 DEMAW,D.
M002	13	142	870200	51
RESC	56	3	850300	355 SMITH,R.S.,III
GLAU	3	2	910200	16 BARBOUR,E.
ELEC	56	19	830922	150 WARREN,D.S.
RAEL	59	5	880500	57 HILL,N.
ELEC	49	16	760805	101 WENDLAND,P.H.
ANCH	54	7	820600	1113 PATTON,C.J.
ITNS	34	1	870200	528 HENDERSON,R.
RAEL	58	6	870600	80 FITCH,R.D.
M148	78	1	900801	63 MARAZOV,O.R.
INJO	52	5	820500	455 TAHA,S.M.R.
CODE	20	6	810600	135 MACDONALD,R.
EDN	30	1	850110	288 CHAPMAN,E.
ELEC	51	10	780511	118 SMITH,S.M.
QST	66	2	820200	19 LEE,R.E.
JONE	25	3	881000	209 MIRMIRAN,M.
ELEN	57	697	850100	43 DAVIES,M.E.
M125	2	4	891000	6 O'HARA,T.
ELTO	10	1	860100	47 REES,I.
73AM	0	327	871200	44 NEELEY,J.
RAEL	60	3	890300	73 ROWE,C.L.
ELDE	30	4	820218	159 RHODES,C.C.
PE	6	7	890700	37
EDN	29	11	840531	153 YOUNG,M.S.
ITC2	39	2	920200	126 DI CATALDO,G.
BYTE	7	2	820200	258 BARDEN,W.,JR.
PE	8	7	910700	25 PERELMAN,F.
PE	9	10	921000	31 CARISTI,A.J.
PE	10	2	930200	53 MELTON,J.
BYTE	2	9	770900	62 CHAMBERLIN,H.
NIMA	314	1	920401	191 SEIXAS,J.M.
EDN	33	17	880818	91 LEIBSON,S.H.

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RESC	60	9	890900	2902 HILINSKI,E.F.
QST	65	8	810800	22 HEIL,B.
MIAP	10	4	871000	359 JARAGH,M.H.
AMJO	60	6	920600	570 WISMAN,R.
REW	0	0	830300	44 GRAHAM,M.
PE	7	3	900300	63 HUGHES,M.
ITCE	30	4	841100	537 LEE,M.
JOPH	20	11	871100	1421 MCMILLAN,J.E.
QST	65	11	811100	45 KENNICOTT,J.
DIDE	9	5	790500	36 BENDIKSEN,L.F.
MEBI	25	4	870700	443 TAKAKI,T.
ELEN	62	759	900300	29 BERGMAN,G.D.
RAEL	60	10	891000	49 GRAF,R.F.
BEBR	26	1	860100	3 FRYMIRE,B.
CQ	40	2	840200	48 SCHULTZ,J.J.
RESC	53	11	821100	1762 NOEL,B.W.
NIMA	294	1	900901	108 ALLEN,C.
ELEC	56	17	830825	138 HO,S.
NUIN	173	0	800600	471 HUSSAIN,K.A.Z.A.
7ART	0	368	910500	30 SHELLEY,J.
ELSC	10	2	830200	95 GONDEK,J.J.
DIDE	12	9	820900	26 ALBAUGH,N.
POEL	19	1	810100	86 MIMS,F.M.
EPD	12	9	910900	25 WOODWORTH,A.
EWWW	97	1671	920200	146
ELDE	32	9	840503	313 KAPLINSKY,C.
EDN	29	1	840112	292 SOUTHWORTH,B.
EDN	36	2	910121	160 MAJESTIC,R.
NIMA	235	2	850401	216 BARBIELLINI,G.
EDN	37	10	920507	135 WRIGHT,M.
ITNS	33	1	860200	73 SUEKANE,F.
ELDE	37	3	890209	43 GOODENOUGH,F.
HAEL	3	4	860700	43 CUNKELMAN,J.
EDN	37	10	920507	197 WATTS,M.
ELDE	41	5	930304	37 SHANDLE,J.
RFDE	8	8	850800	46 VREELAND,R.W.
ANCH	58	8	860700	1902 FIELDS,R.E.,III
CODE	29	3	900201	47 WILSON,R.
ITNS	33	1	860200	86 BERNSTEIN,D.
73AM	0	340	890100	18 BLOOM,R.E.
TRAS	30	5	870900	1210 CHANCELLOR,W.J.
HAEL	3	2	860300	69 NOLL,E.M.
ELWI	93	1602	860400	71 BIRKETT,A.G.
BYTE	7	11	821100	216 LEMMONS,P.
IJEE	23	1	860100	43 BABU,T.K.M.
ELDE	35	29	871210	59 DEIERLING,C.
EDN	33	5	880303	163 JIMENEZ-G,R.
EDN	33	11	880526	210 MCCLELLAND,W.
PE	6	4	890400	29 RAKES,C.D.

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LAMI	7	4	880400	137 KOYUNCU,B.
EWWW	97	1660	910200	118 LANGVAD,J.
LAMI	11	3	930300	114 BALASUBRAMANIAN,K.
POEL	14	5	781100	81 KRAENGEL,W.D.,JR.
RESC	58	6	870600	997 BELLING,J.M.
CICE	1	3	880500	34 NISLEY,E.
MOEL	8	2	910200	40 SOKOLOWSKI,S.
ELWI	92	1605	860700	37 STANFORTH,C.
M169	29	2	800200	208 ELLIS,M.J.
OPLA	22	3	900600	199 RACCA,R.G.
POEL	12	2	770800	59 HEDIN,R.S.
POEL	14	3	780900	45 GREEN,W.L.
CICE	0	15	900600	24 NISLEY,E.
FAJO	7	4	790700	26 CONOVER,J.
RESC	54	1	830100	65 MELAMED,N.T.
ELWI	90	1584	841000	37 MILLER,J.R.
APSP	43	1	890100	129 UCHIDA,T.
ELDE	28	4	800215	101 BARTLETT,J.
M195	19	1	920100	7 KESTELOOT,A.
RESC	61	6	900600	1729 TOMIC,D.
MIMI	14	10	901200	664 SAFAI,M.
COCR	2	9	920900	36 SOKOLOWSKI,S.
ELNO	64	7	930700	84 GROSSBLATT,R.
COCR	3	8	930800	53 MCKELLIPS,W.K.
LAPR	29	4	800400	380 VAN STEENDEREN,R.A
73AM	0	329	880200	44 CORNELL,K.
ELEC	49	8	760415	161 BLAHUTA,T.G.
RAEL	58	6	870600	64 MARSTON,R.
RAEL	59	10	881000	99 GROSSBLATT,R.
MIMI	9	4	850500	191 HAWKES,A.H.
ELDE	37	2	890126	113 MARGULIS,N.
BYTE	5	4	800400	40 CIARCIA,S.
BYTE	5	3	800300	17 CIARCIA,S.
REW	0	0	840900	62 BROWN,M.A.
RESC	53	3	820300	285 MEHMETOGLU,M.T.
BYTE	13	8	880800	239 CIARCIA,S.
ETI	6	8	820800	24
EDN	37	8	920409	98 CONNER,D.
NIMA	297	3	901210	425 KILGUS,U.
ELNO	64	5	930500	56 HAGANS,M.
RESC	55	9	840900	1410 HOHIMER,J.P.
NIMA	241	1	851115	218 VAIDYA,P.P.
CICE	0	17	901000	82 BACHIOCHI,J.
ELTO	10	11	861100	49 MACAULAY,J.
LAMI	7	3	880300	107 JONES,H.
QEX	0	35	850100	3 BOTNER,J.
M114	1	4	890400	12 FRANCE,S.
GLAU	91	1	910100	38 PENK,P.
INJO	61	2	860800	169 TSOI,A.C.

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RESC	53	12	821200	1882 TSUJI,S.
M002	17	190	910600	14 RIGBY,A.
EDN	31	15	860724	64 CONNER,M.S.
GLAU	3	2	910200	1 ROZENBLIT,B.
ESD	18	8	880800	29 EVANS,J.
ELEC	53	11	800508	173 DUNN,J.
MISY	5	6	840600	98 ZEIGER,M.
CICE	0	35	930600	26 WYLAND,D.
RESC	51	6	800600	850 BIALKOWSKI,S.E.
RESC	60	10	891000	3315 LEE,A.T.
HARA	14	11	811100	54 CUTSOGEGORGE,G.
M064	10	1	880100	33 HARBA,M.I.A.
HRH	4	5	800500	24 BLAKESLEE,D.
RESC	52	4	810400	624 EDGERTON,H.E.
JOPH	22	9	890900	781 GALLERANI,A.
NIM	189	0	811000	439 CAVALIERE,S.
POEL	14	3	780900	98
ELEN	59	723	870300	30 GREAVES,D.
INJO	56	1	840100	71 KOURTIS,A.M.
MEIN	22	1	880200	12 KOBLASZ,A.
JOPH	13	8	800800	848 FARLEY,J.W.
QEX	0	62	870400	9 RICHEY,M.N.
M126	0	148	891100	35 ROBERTS,B.
73AM	0	357	900600	14 SCHMIDT,M.T.
68MI	4	7	820700	36 HOFFPAUIR,C.
COCR	3	2	930200	56 GOSS,N.
ITCE	39	2	930500	100 GUO,Y.
AMJO	54	8	860800	720 ALBERT,M.K.
CODE	18	11	791100	129 HOJBERG,K.S.
CICE	1	4	880700	48 MCDONOUGH,T.
JOCH	66	7	890700	595 DIEMANN,E.
BYTE	4	2	790200	46 LOOS,T.
RESC	62	7	910700	1787 COTTRELL,G.
80M1	0	17	810500	48 KITSZ,D.
RESC	54	2	830200	177 GOLOSIE,D.A.
BYTE	9	4	840400	32 CIARCIA,S.
ELDE	40	19	920917	81 KUZDRALL,J.A.
POEL	16	4	791000	97 MIMS,F.M.
PHTE	29	4	910400	246 FRANK,M.T.
RAEL	55	10	841000	83 OATS,F.L.
QST	68	10	841000	11 KING,B.
INCO	3	3	850400	24 RHYNER,C.R.
AMJO	57	9	890900	814 QUICK,S.M.
M104	7	4	800700	362 ASTRAHAN,M.A.
AJP	245	6	831200	1061 SHEPHERD,A.P.
ITBE	35	2	880200	93 MAALEJ,N.
LAPR	32	4	830400	80 KOLLMAN,T.M.
AMJO	58	1	900100	82 FORINASH,K.
EDN	34	11	890525	197 FORTE,J.

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EDN	34	20	890928	145 PEASE,R.A.
EDN	32	7	870331	210 DART,A.
LAPR	33	5	840500	82 HYDES,D.J.
ELDE	32	1	840112	436 DEMJANENKO,V.
ITPE	4	2	890400	194 TABISZ,W.A.
CICE	0	16	900800	56 NISLEY,E.
IJPA	27	7	890700	355 RAZDAN,H.
M150	24	0	790000	319 SCHLUB,R.L.
ELEN	56	693	840900	38 BOBROWSKI,G.
MICR	0	76	841000	60 TENNY,R.
RAEL	55	9	840900	71 BUNGARD,N.
73AM	0	326	871100	44 DANZER,P.M.,III
CICE	1	1	880100	4 CIARCIA,S.
RFDE	7	3	840500	74 MCCOLLUM,G.
PE	7	1	900100	84 RAKES,C.D.
BYTE	5	9	800900	282 MORRIS,T.G.,JR.
COCR	1	4	910700	73 MIMS,F.M.,III
QST	66	7	820700	11 HEIL,B.
73AM	0	287	840800	40 CARR,J.J.
73AM	0	281	840200	42 REID,F.S.
LAPR	30	1	810100	32 ROSS,L.
RESC	48	12	771200	1661 GEDANKEN,A.
RAEL	53	1	820100	34 SANTOKE,B.T.
HAEL	5	5	880500	4 K.,D.
ELEN	56	691	840700	28 LEWIS,J.
JONE	10	2	840200	103 LEGENDY,C.R.
MOEL	5	12	881200	43 SWARTZENDRUBER,M.
AUAM	15	2	840500	44 SAUNDERS,J.
ELDE	32	8	840419	208 SIEGEL,A.M.
INJO	58	3	850300	503 HAFETH,B.A.
PE	7	3	900300	75 YOUNG,R.A.
GLAU	2	1	900100	3 ROZENBLIT,B.
RAEL	60	8	890800	47 BECKER,D.
RESC	52	9	810900	1364 RAMANI,K.
LAPR	35	4	860400	88 ROWLAND,A.P.
RAEL	55	8	840800	33 GROSSBLATT,R.
COCH	10	3	860300	187 ROLDAN,E.
HAEL	2	2	840200	68 HORNER,J.
JOPH	21	5	880500	466 GARCIA,J.A.
ETI	7	7	830700	72 PIERREHUMBERT,S
RAEL	54	11	831100	102 SAVAGE,E.
CLEN	14	1	890100	49 COIRO,D.J.
MESC	3	6	920600	581 NEELAMEGAM,P.
RAEL	59	8	880800	12
ELDE	32	19	840920	301 MITCHELL,C.A.
ELEC	50	11	770526	127 WANG,W.H.
MEBI	24	4	860700	399 GOODMAN,A.H.
ITNS	32	1	850200	282 HORELICK,D.
ELDE	27	4	790215	142 HUDOR,A.M.,JR.

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RESC	56	9	850900	1744	BADO,P.
M029	21	2	880200	169	BERGMANN,G.
RESC	59	9	880900	2096	SINGH,B.P.
RESC	52	7	810700	1051	ELLIS,F.M.
JOPH	20	10	871000	1187	HOWELL,S.K.
M121	3	2	850500	143	HORELICK,D.
CQ	40	11	841100	54	STARK,L.W.
MEBI	19	2	810300	250	STROMMER,P.J.
WW	88	1555	820400	87	ABDULLA,W.H.
BYTE	8	11	831100	36	CIARCIA,S.
RAEL	62	12	911200	53	EADY,F.
COCR	1	7	911000	64	LUCAS,M.V.
EDN	31	9	860501	266	GERSHON,S.
CQ	47	3	910300	18	ADAMS,W.M.
CODE	23	2	840200	137	CEREIJO,M.R.
CICE	0	33	930400	14	WETTROTH,J.
DIDE	9	1	790100	14	ZIMET,J.
CICE	1	6	880900	34	DAVIDSON,K.
CTM	0	0	860700	54	GREEN,S.S.
M073	12	4	861100	58	DIERSING,R.J.
CQ	48	4	920400	42	SCHULTZ,J.J.
7ART	0	389	930200	64	LEIKHIM,J.
BYTE	8	5	830500	49	CIARCIA,S.
JOPH	13	1	800100	34	FORNILI,S.L.
HARA	23	1	900100	40	SWINDELL,G.,JR.
M149	45	1	900100	85	HORLICK,G.
QST	66	8	820800	19	WILLIMAN,G.
QST	70	7	860700	14	BLOOM,J.
HAEL	5	1	880100	52	COVINGTON,M.A.
MESC	1	1	900100	17	HOWELL,S.K.
HAEL	5	8	880800	37	
ELLE	21	5	850228	186	GRIFFITHS,H.D.
ITBE	36	4	890400	471	GOOVAERTS,H.G.
RESC	49	6	780600	741	SHARPE,W.N.,JR.
SPCO	16	3	860300	0	TOM
RESC	52	6	810600	933	GENEROSI,R.
RAEL	60	10	891000	65	LANCASTER,D.
EEU	2	7	920500	34	KRIJGSMAN,R.
MEBI	30	2	920300	243	GARD,S.A.
ITIM	34	3	850900	405	BERTOLACCINI,M.
EDN	32	1	870108	234	JACHOWSKI,M.
EDN	27	16	820818	125	CORNELL,J.E.
MIMI	11	9	871100	487	CATALFO,J.M.
JOPH	22	9	890900	702	CANNISTRARO,S.
ELWI	93	1613	870300	278	MICHAELIDES,N.G
EDN	35	13	870528	215	LACANETTE,K.
RESC	60	9	890900	2920	YOUNG,M.A.
EDN	38	10	930513	152	FINNEGAN,T.S.
POEL	13	6	780600	98	MIMS,F.M.

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QST	66	12	821200	50 HESTER,W.
CICE	0	17	901000	43 CIARCIA,S.
PE	10	4	930400	37 CARISTI,A.J.
ELTO	9	4	850400	48 PENFOLD,R.A.
HARA	21	12	881200	75 PIVNICHNY,J.
ITMA	25	3	890500	2624 LE FLOC'H,M.
AMJO	47	4	790400	337 CLAY,F.P.,JR.
JOCH	58	7	810700	594 FUCHS,R.
ELDE	31	12	830609	203 WENNIGER,B.
RESC	49	7	780700	1011 STOKES,H.T.
EWWW	97	1665	910800	683
INJO	57	2	840800	199 NASR,M.E.M.
QST	69	4	850400	18 HABERSTICH,A.
BYTE	6	6	810600	378 DAGGIT,R.
INJO	60	6	860600	767 ABUELMA'ATTI,M.
EWWW	97	1666	910900	755 CIUBOTARU,A.
PE	6	5	890500	49
PE	6	9	890900	47
MEBI	26	3	880500	317 HOK,C.
7ART	0	377	920200	12 GURSKE,J.S.
JOMA	47	3	820500	365 LINDSAY,P.N.T.
ITNS	36	1	890200	462 LO,C.C.
ITBE	29	11	821100	730 SIGRIST,G.V.M.
RESC	63	7	920700	3666 PECHAN,M.J.
RAEL	59	1	880100	56 GIFFORD,J.D.
M111	34	3	920700	291 MILBURN,P.
RCM	27	1	900100	278 AHRENS,T.
COEL	22	2	840200	82 MIMS,F.M.,III
M002	17	190	910600	60 DOSSCHE,F.
RESC	48	7	770700	778 GRIBBLE,R.
HAEL	2	2	840200	64 PATRICK,D.E.
ITIM	35	3	860900	237 TROFIMENKOFF,F.
CODE	19	10	801000	137 MORRIS,D.
EDN	31	22	861030	132 SMALL,C.H.
ETT	12	2	880200	38 PENFOLD,R.
RAEL	59	8	880800	33 POLIMENE,F.
EDN	35	20	901001	132 LOOPER,N.
7ART	0	385	921000	8 FRANCIS,D.
RESC	64	6	930600	1641 SCHOLSKY,K.M.
HAEL	4	8	870800	32 PEARSON,J.L.
ANIN	16	2	870200	295 FONTAINE,J.C.
RAEL	57	1	860100	57 FLACK,J.
CLEN	12	6	871100	453 DOAK,B.K.
RFDE	15	2	920200	69 RYDER,W.
ELDE	26	20	780927	88 HOOTMAN,J.
ELWI	93	1618	870800	817 KEARLEY,S.J.
NIMA	311	1	920101	306 FRISHMAN,D.
MESC	3	2	920200	229 RODRIGUEZ,M.
BYTE	12	2	870200	101 CIARCIA,S.

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MIMI	11	10	871200	549 BROWN,G.
COCR	2	12	921200	48 GOSS,N.
HARA	20	1	870100	74 WILDE,M.
EDN	31	7	860403	199 KHAN,M.U.
RAEL	63	2	920200	77 LANCASTER,D.
ELDE	32	12	840614	319 KRAUS,K.
HARA	14	12	811200	12 STRID,K.-G.
M169	30	7	810700	513 VAN DAM,A.
7ART	0	367	910400	26 WILLIAMS,B.O.
M106	136	2	890200	349 DEAKIN,M.R.
ELDE	37	22	891026	97 GAUEN,K.
CEE	27	4	830400	24 VAGLICA,J.
EWWW	97	1669	911200	1043
RAEL	55	1	840100	41 BERGAN,M.
BYTE	7	12	821200	486 CRAIG,D.L.
JOPH	18	12	851200	1002 REVERBERI,R.
RFDE	15	4	920400	66 SWANSON,H.J.
CODE	18	12	791200	79 BALPH,T.
EDN	29	21	841018	338 HAVER,R.J.
RAEL	52	1	810100	65 CUNNINGHAM,J.E.
ITIM	41	1	920200	3 SHAH,M.J.
73AM	0	284	840500	110 LEAVEY,M.I.
QEX	0	40	850600	4 ROBERTS,F.
CLEN	9	2	840400	159 SERVAIS,S.B.
73AM	0	268	830100	92 MCCARTHY,C.
ELDE	32	5	840308	153 AMIN,P.
RESC	60	9	890900	3074 WALLACE,T.L.
BYTE	4	9	790900	70 HALLGREN,R.C.
73AM	0	355	900400	18 HOUGHTON,C.L.
73AM	0	331	880400	55 MITZ,A.
ELEC	50	21	771013	103 GRANDBOIS,G.
CAL	2	3	840300	190 BRAITHWAITE,A.
ITPE	1	3	860700	181 REDL,R.
APSP	39	5	850900	841 HORLICK,G.
M121	2	3	840800	249 CAPADAY,C.
CLEN	12	1	870200	57 IMPERIALE,C.
ELEN	58	710	860200	34 KOUKOURLIS,C.
MEIN	21	3	870600	195 ADLER,D.
MEBI	19	4	810700	491 GOOVAERTS,H.G.
EDN	31	18	860904	210 LUBS,S.
AUAM	18	3	870700	19 VIESCA,F.G.
MIMI	14	1	900100	47 WYLAND,D.C.
CE	11	4	870400	241 LIM,C.M.
RAEL	62	10	911000	39 WEEDER,T.
ANIN	20	4	920400	265 POLYDOROU,C.K.
RESC	58	3	870300	468 HAGAN,D.
AUAM	22	4	911000	51 FIGUEIREDO,T.
RESC	59	2	880200	342 CHANG,Y.J.
EWWW	96	1655	900900	800 GADRE,D.V.

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EDN	30	24	851031	248 JUNG,W.
ELEC	51	12	780608	118 NORMET,H.
M016	30	29	911010	4179 BENNER,A.F.
7ART	0	382	920700	40 GRAY,M.
ELWI	93	1612	870200	163
EEU	2	3	920100	60 RIGBY,A.
ELEC	53	10	800424	131 BOUTIN,N.
RAEL	56	9	850900	67 HECKT,N.W.
ELEC	53	8	800410	127 KIRBY,S.
ELDE	31	17	830818	230 ANTONIAZZI,P.
RESC	56	5	850500	755 DIBARTOLOMEO,D.
ELEN	56	685	840100	66 RICHARDSON,D.
ELEC	48	20	751002	118 WHITMORE,J.
7ART	0	389	930200	50 MOELL,J.
AUAM	16	2	850300	7 CURCIO,J.J.
EWWW	97	1662	910400	315
JOPH	17	8	840800	647 THOMAS,M.E.
PE	6	11	891100	43 KAYE,G.
COCH	10	3	860300	201 KALCHER,K.
JONE	30	3	891200	219 SHIZGAL,P.
RAEL	63	1	920100	59 BARBARELLO,J.J.
IJMS	74	2	861231	179 SERVAIS,C.
M170	9	12	861200	2661 SINGHAL,R.P.
NIMA	300	3	910201	542 ATIYA,M.
RESC	57	2	860200	273 JANATA,E.
MEBI	22	2	840300	151 THAKOR,N.V.
JONE	30	1	891000	41 BERTRAND,D.
NIMA	292	2	900701	313 VERLUYTEN,L.
AGME	20	0	790000	451 HANSEN,V.
BYTE	9	4	840400	152 HALLGREN,R.C.
MOEL	7	5	900500	44 VONPAWLAK,C.M.
CLEN	14	1	890100	55 SWIFT,C.S.
EDN	34	13	890622	238 MURPHY,M.
JOPH	18	6	850600	499 LANCHESTER,P.C.
NIMA	240	2	851015	357 VAIDYA,P.P.
BYTE	10	2	850200	199 OKAMURA,K.
RFDE	14	10	910900	43 GILBERT,B.
EDN	30	11	850516	169 ANDERSON,D.
7ART	0	377	920200	22 KERR,J.
ITBE	30	1	830100	10 PHILIPS,C.M.
PE	6	12	891200	29 VIESCA,F.G.
M109	33	4	900400	275 EL-RABAIE,S.
MEBI	19	2	810300	247 COGHLAN,B.A.
BYTE	8	2	830200	118 SWANK,J.
MIRF	28	5	900500	131 CHI,C.Y.
RESC	54	4	830400	444 DUCORPS,A.M.
ELDE	33	15	850627	141 DELURIO,T.
BYTE	3	5	780500	97 CIARCIA,S.
ETT	11	10	871000	37 PENFOLD,R.A.

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ITPE	7	1	920100	152 VARGA,L.D.
MOEL	5	11	881100	32 MANGIERI,A.A.
RESC	49	12	781200	1653 ASHWORTH,H.A.
ETI	4	5	800700	58
NIMA	256	1	870415	116 SOBCZYNSKI,C.
ELTE	3	3	800300	104 HARRIS,R.J.
73AM	0	308	860500	66 MCARTHUR,S.B.
RAEL	58	12	871200	49 DUPRE,D.
RESC	50	8	790800	972 ZWEBEN,S.J.
QST	70	10	861000	42 DEMAW,D.
INJO	52	5	820500	463 AL-ANI,M.S.M.
EDN	31	11	860529	171 GRAEME,J.
ITIM	39	5	901000	726 SARKER,U.C.
EDN	36	20	911001	135 FRANCO,D.P.
POEL	17	2	800200	97 MCVEIGH,J.
RESC	56	7	850700	1367 OCIO,M.
QST	67	9	830900	29 NOBLE,F.
CIDE	136	2	890400	57 GREEN,R.J.
M121	2	4	841100	345 HALANG,W.A.
RESC	54	9	830900	1146 WARE,W.R.
NIMA	263	1	880101	180 GOYOT,M.
JONE	29	2	890800	157 KOHN,A.F.
NUIN	180	0	810200	249 BALDINI-CELIO,R.
QST	69	10	851000	14 KRANZ,P.
ELWI	93	1618	870800	805 ORMISTON,G.P.
EWWW	96	1656	901000	898
WW	89	1568	830500	48 GARDNER,N.C.
ITNS	34	1	870200	175 CISNEROS,E.L.
EDN	29	16	840809	189 JACHOWSKI,M.
AUAM	22	4	911000	44 STAGGS,D.E.
CICE	0	25	920200	100 CANTRELL,T.
COCR	2	11	921100	22 EDWARDS,S.
ITPE	7	3	920700	462 LIU,R.
ITNS	33	1	860200	779 IKENO,M.
73AM	0	335	880800	47 PUGH,F.C.
M009	19	6	890600	443 MCEWEN,T.A.J.
NIM	188	0	810900	93 MILLET,P.
CICE	0	20	910400	84 STILTNER,E.
HAEL	5	3	880300	39
MEBI	27	5	890900	543 KORBA,L.W.
EEU	2	4	920200	21 RUFFELL,J.
ELDE	41	9	930503	102 DUNN,J.
ETI	8	3	840300	28 ODDY,C.D.
MEBI	24	5	860900	531 LOVELY,D.F.
RESC	49	4	780400	486 MAGERLEIN,J.H.
RAEL	54	1	830100	92 NICKERSON,J.C.
EDN	35	5	900301	177 LAKSHMINARAYANAN,V
WW	89	1564	830100	46 HOOD,J.L.L.
EDN	33	4	880218	219 DUTRA,J.

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MEBI	24	3	860500	319 WALD,R.W.
NIMA	317	1	920615	161 HARTOUNI,E.P.
POEL	13	2	780200	48 DAGE,D.H.
EDN	35	13	870528	220 RUMMEL,E.W.
EWWW	97	1660	910200	116 MORGAN,A.
CODE	25	4	860215	77 LACZKO,F.
ITNS	29	6	821200	1827 MILDER,F.L.
M076	10	5	901000	54 CHASSAING,R.
ELWI	93	1607	861000	16 HOOD,J.L.L.
ITNS	37	2	900400	412 INABA,S.
EDN	29	22	841031	208 ARTUSI,D.
ELDE	37	5	890309	59 KAMATH,G.
NIMA	225	1	840801	83 GUZIK,Z.
RAEL	60	9	890900	59 MARSTON,R.
ITIM	28	2	790600	146 BEARD,G.E.
RAEL	54	5	830500	69 CARR,J.J.
PHTE	18	1	800100	41 JESSE,K.E.
HARA	15	2	820200	18 NICHOLLS,D.
MEBI	26	4	880700	428 TEODORESCU,H.N.
LAPR	34	9	850900	124 JEWSBURY,R.A.
ELDE	28	22	801025	119 SUMNER,D.
NIMA	305	2	910720	488 CAVESTRO,A.
MIMI	16	10	921000	507 DOWLING,E.M.
POEL	17	3	800300	92 MIMS,F.M.
ELDE	31	16	830804	143 WILLIAMSON,B.
QST	67	4	830400	32 KOHL,D.A.
ETI	8	4	840400	28
JOPH	17	7	840700	617 MOILANEN,M.
ELEC	56	16	830811	135 SCARL,D.
ETI	7	12	831200	20 PUNNETT,M.
ELTO	8	6	840600	68 PENFOLD,R.A.
BYTE	7	11	821100	508 GARRETT,B.
RESC	58	9	870900	1694 JAEGER,H.
RAEL	53	6	820600	49 MCCLELLAN,G.
RFDE	8	13	851200	21 TAM,A.K.
M016	26	17	870901	3552 SAMS,R.L.
ITBE	29	7	820700	549 FEDEL,S.
EWWW	96	1650	900400	304 EGERTON,M.W.,JR.
ELEC	53	12	800522	156 LARNESCU,S.
ELDE	40	6	920319	78 MAJESTIC,R.A.
EEU	2	7	920500	29 BUITING,J.
7ART	0	384	920900	24 MILLER,E.C.
EDN	31	19	860918	285 KHU,A.
EDN	30	14	850622	103 LEE,W.
HARA	21	10	881000	65 PIVNICHNY,J.
EEU	2	5	920300	30 KUHNE,H.
EDN	37	24	921126	163 SIMPSON,C.
ELEC	50	19	770915	132 AHMON,M.
80M2	0	54	840700	142 ALFORD,R.C.

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RAEL	58	12	871200	47 JOZWIAK,T.L.
73AM	0	336	880900	30 EGGERT,D.
QST	69	6	850600	14 SCHWITTEK,E.W.
NIMA	276	1	890315	371 OLIVER,W.P.
NUIN	180	0	810200	603 SANDERS,G.H.
EWWW	96	1651	900500	404 MICHELE,F.
CQ	41	11	851100	13 ADAMS,W.M.
BYTE	4	1	790100	56 CIARCIA,S.
PE	7	8	900800	40 BAILEY,J.R.
PE	9	12	921200	31 GOEBEL,T.
7ART	0	393	930600	34 KITCHENS,M.D.
RAEL	55	4	840400	83 MCLELLAN,G.
73AM	0	291	841200	18 ABRAMS,C.W.
73AM	0	338	881100	22 MCKELLIPS,W.K.
RESC	52	11	811100	1690 DYKSTRA,R.W.
ETI	4	5	800700	64 BULMAN,E.
73AM	0	308	860500	70 ANDRUS,D.
73AM	0	330	880300	96 HAND,K.
JOPH	22	7	890700	455 CHEN,Y.
RAEL	55	9	840900	51 BENZEL,D.M.
MEBI	26	1	880100	17 BORCHERDING,S.H.
73AM	0	342	890300	24 OVERCAST,A.
CICE	0	19	910200	38 REYER,S.E.
ELDE	28	20	800927	36 WILLIAMS,T.
ELEN	59	731	871100	37 PETRIU,E.
MESC	2	4	910400	318 BARIGOU,M.
AGME	20	0	790000	393 SAFFELL,R.A.
ELDE	34	9	860417	183 TRUMP,B.C.
EDN	32	3	870205	139 SIDMAN,S.
RESC	49	11	781100	1600 ASHWORTH,H.A.
M107	31	8	890800	115 CASE,E.
7ART	0	392	930500	68 LORENZEN,I.T.
IJPA	23	12	851200	595 SATYABALA,S.P.
HARA	21	9	880900	18 MEASURES,R.L.
JOCH	68	11	911100	963 WICKLIFF,J.L.
JOPH	16	2	830200	142 SURRIDGE,A.D.
EUJO	7	4	860400	245 BLIGH,P.H.
M009	15	2	850200	103 GALLAHER,E.J.
JOPH	13	11	801100	1150 SHAW,S.-Y.
MEBI	26	2	880300	225 BARBARO,V.
RESC	62	3	910300	678 CHRISTMAN,S.B.
RESC	62	7	910700	1855 MCCREDIE,G.M.
ELEC	53	1	800103	176 MARTINEZ,P.
NIMA	274	3	890115	536 YOSHIMURA,A.
ITMA	25	5	890900	3411 RABINOVICI,R.
HAEL	5	2	880200	43 ALLEN,S.
73AM	0	283	840400	14 BRYAN,C.R.,III
QST	70	3	860300	32 HILLIARD,D.L.
SKTE	56	3	780900	201 SWENSON,G.W.,JR

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RAEL	55	6	840600	90 GROSSBLATT,R.
ELWI	92	1604	860600	49 WYRILL,J.
QST	61	6	770600	20 HALL,J.
PHED	26	2	910300	131 MORTON,A.N.
ELWI	92	1603	860500	56 LOUGHLIN,T.
ELEN	58	717	860900	34 DABROWSKI,J.
RESC	54	5	830500	552 NORRIS,C.B.
POEL	19	11	811100	77 GEIVETT,R.C.
INJO	58	6	850600	997 NAYAR,C.V.
BYTE	13	1	880100	271 CIARCIA,S.
MICO	7	1	830100	50 FRANKE,J.M.
NUIN	174	0	800800	427 AMBATS,I.
EDN	37	3	920203	108 JACKSON,G.S.
HARA	20	1	870100	81 SHEFFIELD,A.G.
QST	66	3	820300	53 HOLLAND,C.
RFDE	12	2	890200	61 PURUSHOTHAM,A.
MIRF	26	4	870400	81 MCNAB,K.
QEX	0	37	850300	2 JANSSON,D.
HARA	23	2	900200	22 PIVNICHNY,J.
ELWI	90	1581	840600	52 TIBBETTS,K.P.
EDN	37	8	920409	146 STITT,R.M.
JMET	8	1	840100	24 TAYLER,D.I.
RESC	54	5	830500	544 PRIMAK,W.
73AM	0	286	840700	36 FINBERG,S.
QST	71	9	870900	25 DEMAW,D.
HARA	22	6	890600	40 PIVNICHNY,J.
ETI	7	2	830200	65 KEIGHLEY,D.
QST	73	1	890100	31 DEMAW,D.
JOPH	20	4	870400	399 ROBINSON,F.N.H.
QST	72	9	880900	42 AUDISS,G.
EWWW	97	1666	910900	771
RESC	51	8	800800	1095 ERICKSON,L.E.
ANCH	59	20	871015	2527 REMPEL,D.L.
MESC	2	1	910100	19 ANSON,M.
EDN	30	6	850321	181 PIPPENGER,D.
ITIM	36	4	871200	950 PETRIU,E.M.
M064	11	2	890300	130 RYAN,T.P.
M175	13	3	910500	76 PILOT,S.
QST	70	2	860200	42 BONAGUIDE,G.
ITPE	2	4	871000	282 LAWHITE,L.E.
RCM	25	6	880600	234 MORIARTY,F.
QST	72	7	880700	72 ATKINS,B.
ANCH	54	8	820700	1313 KALLOS,G.J.
73AM	0	256	820100	154 LEAVEY,M.I.
PE	7	2	900200	86 RAKES,C.D.
NIMA	286	1	900101	1 HARTMANN,W.
NIMA	279	1	890701	180 ATIYA,M.
QST	67	10	831000	41 COOPER,W.
RAEL	54	4	830400	146 FERNANDES,J.

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EDN	35	25	901206	76	WRIGHT,M.
ITCE	36	1	900200	23	BURKERT,M.
MESC	1	11	901100	1247	PUVVADA,R.
EWWW	97	1678	920900	785	
HARA	23	4	900400	20	BERTINI,P.J.
RAEL	51	9	800900	86	FRIEDMAN,H.
RAEL	53	8	820800	43	BERNARD,J.
CQ	40	11	841100	47	MCCOY,L.
AJP	244	5	830500	722	KIEL,J.W.
QST	69	5	850500	23	DEMAW,D.
EDN	32	15	870723	309	HILL,N.M.
SOMA	1	3	861000	51	WALKER,E.C.
ANCH	51	7	790600	790	LAZAROU,L.A.
EDN	36	23	911107	267	DOWNNS,R.
CICE	0	35	930600	14	FOLTZER,L.
ITBE	38	11	911100	1154	METTING,A.C.
ELDE	37	2	890126	130	JIMENEZ-GARCIA,R.
EDN	34	22	891026	211	WONG,J.
QST	69	4	850400	28	DEMAW,D.
ITNS	34	1	870200	344	ERIKSSON,L.
RAEL	60	2	890200	51	KREUTER,R.A.
EDN	28	6	830317	91	STRATFORD,J.M.
ELWI	95	1642	890800	826	LIDGEY,J.
M172	38	4	910400	758	HARRIS,K.W.
MICR	0	61	830600	82	BRYSON,D.
AUAM	17	1	860200	7	GALO,G.A.
ELDE	37	22	891026	111	STEELE,J.
7ART	0	381	920600	26	YOUNG,G.
73AM	0	333	880600	74	DE JONGH,R.R.
HARA	22	11	891100	33	FOOT,N.J.
ELEN	58	714	860600	30	KRAUS,K.
ITPE	4	4	891000	450	TABISZ,W.A.
ELDE	38	23	901213	77	SPEAROW,C.
AUAM	22	1	910200	55	FLEMMING,L.S.
73AM	0	298	850700	79	LEAVEY,M.I.
73AM	0	299	850800	72	LEAVEY,M.I.
JOAU	30	7	820700	512	RICE,C.W.
RAEL	55	2	840200	98	SCOTT,R.F.
BYTE	11	3	860300	113	CIARCIA,S.
ITPE	3	2	880400	147	NINOMIYA,T.
EDN	37	9	920423	182	MAJESTIC,R.
HAEL	2	5	850500	79	BAKER,W.
CICE	0	24	911200	75	BACHIOCHI,J.
RAEL	62	10	911000	60	KREUTER,R.A.
COCR	2	6	920600	51	STEPHENS,J.
EWWW	98	1681	921200	1013	VANDANA,J.
RAEL	61	7	900700	62	LANCASTER,D.
EWWW	97	1665	910800	676	HOOD,J.L.
EDN	36	10	910509	178	WILLIAMS,J.

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EDN	37	1	920102	105 WILLIAMS,J.
RESC	60	12	891200	3802 SPEIGHT,C.S.
EDN	30	12	850530	239 WILLIAMS,J.
MECO	0	140	900400	130 HUTCHEON,I.
ELDE	38	14	900726	70 HUFFMAN,B.
EDN	36	9	910425	179 HUFFMAN,B.
EDN	36	23	911107	211 WILLIAMS,J.
EDN	34	9	890427	219 JUNG,W.
RESC	57	11	861100	2880 KOSTAMOVARA,J.
ELEN	56	686	840200	18
EDN	34	8	890413	209 HUFFMAN,B.
EDN	35	23	901108	229 WILLIAMS,J.
QST	66	8	820800	14 STROUD,R.
EDN	30	11	850516	153 WILLIAMS,J.
EDN	30	14	850620	115 WILLIAMS,J.
NIMA	290	1	900501	76 AKRAWY,M.
M182	35	0	851000	243 NEWMAN,S.M.
RFDE	15	5	920500	80 PATRON,R.
RESC	52	11	811100	1664 BIRGE,R.R.
ELDE	38	23	901213	105 FOGARTY,S.,JR.
HARA	22	7	890700	68 LOMBARDI,B.
MADE	56	11	840524	89
7ART	0	370	910700	9 HENKOSKI,M.
RESC	62	12	911200	3108 SUGII,M.
ELEN	57	706	851000	40 WILSON,A.J.
ANCH	56	8	840700	1502 CHANG,L.-H.
QST	73	2	890200	42 MEASURES,R.L.
ETI	8	2	840200	68 VALENTINE,M.
RFDE	13	5	900500	41 KORN,D.
RAEL	56	4	850400	43 COTA,R.
JOPH	14	7	810700	805 LANCHESTER,P.C.
RESC	52	7	810700	1092 VOLPICELLI,R.
PE	9	12	921200	49
POEL	16	6	791200	51 WILKINS,R.
ELWI	93	1602	860400	70 KIRWAN,R.
EDN	32	2	870122	167 O'TOOLE,T.
EVEL	15	11	861100	600 PENFOLD,R.A.
ELHA	0	0	861000	51
ELEC	50	24	771124	128 BOYD,V.
EDN	30	13	850613	187 ESCOVITZ,W.
MOEL	8	1	910100	12 MEYER,M.
EEU	2	2	911200	79 NIGIM,K.A.
73AM	0	266	821100	102 CAMPBELL,J.W.
HARA	19	11	861100	38 DRENTEA,C.
NIMA	272	1	881000	232 JOHNSON,W.J.D.
RAEL	59	11	881100	14 SLAGER,J.
COCR	2	3	920300	54 MCKELLIPS,W.K.
ELWI	91	1597	851100	40 GREAVES,D.J.
M064	8	2	860400	137 DONALDSON,P.E.K.

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ITIA	26	3	900500	441 TZOU,Y.-Y.
EDN	31	22	861030	208 SARNS,S.
BYTE	5	8	800800	210 WIERENGA,T.
ELDE	28	5	800301	67 MOULTON,R.K.
JOPH	13	7	800700	771 QUENISSET,J.M.
HARA	20	9	870900	82 ESTES,S.
HARA	21	11	881100	33 PEPPER,J.
QEX	0	40	850600	6 BALL,R.
EDN	29	4	840223	316 ANDERSON,T.
ETI	7	3	830300	25 HOLMES,R.
HAEL	3	1	860100	65
HARA	23	1	900100	77 CARR,J.J.
CQ	38	12	821200	110 INGRAM,D.
ETT	13	11	891100	34 BOWES,C.
NIMA	287	3	900215	532 BIALKOWSKI,J.
POEL	16	1	790700	55 BRIGGS,R.
CQ	40	10	841000	13 JACKSON,A.H.
ITBE	32	1	850100	89 BASANO,L.
CICE	0	12	891200	49 WASHINGTON,W.,JR.
PCW	6	1	830100	168 DIXON,C.G.
80M2	0	45	831000	126 CAMERON,J.N.
JEPT	10	4	830400	159 BROWN,P.B.
JOAU	38	9	900900	619 RODGERS,R.L.
MIMI	13	5	890600	337 JAY,C.
JOPH	20	6	870600	691 LACZKO,G.
ELDE	28	4	800215	91 DRORI,J.
ELEN	57	700	850400	47 SOHI,M.S.
RAEL	63	2	920200	69 MARSTON,R.
COCH	13	1	890100	75 LEUNG,D.K.C.
ITED	32	2	890500	100 PADMANABHAN,K.
CQ	38	10	821000	74 INGRAM,D.
GLAU	3	1	910100	12 BARBOUR,E.A.
ELEC	49	2	760122	113 MOORE,R.C.
RAEL	54	4	830400	132 BURHANS,R.W.
HAEL	3	6	861100	68 PATRICK,D.E.
80M2	0	72	860100	40 TAM,T.
EEU	2	8	920600	27 REELSEN,H.
RAEL	59	8	880800	83 FRICKEY,S.J.
RESC	60	11	891100	3560 CORCORAN,S.F.
QST	65	11	811100	46 HORN,H.
HARA	22	2	890200	94 BERTINI,P.J.
BYTE	5	2	800200	116 ALPERT,S.A.
ANCH	54	2	820200	332 HARVAN,D.J.
RESC	61	10	901000	2946 ZURRO,B.
ELDE	30	9	820429	13 BINDER,R.F.
REW	0	0	841000	74
ELEC	50	17	770818	114 STERLING,T.L.
ELDE	32	2	840126	141 HERMAN,M.
ELTO	11	2	870200	41 ORR,T.

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RESC	55	7	840700	1168	PATHAK,L.
ELHA	0	0	861000	24	
ELTO	8	6	840600	30	WILLMOTT,K.
ITIM	37	1	880300	62	SENGUPTA,R.N.
ELWI	90	1584	841000	33	NEWELL,J.C.W.
73AM	0	329	880200	32	LEDLOW,L.,JR.
PE	6	5	890500	48	LISLE,L.
BYTE	2	8	770800	114	BURNS,R.R.
DIDE	9	1	790100	68	RAO,M.V.S.
COCR	2	1	920100	38	REDMAN,L.W.
QST	67	9	830900	19	RAND,P.S.
ELEC	50	7	770331	105	BROCKMAN,D.M.
INJO	52	3	820300	283	VELAYUDHAN,C.
RAEL	54	3	830300	78	DELORIE,D.H.,JR.
HAEL	5	10	881000	96	RAKES,C.D.
ITNS	33	1	860200	703	MCDOWELL,W.P.
EDN	27	17	820901	254	CROOK,G.M.
QST	66	3	820300	11	SWAIL,J.C.
ELEC	51	18	780831	127	RAO,N.B.
HAEL	2	1	840100	43	FRUITMAN,E.
ELEC	55	14	820714	168	CARSON,C.
QST	66	3	820300	35	GEBUHR,J.M.
POEL	10	2	760800	48	HUFFNAGLE,N.P.
POEL	11	3	770300	96	MIMS,F.M.
ELWI	93	1614	870400	454	FROST,B.J.
BYTE	7	1	820100	160	BARDEN,W.,JR.
BYTE	6	3	810300	36	CIARCIA,S.
RAEL	58	11	871100	101	STARK,P.
IEEA	137	1	900100	23	REHMAN,M.
AUAM	22	4	911000	26	BALL,S.R.
ELEC	50	13	770623	136	KLEIN,T.
68MI	7	8	850800	49	ADAMS,C.
MIAP	7	2	840200	159	VERMA,H.K.
RESC	53	6	820600	909	ERDMAN,P.W.
73AM	0	341	890200	54	CASCINO,G.M.
RESC	51	3	800300	394	YOSHINARI,O.
APSP	36	6	821100	617	WALTERS,J.P.
BYTE	2	11	771100	10	CIARCIA,S.
WW	88	1555	820400	85	GIROLAMI,G.
PHED	26	2	910300	127	WYNN,V.T.
ELWI	91	1592	850600	29	WILKE,J.
HARA	15	4	820400	66	FOOT,N.J.
ELEC	49	7	760401	103	FICHTENBAUM,M.L.
ETT	13	5	890500	18	PENFOLD,R.
PE	6	9	890900	22	WELS,B.G.
ELEN	56	694	841000	38	DAVIES,M.
ELTO	8	8	840800	58	HOLMES,R.
EDN	34	4	890216	158	BAASCH,P.
7ART	0	376	920100	38	ERDMAN,A.C.

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RESC	53	11	821100	1677 TAKAGI,Y.
ITIM	31	2	820600	137 WALLINGFORD,E.E
MIAP	10	2	870400	137 ABOU-RABIA,O.
M169	29	2	800200	202 KAMEYAMA,M.
ANCH	61	18	890915	2102 JAYAWEERA,P.
RESC	49	3	780300	339 PRESBY,H.M.
PE	10	2	930200	71 RAKES,C.D.
CODI	2	12	851200	6 FOSTER,G.
HARA	20	11	871100	33 MORK,B.J.
RESC	51	6	800600	735 HOEGGER,B.A.
ELDE	30	24	821125	179 SCHAEFER,D.B.,JR.
80M1	0	17	810500	176 SMITH,B.D.
73AM	0	343	890400	22 MCKELLIPS,W.K.
EEU	2	9	920700	52 RUITERS,J.
M109	32	8	890800	137 HUGHES,R.S.
HAEL	5	11	881100	37
ELNO	63	11	921100	61 MARSTON,R.M.
EVEL	16	1	870100	59 GOODBOURN,R.R.
M119	15	5	860500	62 AMOS,R.
ELTO	11	5	870500	24 GOODBOURN,R.R.
AUAM	15	1	840300	39 NITIKMAN,S.
BYTE	5	7	800700	174 HUBIN,W.N.
QST	61	5	770500	48 WHITTAKER,T.M.
APSP	36	5	820900	553 SUSAKI,H.
EWWW	98	1681	921200	1011 GOUGH,W.
RAEL	52	8	810800	70 SAVAGE,E.
POEL	7	2	750200	76 GARNER,L.
PE	9	5	920500	38 SCHMIEDEBERG,D.
73AM	0	281	840200	14 FAIT,G.L.
MIRF	22	12	831100	128
WW	89	1569	830600	37 LYNES,H.S.
POEL	10	6	761200	86 PRENSKY,S.D.
PE	9	3	920300	53
QST	65	9	810900	34 LUETZOW,R.H.
AUAM	19	4	881000	46 ADELSBACH,J.
73AM	0	280	840100	96 BARRIGAR,K.
HAEL	4	6	870600	69 CUNKELMAN,J.
JEPT	7	2	810100	4 HARRIS,D.P.
73AM	0	280	840100	46 CEBIK,L.B.
WW	89	1565	830200	64 MACARI,L.
73AM	0	268	830100	24 MORRIS,M.G.
PE	7	4	900400	90 RAKES,C.D.
RAEL	59	1	880100	95 STARK,P.A.
COCR	1	9	911200	67 MIMS,F.M.,III
RAEL	58	12	871200	15
ELDE	29	18	810903	175 BLASCO,R.W.
QST	70	9	860900	51 SCHETGEN,B.
KIMI	6	1	820100	97 WOLF,M.A.
BYTE	11	6	860600	199 KUBICKY,J.

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RAEL	58	11	871100	41	GROSSBLATT,R.
POEL	19	7	810700	7	WARREN,C.
CICE	0	23	911000	16	KRESSBACH,W.J.
RAEL	60	6	890600	13	LADOW,K.
RESC	52	8	810800	1199	VAN HOEK,A.
CQ	48	3	920300	88	ORR,B.
ELDE	28	9	800426	211	MCNAB,W.F.
MIMI	13	6	890700	396	JONES,H.
LAMI	8	3	890300	88	SPARLING,S.
ELEN	64	785	920500	32	SHKARUPIN,V.
CQ	39	7	830700	50	MCCOY,L.
APSP	42	2	880200	272	HIEFTJE,G.M.
INJO	56	3	840300	359	NAQSHBENDI,S.F.H.
ELDE	32	13	840628	294	ELLIS,M.
POEL	19	11	811100	41	PRENTISS,S.
INJO	65	6	881200	1153	GUO,W.-W.
MADE	55	18	830811	98	SCHIPPER,T.H.
ITIE	31	3	840800	209	GEORGOPOULOS,C.J.
ANCH	51	12	791000	1981	CODDING,E.G.
POEL	19	5	810500	96	MIMS,F.M.
ELEC	55	7	820407	153	BURKE,M.
ETI	6	5	820500	71	
ELWI	92	1610	861200	69	CLARKE,D.E.A.
POEL	16	5	791100	75	PARRON,N.
ELTO	8	10	841000	32	POWER,J.
EDN	33	18	880901	137	SCHAEFER,K.
QEX	0	50	860400	9	DUNCAN,C.
M030	33	7	880700	815	WOLDESELASSIE,T.
EDN	31	7	860403	199	ELLIS,M.
RAEL	54	7	830700	59	YOUNG,F.L.,SR.
ANCH	50	13	781100	1941	EDSTROM,R.D.
BYTE	11	2	860200	84	CIARCIA,S.A.
M060	8	3	880300	145	FINCK,R.
RFDE	13	13	901200	47	LITTLE,A.
COCR	2	3	920300	78	DESPOSITO,J.
COCR	3	5	930500	76	GOSS,N.
ELDE	35	20	870903	123	SCHAFFER,G.
ELWI	90	1586	841200	46	LAMBLEY,R.
M035	3	1	830300	34	HO,C.F.
HARA	14	9	810900	26	FOOT,N.J.
RESC	62	3	910300	825	SHIE,J.-S.
POEL	12	2	770800	71	GARNER,L.
RAEL	57	6	860600	58	MARSTON,R.
NIMA	270	2	880715	334	BRAUNSCHWEIG,W.
PHED	27	3	920500	166	DUCOTE,P.
MEBI	19	6	811100	686	MACELLARI,V.
MIAP	11	2	880400	145	HAQUE,T.
EDN	36	18	910902	162	RADHAKRISHNA,K.
ELLE	25	18	890831	1259	ZHOU,J.Z.

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JOPH	14	2	810200	145 SABAH,N.H.
MEBI	20	1	820100	121 TRINDER,J.R.
CQ	39	5	830500	98 KRETZMAN,B.H.
PE	7	9	900900	37 BRIGHT,L.
JOPH	18	10	851000	824 LOUDE,J.F.
80M1	0	27	820300	338 KITSZ,D.
RESC	60	5	890500	831 XENIKOS,D.G.
AGEN	59	9	780900	22 JOHNSON,A.T.
POEL	17	2	800200	98 MIMS,F.M.
ETT	12	2	880200	49 CHAPPELL,P.
NIM	189	0	811000	621 BARICHELLO,G.
RAEL	61	2	900200	31 LASHANSKY,M.A.
BYTE	6	3	810300	90 AHRENS,T.
ELEN	57	700	850400	47 WRIGHT,W.R.
AMJO	51	8	830800	763 RAFERT,J.B.
ELTO	8	8	840800	22 SCOTT,J.
ELWI	93	1618	870800	829
RAEL	54	4	830400	43 SOLUK,J.
ELEN	60	744	881200	21 O'DELL,T.H.
BYTE	3	1	780100	37 CIARCIA,S.
ITIM	30	3	810900	230 PAL,K.
EEU	2	2	911200	59 RUFFELL,J.
EEU	2	6	920400	36 PIJPERS,L.
EEU	2	9	920700	73 BODEWES,J.
MESC	3	10	921000	983 SAXENA,S.C.
ELEN	59	730	871000	67 AUSTIN,W.M.
RFDE	8	5	850500	35 ZUBIEL,S.
ELDE	36	25	881110	95 HOLLEY,M.
ELEC	56	6	830324	127 ARGINTARU,J.
ESD	19	11	891100	65 MILLER,A.R.
CEE	32	11	881000	48
ELWI	95	1641	890700	674
POEL	19	10	811000	33 MCLELLAN,G.
BYTE	3	2	780200	6 CIARCIA,S.
ELNO	63	10	921000	35 WRAY,D.
ELDE	36	21	880922	48 TILL,J.A.
7ART	0	371	910800	8 FEENEY,F.K.
M179	27	9	910900	17 MACAULEY,J.
ITNS	35	1	880200	226 BINKLEY,D.M.
EWWW	97	1664	910600	515 WILES,I.M.
EDN	29	20	841004	165 THOMSEN,G.
BIIN	23	2	890300	115 TEUBER,S.
ITIM	34	3	850900	470 AHMAD,W.
ELEC	50	23	771110	103 GOSZCZYNSKI,T.
BYTE	5	7	800700	116 HALLGREN,R.C.
NIM	187	0	810800	435 KLOPF,P.
RAFU	0	12	920700	3 CROWDER,D.
73AM	0	346	890700	37 FLINT,J.R.
ITIM	36	1	870300	115 MARTINEZ,J.

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HAEL	5	7	880700	34 ALLEN,S.
ELDE	31	9	830428	228 KITCHIN,C.
JOCH	60	7	830700	570 TITMAN,W.E.
ELDE	41	7	930401	56 DOUGLAS,P.N.
ITIE	32	4	851100	405 AHN,J.
POEL	16	4	791000	62 HUNT,J.R.
ELEN	56	686	840200	32 CATTO,C.J.D.
M002	17	190	910600	27 GODON,P.
ITIM	29	1	800300	7 SILVERMAN,R.W.
EWWW	97	1669	911200	1044
EEU	2	4	920200	30 GIFFARD,T.
ELNO	64	3	930300	71 HAUSMAN,P.
HAEL	4	8	870800	47 SCHOPP,W.
EDN	31	12	860612	216 BRYANT,J.M.
RESC	48	3	770300	327 DRATLER,J.,JR.
EDN	36	22	911024	157 WILLIAMS,J.
RESC	64	6	930600	1554 ALCALA,J.R.
AUDI	62	1	780100	54 KITCHIN,C.
MOEL	7	2	900200	26 SCHOPP,W.W.
RAEL	61	9	900900	33 WEEDER,T.J.
RAEL	63	3	920300	33 SIMONTON,J.
AMJO	48	11	801100	989 ANDERSON,G.A.
NIMA	314	1	920401	185 DIEULOT,J.M.
MIPR	2	3	780600	119 SMITH,D.
JOMA	69	2	860900	371 QUINE,R.W.
ITPD	5	4	901100	1705 BENMOUYAL,G.
RAEL	62	9	910900	60 COOPER,D.B.
ELNO	64	5	930500	45 CARTER,J.E.
RESC	58	3	870300	393 SON,J.-Y.
JOPH	14	10	811000	1135 SHAW,S.-Y.
ITBE	33	4	860400	386 LEUNG,A.M.
ELEN	55	674	830200	27 WOLFENDEN,B.S.
MEBI	22	6	841100	607 BARTZ,J.C.
M002	16	182	901000	35 REELSEN,H.
RESC	64	5	930500	1175 BELANGER,R.
HARA	14	7	810700	68 PAGEL,P.K.
EDN	33	25	881208	300 GRAY,N.C.
WW	88	1555	820400	36 WHITE,J.D.H.
EDN	31	11	860529	159 RAHIM,Z.
RAEL	61	3	900300	39 JOHNSON,L.D.
RAEL	62	12	911200	47 KEIDEL,J.F.
ELNO	64	2	930200	41 SZABO,S.
ELDE	33	11	850516	211 GOODSPEED,S.
73AM	0	327	871200	64 BAUMAN,L.,SR.
ELDE	34	2	860123	115 LERACH,L.
QST	61	9	770900	11 BARTLETT,J.
POEL	18	2	800800	87 KRAENGEL,W.
POEL	12	5	771100	43 ROBERTS,J.
HARA	21	11	881100	10 PARROTT,B.

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POEL	14	5	781100	83 BOSTWICK,S.
RAEL	58	5	870500	45 CLAWSON,J.
TRIN	11	3	890700	120 COATES,R.
RAEL	61	3	900300	58 LANCASTER,D.
73AM	0	267	821200	116 MACLEAN,A.
JOMA	65	1	851015	149 DYKSTRA,R.W.
ELTO	11	4	870400	10 HANCOCK,N.
QST	72	9	880900	46 ZAVREL,R.J.,JR.
LAPR	30	7	810700	705 GILLINGS,E.
RAEL	61	9	900900	75 LANCASTER,D.
73AM	0	280	840100	28 KOLLAR,C.A.
RFDE	14	2	910200	98 XYDIS,T.G.
RFDE	16	2	930200	29 KELLY,B.
RESC	58	5	870500	735 DE JAGER,P.A.
JONE	10	3	840300	247 OBARA,S.
EDN	31	4	860220	241 BOES,F.
ELWI	93	1612	870200	227 YEWEN,J.D.
RFDE	12	11	891100	76 MATHEWS,B.
MEBI	24	4	860700	442 SMIT,H.W.
JOMA	88	2	900615	388 DYKSTRA,R.W.
M196	2	1	930400	28 HORVATH,J.
ITNS	36	1	890200	122 BRAND,C.
NUIN	146	0	771000	335 KETEL,T.J.
JONE	37	3	910500	215 BELL,W.J.
RAEL	55	11	841100	86 MCCABE,R.
JOPH	17	5	840500	371 KLUWE,A.
HARA	20	7	870700	67 MOELL,J.
WW	89	1569	830600	55 WOODROFFE,B.
EDN	37	2	920120	136 WYATT,M.
ITED	34	4	911100	317 ITTYCHERIAH,A.P.
ELDE	37	13	890622	96 RAHIM,Z.
ELEN	61	749	890500	49 POWELL,G.
EWWW	96	1651	900500	419
ELWI	90	1578	840300	40
JOPH	21	7	880700	667 THEOPHANOUS,N.
DIDE	11	11	811100	88 DURHAM,S.
EWWW	95	1646	891200	1172 GINGELL,J.
ITIM	33	4	841200	301 AYLOR,J.H.
MEBI	20	1	820100	58 HANCOX,A.J.
IEEA	135	7	880900	487 LIANG,X.
M058	0	0	870000	17 BLANC,J.
JOPH	19	2	860200	149 BAKER,H.J.
ELTO	8	11	841100	55 JONES,C.K.
RESC	56	7	850700	1335 DE PALMA,M.
RESC	61	1	900100	36 WATANABE,T.
HARA	15	3	820300	67 GOODGER,B.E.G.
ELDE	31	17	830818	176 LONGFELLOW,D.A.
QST	73	1	890100	37 FULTON,W.S.
HARA	14	12	811200	20 CUTSOGEOGE,G.

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INJO	56	6	840600	763 BOZIC,S.M.
ELDE	39	7	910411	102 SALVATI,M.J.
EWWW	96	1650	900400	343 BROWN,I.
ANCH	50	2	780200	298 VIDRINE,D.W.
EWWW	97	1673	920400	317 EDWARDS,J.A.H.
WW	87	1551	811200	76 CHRISTIESON,M.L.
ANCH	59	2	870115	382 JAHN,K.R.
SOMA	1	2	860700	38 HULL,M.L.
EDN	35	25	901206	222 SIEGEL,B.L.
ELTO	9	6	850600	13 HOOD,J.L.
73AM	0	258	820300	76 MASSA,A.J.
EDN	38	6	930318	237 DE VERA,E.G.V.
HAEL	4	6	870600	33 DAMM,R.E.
ELTO	9	10	851000	54 HOOD,J.L.
POEL	14	3	780900	92 MIMS,F.M.
QST	65	12	811200	45 HORN,G.W.
EDN	30	23	851017	167 VAN OCHTEN,M.
JOMA	37	3	800215	465 JEFFREY,K.R.
73AM	0	359	900800	68 MOELL,J.
MOEL	8	2	910200	24 HITT,E.T.,III
MIMI	15	2	910300	113 GANESAN,S.
ELDE	28	21	801011	214 KAUFMAN,A.B.
INJO	70	4	910400	713 SIDDIQI,M.A.
CICE	0	28	920800	34 AVRITCH,S.
RESC	52	4	810400	572 KINOSHITA,S.
ITIM	30	2	810600	165 KUMAR,U.
7ART	0	374	911100	44 BEDNAR,J.
ELNO	63	8	920800	14 MARCACHEN,R.
RAEL	53	8	820800	36 MILES,J.
80M2	0	80	860900	52 HOLTZMANN,J.
ELTO	11	2	870200	52
ELTO	8	6	840600	37
BYTE	7	9	820900	398 BARDEN,W.,JR.
73AM	0	286	840700	24 PATTERSON,G.W.
QST	61	3	770300	21 DEMAW,D.
POEL	20	12	821200	74 STAMILE,W.
ELTO	8	6	840600	39
ELTO	10	5	860500	50 WALKER,N.
RAEL	57	8	860800	83 GROSSBLATT,R.
HAEL	5	3	880300	46 CAMPIONE,A.P.
ELMU	4	4	880400	80 HENRY,T.
RFDE	7	2	840300	68 DENNISON,R.
EDN	34	19	890914	81 WRIGHT,M.
QEX	0	36	850200	3 MAYER,E.
RAEL	60	12	891200	42 SHEETS,W.
M066	53	635	801100	1090 WILLIAMS,R.J.
PE	8	10	911000	82 RAKES,C.D.
CQ	40	3	840200	22 CROCKETT,D.J.
M009	13	3	830300	151 CARRILLO,J.F.D.

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RESC	57	3	860300	473 SHUBHA,V.
M076	9	5	891000	10 PATNAIK,L.M.
RESC	50	8	790800	1023 TSAO,J.Y.
EWWW	99	1689	930800	662 ECCLES,M.
QST	65	8	810800	30 LEWALLEN,R.
HARA	19	11	861100	55 KLINERT,C.
CODI	2	5	850500	11 VISTAIN,K.
ELDE	36	25	881110	105 GONZALEZ,S.R.
EWWW	97	1672	920300	235 SCHIRONE,L.
QST	69	8	850800	35 DEMAW,D.
NUIN	140	0	770100	237 REUTER,J.P.
RAEL	63	1	920100	12 ALFORD,D.,JR.
MESC	3	12	921200	1146 KURIAN,J.
ELDE	32	24	841129	281 SIEGEL,A.M.
ELEN	56	690	840600	55 EIDSON,S.
INJO	54	3	830300	417 AHMED,M.T.
73AM	0	352	900100	26 FERGUS,D.
RAEL	57	11	861100	41 GIFFORD,J.D.
EDN	34	9	890427	221 AHMADIAN,M.
ELDE	37	1	890112	132 SIMOPOULOS,A.
ELLE	25	2	890119	139 HASLETT,J.W.
7ART	0	397	931000	10 VREELAND,R.W.
ELEC	49	13	760624	98 KOOI,M.V.
ELDE	31	12	830609	171 JENKINS,A.
RFDE	6	1	830100	26 BELCHER,D.K.
NIMA	321	1	920915	348 CACCIA,M.
EDN	32	6	870318	161 KHURANA,A.S.
73AM	0	273	830600	50 DANZER,P.
POEL	18	4	801000	8 COX,J.
M179	27	9	910900	32
NIMA	277	2	890501	347 ALLEN,P.
IEEA	138	6	911100	329 HU,D.
HARA	11	1	780100	52 HARRISON,R.
AUAM	20	1	890200	21 VIKAN,R.
73AM	0	359	900800	18 LYSTER,C.
CQ	39	11	831100	44 HART,B.
73AM	0	343	890400	34 THOMAS,R.
AUAM	15	5	841000	54 POCHOP,L.C.
RAFU	0	1	910100	4 WILLIAMS,B.O.
M009	13	2	830200	141 MOLLER,D.
HARA	11	1	780100	90 FOULKES,C.H.
COEL	21	5	830500	78 MEYERLE,G.
HARA	15	2	820200	28 KLINMAN,R.
QST	70	12	861200	28 MURPHY,G.
EDN	34	20	890928	165 STITT,R.M.
RAFU	0	4	911100	6 PERRY,C.
QST	61	5	770500	27 GERVENACK,R.W.
QST	62	5	780500	21 BARTLETT,J.
POEL	20	3	820300	101

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RAEL	49	6	780600	78 WEINSTEIN,M.B.
ELMU	3	8	870800	24 SCHMIDT,P.
HARA	15	5	820500	24 SILBERSTEIN,R.
M047	4	5	900900	526 BLACKBURN,J.A.
ELNO	63	9	920900	95 GROSSBLATT,R.
RESC	63	10	921000	5072 BELL,P.M.
ELTO	10	10	861000	47 TOOLEY,M.
POEL	13	2	780200	74 SOKOL,D.
M050	26	1	880100	28 MICHAEL,D.A.
CICE	0	33	930400	68 DYBOWSKI,J.
73AM	0	267	821200	139 MOLBY,R.J.
PE	9	6	920600	31 CARR,J.J.
POEL	1	4	770400	101 PRENSKY,S.D.
ELEN	55	676	830400	25 HOLUB,I.
ELEC	51	6	780316	123 TRAVIS,S.
AUDI	61	2	770200	39 LEACH,W.M.
7ART	0	368	910500	11 BRUMBAUGH,J.F.
PE	9	6	920600	49
QST	66	8	820800	24 O'HARA,T.
RAEL	52	12	811200	12 FLEMING,J.
COEL	21	5	830500	82 PENCE,S.
EDN	28	1	830106	44 FRISCH,A.
LAMI	6	1	870100	16 MALCOLME-LAWES,D.J
HARA	15	4	820400	76 MARRINER,E.
LAMI	8	2	890200	44 MALCOLME-LAWES,D.J
RESC	49	2	780200	273 KOPP,M.K.
NIM	216	3	831101	405 CLELAND,W.E.
HARA	14	7	810700	68 TRUE,J.R.
WW	87	1551	811200	71 FERGUSON,J.D.
ELWI	95	1641	890700	706
RAEL	62	6	910600	65 LANCASTER,D.
POEL	12	2	770800	82 MIMS,F.M.
ITIM	39	4	900800	664 SHEA,J.J.
CQ	47	1	910100	40 BRUMBAUGH,J.F.
QST	61	12	771200	44 JONES,W.B.
RESC	57	8	860800	1918 CAUDILL,L.D.
RAEL	56	1	850100	89 GROSSBLATT,R.
RESC	61	11	901100	3356 CLARKSON,R.B.
HARA	15	3	820300	22 NICHOLLS,D.
RESC	58	18	871000	1955 SEXTON,B.A.
EDN	35	10	900510	119 PEASE,B.
ITIM	34	4	851200	639 LAUG,O.B.
73AM	0	343	890400	87 WALKER,W.
M098	0	7	890200	22 SETHMAN,B.
CICE	0	20	910400	14 DAHLIN,T.
RESC	63	7	920700	3777 YIP,W.T.
EDN	30	10	850502	83 TRAVIS,B.
EDN	27	23	821124	133 SZEJNWALD,H.
JOAU	39	5	910500	371

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JOCH	65	5	880500	466 STOCK,J.T.
QST	65	7	810700	11 GEISER,D.T.
M110	7	5	920900	589 YASEEN,M.
MESC	2	12	911200	1215 KILPIN,D.
ELMU	3	12	871200	75 MCCORMICK,B.
CICE	0	14	900400	38 CIARCIA,S.
7ART	0	363	901200	54 MCINTIRE,G.R.
JOMA	67	1	860300	143 WITTEBORT,R.J.
PE	7	2	900200	42 WANNAMAHER,J.
PE	7	11	901100	29 CLARKE,J.
ITPE	4	1	890100	8 DIVAN,D.M.
CODI	2	11	851100	9 STEPHENS,J.
EDN	34	12	890608	203 LABELLE,J.
APSP	37	5	830900	419 SMITH,S.B.,JR.
QST	65	11	811100	46 WEST,J.L.
QST	62	9	780900	25 QUAY,W.E.
QST	72	12	881200	14 BALMFORTH,K.D.
ELDE	37	12	890608	76 BURT,R.
JOPH	22	8	890800	557 NTOUTOUME,T.A.
7ART	0	374	911100	11 BROWN,B.
QST	61	2	770200	35 RAU,R.S.N.
EWWW	96	1653	900700	640
HARA	23	4	900400	58 LOMBARDI,B.
JJAP	29	2	900200	445 WATANABE,T.
AUAM	20	4	891000	34 RYAN,J.C.
PE	10	4	930400	66 ELLIS,M.
MCJ	0	0	901000	16 MARKELL,R.
ELEN	62	766	901000	25 GHASSEMLOOY,Z.
ELEN	55	683	831100	141 ERDI,G.
EDN	30	18	850808	107 TRAVIS,B.
EDN	32	23	871112	292 SARNS,S.E.
EDN	31	11	860529	131 WILLIAMS,J.
EWWW	97	1674	920500	399 HICKMAN,I.
ETI	6	8	820800	39 RIMMER,S.
RFDE	13	5	900500	39 METHOT,F.
GLAU	3	1	910100	18 LIN,J.
MBE	14	6	761100	704 MARJORAM,A.R.
JOPH	21	4	880400	388 MITTAL,J.K.
M002	13	142	870200	20
LAMI	8	3	890300	83 CHAU,F.-T.
ELTO	9	1	850100	42 ROBERTSON,C.
ELDE	30	1	820107	129 BURSKY,D.
ETI	7	3	830300	18 WALKER,P.
PE	6	9	890900	33 RAKES,C.D.
POEL	16	4	791000	76 KRAENGEL,W.D.
ELTO	11	1	870100	17 BECKER,J.
EDN	32	11	870528	213 SHANER,R.
ANIN	16	2	870200	281 SANYAL,M.K.
HAEL	2	2	840200	50 PATRICK,D.E.T.

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POEL	19	12	811200	79 BLECHMAN,F.
M099	0	63	896300	4 MCGREEVY,S.
ELTO	8	6	840600	36
HAEL	3	1	860100	56
PHTE	23	9	851200	553 HOLTON,B.
ELEN	61	752	890900	24 PLANT,M.
PE	7	9	900900	22 WELS,B.G.
RAEL	56	12	851200	38 FISCHER,C.R.
HAEL	5	8	880800	44 RAY,D.P.
PE	10	3	930300	70 RAKES,C.D.
EWWW	99	1684	930300	206 OLEINIK,V.B.
M018	7	9	860900	1259 MCMILLAN,R.W.
MESC	3	5	920500	475 JEONG,Y.H.
ELWI	90	1578	840300	41 WHITT,S.
MEIN	15	3	810500	197 KORNHAUSER,D.
ELTO	9	9	850900	43 COOPER,P.
M109	32	5	890500	347 KANDPAL,P.C.
ETT	12	2	880200	45 NOYES,B.
EWWW	95	1646	891200	1160 LAKSHMINARAYANAN,V
M182	34	4	850500	277 POWELL,D.B.B.
SOMA	1	2	860700	46 OTHMAN,M.O.
RAEL	60	9	890900	8 HURST,L.
REW	0	0	840600	75 ADKINSON,B.
JOPH	19	8	860800	594 SRINIVASAN,K.
JOEX	65	1	760800	259 MITCHELL,B.K.
PHED	22	2	870300	122 BISSELL,P.R.
CHBI	12	1	820100	39 MACKELLAR,W.J.
HAEL	2	2	840200	61 SCOTT,R.F.
ELWI	92	1606	860800	57 NALTY,G.
ELWI	93	1618	870800	803 EICHENBERG,D.
RAEL	53	8	820800	65 GIBSON,R.
INJO	64	5	880500	781 BERECHULA,R.J.
QST	72	8	880800	86 ATKINS,B.
RESC	61	3	900300	1156 RAGHAVENDRA,K.
INJO	64	4	880400	667 HINCHLIFFE,S.
JOPH	21	9	880900	848 FARHAT,S.
POEL	14	4	781000	66 JOHNSON,W.P.,JR
ITIM	38	1	890200	119 AWAD,S.S.
RESC	56	11	851100	2166 SUNDQVIST,B.
NIM	204	0	821200	471 MOSZYNSKI,M.
MEBI	23	3	850500	289 ROYALL,R.A.
NUIN	184	0	810500	399 KOBAYASHI,M.
ELEC	56	18	830908	124 GIBBENS,H.,JR.
BYTE	11	1	860100	263 KRAMER,G.W.
M118	36	3	790300	455 UMBARGER,C.J.
JOMA	39	1	800400	31 SCHWARZ,D.
RESC	55	11	841100	1817 PATHAK,L.
CICE	1	6	881100	28 BACHIOCHI,J.
JOPH	20	2	870200	181 LATHAM,R.V.

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ELEN	64	790	921000	12
ELDE	31	1	830106	325 BUCKMAN,G.H.
GLAU	4	1	920100	1 SAWYER,R.
CODE	18	10	791000	123 WILLIAMS,R.M.
73AM	0	318	870300	40 STARK,L.W.
ELWI	92	1611	870100	54 EVANS,A.L.
M043	8	7	890200	58 WEIDE,D.H.
ITNS	33	1	860200	364 KUME,H.
JOAU	35	4	870400	270 LYBARGER,S.F.
JOPH	19	12	861200	1063 SARANG,P.G.
M003	7	4	870100	42 BOLBACH,T.
CLEN	10	2	850400	141 MILLER,H.S.
NIM	196	0	820500	447 GOTTSCHALK,B.
PHED	23	2	880300	112 ERICSON,T.J.
MOEL	5	3	880300	46 O'CONNELL,J.
JONE	11	2	840600	79 SNYDER,R.E.N.
BYTE	6	5	810500	66 CIARCIA,S.
ELDE	31	6	830317	163 PUCKETT,R.R.
INJO	57	1	840700	111 VELAYUDHAN,C.
ELEN	63	772	910400	29 TEODORESCU,H.-N.
AMJO	61	10	931000	932 TOBIN,R.G.
INJO	61	3	860900	365 FYATH,R.S.
RESC	50	8	790800	969 POWER,R.K.
QST	66	4	820400	29 HELFRICK,A.
RESC	57	1	860100	120 VON WANDRUSZKA,R.
ELTO	10	9	860900	33 BENNETS,M.
ELEC	49	15	760722	122 SALVATI,M.J.
QST	61	3	770300	49 HANSE,P.
ETI	8	3	840300	38 BEDROSIAN,D.
POEL	12	1	770700	92 BLOIS,K.B.
ETI	7	10	831000	24 ELAM,A.
HAEL	3	4	860700	16
INJO	56	3	840300	433 NAGARAJ,K.
RAEL	57	6	860600	71 GROSSBLATT,R.
M020	26	8	860800	482 BENSON,R.G.
RAEL	58	11	871100	107 RENTON,P.
RAEL	53	9	820900	42 MCNEILL,D.
QST	65	6	810600	15 DEMATTIA,R.
ETT	12	8	880800	10 DE VAUX-VALBIRNIE,
ANCH	58	4	860400	923 KAMLA,G.J.
EDN	33	22	881027	327 DART,A.K.
RESC	51	3	800300	397 VELAYUDHAN,C.
QST	63	11	791100	57 HEYDT,R.
LAPR	34	9	850900	126 BENHAM,D.G.
RESC	60	10	891000	3310 VARMA,S.P.
ANCH	54	12	821000	2067 HENDERSON,D.E.
ANCH	54	4	820400	833 LIN,P.Y.T.
JOCH	58	3	810300	281 SIEVERS,D.
EWWW	96	1650	900400	303 SPENCER,T.W.

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EEU	2	9	920700	67 BIRTIWANA,A.
RESC	64	6	930600	1474 LANNI,F.
RESC	55	4	840400	589 ALBERT,H.J.
JONE	28	3	890600	219 ARMSTRONG,D.M.
7ART	0	368	910500	78 HOUGHTON,C.L.
MESC	3	11	921100	1103 HAYAKAWA,M.
JONE	6	3	820900	245 MORRIS,R.
73AM	0	282	840300	88 VAN DE SANDE,N.
AMJO	47	3	790300	287 DEGEER,R.
JOPH	22	11	891100	907 KANO,M.
M002	16	182	901000	22 GIFFARD,T.
ELDE	39	23	911205	113 XIA,Y.
COEL	20	11	821100	124 MIMS,F.M.
80M2	0	70	851100	88 ALFORD,R.C.
ELEC	49	23	761111	114 BUHRER,C.F.
ELWI	91	1593	850900	17 GORDON,J.L.
RESC	52	7	810700	996 FRITSCH,K.
JOPH	13	10	801000	1047 DALGLISH,R.
ETT	13	2	890200	22 PENNER,J.
RESC	60	8	890800	2798 GUAN,S.
JOPH	22	9	890900	780 AROCA,C.
JOPH	22	11	891100	933 BENAMMAR,M.
M017	26	3	811100	193 KAUPPINEN,J.
AMJO	50	10	821000	889 ALPERT,S.S.
JOPH	18	1	850100	17 RATHMANN,D.
ELWI	93	1616	870600	619 SOKOL,B.J.
80M2	0	69	851000	82 ALFORD,R.C.
JOPH	19	6	860600	454 DAS,M.B.
POEL	20	9	820900	105 MIMS,F.M.
HARA	11	1	780100	10 TOWSLEE,A.
ELDE	35	27	871112	113 BERGER,B.
M150	28	4	830700	349 HAGGAR,R.J.
ETT	16	3	910400	21 WILCHER,D.
BYTE	7	5	820500	162 BARDEN,W.,JR.
EDN	32	17	870820	252 SCHUPAK,L.
EDN	30	23	851017	172 HERRMANN,E.J.
NUIN	173	0	800600	537 AHRENS,L.A.
ETI	7	2	830200	24
ITCE	31	4	851100	680 KHADHOURI,S.H.
HAEL	3	4	860700	96
PE	7	3	900300	23 WELS,B.G.
ELDE	32	6	840322	242 MCGLINCHY,M.
BYTE	6	2	810200	36 ANDERSON,J.C.
PHED	23	4	880700	249 CHAKARVARTI,S.K.
QEX	0	45	851100	6 GRAUE,L.C.
JEMT	1	2	840200	175 KOWARSKI,D.
RAEL	54	12	831200	38 KRUMM,J.N.
ELEN	57	708	851200	35 KOUL,R.
RESC	56	1	850100	136 HEINEMANN,K.

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INJO	56	1	840100	127 GOVINDAN,V.K.
ANIN	18	2	890200	91 KUMAR,D.D.
PE	10	9	930900	41 YATES,D.
REW	0	0	840200	35 MARSTON,R.
QST	67	12	831200	25 NICHOLS,E.
RAEL	56	1	850100	41 BROSBLATT,R.
QST	72	9	880900	43 KING,D.
ELCH	270	1	891010	43 AMATORE,C.
ETI	5	8	810800	70
WW	88	1555	820400	41 HOOD,J.L.L.
ELNO	63	9	920900	58 MARSTON,R.M.
CLEN	9	1	840100	47 BHANSALI,P.V.
ELWI	91	1593	850900	56 JAMES,M.R.
RAEL	57	10	861000	16
HAEL	4	1	870100	93 RAKES,C.D.
COPR	21	4	810700	68 BARBARELLO,J.
SCEL	21	3	810500	33 BARBARELLO,J.
POEL	20	4	820400	107 MIMS,F.M.
POEL	19	4	810400	75 FIELD,T.
RAEL	59	4	880400	35 DE ZEREGO,V.
HAEL	5	5	880500	92 RAKES,C.D.
EDN	33	13	880623	178 KOCSIS,J.
HAEL	5	9	880900	39 SHAFER,R.
ETT	12	11	881100	17 PENFOLD,R.
RFDE	9	9	860900	14 MARCZEWSKI,W.
JOPH	22	7	890700	518 FIGUERA,J.M.
M102	38	1	760100	51 BAHNER,L.H.
MOEL	7	11	901100	44 WY SOCK,D.
EWWW	97	1675	920600	508 DIJKSTRA,W.
INJO	58	3	850300	513 HAFETH,B.A.
WW	89	1565	830200	65 CHALMERS,P.J.
POEL	12	2	770800	39 BARBARELLO,J.
EDN	29	16	840809	259 SAEED,I.
EDN	33	11	880526	214 INDORF,G.
RESC	52	9	810900	1328 IIDA,T.
RESC	49	5	780500	672 SMIRL,A.L.
ETI	7	4	830400	74 DURANT,G.
MOEL	5	11	881100	50
PE	7	1	900100	22 WELS,B.G.
PE	7	7	900700	22 WELS,B.G.
EWWW	97	1677	920800	684 BRIDGEN,D.M.
RESC	55	5	840500	754 TRAKALO,M.
MOEL	7	12	901200	48 MIMS,F.M.,III
ELNO	63	11	921100	31 SIMONTON,J.
COEL	21	12	831200	86 MIMS,F.M.,III
LAPR	30	6	810600	591 EVANS,R.T.
NIMA	309	3	911115	450 SCHAMBERGER,R.D.
73AM	0	286	840700	26 INBODY,D.S.
ELTO	10	8	860800	44 BOWES,C.J.

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JONE	12	3	850100	241 LORING,R.H.
EWWW	96	1657	901100	988 GREEN,R.
PHTE	29	1	910100	23 KARLOW,E.A.
EWWW	97	1664	910700	550 BRICE,R.
ELEN	62	759	900300	30 LAKSHMINARAYANAN,V
WW	88	1554	820300	60 KIRK,K.
ETT	15	8	901000	25 WILCHER,D.
LAMI	9	1	900100	8 YAACOB,M.
JOPH	22	9	890900	712 XIE,C.G.
CQ	39	7	830700	38 VALDES,J.R.
RESC	59	4	880400	639 KATH,G.S.
RESC	51	1	800100	103 CUNIN,B.
QEX	0	57	861100	12 OLSON,B.
7ART	0	384	920900	74 HERRING,B.
ELWI	93	1618	870800	807 SOKOL,B.J.
ITPS	19	5	911000	894 RADIC,N.
EWWW	96	1654	900800	714 WILLIAMSON,R.
EVEL	16	2	870200	96 TOOLEY,M.
RESC	55	11	841100	1788 LINDEMANN,B.
COCR	3	5	930500	66 GOSS,N.
JMET	12	2	880300	59 AHMON,M.
ANCH	50	14	781200	1988 MIAW,L.-H.L.
ELEN	56	686	840200	27 PAULIN,P.
COEL	21	2	830200	39 DIGHERA,L.
NIM	213	2	830801	333 BERLINER,R.
M016	28	9	890501	1624 NIKUMB,S.K.
RAEL	52	8	810800	53 BLECHMAN,F.
IEEA	138	6	911100	295 RIZKALLA,M.E.
ANIN	15	3	860300	227 GRANDE,D.G.
ITNS	34	1	870200	516 PARK,S.
RAEL	59	10	881000	58 SOKOLOWSKI,S.
AUAM	20	3	890800	8 VIESCA,F.G.
ELEC	51	3	780202	117 CHIU,V.J.H.
ELTO	10	7	860700	14 FEATHER,M.
EWWW	97	1663	910500	408 HOOD,J.L.
ELEC	50	10	770512	105 VOGLER,D.L.
HAEL	3	6	861100	59 BUNKER,P.
JOPH	16	11	831100	1013 BHASKAR,K.V.
RESC	54	6	830600	697 RATINEN,H.
ELEN	56	688	840400	32 PETRY,P.P.
NIMA	286	1	900101	49 CAMILLERI,L.
BYTE	9	3	840300	432 CIARCIA,S.
MEBI	21	5	830900	647 WILKINSON,A.B.
INJO	63	3	870900	425 RAMESHU,C.
RFDE	11	12	881200	57 NEELAKANTA,P.S.
ITBE	33	2	860200	175 TALBERT,D.G.
JOCH	67	2	900200	181 WIEDERHOLT,E.
APSP	47	2	930200	235 TRAN,C.D.
ELEC	49	14	760708	107 SALVATI,M.J.

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INJO	61	2	860800	233 KHAN,I.A.
ELTO	9	6	850600	59 COLLINSON,A.N.
ITBE	30	9	830900	612 YONEZAWA,Y.
MEBI	21	2	830300	176 CHITORE,D.S.
ETT	12	5	880500	36 PENFOLD,R.
ELDE	36	14	880623	118 NICHOLS,J.L.
RAEL	59	10	881000	55 SPIWAK,M.
COED	0	0	840600	34
M126	0	148	891100	56 FOURACRE,A.
ETT	14	5	900500	49 FLIND,A.
WW	89	1568	830500	59 BEDDOE,B.S.
M149	31	0	760000	547 WALTERS,J.P.
LAMI	10	1	910100	8 CHAU,F.T.
AUAM	22	3	910800	10 BAUMAN,R.M.
RESC	63	2	920200	1707 ESPROLES,C.
ITIM	39	3	900600	527 ABUELMA'ATTI,M.T.
ELDE	39	7	910411	104 GRADY,G.
RAEL	53	6	820600	45 COHEN,J.
EDN	29	12	840614	153 ALBERKRACK,J.
EDN	28	26	831222	270 KLEIN,M.
COED	0	0	850400	52 DE JONG,M.L.
RAEL	62	1	910100	68 LANCASTER,D.
RAEL	52	11	811100	57 CARR,J.J.
RESC	50	2	790200	257 MASI,C.G.
ETI	7	1	830100	21 MARSTON,R.
RAEL	58	4	870400	80 SCOTT,R.F.
ELNO	64	4	930400	64 MARSTON,R.
ELDE	32	3	840209	155 SALVATI,M.J.
ELEN	59	722	870200	65 SHERMAN,L.
M128	44	1	900101	51 SALAMEH,Z.
BYTE	5	2	800200	202 NEWCOMB,R.K.
JOPH	16	11	831100	1091 LARSSON,P.G.
ELTO	10	9	860900	14 MACHATTIE,L.
ELEC	50	6	770317	96 MOSKOWITZ,J.
M160	45	1	780700	134 SMITH,D.M.
7ART	0	398	931100	58 CARR,J.J.
RESC	50	2	790200	193 HOULT,D.I.
NIMA	303	2	910601	298 ARMIJO,V.
JOPH	14	12	811200	1441 DILIGENTI,A.
ELDE	28	4	800215	152 LAM,M.D.M.
PE	10	2	930200	43 CARR,J.J.
HARA	11	1	780100	76 HALL,C.
AUAM	16	4	851000	43 NITIKMAN,S.
COCR	2	1	920100	31 AXELSON,J.
RESC	54	11	831100	1538 HIRAO,K.
JJAP	28	10	891000	1973 FUJII,T.
RESC	50	7	790700	817 LITTON,C.D.
POEL	20	1	820100	59 KUNDE,K.
M152	3	0	880600	517 NARASAKI,H.

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ITNS	33	1	860200	933 YAREMA,R.J.
POEL	14	1	780700	64 DANCE,B.
ELDE	30	22	821028	175 WEST,E.
HARA	11	1	780100	91 TREADWAY,R.
COEL	21	6	830600	39 WRIGHT,H.
ELDE	30	9	820429	157 FABER,M.
ELEN	59	722	870200	40 PRASAD,S.J.
ELHA	0	0	861000	42
NIMA	234	2	850201	305 FESTA,E.
ETT	13	3	890300	26 NALTY,G.
NATE	0	0	871100	9 GRUBER,R.P.
RESC	55	6	840600	958 DALRYMPLE,B.J.
EUJO	8	4	870400	300 SULLIVAN,R.A.L.
MIMI	8	5	840600	221 SMITH,M.F.
EUJO	11	6	900600	343 SCONZA,A.
CQ	40	6	840600	24 INGRAM,D.
ELDE	31	19	830915	210
QST	67	10	831000	37 COUSINS,I.N.
RAEL	53	5	820500	91 SCOTT,R.F.
ELWI	91	1592	850800	63 COOPER,D.W.
ELWI	91	1592	850800	63 GARDINER,J.C.
HAEL	4	6	870600	88 RAKES,C.D.
NIMA	256	2	870501	365 O'SULLIVAN,T.
HARA	15	9	820900	78 LEFKOW,A.
ITIM	36	4	871200	994 LAUG,O.B.
M064	8	4	861000	365 GOH,J.C.H.
RFDE	9	6	860600	57 SHVARTSMAN,V.
HARA	22	12	891200	9 ELMORE,G.
M128	44	1	900101	57 SALAMEH,Z.
RESC	61	2	900200	802 CAHILL,D.G.
MADE	60	16	880707	79 CARLSON,G.
WW	89	1569	830600	28 HORNSBY,W.J.
EWWW	97	1660	910200	156
M030	24	1	790100	193 TWISS,D.H.
EWWW	96	1648	900200	157
EWWW	96	1648	900200	141 KRAUS,K.
ELNO	64	7	930700	43 CARISTI,A.J.
PE	10	9	930900	69 RAKES,C.D.
JOPH	15	10	821000	1123 O'BRIEN,R.N.
RAEL	61	8	900800	41 CARISTI,A.J.
EWWW	95	1646	891200	1203 DENT,J.
RAEL	63	5	920500	50 CARISTI,A.J.
POEL	13	2	780200	55 MILLER,P.E.
QST	63	11	791100	11 LUETZOW,R.H.
RAEL	57	3	860300	51 SOKOLOWSKI,S.
BYTE	6	9	810900	38 CIARCIA,S.
EDN	30	6	850321	271 ALBERKRACK,J.
RAEL	59	6	880600	49 JIMENEZ,R.
RAEL	61	12	901200	33 BERGQUIST,C.

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PE	9	7	920700	53 CARISTI,A.J.
PE	9	12	921200	53 VOLLONO,V.
ELEC	55	12	820616	141 KALISZ,J.
RAEL	59	9	880900	12
PE	7	12	901200	22 WELS,B.G.
ELEC	55	18	820908	165 NEUMANN,O.
ELEC	55	20	821006	110 NEUMANN,O.
M021	0	27	850000	23 JENSEN,R.
RFDE	11	1	880100	35 HELFRICK,A.
HAEL	2	1	840100	39 KLOESZ,G.
ELEC	56	1	830113	171 BIRD,I.G.
JOPH	17	12	841200	1112 POOLE,C.R.
RESC	62	4	910400	1102 MAHAJAN,S.M.
PE	8	1	910100	41 STRONCZEK,S.J.
RAEL	59	3	880300	54 SHEETS,W.
ITIM	37	4	881200	610 SIERGIEJ,R.R.
PE	6	12	891200	38 LISLE,L.
ANCH	61	13	890701	1383 QI,D.
RESC	63	10	921000	4296 CLARK,S.M.
RESC	57	12	861200	3129 GARDNER,R.J.
RESC	49	3	780300	404 SMITH,H.J.T.
EEU	2	3	920100	31 RUFFELL,J.
NIMA	317	1	920615	399 GREEN,S.
ELDE	30	2	820121	218 ROBERTS,O.
ELEC	56	6	830324	124 ANTONESCU,M.
JOPH	18	1	850100	50 TANASOIU,C.
EDN	30	20	850905	153 ARTUSI,D.
MIAP	9	2	860400	95 KADHIM,M.A.H.
MIMI	11	2	870300	107 OH,K.H.
M008	9	2	890200	112 DRUDE,S.
EWWW	97	1671	920200	148
JONE	26	2	881200	141 STEPHENSON,R.S.
QST	67	8	830800	30 BISSEN,D.
ELDE	30	19	820916	184 FREEMAN,W.
EDN	31	8	860417	241 ROGERS,G.F.
ELEN	55	684	831200	25 GOODWIN,H.R.
EDN	33	2	880121	147 THOMPSON,B.
AMJO	58	9	900900	875 FOX,J.N.
NIMA	299	1	901220	511 MCGANN,W.J.
PHED	28	3	930500	190 FOX,J.N.
QST	69	6	850600	39 SCHELL,M.C.
AUAM	15	5	841000	7 CURCIO,J.J.
M161	58	4	850400	1383 BROWN,E.G.
RCM	16	1	790100	70 ANDERSON,A.I.
ELEC	49	19	760916	121 BOTWAY,L.F.
JOPH	18	7	850700	572 GRUBIC,M.
HAEL	3	2	860300	26 SCHOPP,W.
COEL	21	3	830300	95 SHAKIR,S.A.
ELEC	50	8	770414	106 SIVERTSON,N.A.

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CQ	41	1	850100	42 MCCOY,L.
RESC	58	4	870400	654 VERBEKE,O.B.
ITBE	31	4	840400	388 REMMEL,R.S.
EDN	33	2	880121	210 CUTHBERT,D.
MOEL	5	11	881100	22 HART,L.
ELDE	37	19	890914	105 SMITH,J.C.
EDN	35	3	900201	140 KITCHIN,C.
CLEN	12	3	870500	221 KIM,Y.
MOEL	7	12	901200	38 SHOEMAKER,C.
PE	8	9	910900	55 SPIWAK,M.
ITIM	40	3	910600	646 MODI,H.O.
ITIM	36	3	870900	844 AHMAD,M.
RESC	51	1	800100	95 GOTO,K.
POEL	15	3	790300	74 LUTUS,P.
HAEL	5	7	880700	32 SCHOPP,W.
AUAM	19	3	880800	7 VIESCA,F.G.
ELDE	38	16	900823	94 HARTLEY,C.
M186	4	5	890500	35 THEBERGE,A.
EDN	28	17	830818	211 SATINOSKY,M.E.
JOPH	16	11	831100	1036 CAFFIN,R.N.
ELEC	50	9	770428	110 NOLTE,J.
NIMA	221	2	840401	433 ROHRBECK,W.
RESC	58	11	871100	2110 MUDD,C.P.
EDN	30	3	850207	238 BROKAW,A.P.
JOAU	33	10	851000	762 MITRA,S.K.
ELDE	34	16	860710	99 CLOSE,J.P.
INJO	67	1	890700	35 SARAFIS,G.A.
ITIM	29	4	801200	416 VASTRADE,C.
JOPH	17	6	840600	539 RUST,H.-P.
ITIM	36	1	870300	92 VAN DER AUWERAER,H
ELEN	60	743	881100	28 DAMLJANOVIC,D.
RESC	48	7	770700	796 NORRIS,C.B.
JONE	39	2	910900	131 SQALLI-HOUSSAINI,Y
ELDE	40	9	920501	92 JUNG,W.
ELDE	36	16	880714	117 KITCHIN,C.
JOCH	60	7	830700	567 BEHM,R.K.
INJO	70	1	910100	159 SVOBODA,J.A.
PE	10	4	930400	49
ELDE	31	11	830526	206 GOLDSTEIN,S.
EDN	29	14	840712	336 BROKAW,P.
AMJO	55	4	870400	379 SELIGMANN,P.
PHTE	21	5	830500	330 ASHWORTH,H.A.
ITIM	37	4	881200	510 ELABDALLA,A.M.
RESC	55	3	840300	404 ENGSTROM,J.R.
JOPH	15	12	821200	1313 FLUDE,M.J.C.
RESC	56	2	850200	278 OLSON,J.V.
NUIN	174	0	800800	357 ASANO,Y.
MESC	3	12	921200	1141 KIRKUP,L.
MADE	56	13	840607	108 MILLER,D.

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RCM	29	11	921100	136 UTASI,J.
JOPH	18	7	850700	568 CHROBOCZEK,J.A.
POEL	18	6	801200	62 LAFLER,L.R.
MIAP	11	1	880100	57 GOODES,S.R.
PE	9	2	920200	29 BROWN,S.A.
QST	62	3	780300	41 FISHBECK,J.O.
NIMA	272	3	881100	727 NINOMIYA,M.
PE	6	3	890300	64 CLARKE,J.
INJO	65	1	880700	117 HABIB,R.S.
AUAM	18	1	870100	22 DIDDEN,J.
QST	62	9	780900	11 BLAKESLEE,D.A.
POEL	16	5	791100	87 CARR,J.J.
ETI	7	4	830400	21 ELAM,A.
QST	61	10	771000	25 PIPER,M.
RAEL	54	9	830900	90 SCOTT,R.F.
NIMA	226	1	840915	142 GATTI,E.
73AM	0	273	830600	106 DAVEY,W.W.
MOEL	5	9	881000	44 DIJULIO,M.J.
AUAM	24	1	930300	8 BORBELY,E.
POEL	19	6	810600	71 JONES,S.
AUAM	16	2	850300	35 RUCK,B.
PE	8	11	911100	80 CARR,J.J.
AUAM	24	3	930900	20 EATON,E.
ITNS	35	1	880200	460 CRESSWELL,J.V.
NIMA	311	3	920115	484 FIRTH,B.
RESC	49	6	780600	806 MEYRICK,G.
EDN	36	17	910819	158 JACKSON,G.S.
PE	10	10	931000	49
NIMA	270	2	880715	373 TKACZYK,S.M.
ELEC	51	14	780706	115 NEWMAN,S.
AUAM	23	1	920300	12 WILLIAMSON,R.
ITNS	32	5	851000	2165 YOUNG,L.M.
ELDE	40	8	920416	93 WOODWARD,W.S.
JOPH	17	8	840800	638 DAS,S.R.
RESC	62	6	910600	1609 KIMURA,M.
QST	68	4	840400	19 DEMAW,D.
JOPH	15	12	821200	1295 BIRD,I.G.
MIMI	10	8	861000	427 TYLER,J.
RESC	54	8	830800	935 WILD,N.
RESC	58	2	870200	315 TENDYS,J.
ELWI	91	1588	850200	45 HUTTON,S.
INJO	58	5	850500	817 FILANOVSKY,I.M.
BIIN	25	1	910100	54 NEUMAN,M.R.
AMJO	60	4	920400	370 ZIMMERMAN,R.L.
JOPH	14	6	810600	686 MORON,Z.
NIMA	286	1	900101	41 HENDERSON,R.S.
AJP	246	4	840400	626 JEFFREY,C.
NIMA	323	1	921201	91 STARIC,M.
ANCH	55	11	830900	1708 RUTAN,S.C.

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ITBE	38	12	911200	1165 LUO,C.-H.
JOPH	18	1	850100	23 WILLIAMS,P.
ANCH	55	12	831000	1996 DELUMYEA,R.D.
AUAM	21	4	901000	8 BORBELY,E.
RESC	54	11	831100	1476 PITSAKIS,M.N.
RESC	56	10	851000	1953 KANAJI,T.
MEBI	21	3	830500	295 STOCK,P.
RESC	52	11	811100	1737 SMITH,A.B.
EWWW	95	1645	891100	1080 ROX,D.R.
JOPH	16	12	831200	1223 CIDDOR,P.E.
NATE	0	0	890200	8 SMITH,M.A.
ELEC	51	7	780330	90 TECKCHANDANI,A.
ANCH	55	1	830100	2 SUNDEN,T.
RESC	61	1	900100	200 ST. POPKIROV,G.
JOMA	50	3	821200	479 FRENKIEL,T.
AJP	262	2	920200	320 NAFZ,B.
NIMA	268	1	880510	50 BEDESCHI,F.
ELDE	39	23	911205	73 STITT,R.M.
RESC	63	6	920600	3505 SHAW,S.-Y.
RESC	63	10	921000	4614 HURWITZ,P.D.
NIMA	241	1	851115	107 AVONDO,J.P.
RESC	52	7	810700	1087 HANNAH,E.C.
JOPH	14	7	810700	880 VAN NIEROP,J.H.
JOPH	14	12	811200	1415 BRACH,E.J.
ESD	18	11	881100	20 SLATER,M.
JOCO	7	3	880300	70 POWERS,M.H.
ELEN	56	688	840400	30 OZKAYNAK,I.J.
ITNS	33	1	860200	907 TING,J.
ITNS	31	1	840200	480 TAKEUCHI,S.
ELSC	9	3	810300	217 HASKARD,M.R.
JOPH	14	11	811100	1279 GRABOSKI,M.S.
BYTE	7	1	820100	239 STAEHLIN,D.C.
MOEL	5	5	880500	18 TSCHANNEN,R.F.
73AM	0	271	830400	30 ATKINS,W.J.,JR.
ELWI	91	1589	850300	67 ANDERSEN,P.
73AM	0	325	871000	58 TAGGART,R.E.
ANIN	20	2	920200	155 GRUBER,J.
APSP	45	2	910200	178 BUSCH,K.W.
TALA	37	1	900100	89 BUSCH,K.W.
CODE	18	1	790100	126 RONY,P.R.
EEU	2	9	920700	59 SVENKERUD,L.
ITNS	36	1	890200	79 FRANK,J.
ANCH	62	15	900801	1604 RAVISHANKAR,S.
NIMA	323	1	921201	71 BELLOTTI,R.
JOPH	21	3	880300	257 ROBINSON,F.N.H.
RESC	57	4	860400	680 DUBE,W.P.
ELTO	10	7	860700	12 BAKER,S.A.
HAEL	3	4	860700	25 WORZALA,J.
JONE	10	1	840100	29 DISTERHOFT,J.F.

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ITIM	36	1	870300	120 KARNAL,A.E.
HARA	15	3	820300	76 BRYANT,J.M.
EEU	2	2	911200	72 TEDER,W.
ANCH	59	21	871101	2603 HUDSON,M.K.
MOEL	7	6	900600	44 AXELSON,J.
NIMA	320	1	920815	47 HAYANO,H.
PE	6	7	890700	45 HALL,C.
PE	9	5	920500	53 YACONO,J.J.
COCR	3	2	930200	18 EDWARDS,S.
MEBI	19	6	811100	673 MCCLELLAN,A.D.
HAEL	4	1	870100	69 DAWSON,C.
RESC	51	8	800800	1126 STEIN,W.
BYTE	13	6	880600	273 CIARCIA,S.
PHED	25	5	900900	286 WYNN,V.T.
HAEL	4	12	871200	39 VIESCA,F.G.
ELWI	91	1591	850500	61 COOPER,R.
JEPT	7	1	800600	4 SPANDE,J.I.
EWWW	98	1678	921000	868 HICKMAN,I.
HAEL	3	6	861100	56 HOLTZMAN,J.
JOAU	30	9	820900	607 KRONING,M.
ELTO	10	12	861200	10 STUART,M.
ETI	8	1	840100	36
ELEC	55	25	821215	149 RICH,A.
RFDE	13	11	901000	29 LINDSETH,D.
AMJO	53	12	851200	1195 SANDOVAL,J.L.
AMJO	59	1	910100	54 DEPT. OF PHYSICS,
EWWW	97	1660	910200	126 LAWDAY,G.
M147	0	27	900900	72
AUAM	18	2	870300	54 KELLY,P.
ELEN	58	715	860700	47 MEAKIN,M.
JOPH	18	5	850500	387 SMITH,A.M.
MEIN	21	2	870400	97 KILGALLON,M.J.
M049	55	5	880500	94 PARIS,M.
ETT	14	5	900500	8 FEATHER,M.
MESC	3	8	920800	713 HARUYAMA,T.
RESC	63	7	920700	3729 CORTESE,R.
ELEC	50	11	770526	126 NEZER,Y.
ELEL	21	1	810100	26 CARISTI,A.J.
ELEN	55	682	831000	63 GREENFIELD,D.
RFDE	12	11	891100	35 THOMAS,G.
ITBE	38	5	910500	483 SINGH,M.
ELTO	10	8	860800	12 TOOLEY,M.
AMJO	52	1	840100	86 WICKLIFFE,M.E.
JOPH	19	11	861100	916 SHUBHA,V.
POEL	16	5	791100	93 MIMS,F.M.
POEL	16	6	791200	98 MIMS,F.M.
HAEL	2	3	850300	31 HADGIS,G.
RESC	58	5	870500	849 SEYHOONZADEH,A.
EDN	30	6	850321	266 SMEINS,L.G.

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RAEL	52	2	810200	55 WEINSTEIN,M.B.
JOCH	61	4	840400	386 CHAN,E.K.D.
RFDE	14	1	910100	29 XU,Y.
ELEC	53	1	800103	159 COLLOCOTT,S.J.
SICH	4	10	911000	32 YATES,D.
ELDE	28	21	801011	209 PEASE,R.A.
PE	10	3	930300	63 PINNELL,T.
RCM	30	5	930500	170 STEINER,G.
POEL	17	1	800100	93 MIMS,F.M.
NIM	201	0	821000	93 BOIE,R.A.
ANIN	19	4	900400	181 ENGBLOM,S.O.
RAEL	57	7	860700	67 WRIGHT,M.R.
RAEL	56	12	851200	77 MARTIN,V.D.
RAEL	58	3	870300	97 MARTIN,V.D.
POEL	17	4	800400	66 MCNEICE,C.
RAEL	57	5	860500	46 GORIN,J.
AUDI	67	5	830500	62 CHAPMAN,P.D.
PE	9	1	920100	31 WHITEHEAD,W.D.
PE	8	12	911200	25 YACONO,J.
HARA	20	10	871000	65 HENNIGAN,W.R.
M020	30	0	900900	308 WANG,J.
ELDE	28	21	801011	185 KOCH,P.N.
RESC	54	12	831200	1631 BENETTI,P.
HARA	19	12	861200	10 NOLL,S.J.
ELDE	30	4	820218	203 HAGEMAN,S.
COCH	12	4	880400	301 CHAU,F.T.
COED	0	0	840300	30
JONE	16	1	860300	79 ZHANG,J.
ELDE	37	17	890810	73 YUVAL,I.
M145	18	2	900200	357 INSAUSTI,P.
ELEL	21	1	810100	65 EVANS,B.R.
HARA	15	7	820700	72 BEVEL,D.H.
JOPH	14	11	811100	1250 GRIFFIN,J.
ELDE	28	20	800927	150 LAABS,J.
73AM	0	357	900600	34 BRUMBAUGH,J.F.
ITPS	19	5	911000	954 PLATT,C.L.
ANIN	15	1	860100	63 BROWN,B.B.
EDN	30	22	851003	169 LEE,R.
ITNS	34	1	870200	453 LESKOVAR,B.
RAEL	60	5	890500	54 MARSTON,R.
QEX	0	55	860900	10 BORDEN,D.
MEBI	27	5	890900	525 RAMACHANDRAN,G.
NIMA	284	2	891201	296 TANAKA,M.
RAEL	61	12	901200	40 HOLZWARTH,R.
73AM	0	267	821200	108 WIER,L.T.
ELDE	38	10	900524	57 ELLIS,M.,JR.
PE	8	6	910600	72 RAKES,C.D.
CIDE	138	5	911000	620 BEROUAL,A.
ELTO	10	12	861200	63 READ,B.

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HAEL	5	7	880700	59 FOX,T.
ELWI	90	1580	840500	27 PICKERSGILL,P.J.
BYTE	10	7	850700	141 CIARCIA,S.
INJO	67	1	890700	147 BABU,T.K.M.
JOPH	19	7	860700	545 MULLIGAN,F.J.
ELEC	56	5	830310	134 CHENG,F.
M118	36	1	790100	60 WOLF,M.A.
NIMA	307	1	910915	52 FRAUTSCHI,M.
HAEL	2	3	850300	21
QST	68	12	841200	31 DEMAW,D.
QST	69	3	850300	26 DEMAW,D.
M065	1	1	761000	62 PARKER,K.P.
ITNS	32	1	850200	653 BRIGGS,D.
RAEL	53	1	820100	36 SAVAGE,E.
IEEA	138	4	910700	237 KONAR,A.
M189	26	2	780200	62 GLASSER,L.A.
RESC	48	4	770400	414 CHU,B.
ETI	7	3	830300	16
QST	66	4	820400	53 BARNES,D.
QST	69	8	850800	42 LEWIS,T.
ELHA	0	0	861000	50
ELWI	91	1587	850100	75 HOWE,A.H.
RAEL	52	12	811200	92 WARD,W.
RAEL	58	10	871000	101
RCM	15	7	780700	38 AUXIER,D.
ELEN	57	703	850700	43 VIOREL,P.
QST	65	6	810600	38 HYDER,H.R.
RAEL	52	10	811000	102 CROOKSHANK,J.A.
JOCH	61	11	841100	1027 SRIVASTAVA,S.B.
SKTE	71	3	860300	307 REDBURN,F.L.
7ART	0	368	910500	84 BRUMBAUGH,J.F.
RESC	53	11	821100	1793 LAST,T.A.
POEL	19	3	810300	67 BARBARELLO,J.
POEL	19	7	810700	69 LASH,H.D.
BYTE	10	1	850100	183 RYNONE,W.
RAEL	58	4	870400	48 SCOTT,W.D.
73AM	0	360	900900	9 KENT,R.
M113	11	6	920600	102 CHEEK,B.
CQ	42	12	861200	46 SCHULTZ,J.J.
EEU	2	2	911200	72 KUHN,R.
ELDE	28	3	800201	98 CARFI,R.W.
ELTO	8	9	840900	66
RAEL	58	10	871000	96 BARBARELLO,J.
M064	9	1	870100	38 ARKIN,H.
WW	88	1554	820300	86 BARKER,P.G.
QST	61	12	771200	21 NEVELS,D.L.
ETI	6	12	821200	20
73AM	0	285	840600	16 FRUITMAN,E.
73AM	0	271	830400	106 SHERRILL,E.C.

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MESC	3	2	920200	200 SYLVAN,A.
RESC	57	12	861200	2987 GROCHOWSKI,L.
RESC	58	9	870900	1589 BROWN,I.G.
RESC	52	1	810100	63 HOLMLID,L.
RESC	56	9	850900	1763 BLOYET,D.
POEL	15	5	790500	63 MORAR,D.
RESC	59	9	880900	2070 HALLGREN,R.B.
RESC	53	7	820700	960 KALPAXIS,A.
POEL	16	4	791000	39 MARKS,M.H.
NIMA	246	1	860515	517 SCHNATTERLY,S.E
RESC	56	1	850100	66 LEWIS,D.A.
NIMA	265	3	880315	445 MES,H.
ELCH	278	1	900125	137 VANDERNOOT,T.J.
JOPH	13	12	801200	1328 BIEBL,J.
CHIN	8	3	780300	181 RAMALEY,L.
M016	23	9	840501	1308 LOW,F.J.
RAFU	0	2	910900	26 PUTMAN,P.
COCR	2	9	920900	28 AXELSON,J.
RFDE	13	9	900900	76 SINGER,A.
M012	81	6	870600	1906 VAN DOREN,C.L.
POEL	19	5	810500	70 ALBING,B.
JOCH	60	2	830200	143 MEYER,J.J.
ELEC	56	2	830127	113 PEASE,R.A.
ELTO	8	7	840700	18 SCOTT,J.
M098	0	7	890200	10 ROBERTS,T.
M125	2	4	891000	39 PARKER,B.
ELCH	296	2	901224	517 KAKIUCHI,T.
HARA	14	6	810600	18 SIEVERS,H.
M020	18	6	780600	371 NOVINSKII,N.A.
M064	13	6	911100	481 RANDALL,N.J.
EDN	38	21	931014	101 SIMPSON,C.
MEBI	21	6	831100	731 PELTORANTA,M.
RAEL	58	9	870900	94 SCOTT,R.F.
EDN	33	13	880623	175 AUDY,J.
JONE	26	2	881200	151 FORSTER,I.C.
RESC	57	2	860200	209 FORRER,J.
COCR	3	6	930600	48 GOSS,N.
ELDE	31	2	830120	176 BOERS,D.
ELWI	91	1591	850500	37 OGDEN,F.
ELTO	9	4	850400	22 HUBERT,A.
CODI	3	8	860800	10 JIMINEZ,R.
ELEN	59	730	871000	32 FOORD,A.
MOEL	6	12	891200	30 COLLINS,S.R.
ELDE	37	26	891228	71 DELAGRANGE,A.D.
ELWI	95	1641	890700	691 LAKSHMINARAYANAN,V
CQ	47	5	910500	28 SCHULTZ,J.J.
ITIM	29	3	800900	212 HASLETT,J.W.
EWWW	97	1667	911000	874
RESC	63	1	920100	149 GAUVIN,S.

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NIM	196	0	820500	207 WALCHER,T.
EDN	36	3	910204	108 FREEMAN,M.
RESC	48	10	771000	1333 SPEARS,K.G.
RESC	62	11	911100	2816 AYELA,F.
POEL	19	6	810600	78 MIMS,F.M.
RESC	56	12	851200	2310 CORSON,M.R.
RESC	63	4	920400	2328 KIRKUP,L.
ELEC	55	12	820616	159 YOUNT,D.
RESC	62	4	910400	996 CLAASSEN,J.H.
PCW	8	12	851200	196
JOPH	18	6	850600	486 JORGENSEN,F.R.A
RESC	59	6	880600	955 COMEAU,A.
ELTO	10	5	860500	9 GREEN,D.R.
JOPH	14	1	810100	58 BROWNING,R.
MIRF	22	9	830900	75 GRUBER,W.K.
EWWW	97	1663	910500	440
ELDE	34	11	860515	141 KALLER,R.
JOPH	22	7	890700	446 SMALL,G.W.
M020	30	4	900400	324 MARTINEZ,A.
ELWI	95	1640	890600	540 HOPWOOD,A.
EDN	29	12	840614	238 SPENCER,M.
NIMA	263	2	880115	387 IQBAL,M.Z.
RCM	24	5	870500	176 CANO,H.W.
NIMA	270	2	880715	255 ARNOLD,R.
M149	46	1	910100	9 MICHEL,R.G.
COEL	21	12	831200	34 TEJA,E.
EDN	30	24	851031	247 BUKIMER,S.
POEL	20	5	820500	70 NAGEL,M.
HAEL	2	1	840100	73 SCOTT,B.
73AM	0	267	821200	64 CLOWER,P.
NIMA	235	2	850401	244 ELLISON,J.A.
RAEL	57	1	860100	85 SCOTT,R.F.
CQ	40	12	841200	34 SCHULTZ,J.J.
RFDE	14	10	910900	34 PRZEDPELSKI,A.B.
PE	8	5	910500	35 SPIWAK,M.
CEE	31	9	871100	25
PHED	21	2	860300	91 HALSE,M.R.
PHED	25	3	900500	167 FOX,J.N.
EDN	27	18	820915	161 HARTKE,J.L.
73AM	0	268	830100	48 OMAN,M.
EWWW	96	1648	900200	140 BENTON,I.
ELEN	57	706	851000	9
NIMA	316	2	920601	202 HAYASHII,H.
NIMA	265	1	880301	258 BEBEK,C.
M152	4	4	890600	337 STAHL,R.G.
ELDE	36	14	880623	83 MARY,L.
QST	73	2	890200	21 BAINBRIDGE,D.
ITNS	36	1	890200	471 ALESSANDRELLO,A.
RAEL	56	12	851200	106 SCOTT,R.F.

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EDN	36	9	910425	180 WILLIAMS,J.
EWWW	97	1671	920200	158 CRONK,J.E.
NIMA	317	1	920615	313 FEDIAKIN,N.N.
EDN	33	9	880428	237 DONOFRIO,B.
AUAM	21	4	901000	47 GALO,G.A.
NATE	0	0	880900	10 VASQUEZ,M.J.
EDN	28	21	831013	122 TWADDELL,W.
NIMA	279	3	890715	518 FILATOVA,N.A.
NIMA	300	2	910115	281 KHAZINS,D.M.
EDN	36	3	910204	108 WILLIAMS,J.
MESC	3	2	920200	196 KORNET,J.G.
ELDE	36	18	880811	117 MEEHAN,P.
ITMA	27	2	910300	3001 DRUNG,D.
ELDE	32	11	840531	59 BIANCOMANO,V.
EWWW	99	1683	930200	170 O'DELL,T.H.
NIMA	226	2	841001	319 ROEHRIG,J.
ELDE	37	25	891214	124 GOODENOUGH,F.
ELEC	50	1	770106	114 NORMET,H.
PE	7	5	900500	33 WANNAMAKER,J.
ITNS	36	1	890200	670 FUKUSHIMA,Y.
RESC	53	11	821100	1682 SALA,K.L.
ANCH	61	17	890901	1826 WATTERS,R.L.
LAMI	7	4	880400	145 ZUNG,J.B.
PE	8	7	910700	66 ELLIS,M.
RESC	50	5	790500	629 BROWN,B.L.
ETI	8	3	840300	54 HOLMES,R.
EDN	17	112	860821	112 CORMIER,D.
EWWW	97	1667	911000	859 LIU,M.T.S.
POEL	19	9	810900	90 MIMS,F.M.
ANCH	50	14	781200	2166 BUSCH,N.
M002	13	142	870200	38
NIMA	323	3	921215	601 UENO,K.
NUIN	178	0	801200	77 BOZZO,M.
HAEL	2	1	840100	70 NOLL,E.
73AM	0	325	871000	40 WELLS,H.
M115	22	8	891000	240 HALL,T.F.
RESC	49	7	780700	936 OGAWA,I.
RAEL	54	3	830300	65 BURHANS,R.W.
ELTO	11	1	870100	14 PRITCHARD,J.
ELNO	63	10	921000	43 KENNEDY,D.
QST	65	12	811200	53 KLINERT,C.J.
NIM	193	0	820200	275 JEFFORD,J.D.
ELSC	7	4	810400	201 ALBELLA,J.M.
AMJO	52	3	840300	280 HARMON,G.S.
ELEN	56	695	841100	34 COZER,C.
ELEC	50	16	770804	111 RALLAPALLI,K.
PE	10	1	930100	49
ELEN	58	712	860400	39 BARREAU,A.
INJO	55	3	830900	433 TAN,E.C.

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AMJO	58	6	900600	600	PRIEST,J.
RESC	62	3	910300	793	KOSZEGI,L.
ITED	34	4	911100	350	ADAMS,R.K.
JOCH	69	2	920200	151	LISENSKY,G.C.
EDN	29	9	840503	243	WAKEMAN,L.
MADE	56	7	840412	116	LIST,T.
REW	0	0	830300	10	ATTRILL,I.M.
MBE	14	6	761100	603	WEISS,M.
ELDE	32	6	840322	241	KLEIN,M.
73AM	0	327	871200	59	LLOYD,B.
QST	62	9	780900	22	SHRINER,R.D.
73AM	0	356	900500	77	HOUGHTON,C.L.
ELEC	48	20	751002	121	FLEAGLE,J.E.
73AM	0	263	820800	10	PERKINS,F.H.
73AM	0	281	840200	54	BOWMAN,T.
M002	12	0	860300	28	
CQ	48	7	920700	58	GENAILLE,R.A.
HAEL	4	7	870700	92	WELS,B.G.
MESC	1	1	900100	9	MURGATROYD,P.N.
JOCH	64	7	870700	628	GADEK,F.J.
QST	69	10	851000	35	WILLIAMS,B.O.
EWWW	97	1675	920600	497	HICKMAN,I.
HARA	22	11	891100	9	KELLEY,A.
IJSS	24	3	890600	651	WIEGERINK,R.J.
M115	11	8	780800	308	
EDN	33	2	880121	137	UNDERWOOD,B.
JONE	33	2	900800	185	GREEFF,N.G.
MADE	58	23	861009	124	ANDERSON,D.
ELWI	92	1606	860800	55	
M127	20	3	891201	199	BRIZZOLARA,R.A.
JOPH	13	5	800500	494	WAYNE,R.P.
ITBE	31	6	840600	477	ZHENG,E.
RAEL	59	5	880500	63	MARSTON,R.
EDN	38	12	930610	137	JUNG,W.
ITCE	30	3	840800	312	FENK,J.
HARA	22	4	890400	65	FOOT,N.J.
RFDE	15	8	920800	58	HECKT,N.W.
RAEL	62	4	910400	33	METZ,R.
80M2	0	48	840100	142	ENGELHARDT,D.L.
EDN	28	21	831013	163	VALLEY,R.
PE	10	9	930900	49	
ELDE	36	25	881110	119	PSHAENICH,A.
ITNS	35	1	880200	133	CABLE,M.D.
ANCH	54	6	820500	1011	
ELDE	31	9	830428	175	JAWORSK,J.V.
ELEN	60	739	880700	24	HORWOOD,K.E.
73AM	0	285	840600	42	PUTMAN,P.H.
RESC	50	4	790400	403	WIGGINS,J.W.
RESC	49	10	781000	1377	SCHOENBERG,K.F.

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RESC	49	1	780100	52 VAN DRIESSCHE,W.
AUAM	17	3	860800	26 COYLE,D.P.
AUAM	16	3	850700	16 ROBERTS,J.H.
EWWW	96	1655	900900	800 PORTER,B.E.
ELWI	90	1586	841200	73 WHITT,S.
CQ	42	1	860100	28 NELSON,R.A.
EWWW	99	1684	930300	254
PE	8	8	910800	72 RAKES,C.D.
INJO	56	1	840100	105 SINGH,V.P.
JOPH	13	12	801200	1284 SIGNORET,C.
EWWW	96	1647	900100	28 HOLMES,M.
AUAM	19	1	880200	23 PAUL,C.
EWWW	97	1667	911000	860 MARKEVICIUS,R.
ELLE	23	8	870409	428 MATSUMOTO,H.
EWWW	95	1644	891000	1023 HAWKER,P.
RESC	48	8	770800	1068 PELAH,I.
ANCH	54	12	821000	1969 PARLI,J.D.
NIMA	270	1	880701	11 KAWABATA,S.
RFDE	13	7	900700	29 RANDALL,K.S.
COCR	3	8	930800	34 EDWARDS,S.
EWWW	95	1644	891000	970 TRACEY,L.
ANCH	52	4	800400	685 BRILMYER,G.H.
RESC	61	5	900500	1474 SHYKIND,D.N.
EWWW	97	1669	911200	1042
ITIA	23	6	871100	1043 BOLOGNANI,S.
73AM	0	328	880100	104 BRYCE,M.
ITBE	36	2	890200	295 THUSNEYAPAN,S.
RESC	62	3	910300	655 CHANG,C.E.
SCPR	1	4	911000	91 MIMS,F.M.,III
73AM	0	333	880600	60 LLOYD,B.
WW	89	1568	830500	63 INKSTER,B.
ITNS	35	1	880200	348 SOBOTTKA,S.E.
EDN	30	15	850627	199 MIRABELLA,R.
ELTO	9	11	851100	38 ARMSTRONG,A.
ELDE	29	6	810319	227 NELSON,D.A.N.
JOPH	16	9	830900	827 ROSS,P.J.
EWWW	97	1666	910900	753 MAY,I.
PHTE	22	8	841100	539 BIRD,R.W.
ELWI	95	1640	890600	575 MILLER,C.G.
ITNS	32	1	850200	839 HARTZ,R.
RESC	54	3	830300	294 GRATTON,E.
AUAM	21	3	900800	28 BUSCHMANN,J.
POEL	14	4	781000	59 TENNY,R.
RFDE	9	12	861200	41 HUISMAN,D.C.
JOCH	67	8	900800	718 CHAN,K.-D.
ELEC	56	4	830224	113 DURGAVICH,T.
PE	7	7	900700	29 RAKES,C.D.
ELNO	64	4	930400	75 LANCASTER,D.
M052	4	2	870200	175 FUNK,A.

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NUIN	171	0	800400	101 LENNON,J.J.
HAEL	4	12	871200	29 RAKES,C.D.
EDN	33	5	880303	165 PEASE,R.
RESC	53	7	820700	1100 GUALTIERI,D.M.
NIMA	279	1	890701	376 BONIFACE,J.
AJP	251	6	861200	1365 OSBORN,J.W.,JR.
RAEL	55	8	840800	66 CARR,J.J.
JOCH	63	12	861200	1073 SWARTZ,J.C.
EWWW	97	1671	920200	107 BROWN,I.
ITIM	40	5	911000	826 AL-ALAOUI,M.A.
RFDE	14	12	911100	31 FRIDAY,R.
73AM	0	358	900700	9 BOHRER,P.
MIRF	27	3	880300	101 BELKERDID,M.A.
REW	0	0	840700	16 SEAR,L.
HAEL	5	7	880700	45 FRIEDMAN,H.
RAEL	51	12	801200	100 LASKIE,R.M.
7ART	0	365	910200	20 BECK,M.
7ART	0	365	910200	24 BECK,M.
POEL	12	4	771000	59 VANCURA,W.
EWWW	96	1656	901000	900
QST	62	9	780900	37 CHAMBERLAIN,C.A
COCR	1	7	911000	48 IOVINE,J.
RESC	54	8	830800	984 STEARNS,R.
BYTE	8	6	830600	462 CIARCIA,S.
73AM	0	352	900200	10 STIEB,K.
M023	49	8	910800	12 DOBBS,G.
RAEL	53	2	820200	82 FRIEDMAN,H.
ITIM	41	4	920800	555 KHAN,A.A.
QST	67	10	831000	11 LAMB,C.
MIRF	28	8	890800	99 GOLDMAN,S.
NIMA	294	3	900915	627 TOMASCH,A.D.
AUAM	23	3	920900	24 ADELSBACH,J.
RESC	50	12	791200	1590 LIAW,P.K.
RAEL	52	8	810800	64 OWEN,B.
QST	67	2	830200	28
ITIM	39	1	900200	42 LAUG,O.B.
ITIM	40	4	910800	669 PALLAS-ARENY,R.
ITIM	40	4	910800	677 PALLAS-ARENY,R.
EDN	38	8	930415	175 GRAEME,J.
ITIM	38	2	890400	324 FIELD,B.F.
ELDE	39	13	910711	137 BLACKWELL,S.R.
RFDE	14	13	911200	37 RHEA,R.W.
ELTO	8	12	841200	24 BURCHELL,J.C.
ELDE	31	4	830217	135 PELLY,B.
JOPH	20	7	870700	901 HART,M.J.
EWWW	96	1653	900700	629 DUNCAN,B.
73AM	0	259	820400	68 EDWARDS,T.
HARA	22	1	890100	88 HINSHAW,J.
ELWI	94	1623	880100	65 LATTANZI,V.

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DIDE	15	4	850400	94 FREEMAN,W.
RESC	63	11	921100	5403 CAVALLERI,A.
EDN	31	7	860403	82 TRAVIS,B.
ELDE	39	18	910926	126 HAASE,J.A.
ELDE	31	18	830901	95 ERDI,G.
EDN	33	11	880526	145 WILLIAMS,J.
EDN	37	20	921001	115 COHEN,I.
ELDE	32	12	840614	223 SCHULTZ,W.
EDN	29	20	841004	183 WILLIAMS,J.
EDN	30	5	850307	189 WILLIAMS,J.
RESC	57	4	860400	544 BARNES,R.A.
ELDE	32	14	840809	268 FOGARTY,J.D.
ITNS	36	1	890200	646 COUSINS,R.D.
JOPH	16	11	831100	1086 ROGERS,K.J.
RESC	49	6	780600	794 BENARD,D.J.
HAEL	2	6	851100	60 GANNON,M.
JONE	7	2	830200	171 BERTRAND,D.
MOEL	8	3	910300	26 MEYER,M.
ELDE	31	24	831124	178 SMITH,D.
ELTO	9	4	850400	20 MARKWICK,B.
CHBI	12	4	820400	289 GREEN,R.B.
INJO	63	6	871200	885 MAHMOOD,M.K.
MOEL	6	2	890200	50 SAMUELSON,R.E.
RESC	49	12	781200	1691 FRIESEN,W.O.
AMJO	50	3	820300	283 RUDMIN,J.W.
APSP	33	2	790300	62 WUNGKOBKIAT,S.
POEL	19	3	810300	93 MIMS,F.M.
MADE	60	17	880721	85 HORDEN,I.
RAEL	59	4	880400	65 MARSTON,R.
EDN	28	3	830203	115 TRIETLY,H.L.
ITIA	26	3	900500	425 OYAMA,J.
ESD	19	5	890500	42 TULJAPURKAR,S.
JMET	4	6	801100	285 JACKSON,S.A.
RESC	48	5	770500	524 SCHMIDT-OTT,A.
RAEL	54	7	830700	55 HENRY,T.
ELEC	55	19	820922	157 KRAUS,K.
ETI	7	1	830100	31
ELTO	10	8	860800	35 HANCOCK,N.
ELTO	10	8	860800	38 SHORT,J.
BYTE	7	2	820200	194 REHNKE,E.C.
HAEL	6	1	890100	44
M105	2	4	861200	277 NICHOLS,D.J.
EDN	35	10	900510	150 PEASE,R.A.
M118	36	4	790400	526 DUPZYK,I.A.
ANCH	50	14	781200	2090 WU,A.H.B.
ITIM	36	3	870900	711 IBRAHIM,K.M.
M119	15	5	860500	28 COUGHLAN,I.
M043	9	8	900300	26 WEIDE,D.H.
M100	0	0	890300	11 CARTER,M.

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BYTE	4	9	790900	118 HARRON,B.A.
JOPH	15	1	820100	97 ROBERTS,R.H.
RAEL	55	4	840400	39 WERT,J.A.
RESC	55	11	841100	1785 GOTO,K.
AUAM	15	5	841000	44 AMER,P.J.
WW	88	1555	820400	49 LYNES,H.S.
ANIN	13	2	840200	145 WIKMARK,G.
M114	1	3	890300	9 PLATT,R.
MIMI	10	5	860600	273 CHEN,W.H.
ANCH	52	4	800400	635 DUBEN,A.J.
ELEC	49	23	761111	100 PLATTETER,D.
ELDE	35	3	870205	75 PETERSON,J.
ELEC	51	11	780525	130 RAMPRAKASH,V.
INJO	54	2	830200	365 VASILJEVIC,D.M.
POEL	15	2	790200	80 MIMS,F.M.
ITPE	1	1	860100	55 CHO,B.H.
EDN	33	6	880317	187 MOFFAT,K.
RESC	52	3	810300	347 MITCHELL,A.C.
POEL	7	2	750200	51 MARKY,W.
MEBI	19	6	811100	695 FROLLO,I.
EDN	28	2	830120	27 LEGG,G.
JOCH	62	9	850900	792 ANDERSON,R.J.
73AM	0	269	830200	94 SCHMARDER,D.
ELEC	55	14	820714	152 STOFKA,M.
JOPH	14	3	810300	307 WAYNE,R.P.
80M2	0	72	860100	86 ALFORD,R.C.
POEL	20	5	820500	37 BALL,C.R.
ETI	8	1	840100	65 WALKER,P.
ELTO	11	2	870200	75 WALKER,P.
PHTE	18	1	800100	68 BARRETT,R.P.
RESC	55	9	840900	1495 DURBIN,D.P.
POEL	17	5	800500	103 MIMS,F.M.
POEL	15	6	790600	81 MIMS,F.M.
ETI	7	10	831000	72 BARKER,L.V.
POEL	19	12	811200	106 MIMS,F.M.
MEBI	19	4	810700	517 GEORGE,A.K.
EDN	33	2	880121	208 MCCARTHY,R.
ELDE	27	8	790412	148 MADNI,A.M.
RAEL	52	2	810200	88 REZACHEK,T.
RESC	52	2	810200	306 KUMAR,U.
PE	6	12	891200	70 YOUNG,R.A.
BYTE	9	4	840400	417 ESCOBAR,P.
NIM	188	0	810900	83 SWANSEN,J.E.
NIM	188	0	810900	319 VANKOV,I.D.
INJO	69	3	900900	379 DANESHVAR,K.
ANCH	52	11	800900	1578 SALIN,E.D.
JOMA	84	2	890900	275 DUENSING,G.R.
EEU	1	12	911000	35 GIFFARD,T.
EEU	2	2	911200	62

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ELEN	64	783	820300	32 XIA, Y.
ELWI	92	1599	860100	36 WOODGATE, J.M.
RESC	56	5	850500	691 JOHNSTON, R.G.
QST	62	10	781000	22 ARNOLD, M.
POEL	13	1	780100	45 REESE, R.W.
ITIM	35	4	861200	551 RUSEK, A.
BYTE	6	11	811100	364 CIARCIA, S.
HAEL	5	1	880100	33 FRIEDMAN, H.
JOPH	14	9	810900	1050 EPSTEIN, K.
PE	6	2	890200	33 VOLLONO, V.
RESC	48	12	771200	1678 RODGERS, R.S.
BYTE	4	11	791100	222 DECARO, F.
7ART	0	378	920300	8 KLIMAS, R.
PE	9	8	920800	53 GRAF, R.F.
PE	10	5	930500	61 CALL, W.L.
ELDE	36	27	881208	77 STODIECK, R.
BYTE	3	2	780200	35 BOBER, R.E.
MOEL	5	5	880500	30 LOVELOCK, P.A.
AMJO	52	6	840600	545 LINDGREN, G.E.
ELTO	11	1	870100	30 MARKWICK, B.
JONE	6	3	820900	273 SCHMIDT, E.M.
PHED	21	6	861100	379 WYNN, V. T.
HARA	21	7	880700	78 MARTIN, L.
AMJO	56	10	881000	950 COHEN, H.
RESC	49	2	780200	267 DENBY, E.F.
BYTE	6	6	810600	346 GREEN, M.
NIM	187	0	810800	645 MARANESI, P.
M149	43	2	880200	149 HERBER, R.F.M.
EDN	37	5	920302	142 BOCHEV, V.
RESC	60	10	891000	3343 HOWARD, L.
EWWW	95	1644	891000	1021 STEWART, D.
JOPH	13	2	800200	145 DONNELLY, D.P.
RESC	50	7	790700	805 KATANO, R.
PHED	20	5	850900	226 MCNEILL, D.J.
ITIM	30	1	810300	31 ROEMER, L.E.
QST	61	8	770800	43 DE JONG, M.L.
JOMA	45	2	811100	254 COSGROVE, T.
ELEC	53	8	800410	129 HARIDGE, C.F.
QST	66	2	820200	26 MCINTIRE, G.
ANIN	14	2	850200	169 TABANI, I.
RESC	59	7	880700	1110 MARTIN, F.
RAEL	55	11	841100	70 BUNGARD, N.
RESC	55	9	840900	1467 WAXMAN, M.
HARA	11	1	780100	64 LOUGHMILLER, J.
QEX	0	43	850900	3 DONALSON, D.
AUEL	9	6	760600	19 MILNER, C.J.
BYTE	2	9	770900	112 HELMERS, C.
EWWW	97	1659	910100	29 THEOBALD, S.
ELEC	56	3	830210	152 CREASON, S.

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POEL	11	2	770200	47 PRENSKY,S.D.
JOPH	14	2	810200	215 FAIRBAIRN,S.A.
JOPH	22	10	891000	833 BORGHESANI,A.F.
CODE	20	7	810700	186
MESC	4	4	930400	447 CHELIHI,N.
JOMA	79	1	880800	163 DYKSTRA,R.W.
EDN	29	3	840209	226 LASAROV,G.
WW	89	1569	830600	63 EASSON,D.R.
BYTE	4	1	790100	186 WOODWARD,J.L.
JOPH	16	8	830800	759 ASHFOLD,M.N.R.
TRAS	31	1	880100	264 GILES,D.K.
AMJO	48	1	800100	32 ZYCH,D.A.
POEL	11	4	770400	50 FOX,T.R.
ETI	7	10	831000	29 LEUNG,W.
BYTE	7	9	820900	466 PIUBENI,S.C.
ETI	7	10	831000	72 HARRIS,J.W.
ELWI	92	1598	851200	28 WHITNEY,G.V.
QST	55	12	811200	39 SMITH,W.C.
QST	55	12	811200	42 FISHER,B.
PE	6	7	890700	65 SCHOPP,W.W.
RESC	48	4	770400	483 VANWELSENAERS,A.
PE	7	4	900400	77 YOUNG,R.A.
ETT	14	5	900500	36 GARRISON,S.
EWWW	96	1651	900500	404 LAKSHMINARAYANAN,V
ANCH	50	12	781000	1709 DOERFLER,D.L.
MEBI	20	6	821100	775 CHAMBERS,A.R.M.
PE	9	1	920100	29 IOVINE,J.
M016	26	2	870115	415 DELOMBARD,R.
HAEL	5	12	881200	29 RAY,D.P.
RAEL	51	12	801200	87 SAVAGE,E.
RAEL	60	6	890600	12 FISCHER,G.
NATE	10	5	860900	34 DELOMBARD,R.
LAPR	30	12	811200	1229 MANN,J.D.
MESC	2	8	910800	821 RAUNIAR,K.N.
CQ	40	8	840800	38 MCCOY,L.
AUAM	18	1	870100	26 SMITH,T.
PE	6	9	890900	41 AXELSON,J.
AMJO	51	2	830200	183 DUPUY,D.L.
IJMS	37	0	813700	109 RIDLEY,B.H.
ELEN	56	695	841100	33 TAYLOR,N.K.
HAEL	2	4	850400	32 PATRICK,D.E.
RESC	50	10	791000	1285 LARSEN,J.W.
HARA	20	9	870900	49 CARR,J.
ELSC	10	2	830200	87 LAW,H.T.
RESC	55	4	840400	639 WOODWARD,B.
ELTO	8	10	841000	22 BISHOP,O.
JOAU	30	5	820500	330 CLARK,D.
PE	6	11	891100	84 RAKES,C.D.
EDN	33	4	880218	209 HILTON,C.

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ELLE	24	20	880929	1286 ARORA,R.S.
HARA	22	2	890200	10 LYSTER,C.
RESC	48	3	770300	229 NORRIS,C.B.
APSP	35	3	810500	308 GOODE,S.R.
ELWI	90	1580	840500	54 BALASUBRAMANIAN,K.
QST	68	3	840300	16 O'DELL,P.
MEBI	22	5	840900	411 TAMURA,T.
QST	69	6	850600	40 SCHETGEN,B.
ELTO	11	5	870500	62 GREEN,D.
INJO	68	6	900600	1021 TCHAMOV,N.T.
MEBI	26	4	880700	439 PASSARIELLO,G.
QST	69	2	850200	14 WILLIAMS,F.
CODI	2	1	850100	7 LATHAM,M.W.
RESC	62	11	911100	2666 SKYBA,P.
MEBI	23	5	850900	487 PANDE,V.N.
REW	0	0	840200	22
RAEL	59	5	880500	89 BARBARELLO,J.
7ART	0	375	911200	66 WEISS,V.A.
ELDI	7	1	860000	19 BEDFORD,M.
73AM	0	262	820700	133 STRINGER,W.R.
ELTO	9	8	850800	26 MARKWICK,B.
EWWW	97	1661	910300	234 HUTCHINGS,H.
M041	4	9	841100	57
PE	6	7	890700	86 CARR,J.J.
ELEN	59	730	871000	77 KEATES,A.
ELDE	30	12	820610	191 KLOVSTAD,J.
CICE	1	5	880900	27 LINDGREN,R.
ELDE	32	1	840112	433 FICHTENBAUM,M.L
POEL	20	5	820500	73 COLWELL,R.P.
JOPH	22	3	890300	185 AROCA,C.
RESC	48	3	770300	237 MILLER,M.D.
EDN	36	23	911107	276 DAVIS,D.
EDN	37	11	920521	178 BUXTON,J.
ELEN	62	760	900400	36 MALLINSON,N.
ELDE	38	21	901108	136 WONG,J.
JOPH	21	2	880200	218 BAKER,H.J.
CICE	0	9	890600	50 CANTRELL,T.
RAEL	54	8	830800	92 YOUNG,F.L.,SR.
JOPH	17	6	840600	472 MAPPS,D.J.
ELDE	24	2	760119	84 BAHR,D.
INJO	53	4	821000	381 VELAYUDHAN,C.
M002	13	142	870200	24
PE	6	6	890600	59 CARR,J.J.
RESC	51	6	800600	845 BRITT,C.O.
AMJO	48	9	800900	739 SMITH,D.G.
NIM	192	0	820100	365 BOIE,R.A.
ELEN	62	761	900500	32 ABUELMA'ATTI,M.T.
ITBE	29	6	820600	403 SARIDIS,G.N.
JOAU	39	5	910500	344 FAIRWOOD,R.C.

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PE	9	5	920500	76 CARR,J.J.
EDN	37	18	920903	150 FINNEGAN,T.S.
RAEL	60	5	890500	77 WEBER,D.
RAEL	61	7	900700	31 ORTMAN,R.
NIMA	226	2	841001	369 RANCOITA,P.G.
RESC	60	12	891200	3734 KAWAHATA,K.
EEU	2	2	911200	70 LUCASSEN,R.
RESC	48	12	771200	1645 CHAKRAVARTY,R.K.
EDN	35	25	901206	228 GRENOBLE,B.
ELDE	33	23	851003	125 MOORE,S.
EWWW	96	1651	900500	403 ABUELMA'ATTI,M.T.
M016	22	13	830701	2013 INGERSON,T.E.
ELEN	62	768	901200	59 WATSON,D.
ELNO	63	7	920700	63 MARSTON,R.M.
INJO	62	2	870200	305 MAHMOOD,M.K.
MIMI	14	4	900500	211 WHITMARSH,W.
RESC	53	11	821100	1738 CHAUGHULE,R.S.
IJPA	27	7	890700	366 CHAUGHULE,R.S.
ANIN	13	2	840200	193 VON WANDRUSZKA,R.
ELDE	37	26	891228	63 STEELE,J.
RESC	55	10	841000	1580 KHANNA,V.
HARA	20	8	870800	21 HADORN,U.
EDN	31	6	860320	230 KARAS,M.
ANCH	58	3	860300	517 HE,P.
M016	29	16	900601	2382 DENK,W.
EDN	32	14	870709	266 JACHOWSKI,M.
EDN	33	13	880623	177 SHERMAN,L.H.
ITIM	39	4	900800	658 GONNASON,W.R.
ETT	13	8	890800	14 PENFOLD,R.
ELDE	37	20	890928	75 STEELE,J.
TRAS	30	5	870900	1272 FRAHM,J.R.
ANCH	55	2	830200	320 HU,A.
DIDE	12	2	820200	58 BRUNNER,D.
EEU	2	4	920400	24 BECKER,J.
EWWW	97	1664	910700	603
TCA	15	4	870400	34 ROSS,M.
EVEL	15	11	861100	568 STUART,M.
RAEL	56	6	850600	86 SCOTT,R.F.
WW	89	1567	830400	28 JEFFERSON,I.P.
M026	258	1	920308	33 XIONG,X.
ELEC	50	18	770901	108 MEARS,J.A.
ELEC	55	18	820908	143 PARISE,A.
BYTE	3	2	780200	52 WEBSTER,J.
RAEL	58	1	870100	37 TEMPLIN,T.T.
JOPH	14	3	810300	335 ROGER,G.
JOCH	61	10	841000	935 CACECI,M.S.
ELWI	92	1604	860600	36 OGDEN,F.
ITIM	31	2	820600	140 RAJI,T.I.
QST	68	4	840400	11 MEACHAM,D.D.

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ELTO	8	10	841000	24 FLIND,A.
ELWI	93	1617	870700	702
NIM	211	2	830615	551 BELL,Z.W.
EDN	34	12	890608	208 ORLEY,G.
RESC	60	10	891000	3293 GILLIES,G.T.
RAEL	61	3	900300	71 AVRITCH,S.
SKTE	73	4	870400	439 REDBURN,F.L.
NUIN	179	0	810100	383 COOPER,R.D.
WW	89	1566	830300	69 BORBELY,E.
EWWW	97	1663	910500	441
RESC	63	10	921000	4308 HAMERS,R.J.
EDN	38	20	930920	113 BEER,B.R.
EDN	29	9	840503	229 DUNN,S.
QEX	0	47	860100	3 SMITH,W.C.
EDN	33	12	880609	260 SADOWSKI,M.
ELDE	27	18	790901	78 BINGHAM,D.
EDN	35	12	900607	119 VALENTINE,R.
ELWI	95	1642	890800	814 MARGAN,E.
QST	62	8	780800	28 BIPES,J.
RAEL	51	9	800900	76 AUGUSTINE,J.J.
ELEC	55	3	820210	167 TENNY,R.
POEL	20	5	820500	63 BYERS,T.J.
EDN	30	7	850404	199 PATEL,R.
RFDE	8	6	850600	42 GRANBERG,H.O.
RESC	62	4	910400	1015 FISHBINE,B.H.
EDN	36	15	910718	191 NAGARAJ,M.S.
COCR	2	2	920200	38 FOX,T.
PE	9	7	920700	49
RAEL	58	8	870800	45 ORTMAN,R.
AUAM	15	3	840700	50 GRAVES,R.
PE	6	12	891200	41 SCHULER,C.
M108	21	11	821000	87 BUNNELL,D.
ELMA	21	1	930100	103 GORMAN,S.F.
NIMA	228	2	850101	314 KAWAI,H.
ITIE	35	3	880800	393 LIAW,C.-M.
EVEL	16	2	870200	82 PENFOLD,R.
M103	6	4	870400	259 HUGGINS,W.L.
EWWW	96	1652	900600	532
ITNS	36	1	890200	657 TANIGUCHI,T.
EWWW	97	1662	910400	331 NAGARAJ,M.S.
ELEN	57	697	850100	61 SHERMAN,L.
AUAM	20	4	891000	8 ALLGAIER,J.
HARA	23	1	900100	70 TIEMEYER,C.
EDN	27	20	821013	179 MAJESTIC,R.A.
ELDE	30	19	820916	89 MURAMATSU,J.
TRAS	26	3	830500	898 MITCHELL,B.W.
RESC	53	10	821000	1606 CORSON,M.R.
JONE	11	3	840800	159 SCHMID,K.
AUAM	19	4	881000	19 ALLGAIER,J.,JR.

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AMJO	58	11	901100	1059 BARR,R.
RAEL	54	1	830100	39 MCLELLAN,G.
ELDE	29	6	810319	265 BABILYA,C.
ELEC	56	23	831117	131 ZARVEL,R.
HAEL	3	1	860100	23 SCHOPP,W.
ELEC	50	5	770303	104 ALLEN,W.
MEBI	23	6	851100	607 BUNDY,K.
EDN	31	17	860821	186 PAUL,C.
EDN	29	11	840531	185 CASTLEBERRY,R.
M118	36	5	790500	642 BOIVIN,W.S.
NUIN	146	0	771000	569 WADDOUP,W.D.
JONE	26	3	890100	239 WHEELER,B.C.
M002	17	190	910600	43 GIFFARD,T.
SICH	4	10	911000	60 CLARKE,J.
RESC	63	2	920200	1783 MATSUMURA,S.
EDN	34	13	890622	236 GELLON,H.
ELDE	38	2	900125	57 SYLVAN,J.
COCR	2	11	921100	49 GOSS,N.
PE	10	1	930100	37 GAFFIGAN,R.J.,JR.
EDN	31	6	860320	233 GILBERT,B.
EDN	30	19	850822	175 KITCHIN,C.
JOPH	17	12	841200	1142 REYMANN,D.
HAEL	3	2	860300	57 GIFFORD,J.D.
ELDE	32	18	840906	191 MOORE,S.
RESC	55	11	841100	1797 TURNER,R.D.
ELDE	36	13	880609	128 HUTTON,S.
JOPH	13	7	800700	763 REES,D.
ELDE	39	3	910214	102 WYATT,M.A.
EWWW	98	1681	921200	1048 MARGAN,E.
EDN	31	16	860807	117 TRAVIS,B.
NIMA	226	2	841001	487 NIRSCHL,J.C.
EDN	35	25	901206	220 RAMAN,A.
EDN	37	19	920917	143 GALFY,L.
JONE	15	1	851000	73 MEWES,K.
RESC	51	1	800100	146 GREENWOOD,G.J.
INJO	68	2	900200	241 NOONAN,J.P.
ELDE	39	11	910613	89 GROSHONG,R.
JOPH	19	2	860200	125 TANARRO,I.
ELLE	27	23	911107	2172 BRUUN,E.
MEBI	19	3	810500	316 SACHS,F.
TRAS	27	1	840100	201 MITCHELL,B.W.
MIRF	27	2	880200	127 TAHERI,B.A.
MOEL	5	12	881200	38 FISCHER,C.R.
RESC	60	7	890700	1267 GOLDSTEIN,S.R.
ELEC	49	12	760610	122 RAAB,F.H.
QST	62	10	781000	25 SANDERSON,B.
EDN	30	2	850124	191 KARSTAD,K.
M160	48	3	800300	567 GIBSON,R.D.
RESC	64	5	930500	1239 ALTMAN,E.I.

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EWWW	97	1663	910500	422 HEGGLUN,I.
HARA	15	6	820600	64 BLOOM,R.E.
PHED	23	3	880500	192 JARVIS,W.H.
RESC	51	10	801000	1418 SCHOLL,F.W.
ITBE	34	4	870400	310 JENSEN,D.J.
7ART	0	367	910400	72 HOUGHTON,C.L.
ETT	12	12	881200	58 PENFOLD,R.
POEL	13	5	780500	41 LAWRENCE,L.G.
EDN	30	12	850530	281 PAUL,C.
M007	21	1	870100	32 FIORE,J.
CLEN	14	1	890100	63 MCGOVERN,T.F.
ITIM	29	4	801200	435 ABDUL-KARIM,M.A.H.
EWWW	95	1646	891200	1163
RAEL	54	3	830300	90 SCOTT,R.F.
M064	8	3	860700	268 PERKINS,T.A.
RAEL	58	4	870400	8
IJPA	27	9	890900	567 VIJAYARAGHAVAN,P.R
POEL	13	5	780500	61 CARR,J.
RESC	60	9	890900	2937 CORREIA,C.
PE	6	2	890200	67 DAVIDSON,H.L.
MEBI	26	1	880100	75 GOOVAERTS,H.G.
PE	6	3	890300	22 WELS,B.G.
MEBI	18	5	800900	633 FILSHIE,J.H.
ANIN	13	2	840200	117 WU,M.-L.W.
INJO	57	1	840700	179 HAFETH,B.A.
INJO	57	5	841100	755 HAFETH,B.A.
ELCI	135	2	880400	58 CICHOCKI,A.
RESC	49	8	780800	1046 BLALOCK,T.V.
NIMA	277	2	890501	587 BOSE,S.
ELLE	17	19	810917	695 BICKERS,L.
AUAM	21	4	901000	18 CHATER,W.
QST	66	1	820100	38 COLLINS,G.
RFDE	10	10	871000	50 WILLIAMS,R.A.
QST	67	12	831200	41 PARMLEY,B.
M040	25	1	860100	1 FERRIS,C.D.
JOPH	20	8	870800	1041 CODAZZI,D.
ELWI	90	1586	841200	78 RUSH,J.
RESC	54	11	831100	1575 OTTERLOO,B.F.
AUAM	20	4	891000	22 O'BRIEN,T.
NIMA	265	1	880301	69 WALENTA,A.H.
AMJO	53	11	851100	1112 GRONSETH,P.W.
ITBE	34	4	870400	307 SMIT,H.W.
73AM	0	347	890800	49 HOUGHTON,C.L.
INJO	57	5	841100	745 HAFETH,B.A.
EDN	33	8	880414	227 DEAN,J.
EDN	31	11	860529	149 SHERMAN,L.
ITNS	37	2	900400	457 LLACER,J.
RESC	56	3	850300	480 SAWADA,A.
COCH	8	2	840200	133 DORIN,R.

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RAEL	49	6	780600	92 SAVON,K.
ELDE	34	21	860911	157 SHERWIN,J.
NIMA	219	2	840115	284 WESTERFELDT,C.R.
RAEL	62	1	910100	41 CARISTI,A.J.
ELDE	30	9	820429	218 RUBIN,S.
EDN	38	20	930930	117 WALSH,M.
POEL	19	4	810400	57 BLOCK,A.F.
IJMS	70	1	860528	109 SENSHARMA,D.K.
ELTO	10	6	860600	26 MARKWICK,B.
73AM	0	262	820700	52 WINDOLPH,M.
ELEC	49	13	760624	119 SUTPHEN,S.
ITNS	36	1	890200	813 ATIYA,M.
RFDE	14	4	910400	40 HACK,T.
EDN	37	13	920618	61 SWAGER,A.W.
AMJO	49	6	810600	599 EDMUNDS,D.L.
HAEL	5	10	881000	63
MOEL	6	1	890100	60 MANGIERI,A.A.
AUAM	19	1	880200	19 MASTEL,V.L.
ELDE	38	3	900208	105 YATES,D.
M029	21	6	880600	515 TURNER-SMITH,A.R.
APSP	35	6	811100	531 HIEFTJE,G.M.
EWWW	97	1676	920700	575 RYDER,A.D.
EEU	2	9	920700	64 SANJAY,C.
CICE	0	25	920200	66 KRAUSE,B.
ELDE	37	16	890727	71 GROSS,W.H.
MADE	59	15	870625	58
ITIE	36	4	891100	499 VASILJEVIC,D.M.
RAEL	55	5	840500	47 VAN PRAAG,P.M.
ELTO	10	4	860400	49 ARMSTRONG,A.
EDN	36	12	910606	180 DOCTORS,R.
RESC	62	6	910600	1475 ALMEIDA,F.J.D.
RESC	63	10	921000	4251 QUINE,R.W.
ITCE	27	1	810200	47 GROSJEAN,J.P.
EDN	33	2	880121	211 FITZPATRICK,J.
ELDE	37	1	890112	135 FAUST,A.R.
ELWI	93	1614	870400	408 BAINES,R.
EDN	28	13	830623	288 BYERS,T.J.
RESC	60	9	890900	2896 CAFFERTY,M.S.
ETT	13	11	891100	14 KNIGHT,S.
EDN	35	11	900524	173 HAGEMAN,S.C.
PE	7	12	901200	79 ELLIS,M.
TRAS	26	4	830700	996 RIETHMULLER,G.P.
7ART	0	366	910300	73 HOUGHTON,C.L.
QST	66	5	820500	15 GEISER,D.T.
MEBI	20	4	820700	512 WILSON,A.J.
RAEL	58	9	870900	32 KANE,P.L.
EDN	29	5	840308	197 CHENG,F.
ITBE	35	4	880400	264 STEADMAN,B.W.
73AM	0	339	881200	27 SPIES,K.

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HARA	22	3	890300	42 CLONINGER,W.C.,JR.
ANCH	53	9	810800	1512 MCCARTHY,J.P.
ELWI	92	1606	860900	42 DE SA,A.
PE	6	3	890300	82 RAKES,C.D.
M102	46	1	840100	62 WARD,J.F.
M107	27	10	851000	66 GILES,M.
ELDE	34	20	860904	133 CROSBY,B.C.
POEL	18	1	800700	93 MIMS,F.M.
ELEC	56	2	830127	115 CHENG,F.
ELDE	30	16	820805	75 ALLAN,R.
QST	69	4	850400	23 EVANS,J.
RAEL	57	3	860300	8
POEL	10	5	761100	57 ROEHL,A.
HAEL	4	9	870900	65 MCCLURE,D.C.
RAEL	53	2	820200	57 RIGSBY,M.
HAEL	4	12	871200	73
ITIM	37	2	880600	318 LU,J.
CODE	24	16	851115	86 LAMB,K.
MOEL	6	3	890300	35 MCGLINCHY,M.
RAEL	60	4	890400	59 SECURA,R.D.
RAEL	60	3	890300	51 ROSS,L.K.
JOCH	61	12	841200	1108 HOLEWINSKI,P.K.
ELEN	61	751	890700	21 VYROUBAL,D.
MOEL	7	10	901000	51 MIMS,F.M.,III
RFDE	13	12	901100	85 ENGLISH,J.D.
7ART	0	383	920800	36 MILLER,E.C.
RFDE	15	6	920600	69 RAISER,J.E.
RCM	30	5	930500	214 KUNZ,M.
BYTE	8	6	830600	395 LILJA,D.J.
EDN	29	24	841129	234 BURTON,P.
ETT	12	9	880900	39 CALAMVOKIS,C.
RAEL	59	12	881200	80 WARD,D.A.
POEL	17	3	800300	36 ROSCH,W.L.
ELTO	10	5	860500	21 WRIGHT,H.
QST	69	3	850300	44 LYON,T.L.
EDN	31	24	861127	241 COHEN,I.
M064	13	2	910300	91 PHILLIPS,C.A.
RAEL	56	6	850600	39 TRIETLY,H.L.
NIM	215	3	831001	361 JONKER,M.
ELDE	37	25	891214	63 RAHIM,Z.
M047	3	4	890700	49 DAHIYA,J.N.
MADE	62	1	900111	138 RAPPAPORT,T.S.
ANCH	62	13	900701	1331 HE,P.
7ART	0	384	920900	36 WELLS,H.
ETI	5	8	810800	41
PE	6	4	890400	82 RAKES,C.D.
QST	61	8	770800	36 WATTS,C.R.
HARA	15	2	820200	57 WEISS,G.
73AM	0	362	901100	34 LUCAS,R.

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INJO	63	1	870700	105 WILSON,K.J.
PE	6	9	890900	37 AXELSON,J.
ELTO	10	11	861100	11 WRIGHT,H.
ELEC	57	3	840209	106 NEWMAN,E.
MEIN	18	2	840300	134 BISERA,J.
ELEN	59	726	870600	26 TAN,B.
ITIM	36	3	870900	725 POOKAIYAUDOM,S.
MADE	58	23	861009	97 BAHNIUK,D.
MBE	14	5	760900	501 CELLER,B.G.
M064	14	2	920300	159 ZHANG,K.
M197	3	1	930200	2 KAUFMAN,H.J.
MIRF	26	10	870900	213 ZABEL,K.C.
NIM	188	0	810900	389 BLAKE,P.R.
ANCH	54	2	820200	239 PELLETIER,M.J.
ELDE	28	16	800802	102 TANG,T.G.
ELDE	28	26	801220	102 NELSON,C.R.
JOPH	19	11	861100	953 TINGE,J.T.
BYTE	6	7	810700	368 MACDONALD,D.
ELTO	9	6	850600	53 BRADSHAW,D.
RESC	49	5	780500	674 HAMILTON,C.A.
AMJO	57	11	891100	1049 TAYLOR,B.E.
AUAM	24	2	930600	8 DOOLING,T.
ELDE	31	15	830721	195 KARMARKAR,V.V.
EWWW	96	1650	900400	303 QING,H.Y.
BYTE	3	5	780500	92 MOSELEY,R.C.
CHBI	12	1	820100	15 GIBLIN,D.
JOPH	21	3	880300	251 HUANG,S.M.
73AM	0	274	830700	82 HARLECK,N.G.
M105	4	2	880400	271 PORTER,C.D.
RAEL	57	10	861000	54 O'BRIAN,P.
POEL	19	4	810400	83 MIMS,F.M.
ELEN	56	686	840200	36 SHARE,J.A.
JOPH	14	5	810500	579 BAKER,H.J.
PE	7	8	900800	22 WELS,B.G.
INJO	70	6	910600	1155 HADLEY,I.C.D.
RAEL	55	12	841200	43 METZ,R.
ETI	8	4	840400	14 JONES,K.
COEL	21	3	830300	114 MIMS,F.M.
HAEL	3	3	860500	62 RAKES,C.D.
ELWI	93	1616	870600	604 BARNETT,T.G.
RESC	51	9	800900	1272 PANG,C.S.
PE	6	7	890700	32 SCHOPP,W.W.
RFDE	12	9	890900	35 CARR,A.R.
MIRF	30	5	910500	181 PALLADINO,G.J.
ITCE	37	4	911100	897 XIA,J.S.
POEL	14	1	780700	55 CHEAIRS,L.S.
POEL	11	3	770300	39 RANDIG,G.W.
POEL	11	6	770600	53 STITT,R.M.
ELDE	26	24	781122	168 STEHNEY,T.

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RAEL	55	1	840100	10 JONES,L.J.
ELEC	50	13	770623	135 ROGERS,T.
NUIN	169	0	800200	97 MITSUI,K.
TRAS	23	1	800100	144 STERMER,R.A.
ELEC	53	11	800508	136 LYNGSIE,M.G.
JOPH	20	6	870600	634 LUPOTTO,P.
RAEL	58	12	871200	15
HARA	14	6	810600	28 SMITH,W.
RAEL	54	8	830800	98 GROSSBLATT,R.
PE	10	9	930900	45 TARCHINSKI,J.E.
POEL	10	2	760800	46 LEWART,C.R.
PE	9	8	920800	49
ELEC	50	24	771124	130 NAIR,V.V.
ELTO	10	8	860800	18 HORSEY,M.P.
ELWI	92	1606	860800	58 TACCA,H.
JEMT	7	4	830700	194 GRAY,W.M.
JOPH	13	3	800300	294 FRIEND,R.H.
RESC	53	5	820500	712 YANOWSKI,E.
RAEL	54	2	830200	57 MCLELLAN,G.
RESC	51	1	800100	49 GOTO,K.
RAEL	62	12	911200	75 GROSSBLATT,R.
RAEL	55	3	840300	63 MARSTON,R.
POEL	16	4	791000	86 GARNER,L.
RESC	55	12	841200	1973 CARSON,R.D.
PE	7	2	900200	23 WELS,B.G.
PE	7	3	900300	84 RAKES,C.D.
CQ	42	7	860700	66 INGRAM,D.
ELWI	93	1619	870900	908 MICHELE,F.
EDN	35	9	900426	191 GRAEME,J.
EDN	38	8	930415	195 MAASPURO,M.
QST	61	6	770600	23 DEMAW,D.
RESC	58	9	870900	1749 WEISSFLOCH,P.
ITIM	36	3	870900	717 COFFIELD,F.E.
RESC	51	11	801100	1571 BULLIARD,A.
NIMA	293	3	900815	623 KAUL,I.K.
ELDE	38	15	900809	105 GUY,J.
EDN	32	3	870205	188 STOCCHINO,G.
CHBI	12	2	820200	113 CRANEY,C.L.
RESC	64	7	930700	1803 DUBEST,R.
APSP	39	1	850100	101 UCHIDA,T.
ELDE	34	3	860206	115 OZDALGA,C.
ELDE	38	17	900913	93 MICHELE,F.
NIMA	324	1	930101	198 VOGT,J.M.
ANIN	18	1	890100	37 RAMALEY,L.
RESC	56	7	850700	1413 HILL,K.D.
PHED	22	26	871100	384 KIRKUP,L.
EDN	35	20	901001	127 RUGGIERO,F.
RESC	54	1	830100	76 BROER,M.M.
BYTE	9	12	841100	110 CIARCIA,S.

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EDN	31	3	860206	45 FLEMING,T.
NIMA	264	2	880215	263 WILSON,S.L.
M087	33	4	911100	275 STUCHLY,M.A.
RAEL	60	7	890700	57 MCCLELLAN,G.
M104	18	5	910900	900 HASEGAWA,B.H.
RAEL	60	6	890600	45 GRAF,R.F.
ELTO	8	9	840900	19
ITNS	33	1	860200	643 LO,C.C.
ELEN	56	688	840400	34 STOCCHINO,G.
ELTO	8	6	840600	67 TEESDALE,G.
MIRF	26	12	871100	77 GRANBERG,H.O.
POEL	20	7	820700	90 MIMS,F.M.
QST	61	10	771000	33 DEMAW,D.
ELEC	55	13	820630	118 MOLINE,D.
ELWI	93	1613	870300	337 BISSMIRE,P.
POEL	19	1	810100	99 MIMS,F.M.
RFDE	12	2	890200	54 KOREN,V.
ITBE	33	9	860900	887 CHEN,S.
AMJO	47	12	791200	1103 KANG,C.S.
RESC	57	12	861200	3110 HATSUZAWA,T.
ITNS	33	3	860600	1071 KANAYA,N.
ELDE	37	18	890824	63 FREEMAN,W.
INJO	65	1	880700	127 HINCHLIFFE,S.
M020	29	12	891200	1156 LANCHESTER,P.C.
PE	7	11	901100	61 BLECHMAN,F.
EWWW	97	1675	920600	454 HEFLEY,A.
QST	63	11	791100	38 HUDIBURG,H.
EWWW	96	1656	901000	900
M142	38	5	910900	510 EBBINI,E.S.
EWWW	99	1683	930200	126 HICKMAN,I.
PE	7	4	900400	39 GIAMPORTONE,M.
DIDE	12	4	820400	70 ANDERSON,G.J.
ELDE	36	23	881013	57 TILL,J.
MIRF	23	9	840900	131 DOUGHERTY,R.M.
EDN	31	25	861211	280 INKOL,R.J.
EDN	30	10	850502	87 TRAVIS,B.
EDN	36	11	910523	168 WILLIAMS,J.
ELEN	64	785	920500	30 O'DELL,T.H.
INJO	65	1	880700	81 ATANASOV,R.D.
EDN	36	16	910805	162 LEE,M.
PHED	23	4	880700	230 LAMBERT,A.
AUAM	21	2	900400	47 GALO,G.
EDN	34	7	890330	200 WILLIAMS,J.
ELDE	30	12	820610	233 WRATHALL,R.S.
ELEC	55	7	820407	136 SALADIN,H.
EDN	30	10	850502	163 WILLIAMS,J.
RESC	55	2	840200	204 JONES,L.M.
EDN	34	17	890817	151 WILLIAMS,J.
ELDE	41	3	930204	71 PIETKIEWICZ,S.

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ELDE	35	20	870903	131 REDFERN,T.P.
ELDE	37	5	890309	90 JUNG,W.
ELWI	93	1619	870900	908 MICHELE,F.
JOPH	18	1	850100	74 MCROBBIE,D.
RFDE	6	6	831100	32 ZAVREL,B.
ITIM	39	2	900400	399 LIN,C.E.
JOMA	66	3	860215	445 MAPLE,S.R.
80M1	0	29	820500	106 ROBINS,M.
MEBI	20	2	820300	245 MAAS,A.J.J.
QST	65	8	810800	27 RICAUD,G.
EDN	29	5	840308	242 WILLIAMS,J.
EDN	28	13	830623	255 MATTHYS,R.J.
ITIE	34	4	871100	471 EL-BOLOK,H.M.
ELDE	38	4	900222	117 WOODBURN,D.
JOPH	14	7	810700	822 TORAL,H.
INJO	52	3	820300	263 MAYER,A.
ITNS	36	5	891000	1654 HUCKINS,R.J.
MISY	4	12	831200	134 KIBLER,B.
RAEL	51	9	800900	78 SAVAGE,E.
M068	18	5	880500	156 BIRKETT,D.S.
M011	23	3	861200	309 HOF,D.
INJO	57	1	840700	85 HASAN,M.Q.
JOPH	19	10	861000	815 BARRY,M.D.
RAEL	60	7	890700	66 LANCASTER,D.
EEU	2	2	911200	37 BAREFORD,J.
73AM	0	259	820400	10 CIKAS,A.
CQ	46	3	900300	76 INGRAM,D.
RAEL	57	12	861200	86 GROSSBLATT,R.
RAEL	63	2	920200	88 GROSSBLATT,R.
PE	10	6	930600	62 MARSTON,R.
PHTE	28	3	900300	160 RIBAUD,L.
QST	70	1	860100	25 QUAY,W.E.
M002	13	146	870600	21
68MI	4	12	821200	18 KELTY,J.R.
EDN	29	3	840209	181 SMITH,M.
EDN	37	12	920604	146 TOMASZ,M.
HARA	23	1	900100	14 ROEHM,A.A.
ELDE	41	14	930708	81 PEASE,R.A.
ELDE	36	21	880922	97 SHERMAN,L.
QST	65	6	810600	18 WOODSON,C.
POEL	17	6	800600	72 PUCCETTI,F.
IJPA	25	1	870100	25 MEHER,E.L.R.
ITCS	34	4	870400	431 HE,J.-S.
ITCS	33	11	861100	1143 MATSUMOTO,T.
RAEL	53	11	821100	43 MCLELLAN,G.
MESC	1	10	901000	1087 GULER,I.
ELEN	58	714	860600	35 ROWLAND,J.H.A.
RFDE	15	3	920300	109 ROBERTSON,R.
ELWI	90	1578	840300	40 VANDEWEGE,J.

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M137	10	6	891100	10 LIN,J.
QST	69	1	850100	42 SCHELLENBACH,R.
73AM	0	292	850100	57 JACK,L.
ELTO	8	6	840600	14
ELDE	36	20	880908	91 RUSS,T.
ITPE	5	3	900700	253 MARANESI,P.G.
RFDE	11	1	880100	44 SYLVAN,J.
RESC	48	3	770300	282 SMITH,G.E.
ELDE	28	19	800913	146 DELLAMANO,H.A.
RESC	63	4	920400	2268 MUCK,M.
M042	1	1	890100	33 MACLEAN,D.J.H.
RFDE	13	4	900400	29 PITALIS,O.
NIMA	248	2	860801	337 ALBERGANTI,R.
ELEN	58	709	860100	63 MCGEE,D.
EDN	31	7	860403	139 LACANETTE,K.
PE	6	8	890800	37
M046	14	9	880900	105 RIDLEY,R.B.
ELDE	36	3	880204	75 WALSH,K.
ELCI	133	4	860800	216 PAPADAKIS,J.A.
JOPH	17	5	840500	368 SANTA,I.
PE	7	6	900600	31 FLYNN,B.
EDN	36	23	911107	278 JONES,H.T.
MEBI	25	6	871100	672 BARNETT,T.G.
MOEL	5	11	881100	66 HELMS,H.L.
EWWW	97	1675	920600	461 AL-HASHIMI,B.
ELWI	93	1601	860300	58 HOOD,J.L.L.
AUAM	15	5	841000	25 PETERS,G.
RESC	59	5	880500	700 MILLER,G.
ELDE	29	5	810305	123 WILLIAMS,J.
73AM	0	358	900700	26 NEELEY,J.
RAEL	52	2	810200	68 CATALDO,J.T.
TRAS	27	1	840100	105 MACVICAR,T.K.
ELDE	41	6	930318	35 GOODENOUGH,F.
MOEL	5	11	881100	44 CARISTI,A.J.
ELDE	30	15	820722	165 HU,D.K.
TRAS	27	4	840700	1245 SEYMOUR,S.K.
QST	62	10	781000	34 LEWALLEN,R.W.
ETI	5	8	810800	35
POEL	19	9	810900	61 MCLELLAN,G.
ELDE	39	16	910822	108 WYATT,M.A.
RAEL	55	9	840900	67 MARSTON,R.M.
RAEL	56	4	850400	63 FOX,T.
EDN	35	22	901025	183 STITT,R.M.
EDN	35	19	900917	167 SMITH,D.
ITPE	4	1	890100	124 KAZIMIERCZUK,M.K.
RFDE	14	6	910600	27 LEE,M.
JMET	15	2	910300	84 DONALDSON,P.E.K.
EWWW	95	1645	891100	1078
ELDE	39	7	910411	99 WILLIAMS,J.

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ELDE	38	12	900628	85 MARKELL,R.
JMET	11	1	870100	23 DONALSON,P.E.K.
ELDE	40	13	920625	70 TOMASZ,M.
M056	8	10	900600	72 SANDERS,B.
ELDE	39	17	910912	144 CUTHBERT,D.
ELWI	92	1606	860900	63
RAEL	57	10	861000	89 SCOTT,R.F.
DIDE	14	8	840800	112 WEBB,M.K.
TRAS	26	6	831100	1849 BUCKLEY,D.J.
ELDE	38	12	900628	105 BURSKY,D.
ELWI	91	1593	850900	56 MITRA,S.
68MI	5	6	830600	10 ANDERSON,R.W.
ETI	6	9	820900	68
ELDE	38	8	900426	108 LACANETTE,K.
LAMI	5	1	860100	4 MALCOLME-LAWES,
QST	63	11	791100	30 DEMAW,D.
BYTE	7	11	821100	78 CIARCIA,S.
HAEL	5	11	881100	29 EMERSON,J.
RAEL	51	12	801200	63 BLECHMAN,F.
COEL	20	11	821100	76 SVOBODA,L.
SKTE	69	4	850400	361 JOHNSON,B.
MEBI	19	6	811100	775 GILTVEDT,J.
JOPH	20	3	870300	254 KAUSHIK,D.K.
RAEL	54	9	830900	43 GROSSBLATT,R.
ELWI	90	1579	840400	26 HEYES,T.
POEL	18	4	801000	8 JOHNSTON,E.
RAEL	52	8	810800	72 LANDRETH,T.
73AM	0	359	900800	84 HOUGHTON,C.L.
EEU	2	2	911200	45 MIESLINGER,C.
MIMI	12	9	881100	532 NATARAJAN,K.S.
MEBI	20	5	820900	648 EVANS,M.H.
RESC	56	2	850200	211 BRANBERG,A.
ELEC	50	5	770303	105 POSTLEWAIT,B.
RAEL	58	4	870400	50 MARSTON,R.
MIAP	8	2	850400	145 GIBSON,J.R.
MEBI	24	4	860700	386 WEBBER,W.R.S.
EDN	36	17	910819	156 KOHL,D.A.
ITNS	35	1	880200	726 LEWELLEN,T.K.
AUAM	19	2	880500	56 MILLARD,J.
AUAM	16	1	850100	25 GALO,G.
CQ	41	11	851100	22 HOUGHTON,C.L.
M003	7	6	870500	37 BOLBACH,T.
CODE	21	3	820300	91 MADAN,P.
BIJO	55	4	890400	663 RAKOWSKI,R.F.
MEBI	23	1	850100	90 CAMPBELL,J.A.
RESC	53	1	820100	106 ERDMAN,P.W.
ITNS	32	1	850200	95 PIERCE,W.B.
BYTE	15	13	901200	313 LINDERHOLM,O.
HAEL	4	10	871000	37

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M080	25	260	880800	70 SAKAGAKI,S.
ELWI	91	1592	850600	31 POTTER,D.H.
CODE	20	9	810900	42
ELDE	39	14	910725	132 SALVATI,M.J.
LAPR	32	7	830700	78 FAITHFULL,N.T.
ITNS	33	1	860200	950 TAKEUCHI,S.
ITIA	26	6	901100	976 LAI,K.-C.
73AM	0	262	820700	18 CLOWER,P.
ELEN	65	793	930100	30 GANESAN,S.
RESC	49	3	780300	406 DUNDON,J.M.
SOSE	1	8	850300	36 DOMINGUES,J.S.
ELTO	8	12	841200	55 PENFOLD,R.A.
ELEN	61	748	890400	34 VERMASVUORI,J.
73AM	0	308	860500	54 MILLER,T.M.
CODE	21	11	821100	79 DAVIDSON,M.
ELEC	55	23	821117	146 STERN,D.
HAEL	2	6	851100	83 FRENZEL,L.E.
QST	62	11	781100	33 SMITH,W.C.
AMJO	44	8	760800	803 GREGSON,P.H.
RESC	52	1	810100	133 UPTON,S.R.
NUIN	166	0	791100	351 GUZIK,Z.
POEL	16	3	790900	102 MIMS,F.M.
ITIM	34	1	850300	78 ARINGTON,M.L.
QST	67	10	831000	30 HILDRETH,D.E.
POEL	19	7	810700	55 SOLOMON,L.
POEL	11	2	770200	75 MIMS,F.M.
ELEC	50	12	770609	136 MIKAMI,Y.
HAEL	4	6	870600	37
AMJO	56	7	880700	664 AGHDAIE,B.
ELDE	37	20	890928	93 URSOLEO,R.
ELEN	62	757	900100	33 YORK,R.W.
ELEN	62	762	900600	26 CLARKE,D.
RESC	48	10	771000	1354 ARNOW,M.
EEU	1	11	910900	42 SWARTZENDRUBER,M.
ELDE	28	23	801108	158 DARJANY,J.
NIMA	14	3	920510	563 ANTONIAZZI,L.
ELNO	64	7	930700	61 COOKE,J.
ELDE	40	6	920319	80 DUNN,J.
RAEL	55	1	840100	51 PIGGOT,K.
INJO	62	3	870300	411 BIRCA-GALATEANU,S.
RESC	58	9	870900	1755 KONDO,K.
IEEA	137	4	900700	193 ZENG,X.M.
ANCH	58	12	861000	2466 AYALA,N.P.
JOCH	61	12	841200	1110 SCHEELINE,A.
ELDE	39	24	911219	83 HO,C.
EDN	37	4	920217	158 SALVATI,M.J.
ELDE	40	17	920820	66 DOUGLAS,P.N.
INJO	63	5	871100	669 ABUELMA'ATTI,M.T.
ANIN	14	1	850100	97 GLASS,A.S.

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IEEP	126	9	790900	849 FANTOM,A.E.
ELWI	92	1606	860900	42 JEFFERY,J.
COPR	21	5	810900	24 CARR,J.J.
ETT	13	2	890200	42 CHAPPELL,P.
RESC	48	6	770600	656 CONWAY,J.L.
ELEN	57	700	850400	21
ELTE	3	6	800600	30 MEGILL,N.D.
ITCS	33	10	861000	1012 CZARNUL,Z.
MBE	14	6	761100	665 CHAMBERS,A.R.M.
ELEC	50	7	770331	107 HECKT,N.
ELDE	34	27	861120	62 HEFTMAN,G.
73AM	0	266	821100	104 DONALDSON,J.R.
ELWI	89	1574	831100	62 KUIPER,J.H.
MOEL	6	2	890200	58 SWARTZENDRUBER,M.
M110	3	3	880500	257 BRENCI,M.
MEBI	22	5	840900	458 VERMARIEN,H.
QST	69	6	850600	19 NEGORO,K.
RESC	56	7	850700	1313 WOLFF,E.G.
POEL	16	4	791000	113 MIMS,F.M.
PE	6	10	891000	74 STEPHENS,J.
PE	9	3	920300	59 YACONO,J.
PE	9	7	920700	41 IOVINE,J.
7ART	0	386	921100	12 GRONSON,G.F.
QST	70	2	860200	27 MURPHY,G.
HAEL	4	1	870100	28 WELS,B.G.
HAEL	3	7	861200	42
MESC	1	7	900700	659 SHAHEEN,N.M.
ELDE	28	19	800913	143 MINTZ,G.D.
ETI	4	5	800700	11 ORR,T.
RAEL	60	12	891200	37 IANNINI,R.
QST	72	9	880900	45 LOSCH,F.D.
73AM	0	347	890800	72 BRYCE,M.
M192	23	3	920300	197 TRIPATHY,S.C.
ITBE	34	6	870600	415 BONNEAU,G.
HARA	21	3	880300	29 DRENTEA,C.
73AM	0	350	891100	18 COLE,R.A.
APSP	39	2	850300	214 HIEFTJE,G.M.
RAEL	55	1	840100	77 HOROWITZ,M.
POEL	13	5	780500	48 GOODPASTURE,R.
HARA	14	8	810800	25 OLSON,H.
RAEL	60	2	890200	71 MARSTON,R.
CODE	20	12	811200	183 SHARP,S.A.
RESC	48	9	770900	1192 COLLEY,S.
COPR	21	4	810700	43 BARBARELLO,J.
PE	9	8	920800	72 RAKES,C.D.
MIMI	9	2	850300	65 PEGLER,S.
73AM	0	308	860500	32 OLSZEWSKI,D.
HAEL	3	1	860100	94 FRIEDMAN,H.
JOPH	17	2	840200	127 MARAZOV,O.

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POEL	15	3	790300	35 STEBER,G.
ITNS	38	2	910400	348 HOEFLICH,J.
HARA	20	6	870600	75 REISERT,J.
IJEE	22	3	850700	197 O'CONNOR,B.
REW	0	0	840200	65 LOCKE,D.R.
RAEL	49	6	780600	69 BLECHMAN,F.
ELEN	62	764	900800	18 SHKARUPIN,V.
SKTE	77	5	890500	554 TARDIF,A.
RESC	56	12	851200	2259 WATANABE,A.
EUJO	6	1	850100	13 POPE,P.N.
ELDE	36	3	880204	107 SALERNO,C.
RAEL	62	2	910200	43 WANNAMAHER,J.
EDN	32	23	871112	294 GRADY,G.
RESC	51	9	800900	1159 SCHOENBERG,K.F.
ANCH	52	14	801200	2290 FRALEY,D.F.
EWWW	97	1670	920100	14 NOBLE,R.
RAEL	60	4	890400	25 LANCASTER,D.
ELEN	64	789	920900	34 TOMASZ,M.
EDN	35	13	900621	266 SHERMAN,L.
POEL	10	6	761200	37 COLMAN,R.
ETI	6	9	820900	42
POEL	14	5	781100	106 BARBARELLO,J.
EDN	35	12	900607	136 DOLUCA,T.
NUIN	169	0	800200	89 LEMKE,H.D.
ITBE	38	1	910100	68 BLUM,N.A.
JOCH	62	7	850700	613 SALVADOR,F.
ELEC	55	20	821006	110 TOCCI,C.S.
EDN	36	14	910704	166 DARLING,T.F.
EDN	33	4	880218	240 JENKINS,A.
RESC	63	5	920500	2932 TRAN,C.D.
RAEL	61	12	901200	67 LANCASTER,D.
M191	151	8	901224	412 MURALI,K.
INJO	72	1	920100	151 FILANOVSKY,I.M.
ITMA	24	6	881100	3217 LING,P.C.Y.
ELDE	32	25	841213	233 CISZEWSKI,K.J.
ELDE	33	16	850711	137 MOUTON,A.
MEBI	26	2	880300	207 WOOD,R.G.
ITIE	37	2	900400	156 EL-BOLEK,H.M.
ELDE	31	6	830317	183 URSOLEO,R.J.
JONE	37	2	910400	169 YEN,C.-T.
ELDE	28	20	800927	85 BROWN,L.
ANCH	53	2	810200	377 BUCHANAN,E.B.,JR.
ELWI	93	1607	861000	22 GARDENER,N.
QST	68	1	840100	17 NAFZIGER,S.
REW	0	0	830300	23
M119	15	5	860500	57 CUTHBERTSON,P.
ITBE	30	1	830100	62 WINTER,B.B.
INJO	55	2	830800	229 LANGLOIS,P.J.
EDN	31	8	860417	244 FARRAR,D.

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PE	6	11	891100	76	STROUD,L.M.
NATE	0	0	880900	5	MCLYMAN,W.T.
ITBE	33	3	860300	320	BARNEA,O.
MEBI	24	3	860500	325	LOVELY,D.F.
MIMI	8	8	841000	403	OMOTAYO,O.R.
ELDE	28	6	800315	297	ROHDE,U.L.
EEU	2	9	920700	74	
ELDE	33	12	850530	97	WOFFORD,L.
AMJO	55	12	871200	1083	BRIGGS,K.
EDN	29	4	840223	318	PHILLIPS,P.G.
MESC	3	4	920400	421	SLESSOR,M.D.
MESC	3	2	920200	161	VARGAS-ABURTO,C.
ELDE	32	14	840809	265	SALVATI,M.J.
INJO	63	4	871100	631	ISMAIL,Z.M.A.
ELEN	60	734	880200	34	BERGMAN,G.
M116	30	1	791100	12	HEYNEMANN,I.L.
RAEL	62	4	910400	49	COOPER,D.B.
PE	9	4	920400	49	
M199	20	1	870100	63	MATSUOKA,H.
MEBI	19	5	810900	654	PATTERSON,R.P.
NIM	206	0	830200	385	BROLL,C.
EDN	28	21	831013	256	RIZZOTTI,A.E.
NIMA	234	1	850115	42	BRYMAN,D.A.
MBE	14	4	760700	471	BERGVELD,P.
EDN	36	23	911107	276	ENG,I.
CODE	23	2	840200	191	WURZBURG,H.
ELEN	58	711	860300	9	
MIRF	29	9	900900	219	HILDRETH,N.G.,JR.
RESC	48	8	770800	953	ANSON,M.
ELDE	32	1	840112	361	MERCER,D.
ITIM	30	1	810300	57	FISHER,P.D.
CHBI	12	2	820200	103	PRATT,K.W.
EDN	27	17	820901	254	BRUSH,R.
RESC	51	3	800300	328	NYLEN,P.
QST	62	4	780400	38	ROD,R.L.
ELTO	9	1	850100	42	LAMB,I.
ELDE	40	10	920514	93	WEBER,H.J.
ELDE	40	13	920625	69	NAGARAJ,M.S.
EWWW	98	1679	921100	931	DANYUK,D.
COCR	3	8	930800	61	KLEINBAUER,J.
TRIN	7	4	850700	167	MCGREGOR,A.J.
ELEC	55	2	820127	127	MIRON,N.
ELDE	36	5	880303	63	SARIN,H.
ITIE	30	1	830200	62	MARGARIS,N.
RAEL	52	11	811100	66	MCCLELLAN,G.
RESC	62	2	910200	410	HOLZER,J.C.
AUAM	19	2	880500	19	JUNG,W.
NUIN	166	0	791100	289	VAN SCHAUK,F.
EWWW	97	1666	910900	773	

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M064	7	2	850400	132 SAUMON,G.
80M2	0	50	840300	50 WRIGHT,W.M.
EDN	28	3	830203	77 NICHOLSON,B.
EDN	37	20	921001	97 KESTER,W.
M008	9	1	890100	35 PICHOWICZ,N.
EDN	34	11	890525	143 KITCHIN,C.
PHED	21	2	860300	119 WEBSTER,E.
ELNO	63	9	920900	37 BORAX,C.
JOAU	30	9	820900	580 LIPSHITZ,S.P.
M076	9	2	890400	14 WU,W.S.
ELEN	57	697	850100	43 DE QUEIROS,J.S.
ELWI	93	1602	860400	69 LAKSHMINARAYANAM,V
RESC	57	2	860200	185 SEGUIN,H.J.J.
73AM	0	270	830300	64 PHARR,D.
EWWW	96	1652	900600	484 KIRK,K.
AUAM	20	2	890400	26 DIDDEN,J.M.
73AM	0	269	830200	99 WILCOX,J.S.
CEE	33	6	890600	26
AUAM	19	1	880200	7 JUNG,W.
AUAM	18	4	871100	16 BUSCHMANN,J.
MESC	2	9	910900	873 BABY,T.
ELEN	59	722	870200	35 GANGOPADHYAY,P.
73AM	0	331	880400	63 PUTMAN,P.
ELDE	29	25	811210	161 WILLIAMS,J.
INJO	65	4	881000	823 HIGASHIMURA,M.
ETT	12	11	881100	42 PENFOLD,R.
NIMA	275	1	890201	1 ALBRECHT,H.
INJO	60	3	860300	395 YONEDA,S.
ITCS	33	8	860800	836 WATANABE,K.
M063	2	5	860900	34 POOKAIYAUDOM,S.
ITNS	36	1	890200	185 LANDIS,D.A.
JOCH	63	3	860300	271 ALBAHADILY,F.N.
ELLE	21	1	850103	9 PEREZ,F.
EVEL	16	1	870100	52 DE VAUX BALBIRNIE,
ITCS	38	11	911100	1366 FILANOVSKY,I.M.
EDN	31	1	860109	214 GANGOPADHYAY,P.
ETI	7	9	830900	76 DOBSON,N.
AUDI	68	3	840300	42 SALVATI,M.J.
NIMA	241	2	851201	612 KAPUSTINSKY,J.S.
ITPE	3	3	880700	310 LAWWHITE,L.
ITBE	35	10	881000	888 SEMMLOW,J.L.
ELEC	48	25	751211	124 COLE,B.
ITIM	36	4	871200	879 KONDOH,K.
ITIM	35	4	861200	547 HAAS,W.
CQ	42	1	860100	44 IVES,B.L.
ELDE	29	5	810305	89 BELLO,V.
ELDE	28	2	800118	94 BELLO,V.G.
ITNS	37	2	900400	310 NELSON,R.O.
ELDE	26	24	781122	132 KELLER,R.

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JOPH	22	11	891100	940 KOVACS,G.
HAEL	2	4	850400	59 WHITBY,D.
COCH	3	0	790000	89 ROSS,C.K.
ELCI	134	2	870400	67 THEOFANOUS,N.G.
JOPH	16	12	831200	1238 MAHER,F.J.
ETT	13	9	890900	15 BOWES,C.
RESC	52	10	811000	1469 ADAMS,T.E.
ELEN	55	683	831100	171 NIMMO,R.
RESC	57	12	861200	2935 KAWAGUCHI,M.
RESC	64	5	930500	1263 SATHYANARAYANA,K.
73AM	0	266	821100	32 THURSTON,G.L.,III
RESC	64	2	930200	581 GILMORE,M.
EDN	37	7	920330	138 SEDAYAO,M.
ELDI	7	1	860000	73 CAMPBELL,B.
ELWI	92	1605	860700	24 HOOD,J.L.L.
ELTO	9	9	850900	13 COUGHLAN,I.
ETT	11	12	871200	33 COUGHLAN,I.
ELDE	37	3	890209	81 HARVEY,B.
EEU	2	9	920700	72 RUITERS,J.
M016	30	4	910201	485 RASIAH,I.J.
EEU	2	7	920500	21 ROSSRUCKER,A.
ITNS	33	1	860200	178 AHMAD,S.
ELDE	37	15	890713	83 DUNN,J.
EEU	2	2	911200	37 MOSER,H.
RESC	58	9	870900	1675 HOFFMANN,G.G.
AUAM	20	2	890400	23 WILLIAMSON,R.
JOPH	13	7	800700	786 MAKER,M.
RESC	61	12	901200	3863 FRITZ,H.P.
EDN	30	19	850822	147 LUTZ,R.W.
HAEL	4	8	870800	77 GLOWACKI,J.
RAEL	52	11	811100	63 FELDMAN,L.
RAEL	60	7	890700	51 MARSTON,R.
ELEC	50	4	770217	99 MAXWELL,J.
HAEL	4	8	870800	90 RAKES,C.D.
RAEL	53	7	820700	43 CHEAIRS,L.S.
RAEL	52	2	810200	74 LEVERE,T.E.
MOEL	7	4	900400	68 DESPOSITO,J.
RESC	56	7	850700	1432 EADLINE,D.J.
M008	8	4	880400	222 PETERSEN,A.
ELWI	93	1613	870300	267 GARDNER,N.
COEL	20	12	821200	64 RUSSO,W.
HAEL	5	12	881200	39 DAVIDSON,H.L.
PE	6	5	890500	50
PE	6	7	890700	39 FOX,T.
AMJO	48	4	800400	318 HILL,J.C.
PE	6	9	890900	48
ELLE	27	24	911121	2285 GIALELIS,J.
RESC	63	8	920800	4014 RODRIGUEZ,M.
PE	9	11	921100	53 O'KELLEY,S.M.

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ELNO	63	12	921200	35 HOLZWARTH,R.
PE	6	6	890600	22 WELS,B.G.
ELLE	26	22	901025	1900 CHUNG,W.-S.
RESC	62	11	911100	2700 DA SILVA,R.P.
EWWW	97	1671	920200	158 WILKES,A.M.
JOPH	15	1	820100	145 MCWHIRTER,I.
PRIR	41	4	801200	146 MAHER,J.B.
COCR	2	3	920300	66 SWARTZENDRUBER,M.
EDN	29	25	841213	367 KHAN,M.U.
EDN	34	22	891026	171 PEASE,R.A.
MBE	14	6	761100	695 SHAW,A.
NIMA	224	1	840701	50 USHIDA,N.
ETI	8	2	840200	24 WALKER,P.
RESC	59	11	881100	2488 JAN,G.J.
ELDE	38	20	901025	91 TIPPLE,K.
MEBI	23	4	850700	393 ECKSTEIN,E.C.
CLEN	9	2	840400	147 MCGILLIVRAY,R.
ELEC	52	17	790816	115 NUSSBAUM,S.H.
EEU	2	2	911200	14
HAEL	5	8	880800	92 RAKES,C.D.
JOPH	21	9	880900	904 FIGUERA,J.M.
JOPH	13	8	800800	845 SHAW,S.-Y.
MEBI	23	6	851100	593 ROY,O.Z.
RESC	60	8	890800	2756 BERGE,L.I.
REW	0	0	840700	38 MARSTON,R.
ELEN	63	770	910200	31 WATSON,J.
73AM	0	275	830800	94 FRANKE,J.M.
NIM	216	1	831015	15 ESKANDARI,M.R.
M030	36	1	910100	87 SUTCLIFFE,J.F.
73AM	0	265	821000	44 WILSON,R.
HARA	19	11	861100	10 ROHDE,U.
RESC	50	8	790800	1029 FRANZEN,D.L.
M126	0	148	891100	44 FOURACRE,A.
COCR	2	3	920300	47 MANGIERI,A.A.
AUAM	22	2	910400	18 KLEINER,M.
POEL	11	1	770100	73 MEIJER,R.
QST	68	2	840200	35 DEMAW,D.
M156	21	2	760300	40 ADAMS,W.A.
RAEL	55	1	840100	38 LIAO,T.C.
QST	62	2	780200	36 KENNEDY,H.
ELDE	31	15	830721	196 RUBIN,S.
ELDE	31	6	830317	186 BOTTONI,P.
ELEC	51	9	780427	124 KNITTER,J.B.
ELTO	9	4	850400	26
HAEL	3	3	860500	86 SCOTT,R.F.
IJSS	10	6	751200	505 RIORDAN,R.H.
QST	66	9	820900	28 BELROSE,J.S.
ELEN	62	763	900700	28 MILLAR,A.H.
RESC	53	7	820700	967 CASCIO,H.E.

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RESC	50	11	791100	1458 TANG,J.T.
73AM	0	274	830700	54 SWIRSKY,R.
QST	67	2	830200	36 CHEEK,R.C.
EDN	28	18	830901	170 COLOTTI,J.
73AM	0	276	830900	89 THURSTON,G.
REE	46	2	760200	76 KELLEY,C.J.
PHTE	23	2	850200	91 GRAY,L.
AUDI	62	3	780300	52 PASS,N.
SCPR	2	3	920700	87 MIDEKE,M.
CQ	39	10	831000	34 DANZER,P.M.
ANCH	54	11	820900	1899 PEARSON,T.D.L.
M159	21	1	820200	76 TURNER,G.A.
73AM	0	275	830800	38 GAUGER,D.A.
RESC	58	6	870600	1106 FRANCINI,F.
ELDE	31	26	831222	190 BROWN,F.
CICE	0	15	900600	57 BACHIOCHI,J.
RAEL	59	6	880600	41 JAFFE,J.
INJO	66	3	890300	445 BARKER,R.W.J.
ELEC	56	14	830714	133 DARLING,R.
ELDE	32	8	840419	207 KANIEL,A.
ELEC	48	18	750904	108 PALM,W.A.
REW	0	0	840600	33 STOKES,A.
RESC	49	2	780200	208 AMANO,C.
ELDI	7	1	860000	12 WALKER,P.
RFDE	14	3	910300	26 ANDERSON,T.
NIMA	300	3	910201	581 BARBARITO,E.
EDN	32	25	871210	328 STITT,M.
ELEN	58	713	860500	116
EDN	37	22	921029	140 HACK,T.P.
ELWI	93	1619	870900	909 JOVAN,L.
ELDE	37	3	890209	90 JAIN,S.K.
JAJO	19	1	800100	175 TATENO,H.
ELDE	33	4	850221	191 SHULTZ,W.
ITIE	38	2	910400	126 KING,R.J.
JOMA	46	3	820215	503 DYKSTRA,R.W.
ELDE	27	8	790412	110 REFIOGLU,I.
M175	13	4	910600	52 THORNE,P.
QST	68	7	840700	11 SCHELLENBACH,R.
AMJO	48	1	800100	59 TANNER,B.K.
BYTE	5	8	800800	22 CIARCIA,S.
ELWI	90	1577	840200	35 KRAUS,K.
ANIN	18	3	890300	213 HICKS,J.
EDN	28	18	830901	101 RAPPAPORT,A.
RESC	57	3	860300	393 BIELECKI,A.
M046	14	10	881000	52 INNAB,A.
7ART	0	391	930400	17 MERRILL,C.
INJO	65	2	880800	223 HIGASHIMURA,M.
RESC	54	10	831000	1346 THOMAS,J.C.H.
CQ	41	10	851000	94 INGRAM,D.

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ELNO	64	1	930100	39 WILLIAMS,D.
CQ	41	12	851200	50 INGRAM,D.
M020	30	12	901200	1094 MUELLER,O.
RAEL	63	3	920300	59 TENNEY,R.D.
CEE	31	3	870400	51 LOWERY,D.
NIMA	256	2	870501	361 OHMORI,C.
ITNS	31	3	840600	968 ZIZKA,G.
CEA	3	3	890300	225 BYLER,R.K.
ITPS	6	4	781200	370 BOUWKNEGT,K.
EDN	34	1	890105	202 WHIPPLE,R.C.
INJO	57	5	841100	693 BEG,M.S.
ELDE	35	14	870611	147 O'NEILL,D.
ELDE	41	2	930121	107 GOODENOUGH,F.
EDN	32	2	870122	139 WILLIAMS,J.
EDN	29	16	840809	153 WILLIAMS,J.
ITBE	39	6	920600	589 TROYK,P.R.
EDN	35	2	900118	151 WILLIAMS,J.
ANCH	62	2	900115	157 GLICK,M.
ETI	7	12	831200	72 GRAY,A.
EDN	30	26	851128	287 GAJEWSKI,M.
ITPE	3	3	880700	328 TANIGUCHI,K.
AUAM	17	4	861000	26 POEHLAND,B.L.
NIMA	273	1	881201	240 LIDEN,F.
RESC	53	11	821100	1667 RICKWOOD,K.R.
NIMA	234	1	850115	30 BALESTRO,F.
EDN	28	9	830428	222 VENKATASUBBIAH,D.
MOEL	6	3	890300	28 HALA,L.
M051	0	0	850100	40 DODSON,P.
COEL	21	4	830400	109 MIMS,F.M.
ELEC	50	3	770203	107 HELM,W.
NIMA	256	2	870501	355 PROCTOR,A.E.
ELEC	49	24	761125	131 SARPANGAL,S.
POEL	20	5	820500	98 MIMS,F.M.
POEL	20	3	820300	112 MIMS,F.M.
NIM	215	3	831001	433 RANDERS-PEHRSON,G.
CQ	38	10	821000	50 WEISS,A.
EDN	30	6	850321	265 COOPER,D.
RFDE	15	13	921200	31 CONNELLY,J.A.
ELDE	40	20	921001	68 CARR,L.
ELEC	56	4	830224	110 BRAMBLETT,S.
ANCH	53	9	810800	1432 BARNHART,S.G.
APSP	42	1	880100	77 SACKS,R.D.
MEIN	17	5	830900	347 REDDY,G.N.
MESC	3	1	920100	75 RAERINNE,P.
EDN	30	7	850404	273 BJORNER,J.
ELEC	51	2	780119	111 CHETTY,P.R.K.
ELEC	49	21	761014	100 BRUNSTEIN,V.
POEL	15	6	790600	69 HOFFART,F.
EDN	32	15	870723	310 PEASE,R.A.

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POEL	19	2	810200	57 TENNY,R.
APSP	33	5	790900	463 WALTERS,J.P.
CQ	40	8	840800	50 SCHULTZ,J.J.
ELEC	49	11	760527	106 CICCHIELLO,F.N.
CQ	39	3	830300	36 SCHULTZ,J.J.
CQ	43	7	870700	44 MCCOY,L.
COEL	21	1	830100	113 MIMS,F.M.
RESC	48	2	770200	168 HENINS,I.
ELDE	40	2	920123	69 GRAEME,J.
ELWI	91	1588	850200	44 RECKTENWALD,H.P.E.
JOCH	66	11	891100	947 THOMAS,R.N.
HARA	20	2	870200	8 MILLER,J.
HARA	21	3	880300	45 COWAN,J.A.
MIMI	11	4	870500	187 COOLING,J.
HAEL	3	6	861100	26 WELS,B.G.
73AM	0	350	891100	38 KOLLAR,C.A.
INJO	59	3	850900	391 FYATH,R.S.
ETT	12	7	880700	12 TOOLEY,M.
EDN	28	8	830414	123 CUSHMAN,R.H.
MIAP	8	3	850700	279 ROBERTSON,P.J.
NIMA	277	1	890415	204 CAMIN,D.V.
IJEE	24	3	870700	215 WARBURTON,K.
ELDE	32	9	840503	396 WINGATE,D.
M076	5	4	850800	34 O'GRADY,E.P.
JOMA	60	1	841015	109 LONG,C.A.
RAEL	56	8	850800	59 GREEN,B.
M008	9	2	890200	66 ROSINK,W.
ELEC	49	4	760219	113 DENNON,J.D.
ELDE	38	8	900426	107 MEDINA,R.T.
RAEL	55	3	840300	78 GROSSBLATT,R.
HAEL	5	3	880300	94 WELS,B.G.
ITIE	35	3	880800	407 TENG,L.F.
EWWW	95	1644	891000	1022 VIRDEN,D.J.
73AM	0	299	850800	42 ARNETT,W.
MIMI	8	4	840500	171 HUTCHISON,D.
EEU	2	2	911200	18 COLLINS,R.
ELEN	56	693	840900	14
PE	10	10	931000	80 CARR,J.J.
ELWI	91	1591	850500	21 CATHERWOOD,M.
ELWI	95	1643	890900	909 ZARUCKI,P.N.
INJO	72	2	920200	183 DAWOUD,M.M.
ELEN	60	735	880400	33 LAKSHMINARAYANAN,V
ELWI	91	1596	851000	61 SMITH,K.L.
MADE	59	10	870507	103 GRAY,N.C.
EDN	32	7	870331	171 SHAH,P.M.
CQ	38	12	821200	30 MCCOY,L.
RFDE	14	5	910500	58 METHOT,F.
73AM	0	292	850100	18 BREFINI,G.P.
QEX	0	54	860800	3 YAMASHITA,F.

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RFDE	10	3	870300	46 LEE,M.
QST	68	9	840900	38 DEWEY,J.
ITCS	34	10	871000	1248 VOULGARIS,N.C.
EDN	36	11	910523	151 WIMBROW,M.U.
ITPS	14	3	860600	256 LEN,L.K.
ELWI	93	1615	870500	519 RICHLEY,E.A.
JOPH	14	12	811200	1411 PENZKOFER,A.
ETT	12	6	880600	39 KO,C.Y.
EDN	30	21	850919	195 WILLIAMS,J.
PE	9	1	920100	78 RAKES,C.D.
ITIM	36	4	871200	940 DEEP,G.S.
MIAP	10	2	870400	161 MUNTHER,N.A.-T.
M115	22	8	891000	246 LAU,M.
CICE	0	24	911200	66 NISLEY,E.
JOPH	13	7	800700	711 BERTRAND,D.
EEU	2	2	911200	81 PELTZ,G.
PE	7	11	901100	67 CARR,J.J.
ELEC	52	17	790816	117 HUDOR,A.M.,JR.
RAEL	60	4	890400	77 BARBARELLO,J.
WW	89	1565	830200	72 PARFITT,R.
PE	10	4	930400	41 SHERIDAN,G.
ELEC	56	10	830519	139 YPENBURG,F.
ELTO	9	8	850800	42 CUTHBERTSON,P.
ETI	8	5	840500	52 HUCKSTEPP,S.
M108	21	6	820600	71 HOBERG,L.
EEU	2	7	920500	55 NOSSWITZ,M.
EEU	2	9	920700	29 OTHER,A.N.
RAEL	57	12	861200	49 GROSSBLATT,R.
73AM	0	256	820100	26 ZAPPALA,C.
ITNS	39	4	920800	848 ROSENFELD,C.
MOEL	7	1	900100	35 SOKOLOWSKI,S.
RESC	62	2	910200	522 CANDELA,D.
RAEL	57	12	861200	61 GIFFORD,J.D.
HAEL	4	9	870900	78 STROUD,L.M.
NIMA	219	1	840101	153 BOURGEOIS,F.
RFDE	8	5	850500	40 D'AGOSTINO,J.J.
EDN	27	2	820120	117 WILLIAMSON,T.
NIMA	243	2	860301	323 BIINO,C.
RAEL	56	11	851100	57 GIANELLI,J.
PE	10	4	930400	70 RAKES,C.D.
RESC	54	4	830400	463 KUMAR,D.
EWWW	97	1673	920400	317 PULHAM,R.
RFDE	13	3	900300	35 FOGNINI,B.
RAEL	58	6	870600	50 MCCLELLAN,G.
RAEL	55	7	840700	61 STRATMAN,H.
INJO	59	4	851000	471 FYATH,R.S.
RESC	52	3	810300	377 HOLMES,J.C.
M030	25	3	800300	563 MITCHELL,K.W.
ELCH	267	1	890810	279 BOTTER,W.,JR.

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EDN	29	8	840419	336 TRIMBLE,D.
RAEL	58	2	870200	110 CUNKELMAN,J.
NIMA	264	2	880215	285 MEIJER,R.J.
ITNS	34	1	870200	427 LESKOVAR,B.
RESC	62	10	911000	2372 KRIESEL,J.
ANCH	55	2	830200	314 HOOLEY,D.J.
ITNS	32	1	850200	74 TAKEUCHI,S.
M026	246	1	910515	151 EDKINS,T.J.
MBE	14	6	761100	660 BESSELING,N.C.
PE	9	9	920900	49
RESC	49	2	780200	224 BAXTER,K.
MEBI	20	6	821100	699 AUCOTT,G.C.
7ART	0	369	910600	62 HOUGHTON,C.L.
ELEN	58	709	860100	37 HART,B.L.
JOPH	22	1	890100	21 KIRKUP,L.
NIM	190	0	811100	35 FARR,W.
NIMA	309	1	911101	209 WATTECAMPS,E.
NIMA	249	2	860910	354 SUGITATE,T.
INJO	62	1	870100	105 TAHA,S.M.R.
ELDE	30	21	821014	205 WILLIAMS,D.G.
M121	2	4	841100	379 CONSTANTINESCU,C.
ITNS	37	2	900400	574 ZIEGLER,S.I.
ELWI	93	1619	870900	934
ANCH	52	8	800700	1273 BORDERS,R.A.
PE	7	8	900800	80 RAKES,C.D.
EDN	32	8	870415	214 NGUYEN,T.D.
ELWI	90	1586	841200	71 DAWSON,J.
AUAM	22	1	910200	53 PARK,G.L.
EDN	35	12	900607	133 COURTNAGE,B.P.
MIMI	8	6	840700	284 MANOHAR,S.
ELEC	56	12	830616	129 SIMPSON,P.A.
NIMA	297	1	901115	103 SHIMOKOSHI,F.
NIMA	321	1	920915	180 SASAKI,H.
RESC	50	8	790800	941 EKDAHL,C.A.
M020	29	8	890800	857 CARMIN,D.V.
INJO	64	3	880300	481 EL-KHAMY,S.E.
ELWI	93	1602	860400	70 MOUBAYED,A.R.
ITIM	33	1	840300	36 FILIPSKI,P.
EDN	27	16	820818	148 TOMCHAY,J.
APSP	33	5	790900	460 DEWALT,F.C.
RESC	55	12	841200	1989 TROUSSON,P.
COCH	6	4	820400	161 CACECI,M.S.
AMJO	55	4	870400	324 RUECKNER,W.
RAEL	59	11	881100	50 HELBER,C.A.
EDN	35	17	900820	141 SALVATTI,F.
M002	16	182	901000	16 RIGBY,A.
PE	8	3	910300	88 RAKES,C.D.
POEL	13	6	780600	44 BARBARELLO,J.
POEL	10	6	761200	69 LANCASTER,D.

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RAEL	60	1	890100	34 LANCASTER,D.
AMJO	50	4	820400	381 EVORA,C.
COEL	21	3	830300	92 PATRICK,D.E.
ELEN	59	723	870300	29 SIUZDAK,J.
INJO	73	1	920700	101 SOLIMAN,F.A.
73AM	0	283	840400	30 CARR,J.J.
ITBE	30	6	830600	352 TAYLER,D.
AMJO	57	12	891200	1153 ARENAS,A.
ITPE	4	4	891000	459 JOVANOVIC,M.M.
ELDE	32	21	841018	260 RAO,V.
ELEC	49	5	760304	111 KUSKO,A.
ELTO	9	7	850700	58 OWEN,L.N.
POEL	7	2	750200	27 GARLAND,H.
PRIR	40	2	790300	38 JACKSON,L.N.
JONE	35	3	901200	277 SCHMID,K.
EEU	2	2	911200	35 RUFFELL,J.
PE	10	7	930700	41 YACONO,J.
ELMA	21	3	930500	281 TAALAB,A.I.
ELTO	8	10	841000	20 FULTON,M.
ELEC	55	20	821006	113 EVANS,K.P.
ELDE	31	17	830818	228 SUNDARARAJAN,D.
ELEN	56	694	841000	45 NCGLINCHY,M.
ELEC	49	14	760708	90 DURGAVICH,T.
RAEL	53	11	821100	92 LEE,L.
POEL	11	3	770300	77 PRUDHOMME,W.J.
ELEN	57	700	850400	39 GREAVES,D.
HARA	22	4	890400	32 WILSON,R.
ELEN	55	683	831100	35 BHATTI,Z.A.
ANCH	57	6	850500	1165 BENCSATH,F.A.
ITCS	33	8	870800	897 VASILJEVIC,D.M.
JOMA	37	2	800130	247 CALLAGHAN,P.T.
JOCH	61	11	841100	1025 LOPEZ,E.
PE	7	8	900800	33 SCHOPP,W.W.
ANCH	52	8	800700	1366 BORDERS,R.A.
ELEC	53	1	800103	158 DAVIS,J.H.
EEU	2	1	911100	54 RIGBY,A.
EWWW	98	1678	921000	852 PAYNE,R.
ITIM	41	4	920800	540 MILKOVIC,M.
M198	23	4	910400	18 REEVE,W.D.
7ART	0	398	931100	26 DONALDSON,J.R.
ELEC	55	18	820908	140 BANES,V.
ANIN	13	1	840100	69 NEELAKANTASWAMY,P.
RAEL	58	11	871100	31 KHAN,M.A.
ITNS	36	1	890200	692 ABDEL-AAL,R.E.
MBE	14	5	760900	545 WISE,J.C.M.
POEL	13	5	780500	76 MIMS,F.M.
JOPH	14	8	810800	1009 SCOTT,R.P.
RESC	48	10	771000	1290 ROBERTSON,B.
ELEC	48	26	751225	75 FICHTENBAUM,M.L.

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ELEC	49	21	761014	101 PEPPER,C.S.
7ART	0	368	910500	26 RAKES,C.D.
ELDE	41	14	930708	78 BELOUSOV,A.
COEL	21	2	830200	113 MIMS,F.M.
ELEN	57	702	850600	36 MCGLINCHY,M.
RESC	60	11	891100	3519 NEGITA,K.
ELEC	49	23	761111	115 RAMPRAKASH,V.
POEL	13	2	780200	84 MCVEIGH,J.
ELEC	51	13	780622	150 PALM,W.A.
SKTE	76	1	880700	92 BUCHLA,D.
BYTE	5	4	800400	6 HELMERS,C.
ITIM	28	2	790600	167 ROSENTHAL,L.A.
SKTE	66	5	831100	453 NEWTON,R.J.
JONE	19	3	870300	193 CLARK,F.J.
INJO	54	4	830400	589 RAHMAN,M.
HARA	22	11	891100	76 CARR,J.J.
RESC	63	3	920300	1991 HARVEY,K.C.
ELDE	29	6	810319	266 KOLLARAM,P.R.
ETI	7	1	830100	59 SINCLAIR,I.
RESC	58	1	870100	144 GRUBIC,M.
ITCS	22	9	750900	764 HIRANO,K.
RAEL	57	9	860900	41 GROSSBLATT,R.
ELEC	50	21	771013	97 GELLON,H.
CODE	21	4	820400	149 HOFFMAN,D.
M064	9	3	870700	194 DONALDSON,P.E.K.
MESC	1	8	900800	720 LOVY,D.
NIMA	320	3	920901	610 ZABIEROWSKI,J.
QEX	0	55	860900	9 NEWLAND,P.
HAEL	3	7	861200	22 WELS,B.G.
POEL	7	2	750200	40 MAYHUGH,T.L.
AMJO	53	12	851200	1143 STEDMAN,G.E.
BYTE	8	12	831200	556 CIARCIA,S.
HAEL	2	2	840200	45 WORLEY,M.C.
ELTO	10	1	860100	41 BRINDLEY,K.
ANIN	13	3	840300	231 RAMALEY,L.
ITIE	33	3	860800	297 BROWN,G.M.
RESC	60	1	890100	138 PETERS,D.J.
MOEL	7	1	900100	42 CARISTI,A.J.
ELTO	11	2	870200	84 TOOLEY,M.S.
MOEL	7	6	900600	56 MIMS,F.M.,III
ELDE	30	18	820902	198 UNDELAND,T.M.
73AM	0	352	900100	64 LEAVEY,M.I.
ELEN	58	714	860600	35 COOPER,P.J.
ETI	6	5	820500	84 KYTE,G.
LAMI	5	2	860200	46 ADIE,C.J.
ELTO	10	6	860600	60 GILES,S.P.
SKTE	76	6	881200	694 NEVELUS,J.A.
BYTE	5	6	800600	140 RENBARGER,J.
BYTE	4	1	790100	104 ROBERTS,S.K.

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EDN	36	1	910103	123 CAYTON,B.
7ART	0	371	910800	52 BRYCE,M.
INJO	71	2	910800	363 HAMID,M.
M016	29	27	900920	3900 BISWAS,D.
POEL	15	6	790600	62 KREUTER,R.A.
EDN	34	23	891109	233 DARBONNE,T.
BYTE	2	9	770900	84 SIERAD,T.B.
PRIR	41	4	801200	123 BIRD,I.G.
ELEC	50	4	770217	98 KARNI,R.
MOEL	5	9	881000	32 VAN LOENEN,A.
COEL	20	12	821200	116 MIMS,F.M.
COEL	21	1	830100	28 MIMS,F.M.
TRAS	29	3	860500	821 MITCHELL,B.W.
MEBI	29	6	911100	603 KOCEJA,D.M.
RAEL	55	10	841000	94 GROSSBLATT,R.
MEBI	21	6	831100	654 GRIMNES,S.
68MI	8	3	860300	26 BURLINSON,K.
POEL	20	8	820800	55 KARNS,E.
PE	7	4	900400	22 WELS,B.G.
RESC	48	3	770300	320 LYKE,R.L.
ELDE	33	25	851031	49 MILNE,B.
POEL	7	2	750200	32 COHEN,H.
73AM	0	330	880300	20 STIEB,K.
INJO	62	5	870500	761 LO,H.-Y.
QST	65	9	810900	16 MANN,S.E.
HAEL	4	6	870600	96 WELS,B.G.
COCR	1	1	910400	24 GOSS,N.
7ART	0	392	930500	20 CUNNINGHAM,J.
M066	61	723	880300	235 PLANE,J.H.
JOCO	6	3	870300	58 POWERS,M.H.
RAEL	56	9	850900	59 DAGE,D.H.
AMJO	48	6	800600	489 OTTONELLO,P.
M076	10	2	900400	56 KANEKO,H.
RAEL	54	7	830700	78 GROSSBLATT,R.
ITIM	33	2	840600	122 NGUYEN,D.T.
HAEL	5	10	881000	66 DAVIDSON,H.L.
ITNS	32	1	850200	360 LO,C.-C.
HARA	22	3	890300	53 OWENS,R.
NIMA	251	1	861001	101 WISSHAK,K.
RAEL	58	6	870600	53 ROSETH,G.
JOCH	60	7	830700	607 ISAACS,N.S.
MOEL	7	5	900500	58 MIMS,F.M.,III
NUIN	179	0	810100	27 BELL,K.W.
ELWI	90	1586	841200	51 ADAMS,J.H.
M016	21	13	820701	2326 FELDMAN,D.W.
QST	69	6	850600	36 DEMAU,D.
M002	13	141	870100	53
ETT	12	8	880800	38 CHAPPELL,P.
RAEL	53	10	821000	135 BERNARD,J.

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MOEL	7	6	900600	14	CARISTI,A.J.
PE	9	8	920800	75	YACONO,J.J.
NIMA	249	2	860910	155	TAIXUAN,Y.
ELTE	2	4	790400	18	RIVERA,T.
ELDE	41	2	930121	62	CIUBOTARU,A.
RESC	61	5	900500	1390	PAKULSKI,G.
ANIN	13	2	840200	173	LORENZ,R.I.
ITIM	29	1	800300	15	POOKAIYAUDOM,S.
EDN	35	13	900621	217	KIRSTEN,J.
NIMA	279	3	890715	671	CESARONI,F.
JOCH	66	8	890800	683	VINCENT,C.A.
JOMA	60	3	841200	397	STYLES,P.
M163	4	2	810400	147	EL-ALAILY,A.A.
ETI	7	5	830500	25	
MEBI	19	2	810300	175	SINGH,M.
PE	6	4	890400	38	
RESC	51	1	800100	141	ADAMS,T.E.
BYTE	3	4	780400	10	REHM,B.E.
EWWW	96	1654	900800	726	
NUIN	177	0	801100	441	CAINI,V.
DIDE	10	2	800200	80	STAFF,E.
AGME	18	0	770000	321	FRITSCHEN,L.J.
IEEP	126	12	791200	1374	BEAKHUST,D.J.
AJP	236	3	790300	513	YONEZAWA,Y.
EDN	37	21	921015	140	AYRANOV,O.
RESC	50	2	790200	207	SHAMMAS,S.
COCR	1	4	910700	42	GOSS,N.
ELDE	38	18	900927	106	JOHNSON,D.
EDN	36	7	910328	168	THURBER,C.
RESC	63	5	920500	3201	RANE,S.S.
ELDE	31	7	830331	175	VACCARELLA,R.M.
EDN	31	1	860109	212	VARSAÑO,S.
M160	50	2	810200	456	GRUBB,B.R.
EWWW	97	1673	920400	323	
RESC	64	5	930500	1235	BUTLER,L.G.
QST	70	4	860400	13	ARNDT,R.
RESC	59	7	880700	1176	MACHADO,F.L.A.
EDN	32	13	870625	251	AUSTIN,W.M.
HAEL	2	2	840200	81	CARR,J.J.
INJO	52	4	820400	321	BOWRON,P.
M064	9	1	870100	32	DE VRIES,F.R.
LAMI	7	3	880300	89	MALCOLME-LAWES,D.J
POEL	18	2	800800	83	ROBERTS,J.
ITBE	33	1	860100	35	KWATRA,S.C.
ITIM	39	6	901200	878	DIGHE,A.M.
EEU	2	8	920600	32	RUITERS,J.
M016	30	27	910920	3842	TSAI,C.-C.
EUJO	8	1	870100	27	KUUSELA,T.
RFDE	11	10	881000	38	MATHEWS,T.R.

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EDN	34	23	891109	265 WYATT,M.A.
ELWI	93	1600	860200	53 HOOD,J.L.L.
HAEL	4	9	870900	95 WELS,B.G.
HARA	20	6	870600	86 KLINERT,C.
GLAU	3	2	910200	9 CARMICHEL,E.
RFDE	7	7	841100	36 HATCHETT,J.
ELEC	56	11	830531	150 HATCHETT,J.
ELTO	11	3	870300	10 PENFOLD,R.A.
MADE	57	20	850912	82 MELEAR,C.
ELWI	93	1612	870200	176 CATHERWOOD,M.I.
RAEL	62	8	910800	69 LANCASTER,D.
REW	0	0	840600	87 HARRY,R.J.
RESC	53	5	820500	615 GROSS,S.
ELWI	92	1610	861200	43 EMBLER,G.
NIMA	224	3	840715	448 LINDL,B.
RAEL	53	2	820200	53 CARR,J.
ELWI	90	1586	841200	73 WILSON,J.E.
RAEL	59	5	880500	69 LANCASTER,D.
EDN	29	25	841213	372 HALL,J.R.
ANCH	52	12	801000	1923 BONNER,R.F.
HARA	20	6	870600	69 CARR,J.
NIM	204	0	821200	385 JAASKELAINEN,M.
RAEL	63	3	920300	73 LANCASTER,D.
PE	9	9	920900	38 CARISTI,A.J.
ITNS	39	4	920800	838 BENOTTO,F.
LAMI	3	3	840300	86 FULLER,J.
QST	72	7	880700	15 KIRK,D.
MOEL	5	9	881000	48 MIGA,D.
JOPH	22	8	890800	663 COLCLOUGH,M.S.
RAEL	61	10	901000	14 THOMAS,L.F.
M076	2	4	821100	67 ECKERT,K.
NATE	0	0	890800	7 HECKT,N.W.
EWWW	97	1673	920400	318 EGERTON,M.W.,JR.
EEU	2	9	920700	50 HOLMES,P.
EWWW	97	1676	920700	600
ELEC	49	24	761125	113 PIANKIAN,B.
NUIN	173	0	800600	275 REITER,W.L.
7ART	0	380	920500	30 MCWILLIAMS,F.B.
ELDE	31	20	830929	247 BATRA,N.
EDN	31	24	861127	237 SILVER,H.W.
EDN	29	8	840419	334 GUENTERT,L.
MOEL	7	2	900200	20 CARISTI,A.J.
RESC	56	8	850800	1669 CACERES,C.H.
MOEL	7	9	900900	45 SCHOPP,W.
ELEC	50	16	770804	96 GAMMELL,P.M.
NIMA	224	1	840701	243 DE CALLATAY,B.
ITPE	5	3	900700	260 DEANE,J.H.B.
POEL	18	3	800900	112 MIMS,F.M.
ITCE	37	4	911100	783 BRILKA,J.

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EDN	29	17	840823	235 REILLY,D.
MOEL	6	2	890200	40 CARISTI,A.J.
AUAM	16	4	851000	22 CURL,J.
EWWW	97	1669	911200	1053 NAGARAJ,M.S.
ELEN	64	781	920100	28 SULLIVAN,B.
EWWW	96	1651	900500	380 WOODFORD,T.
TRAS	25	4	820700	1081 MITCHELL,B.W.
EDN	32	24	871126	205 HANDFORD,A.W.
JOAU	38	7	900700	537 HARRIS,S.
RESC	59	4	880400	616 CHEN,X.
NIM	189	0	811000	369 SAKUDA,M.
ELDE	37	9	890427	135 MALINIAC,D.
PE	8	8	910800	35 JORDAN,J.V.
POEL	19	11	811100	57 CHAPMAN,R.
ELEC	50	12	770609	132 REINTJES,P.
ELEN	58	715	860700	25 KITCHING,A.
NIMA	226	2	841001	263 FISCHER,B.
NIMA	222	3	840501	428 OSBORNE,J.L.
ITBE	37	5	900500	532 MOORE,K.B.
RAEL	62	7	910700	41 GOULD,T.
ELDE	39	19	911010	94 DUNN,J.
RFDE	15	3	920300	131 HILL,A.
ELEN	63	778	911000	36 QING,H.Y.
EWWW	98	1678	921000	854 NAGARAJ,M.S.
QST	66	1	820100	25 JARRETT,J.
JOPH	17	11	841100	981 VOSS,G.
ELEN	56	692	840800	47 DAVIES,E.
ELDE	30	8	820415	210 BOCK,P.H.,JR.
ELEN	55	676	830400	34 ANTONIAZZI,P.
ITNS	34	1	870200	266 LO,C.C.
NIMA	292	2	900701	240 NOREM,J.
RAEL	51	11	801100	52 GALLAGHER,R.F.
MEBI	27	3	890500	335 JOHANSEN,O.
EWWW	97	1659	910100	36
ELDE	37	13	890622	94 MACBRIDE,B.
ELWI	95	1641	890700	651 NATTRAS,J.
EWWW	96	1657	901100	993
JOMA	53	2	830615	313 SHAKA,A.J.
RAEL	58	6	870600	12
ANCH	53	6	810500	770 ANDERSON,D.L.
RFDE	15	4	920400	91 BENZEL,D.M.
ELWI	93	1613	870300	300 CLARKE,D.E.A.
MEBI	30	6	921100	659 YONEZAWA,Y.
ELDE	31	16	830804	123 FABBRI,R.
ETT	12	2	880200	30 PORTER,B.
MBE	14	6	761100	701 WODLINGER,H.
RAEL	57	7	860700	56 SIMPSON,L.
JOPH	15	7	820700	753 WHITE,D.R.
RESC	51	7	800700	885 JACOBY,B.A.

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EEU	2	9	920700	62	HOGENKAMP,P.C.
ELDE	29	5	810305	144	ROSENTHAL,L.A.
ELTO	8	6	840600	33	
QST	65	10	811000	36	LAURENCE,G.
EDN	29	6	840322	161	CHIRAYIL,R.
EWWW	97	1675	920600	516	
RESC	51	8	800800	1134	SPAGNOLA,B.
7ART	0	378	920300	14	BARTOLOTH,L.K.
RESC	52	3	810300	428	SUSAK,N.J.
NIMA	278	3	890615	749	PAI,S.
73AM	0	266	821100	10	STRANGE,M.
INJO	70	2	910200	443	SMITH,D.T.
ELEC	51	9	780427	152	SARPANGAL,S.
JOPH	15	2	820200	187	BONSE,U.
ELDE	32	1	840112	440	COZER,C.
ELWI	90	1579	840400	34	MALHAM,D.G.
ITIM	30	2	810600	102	VASANTHA,E.
RFDE	16	2	930200	25	HULSING,R.H.,II
AJP	252	6	870600	1158	MOORE,L.C.
AUAM	20	1	890200	14	MORTENSEN,H.J.K.
EDN	31	11	860529	233	PEASE,R.A.
RAEL	59	4	880400	45	HILL,N.M.
ELCH	280	2	900309	327	TALLMAN,D.E.
ITNS	31	1	840200	447	KASTNER,M.
MESC	2	1	910100	42	OBARA,M.
NIM	206	0	830200	159	FARR,W.D.
ELDE	30	6	820318	255	POSTE,P.S.
ITIM	35	2	860600	163	KALISZ,J.
ELDE	27	9	790426	108	PEASE,R.A.
EDN	28	25	831208	332	SHARP,J.L.
LAPR	35	1	860100	99	RUSSELL,J.R.
RESC	62	4	910400	1098	CHIEN,P.-Y.
EDN	31	8	860417	244	HAASE,J.A.
INJO	65	5	881100	983	WILSON,B.
ITC1	39	4	920400	257	ROBERTS,G.W.
NIMA	251	2	861015	258	GALAKTIONOV,Y.
JOPH	19	1	860100	33	LITTLE,A.A.
EDN	34	17	890817	191	ANDERSON,G.
INJO	62	6	870600	949	BISWAS,S.K.
M064	13	6	911100	516	LAKSHMI,M.V.
EEU	2	9	920700	50	ZSCHOCKE,B.C.
JOPH	18	2	850200	124	STROJNIK,A.
HAEL	5	4	880400	87	RAKES,C.D.
M030	24	6	791100	1196	PRYTHERCH,D.R.
RESC	55	7	840700	1111	GIBSON,A.A.V.
RESC	52	4	810400	542	BRONDEAU,J.
JAJO	18	3	790300	627	KAWAHATA,K.
JOPH	15	3	820300	301	HATFIELD,D.S.
RESC	50	6	790600	692	DUGAN,R.J.

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ELDE	41	15	930722	88 ZIEMER,C.B.
M030	25	3	800300	533 SANKARAN,A.
ELWI	92	1603	860500	34 HOARE,D.
JONE	11	1	840500	61 GODFRAIND,J.M.
M160	49	1	800700	160 JACKY,J.
MESC	2	11	911100	1026 NETO,J.M.
RAEL	62	8	910800	8 PERRY,G.
EEU	2	9	920700	45 LUCASSEN,R.
HRH	4	4	800400	12 BLAKESLEE,D.
MEBI	21	2	830300	138 SMITH,T.G.,JR.
M087	30	4	881100	484 ADAMS,J.W.
M025	17	1	800100	81 JURGEN,R.K.
HAEL	3	4	860700	47 FISCHER,C.R.
73AM	0	345	890600	65 LEE,F.
RAEL	56	12	851200	49 GROSSBLATT,R.
RESC	54	10	831000	1364 PEZOLET,M.
RESC	55	5	840500	786 LORUSSO,J.A.
EDN	37	17	920820	144 SMITH,S.
ELEC	50	5	770303	117 PRASAD,S.J.
ETT	14	5	900500	25 PENFOLD,R.
RESC	60	12	891200	3779 SCHELLY,Z.A.
EDN	29	20	841004	249 BARNETT,T.G.
AUAM	21	3	900800	38 WATLING,A.
PE	9	4	920400	31 GRAF,R.F.
EEU	2	6	920400	58 ZSCHOCKE,B.C.
ELEN	55	675	830300	29 KRAUS,K.
INJO	68	2	900200	223 HAMILTON,D.K.
NIMA	287	3	900215	527 MARIOLI,D.
M013	24	15	921000	50 GHAFFARI,S.
ELWI	92	1611	870100	67 ABUELMA'ATTI,M.
RESC	51	9	800900	1183 LUTHJENS,L.H.
AUAM	18	2	870300	18 CROWHURST,N.
INJO	61	1	860700	137 ABUELMA'ATTI,M.G.
INJO	61	2	860800	255 ABUELMA'ATTI,M.
EDN	34	25	891207	262 MARSH,H.H.
ELDE	32	14	840712	202 DIETZ,E.
EWWW	99	1684	930300	204 COVINGTON,M.A.
POEL	12	1	770700	77 GARNER,L.
JOPH	13	9	800900	961 ROBINSON,F.N.H.
EEU	2	1	911100	16 KORTINK,J.
QST	69	3	850300	21 BEAL,G.S.
REW	0	0	840700	81 ODDY,C.
ITNS	32	1	850200	328 BERTOLUCCI,B.
RESC	52	8	810800	1246 WU,J.
RESC	60	3	890300	493 WOOD,R.H.
M160	54	1	830100	314 LAFRAMBOISE,W.A.
NATE	0	0	900700	9 HUSTON,S.W.
EWWW	97	1676	920700	572 STIURCA,D.
7ART	0	386	921100	34 MOELL,J.

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JONE	5	3	820300	261 MUNDL,W.J.
M076	2	3	820800	86 HARIHARAN,R.
JMET	5	5	810900	248 COLSON,R.H.
ELDE	30	6	820318	256 BONG,B.S.
ELDE	37	17	890810	74 LAKSHMINARAYANAN,V
MOEL	7	9	900900	32 FOX,T.
NIMA	314	1	920401	31 MIGNECO,E.
ELDE	35	13	870528	117 JAYCOX,J.M.
ITED	23	4	801100	200 WILSON,S.G.
ANCH	53	6	810500	940 COPLEN,T.B.
RAEL	63	5	920500	82 GROSSBLATT,R.
PE	9	9	920900	70 RAKES,C.D.
IJEE	27	2	900400	119 CORDEN,I.R.
JONE	12	3	850100	227 SCHOLFIELD,C.N.
EDN	31	11	860529	185 WIDLAR,R.
RESC	52	5	810500	763 BRUSCHI,L.
7ART	0	364	910100	58 BRUMBAUGH,J.F.
ITNS	36	1	890200	420 ALMEIN,J.L.
BYTE	7	3	820300	100 BARDEN,W.,JR.
RAEL	57	3	860300	59
ELTO	8	7	840700	11 TURNER,R.
AUDI	62	6	780600	114 SHORTER,G.
RAEL	62	6	910600	39 CARISTI,A.J.
COCR	2	10	921000	52 GOSS,N.
PE	10	9	930900	31 WEEDER,T.J.
PE	8	12	911200	80 RAKES,C.D.
ELEC	56	11	830531	153 MEDINA,R.T.
HAEL	3	2	860300	61 GORDON,J.A.
HAEL	2	4	850400	40 BYERS,T.J.
ELEC	49	25	761209	97 MOBERG,G.O.
ELEC	56	9	830505	134 KALISZ,J.
ETT	12	9	880900	28 BECKER,J.
RAEL	59	12	881200	33 LANCASTER,D.
EDN	33	25	881208	302 FOLLO,A.
ELDE	37	21	891012	86 GALLUZZI,P.
RAEL	61	4	900400	46 HEIL,R.A.
NIM	189	0	811000	445 EDISS,C.
ITCS	37	10	901000	1314 ZRUDSKY,D.R.
73AM	0	362	901100	30 LUCAS,R.
EDN	36	17	910819	162 BARNETT,T.G.
ITIM	40	4	910800	720 HAMID,M.
GLAU	4	1	920100	38 LOGAN,K.E.
73AM	0	257	820200	26 COOK,A.
AMJO	61	10	931000	949 EDGAR,A.
ELEN	56	694	841000	41 SAVORY,E.
JOPH	18	5	850500	401 LIKHITE,S.D.
JOPH	18	6	850600	532 LACEY,A.R.
ELCI	133	6	861200	289 BHATTACHARYA,G.
JOPH	22	9	890900	774 DO NASCIMENTO,G.C.

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ELEC	50	5	770303	105 RICHARDSON,R.H.
RESC	50	4	790400	418 SIMPSON,H.M.
RESC	61	7	900700	1994 SCOFIELD,J.H.
PE	7	10	901000	22 WELS,B.G.
RESC	62	8	910800	2034 RAMIREZ-FLORES,G.
ELDE	29	6	810319	268 MALVAR,H.S.
ELEN	58	713	860500	33 PEYTON,A.J.
ELEC	55	18	820908	140 LAMB,H.H.
EDN	28	26	831222	268 BOBIRCA,D.
QST	71	3	870300	29 NELSON,R.A.
NIMA	270	2	880715	361 HABERICHTER,W.
HAEL	5	2	880200	76 RAKES,C.D.
JOPH	22	4	890400	250 BUDWIG,R.
PE	10	3	930300	49
JOPH	18	3	850300	187 SINGH,S.L.
KIMI	6	2	820200	100 STOCKBURGER,D.W
EDN	31	20	861002	203 DANIEL,B.F.
EDN	28	4	830217	255 DAMMEYER,N.
NIMA	292	3	900715	595 WISSHAK,K.
PE	8	6	910600	18 YACONO,J.J.
RAEL	63	1	920100	51 MARSTON,R.
PE	9	2	920200	68 YACONO,J.J.
7ART	0	393	930600	16 NEELEY,J.
NIMA	254	1	870201	79 BOSE,S.
EDN	33	4	880218	237 CHATER,W.
JOPH	21	11	881100	1100 HOMBLE,F.
ELDE	29	26	811224	138 SOBELL,M.
MIRF	31	10	921000	100 MCWHORTER,M.
MEBI	20	3	820500	293 WILSON,A.J.
INJO	54	2	830200	255 GHARPURE,V.S.
M030	29	4	840400	449 HAZLE,J.D.
NIMA	254	1	870201	118 BOSE,S.
HAEL	6	1	890100	84 RAKES,C.D.
EDN	34	6	890316	179 WYATT,M.A.
ELDE	31	5	830303	166 PARKER,M.
HAEL	3	1	860100	96 GIFFORD,J.D.
SKTE	78	1	890700	97 HARNER,M.
EDN	27	16	820818	95 SHERMAN,L.
ELEC	49	20	760930	88 CARTER,C.R.
PE	9	9	920900	73 YACONO,J.J.
JOPH	15	4	820400	448 REDDY,P.N.
QST	62	9	780900	37 RICE,J.
ELEC	49	25	761209	113 NELSON,J.R.
WW	88	1555	820400	66 RYDER,D.
MOEL	8	1	910100	32 BLUM,D.P.
MESC	2	1	910100	49 SYLVAN,A.
RESC	56	9	850900	1723 CRANE,W.S.
JOPH	17	9	840900	788 HARRIS,L.B.
RESC	56	9	850900	1804 MITCHEL,G.R.

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RESC	55	2	840200	200 CHAPPELL, T.I.
POEL	12	5	771100	63 SCHNEIDER, D.W.
NIMA	274	1	890101	222 ANTON, G.
RAEL	58	3	870300	57 IOVINE, J.
MEBI	23	5	850900	479 MIFSUD, M.
HARA	23	6	900600	44 COVINGTON, M.A.
EWWW	97	1676	920700	598
M185	7	2	920600	267 ALGHUWAINEM, S.M.
RESC	54	8	830800	967 ALFANO, A.J.
MEBI	19	5	810900	665 SAINZ, A.J.
ELEN	61	747	890300	32 MCPHILLIPS, M.
RESC	62	1	910100	36 SAMPSON, D.D.
RESC	63	10	921000	4813 BRADLEY, D.K.
ELDE	32	9	840503	400 FILSETH, E.H.
POEL	11	3	770300	57 MILES, R.
AUDI	62	3	780300	42 CLEGG, A.
RESC	58	5	870500	807 LOVEJOY, C.M.
M050	26	1	880100	7 LEVESQUE, P.
QST	71	2	870200	33 HUDDLESTON, M.
PE	7	1	900100	70 CZARNIK, S.A.
VUD	0	0	921200	3 MCVEY, T.
HAEL	2	1	840100	30 RICHARDS, B.
QST	61	7	770700	22 SAYLOR, B.
ELWI	91	1592	850800	64 BUTT, N.
ELEC	49	2	760122	107 CRANEY, P.M.
QST	66	9	820900	43 RICHARDSON, H.
RESC	54	4	830400	493 BRACH, E.J.
ELEC	49	19	760916	105 LONGACRE, A., JR.
ELEC	49	24	761125	112 GWINN, J.
HAEL	3	3	860500	45 HADGIS, G.A.
CQ	39	6	830600	26 FRUITMAN, E.
ETT	11	9	870900	30 WHEEL, E.J.
RAEL	61	5	900500	10 JAMES, R.
M125	3	2	900400	46 DIXON, K.O.
OPLA	19	5	871000	249 AKBARI, H.
M013	15	8	830800	90 DAVIS, J.B.
HAEL	4	10	871000	34 HALA, L.
INJO	66	1	890100	109 POOKAIYAUDOM, S.
QEX	0	64	870600	7 PERKINS, F.H., JR.
AMJO	47	7	790700	593 SMITH, D.G.
73AM	0	265	821000	70 LUNSFORD, R.B., JR.
ITIM	33	1	840300	2 KHAN, A.A.
CQ	39	2	830200	89 SOLOV, E.
ITNS	61	12	901200	3745 SEIDMAN, D.N.
CHIN	8	1	770100	17 HUANG, S.-G.
RESC	54	6	830600	665 FEHL, D.L.
MOEL	5	11	881100	49 HARKEY, R.M.
ELEC	51	12	780608	148 PALM, W.A.
ELEN	61	748	890400	37 ZIRNGAST, M.F.

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EWWW	97	1662	910400	341	MCLOUGHLIN,M.
ETI	4	5	800700	67	CHIVERS,D.
80M1	0	30	820600	248	WELLS,R.
INJO	62	3	870300	361	VAEZI-NEJAD,S.M.
EDN	30	13	850613	199	ROGERS,G.
ELEC	50	18	770901	99	SAUL,P.
NIMA	256	3	870515	529	CHRISTIANSEN,J.
IEEE	128	2	810300	64	LESLIE,I.M.
POEL	19	5	810500	85	MIMS,F.M.
EDN	31	8	860417	242	CABOT,R.C.
RESC	50	10	791000	1239	MATSUDA,T.
PE	10	1	930100	70	RAKES,C.D.
7ART	0	395	930800	60	LEAVEY,M.I.
ELCH	87	0	780000	173	AOYAGUI,S.
NIMA	256	1	870415	112	NEELAKANTAN,K.
POEL	14	1	780700	44	SUTHEIM,P.
DIDE	12	6	820600	74	RUHBERG,D.L.
RAEL	56	5	850500	101	SAVAGE,E.
RESC	52	9	810900	1388	TAKI,S.
ELNO	64	2	930200	47	BECKER,D.
ELWI	92	1604	860600	62	
NIMA	305	2	910720	232	RICKEN,L.
HARA	15	6	820600	36	CROSS,H.H.
QST	70	7	860700	38	MANDELKERN,M.
EWWW	97	1676	920700	579	HICKMAN,I.
M026	229	1	900201	153	VICTORIA,L.
JOPH	17	11	841100	954	SCHOLFIELD,C.N.
NUIN	178	0	801200	401	BARTALUCCI,S.
BYTE	10	5	850500	143	PIETTE,E.H.
EDN	32	20	871001	194	BURANI,R.
CICE	0	29	921000	61	SWARTZENDRUBER,M.
RESC	53	9	820900	1410	MILLER,G.
REW	0	0	840700	52	TITMUSS,W.
COCR	2	1	920100	44	GOSS,N.
IJEE	26	4	891000	384	CLEVERLEY,I.R.
ELDE	35	20	870903	109	HARRIS,S.
M149	46	6	910600	741	HIEFTJE,G.M.
PE	9	8	920800	37	SPIWAK,M.
73AM	0	327	871200	80	BRYCE,M.
EDN	36	2	910121	152	GRAEME,J.
ELDE	36	25	881110	141	JIMENEZ-GARCIA,R.
RESC	61	5	900500	1379	SANNA,G.
POEL	17	2	800200	58	GREEN,B.
JOPH	21	1	880100	75	FAUBEL,M.
ELDE	36	25	881110	133	STITT,R.M.
NUIN	180	0	810200	53	DECLAIS,Y.
73AM	0	362	901100	22	BECK,M.
ITIM	40	2	910400	305	YOSHIDA,H.
EWWW	99	1684	930300	210	MATTOS,P.

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EDN	36	18	910902	166 HAASE,J.A.
EDN	37	22	921029	142 CIUBOTARU,A.
EDN	31	5	860306	223 KAPOOR,A.
ELDE	40	4	920220	104 ELLINGTON,S.
MESC	3	8	920800	775 BAKER,R.J.
HARA	14	4	810400	32 JAEGER,O.
ITMA	25	1	890100	256 JAMISON,K.A.
M052	11	3	890900	405 TROPP,J.
RESC	63	12	921200	5799 BAKER,R.J.
RESC	64	2	930200	342 JAFFE,S.M.
M015	233	2	841100	247 BALZER,R.
ELWI	93	1613	870300	296 KRAUS,K.
RAEL	57	6	860600	32 YOUKERSUR,D.J.
73AM	0	267	821200	28 MCCARTHY,C.
ITPE	4	3	890700	371 SIMAS,M.I.C.
QST	66	12	821200	52 LEIBOWITZ,M.
ITPE	5	3	900700	293 LIU,K.-H.
RFDE	12	1	890100	58 BOWMAN,C.
RESC	55	9	840900	1464 HOLCOMBE,B.V.
EDN	29	10	840517	187 LANGE,J.
ELDE	28	21	801011	191 NATRASEVSCHI,A.
RESC	64	2	930200	568 MEDDENS,B.J.H.
MIMI	15	8	911000	427 MALLEM,M.
MOEL	7	9	900900	50 PETERSON,R.
RAEL	61	11	901100	49 KOLLER,J.G.
PE	9	12	921200	42 MITSCHKE,L.
HAEL	3	1	860100	53
RESC	49	9	780900	1355 JONES,E.D.
PE	8	6	910600	53 STEPHENS,J.
ELNO	64	5	930500	41 LYMPANY,S.
NIM	213	2	830801	547 GOTTSCHALK,B.
RESC	61	2	900200	925 BERNIUS,M.T.
ITIE	37	6	901200	544 JOVANOVIC,M.M.
EDN	34	25	890712	260 HWANG,S.-F.
EDN	32	22	871029	63 GALLANT,J.
MOEL	7	12	901200	53 DESPOSITO,J.
EWWW	97	1663	910500	439
ELEN	61	754	891000	16
HAEL	4	7	870700	38 WEATHERWAX,S.
EDN	36	7	910328	162 WILLIAMS,J.
EWWW	97	1669	911200	1005 BRADBURY,D.
EDN	35	22	901025	161 WILLIAMS,J.
EDN	32	24	871126	191 WILLIAMS,J.
EDN	30	15	850627	231 WILLIAMS,J.
EDN	37	22	921029	125 WILLIAMS,J.
ITIE	35	1	880200	153 BHAT,A.K.S.
JOPH	14	5	810500	555 JURGA,K.
NIMA	253	2	870101	222 CATANESI,M.G.
M060	8	3	880300	186

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ELDE	40	16	920806	69	GEORGE,M.J.
RESC	54	5	830500	586	ERICKSON,G.F.
EDN	29	12	840614	217	ROBERTS,L.
RESC	58	4	870400	696	SANDSTROM,R.L.
RAEL	56	2	850200	90	KEYERLEBER,J.P.
QST	67	12	831200	17	SHRINER,B.
COCR	1	1	910400	48	VONPAWLAK,C.
73AM	0	329	880200	63	TAYLOR,G.
ETI	7	11	831100	76	PICKEN,F.W.
REW	0	0	840400	55	WILSON,G.D.
QST	61	1	770100	16	BRUIN,F.
ELDE	31	14	830707	146	SMITH,F.P.
73AM	0	281	840200	60	CIKAS,B.
MEBI	23	5	850900	435	NAUMANN,S.
CICE	0	7	890100	8	NISLEY,E.
POEL	20	3	820300	101	
HAEL	2	6	851100	5	
73AM	0	348	890900	28	GEIER,M.
QST	68	8	840800	23	DIERSING,R.J.
MIMI	9	8	851000	405	VAIDYA,D.M.
MIMI	9	9	851100	440	AL-AMBUKY,A.H.
PE	6	4	890400	33	AXELSON,J.
CLEN	15	5	900900	381	PASSARIELLO,G.
ETT	13	5	890500	57	BAILEY,P.
JOEX	118	0	850900	423	HAGAN,S.
ELWI	91	1591	850500	54	THOMAS,L.D.
ELWI	92	1606	860800	56	BROWN,M.P.
JOPH	17	10	841000	839	PROUT,E.G.
JOPH	21	1	880100	108	KATZ,I.M.
ELWI	90	1578	840300	44	SRIVATSA,K.
EDN	28	12	830609	182	CATTO,C.J.D.
ELDE	38	8	900426	108	LAKSHMINARAYANAN,V
CLCH	21	2	750200	249	PARDUE,H.L.
PE	10	12	931200	68	RAKES,C.D.
RAEL	58	6	870600	45	ORTMAN,R.
ITNS	35	1	880200	197	NAKAMURA,M.
EDN	28	14	830707	308	DOWNS,S.
QST	66	6	820600	29	DEMAW,D.
HAEL	2	3	850300	60	SCOTT,R.F.
HAEL	4	8	870800	42	SCHOPP,W.
73AM	0	273	830600	84	DANZER,P.M.
73AM	0	355	900400	34	GEIER,M.J.
PHTE	30	8	921100	488	CHAGNON,P.
ELTO	10	12	861200	65	KEMP,I.P.
ELWI	92	1610	861200	43	HARTLEY,J.
HAEL	5	3	880300	42	EICHENBERG,D.
NIMA	234	2	850201	302	BUDAGOV,Y.A.
73AM	0	334	880700	40	HOTINE,W.
WW	87	1551	811200	63	EWINS,A.J.

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EWWW	98	1681	921200	1011 NAGARAJ,M.S.
RAEL	55	12	841200	80 GROSSBLATT,R.
ELEC	50	26	771222	78 ANGLIN,M.E.
ELTO	10	7	860700	12 COX,D.
RAEL	58	2	870200	96 GROSSBLATT,R.
RESC	54	1	830100	100 BUNCICK,M.C.
JOPH	19	1	860100	67 PANICKER,P.R.M.
NIM	216	1	831015	165 SCHEMMERLING,K.
RFDE	12	7	890700	53 HARRIS,T.
73AM	0	266	821100	14 WILLIMAN,G.
ANCH	50	4	780400	665 VASSOS,B.H.
EWWW	97	1669	911200	1052 KIRWAN,K.R.
ELNO	64	3	930300	69 MELTON,J.
73AM	0	264	820900	38 ELLIS,D.N.
EWWW	96	1647	900100	28 VARKEY,G.
EUNE	3	3	770402	3 WINSBORROW,R.P.J.
ETI	7	3	830300	71 GILES,S.P.
POEL	19	5	810500	84 MCVEIGH,J.
ELDE	31	25	831208	216 KAPPETIJN,H.
EWWW	97	1674	920500	422 MILLAR,A.H.
POEL	19	10	811000	102 MIMS,F.M.
ELDE	41	10	930513	69 WOODWARD,W.S.
ELNO	64	7	930700	31 JACKSON,R.M.
ELWI	90	1578	840300	43 PURVES,R.D.
HARA	22	9	890900	56 MARRINER,E.
QST	70	9	860900	50 COLUMBUS,F.M.
AUAM	18	3	870700	50 DELL,R.B.
JONE	31	3	900300	215 MUHLETHALER,M.
EEU	2	2	911200	47 TIWANA,A.B.
EWWW	99	1683	930200	146 MATTOS,P.
CODE	20	6	810600	156 RONY,P.R.
ELEN	57	707	851100	40 PARKES,S.M.
NUIN	173	0	800600	613 DAWSON,J.W.
HARA	20	1	870100	8 MURDOCH,E.
NIMA	309	3	911115	508 GARNETT,R.
RAEL	55	4	840400	45 GROSSBLATT,R.
REW	0	0	840400	37 MARSTON,R.
ELTO	8	7	840700	47 WALKER,P.
73AM	0	334	880700	80 BRYCE,M.
ELNO	63	12	921200	12 GILLAN,J.
73AM	0	342	890300	66 CAMERON,B.
NIM	207	0	830300	417 GOTTSCHALK,B.
JOPH	13	8	800800	888 FACKRELL,J.E.
RESC	53	7	820700	1093 MENDERS,J.
ELDE	32	5	840308	129 BHATNAGAR,R.
73AM	0	337	881000	40 HOUGHTON,C.L.
RESC	62	12	911200	3092 CARANTI,G.M.
APSP	41	2	870200	308 GOLDBERG,J.M.
M002	13	142	870200	58 TEDER,W.

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ELWI	90	1583	840900	75 DARLINGTON,J.N.
POEL	12	1	770700	69 COGSWELL,J.M.
M048	2	1	880200	32 HEYNING,B.
RESC	57	9	860900	2242 MAY,R.D.
RAEL	54	10	831000	56 SELLEN,C.K.
ELDE	30	18	820902	196 CARPENTER,D.S.
INJO	62	1	870100	93 KHAN,A.A.
ITIE	36	3	890800	452 GIACOLETTO,L.J.
ITBE	36	8	890800	858 VAROSI,S.M.
PHED	25	3	900500	169 DEVAN,K.R.S.
MESC	1	8	900800	751 BUIJSERD,A.N.
WW	89	1566	830300	63 GREENLAND,D.J.
ELEC	48	18	750904	117 BLOGG,T.
ELEN	58	713	860500	119
HAEL	6	1	890100	24 WELS,B.G.
MESC	1	6	900600	491 BRAY,S.L.
QST	70	11	861100	35 WILLIS,K.
MOEL	6	5	890500	46 VAN LOENEN,A.
M093	18	3	860300	5 BAILEY,J.
EEU	2	2	911200	38 EHLERS,H.J.
RESC	56	9	850900	1780 NGUYEN,K.
LAPR	31	5	820500	446 OWEN,D.
EDN	34	13	890622	231 KHALSA,N.S.
AMJO	50	2	820200	187 METZ,R.N.
ELTO	11	1	870100	47 BECKER,J.
INJO	63	6	871200	891 RAMESHU,C.
ETT	11	9	870900	39 TOOLEY,M.
73AM	0	283	840400	102 CEBIK,L.B.
BYTE	10	3	850300	98 CIARCIA,S.
M002	13	141	870100	38
POEL	16	5	791100	81 CARISTI,A.J.
RESC	53	5	820500	691 GERBER,J.A.
RAEL	57	12	861200	65 NASSAR,D.
COEL	21	2	830200	118 MIMS,F.M.
CICE	0	34	930500	44 NISLEY,E.
BYTE	12	10	870900	115 CIARCIA,S.
MISY	4	11	831100	106 BENDER,A.L.
RESC	51	10	801000	1396 GANDER,R.E.
RFDE	9	7	860700	55 HELFRICK,A.
POEL	18	1	800700	46 PRENTISS,S.
ELDE	36	24	881027	109 PAI,P.K.
CQ	48	4	920400	58 ORR,B.
INJO	73	6	921200	1347 SUGIZAKI,G.
RAEL	50	9	790900	68
EDN	36	17	910819	137 OXNER,E.
RFDE	10	7	870700	31 WENZEL,C.
ELDE	30	20	820930	173 MARTINEZ,P.A.M.
ELDE	33	13	850606	143 WATSON,D.
ETT	13	1	890100	44 RIMMER,S.

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EWWW	97	1661	910300	244 XIA,Y.
73AM	0	276	830900	98 SWIRSKY,R.
POEL	14	5	781100	113 MIMS,F.M.
MISY	4	11	831100	18 HARDY,D.
ELEC	55	11	820602	173 CARTY,L.
POEL	15	5	790500	77 MIMS,F.M.
DIDE	16	7	860600	72 HOLLEY,M.
RESC	58	5	870500	881 SWARTZ,E.T.
MEBI	22	2	840300	184 DURIE,N.D.
MISY	5	4	840400	18 HARDY,D.
73AM	0	291	841200	34 MYERS,B.
APSP	42	8	881100	1379 WILLIAMS,J.C.
JOMA	88	3	900700	511 ZOLNAI,Z.
JOCH	63	3	860300	276 GILMARTIN,G.
JOPH	16	5	830500	394 PAPAIOANNOU,D.
TRAS	29	4	860700	1136 MITCHELL,B.W.
RESC	50	9	790900	1120 GOLDSMITH,P.F.
APSP	35	2	810300	176 DEWALT,F.G.
ANCH	53	4	810400	645 MARINO,D.F.
IJPA	27	9	890900	648 BHORASKAR,V.N.
ELDE	32	18	840906	270 ABELL,E.
BYTE	8	6	830600	23 NEBEN,H.M.
ELWI	92	1611	870100	23 CLARKE,D.E.A.
EDN	30	15	850627	244 VALLIANT,H.D.
EWWW	96	1647	900100	30 MALHERBE,J.
INJO	54	6	830600	865 VELAYUDHAN,C.
M037	51	1	840100	45 EILTS-GRIMM,K.
RESC	51	1	800100	14 YAGI,A.
APSP	33	6	791100	613 SIEMER,D.D.
ITBE	37	5	900500	544 HEWETT,F.W.
ELNO	64	5	930500	12 SHERIF,B.
RESC	57	8	860800	1523 MILLER,R.L.
CODE	19	11	801100	199 PERRY,M.G.
ELTO	10	4	860400	35 BEDFORD,M.
ELTE	2	12	791200	28 FROEHLKE,T.
CHBI	12	3	820300	185 WONG,M.
MISY	4	9	830900	80 BRAY,D.W.
ITIM	36	3	870900	750 BURKE,N.J.
EDN	28	18	830901	168 DUNN,G.
ITCS	35	2	880200	254 KAZIMIERCZUK,M.K.
JOPH	13	8	800800	826 WELSH,B.L.
AUAM	16	2	850300	42 SCHREIBER,B.
RESC	48	10	771000	1353 KYSER,D.S.
LAMI	11	1	920100	17 BALASUBRAMANIAN,K.
ELNO	63	11	921100	13 HEWIT,J.
POEL	20	5	820500	89 MIMS,F.M.
BYTE	8	5	830500	402 GLASCO,D.B.
ELDE	27	9	790426	110 SIKONOWIZ,W.
CQ	39	3	830300	46 SCHULTZ,J.J.

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MEBI	23	6	851100	597 MILLER,G.E.
BYTE	6	4	810400	36 CIARCIA,S.
CODI	2	6	850600	12 STEPHENS,J.
ELEN	57	703	850700	30 YADAGIRI,G.
EDN	33	4	880218	244 MCCLELLAND,B.
RAEL	59	7	880700	93 STARK,P.A.
BYTE	2	11	771100	80 JONES,H.D.
73AM	0	264	820900	103 HALL,W.S.
EWWW	97	1661	910300	244 QING,H.Y.
HARA	15	3	820300	44 GOTTLIEB,I.
ELTO	10	11	861100	54 WISE,B.
QST	69	8	850800	13 SCHICK,M.F.
JOPH	13	2	880200	222 FERNANDES,P.
RFDE	9	7	860700	54 DODSON,G.
BYTE	4	10	791000	58 CIARCIA,S.
ELDE	38	14	900726	69 XIA,Y.
RESC	53	8	820800	1281 GILBERT,R.E.
ELDE	32	7	840405	161 HUYGHE,M.
ETI	7	1	830100	84 WIKE,J.
QST	66	11	821100	38 NEBEN,H.M.
JOMA	70	1	861015	140 BOGAN,J.S.
ELEN	56	691	840700	28 BALL,K.
QST	68	7	840700	34 STUDEBAKER,L.
EDN	32	2	870122	246 KAUTZ,R.
ELEC	51	3	780202	114 TANSKI,T.R.
RESC	58	2	870200	185 MENZEL,R.
POEL	11	1	770100	34 MCVEIGH,J.
ETI	7	4	830400	72 CAMPBELL,I.S.
ELTO	9	8	850800	42 JONES,P.
AMJO	54	1	860100	88 SIMPSON,H.M.
ELEN	56	691	840700	31 GLOWACKI,S.W.
HARA	15	6	820600	32 BLAKESLEE,D.A.
EDN	30	9	850418	282 FOX,G.
ANIN	16	4	870400	447 PATTERSON,W.I.
EDN	28	12	830609	179 HURD,T.
JOPH	22	2	890200	131 WILSON,K.J.
ITIE	36	1	890200	76 AHMAD,W.
RESC	50	7	790700	921 KUMANO,M.
RFDE	12	9	890900	38 CARROLL,G.
IJPA	26	11	881100	678 PHADKE,K.W.
RESC	61	10	901000	2552 FAGUY,P.W.
ELWI	90	1580	840500	52 LABIB,G.A.M.
CHIN	8	3	780300	197 LUNDBERG,E.
EEU	2	6	920400	14 DE BELIE,J.
EDN	38	5	930304	132 LIU,D.
PCW	6	5	830500	118 SIMMONDS,A.J.
ELEC	49	19	760916	102 SALVATI,M.J.
ELWI	93	1616	870600	605 UDBY,J.
IJEE	22	2	850400	169 LEE,M.R.

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73AM	0	270	830300	110 JOFFE,A.
JOCH	57	12	801200	878 MUHA,G.M.
ELDE	38	15	900809	106 MAYER,R.
RAEL	62	10	911000	87 FISCHER,G.
ELWI	91	1593	850900	57 POTTER,D.H.
ELDE	37	10	890511	115 HOOVER,G.
MESC	1	8	900800	828 ROSS,J.N.
MOEL	7	9	900900	16 O'CONNELL,J.
JOPH	16	12	831200	1234 KREIN,P.T.
73AM	0	318	870300	42 GARDINER,W.S.
RESC	58	10	871000	1840 DERANLEAU,D.A.
BYTE	5	1	800100	156 CONBOY,T.
IEEP	126	4	790400	285 CHAKRAVARTHY,C.V.
IJEE	28	3	910700	212 AHMAS,W.
ELDE	32	11	840531	293 HILL,R.H.
ELDE	31	26	831222	189 TALMOR,S.
RESC	54	2	830200	245 HEIDER,S.M.
ELWI	93	1617	870700	695 SULLIVAN,G.
INJO	54	2	830200	361 GEORGE,J.
NIMA	222	3	840501	582 RANPURA,A.D.
IJEE	20	2	830400	169 TURNER,M.J.
QST	65	9	810900	24 HAYWARD,W.
EDN	31	21	861016	225 MARTINEZ,J.
HAEL	5	5	880500	43 DAVIDSON,H.L.
EDN	28	22	831027	329 TROUTMAN,R.C.
NIMA	286	1	900101	235 ROY,A.
MOEL	7	1	900100	24 JOHNSON,M.P.
ANCH	54	7	820600	1214 BUELL,S.L.
PE	8	2	910200	59 YACONO,J.
EWWW	97	1665	910800	658 TOOLEY,M.
ELDE	39	21	911107	105 SEKSO-TELENTO,I.
JOMA	96	2	920201	302 JURGA,K.
73AM	0	262	820700	46 FANT,A.,JR.
JOPH	15	10	821000	997 JONES,H.G.
EDN	37	1	920102	106 POMOZI,A.
QST	67	8	830800	33 NEBEN,H.M.
COEL	22	12	841200	22 MIMS,F.M.,III
ELMU	4	5	880500	30 RYCKEBUSCH,J.
RESC	52	2	810200	293 WEINFELD,M.
RESC	60	9	890900	3012 VAN BRUNT,R.J.
ANCH	54	11	820900	1888 GERHARDT,G.A.
PE	8	4	910400	77 RAKES,C.D.
ELDE	40	4	920220	103 KEESE,K.G.
ELDE	40	7	920402	83 SIEBOTT,J.C.
EDN	38	10	930513	162 VANDANA,J.
ELDE	32	14	840712	206 YADAGIRI,G.
ITED	31	3	880800	165 GANESAN,S.
RAEL	51	9	800900	47 CIARCIA,S.A.
ITC2	39	4	920400	243 KUROKAWA,T.

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JOMA	64	1	850800	124 MUI,D.S.L.
JOPH	20	10	871000	1199 SRIDHARAN,R.
JOPH	14	10	811000	1178 HEDDLE,J.F.
NIMA	248	2	860801	434 IQBAL,M.Z.
POEL	13	2	780200	41 VINCENT,D.
INJO	55	5	831100	751 JOSHI,S.S.
ITIM	41	2	920400	203 FERRERO,A.
7ART	0	397	931000	35 CORNELL,K.
POEL	12	4	771000	49 LANCASTER,D.
73AM	0	269	830200	99 TAKARADA,E.
7ART	0	380	920500	64 BRUMBAUGH,J.F.
ELDE	28	15	800719	191 CHAMBERS,M.
PE	10	1	930100	72 YACONO,J.J.
ELEN	60	735	880400	27 TJALLAS,G.D.
EDN	34	1	890105	208 O'FARRELL,J.J.
EEU	2	5	920300	58 EVANS,R.G.
HARA	21	5	880500	60 CARR,J.
ELEN	55	679	830700	31 SPOREA,D.
80M2	0	41	830600	270 BARBARELLO,J.J.
HAEL	2	6	851100	91 COOPER,J.T.
HAEL	3	4	860700	88 SCOTT,R.F.
73AM	0	323	870800	58 PUTMAN,P.H.
JOCH	61	12	841200	1114 TRIMM,H.H.
QST	70	7	860700	30 HEIL,B.
EDN	32	4	870219	200 HELFRICK,A.
ETT	12	3	880300	22 TOOLEY,M.
EWWW	96	1655	900900	799 IBRAHIM,D.
ELEC	55	17	820825	107 SANCHOLUZ,A.G.
BYTE	6	5	810500	360 NICHOLSON,J.
EDN	29	19	840920	290 WALKER,R.
ETT	13	3	890300	22 DE VAUX-BALBIRNIE,
PE	8	9	910900	32 GRAY,G.
RAEL	56	5	850500	108 GROSSBLATT,R.
ELDE	30	3	820204	150 SIEBERT,R.
JOCH	66	10	891000	877 ARMSTRONG,N.R.
ITIM	39	3	900600	508 DENTON,D.D.
73AM	0	360	900900	32 BAUMGARTNER,F.M.
M076	5	2	850400	53 FARO,A.
QST	67	1	830100	34 NEBEN,H.M.
RAEL	58	1	870100	82 GROSSBLATT,R.
COPR	21	5	810900	47 BARBARELLO,J.
HAEL	3	1	860100	62
ELWI	92	1599	860100	37 KUBER,V.B.
ELWI	92	1599	860100	37 BUKHARI, M.K.S.
POEL	19	8	810800	90 MIMS,F.M.
ELEC	49	6	760318	107 CICCHIELLO,F.N.
ELWI	91	1596	851000	40 HADLEY,M.R.
ANIN	14	2	850200	155 PATONAY,G.
73AM	0	273	830600	106 LITTLE,R.

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ELWI	90	1586	841200	31 NICHOLLS,P.
ELWI	90	1584	841000	29 PROTHEROE,D.
HARA	21	9	880900	42 MOORE,M.S.R.
JOCH	63	1	860100	80 VOHRINGER,E.G.F.
ETT	14	2	900200	16 BOWES,C.
BYTE	5	6	800600	122 KINZER,D.
EDN	35	17	900820	154 PURCELL,M.
WW	89	1566	830300	28 BRUIN,P.E.
RESC	62	2	910200	357 MAPS,J.
COCR	2	11	921100	62 THOMPSON,D.
BYTE	4	9	790900	160 CHRISP,B.
EWWW	97	1660	910200	116 IVANOV,Y.
80M2	0	45	831000	176 BARBARELLO,J.J.
PHED	23	5	880900	306 KRUGLAK,H.
7ART	0	365	910200	76 BROWN,B.
ANCH	55	13	831100	2036 COLLINS,R.J.
73AM	0	269	830200	32 KROHN,T.P.
PE	9	2	920200	49
80M1	0	30	820600	128 HART,B.
EUMI	6	2	800200	83 DAVID,D.J.
JOCO	7	4	880400	66 POWERS,M.H.
PE	8	1	910100	22 WELS,B.G.
RAEL	56	7	850700	61 SCOTT,R.F.
JOPH	19	6	860600	436 KEITH,W.D.
M078	7	5	880500	159 BOND,A.M.
SKTE	75	1	880100	80 LEIKER,S.
RAFU	0	12	920700	13 BROWN,B.
RESC	60	5	890500	839 FINCH,A.
JOPH	15	7	820700	776 MUNCH,R.
73AM	0	264	820900	10 HEARN,A.D.
RAEL	53	2	820200	80 SAVAGE,E.
M064	13	1	910100	83 EVANS,N.E.
BYTE	9	7	840700	179 TYMONY,C.
73AM	0	338	881100	49 FISHER,R.
73AM	0	271	830400	106 BUCKINGHAM,B.
JOPH	20	12	871200	1518 HOWELL,S.K.
PE	7	7	900700	80 RAKES,C.D.
RESC	49	1	780100	63 KRIZAN,M.
M030	35	7	900700	1025 CHAMBERS,I.R.
APSP	42	6	880800	961 KARANASSIOS,V.
73AM	0	292	850100	50 RUMBOLT,R.
73AM	0	357	900600	70 HOUGHTON,C.L.
AUAM	21	2	900400	59 COX,S.W.
QST	67	12	831200	26 FREEBERG,S.M.
CQ	46	12	901200	18 CERVANTES,H.
HARA	14	7	810700	42 POWELL,K.
QST	71	4	870400	40 REYER,S.E.
RAEL	56	2	850200	82 SAVAGE,E.
73AM	0	280	840100	96 BLACKMON,J.

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POEL	19	1	810100	66 LEWART,C.R.
M019	59	6	851100	552 MITRA,A.
POEL	19	6	810600	93 HARRIS,E.B.
HARA	22	6	890600	27 BERTINI,P.J.
ELDE	31	21	831013	166 BAZAZ,G.S.
EDN	28	10	830512	224 MURUGAN,M.K.
ELWI	93	1619	870900	908 EVANS,N.E.
EEU	2	2	911200	73 LAUSCHES-DRESS,G.
PE	7	1	900100	43 TYSON,E.T.
MESC	1	6	900600	523 DURAN,P.
JOPH	17	8	840800	653 WHITEHEAD,D.G.
CQ	46	10	901000	34 SOMERS,J.R.
73AM	0	267	821200	122 STIGNEY,R.
BYTE	7	1	820100	332 ANGEVINE,W.
RAEL	56	2	850200	69 VACHON,G.
RAEL	55	12	841200	69 VACHON,G.
ITBE	30	4	830400	234 FURNO,G.S.
ELDE	40	4	920220	122 ATKINS,M.
JOPH	17	4	840400	276 BASSI,D.
ELTO	11	2	870200	95 LEADLY,S.
BYTE	10	5	850500	109 CIARCIA,S.
ELCI	135	1	880200	1 AL-KHALILI,A.J.
MOEL	8	3	910300	18 SOKOLOWSKI,S.
CQ	41	6	850600	26 REED,J.C.
HARA	20	6	870600	8 LITTLEFIELD,R.
ELMU	3	11	871100	80 CANO,H.
BYTE	6	6	810600	18 RUSSO,M.A.
7ART	0	375	911200	10 WILLIAMS,B.O.
ELNO	64	11	931100	53 HAMPSHIRE,F.
BEBR	26	2	860300	2 OGILVIE,I.
ELDE	37	12	890608	75 RAUH,G.
RESC	57	12	861200	2995 SEDLMAIR,J.
RAEL	59	7	880700	76 GROSSBLATT,R.
NUIN	174	0	800800	585 REITER,W.L.
CICE	0	26	920400	62 OSCARSON,E.
RAEL	56	12	851200	98 GROSSBLATT,R.
NIM	201	0	821000	261 HENDRICKS,R.W.
ETI	7	9	830900	58
COSY	1	2	860100	93 BOWEN,J.
RAEL	61	3	900300	8 MCCALLA,M.
MESC	1	12	901200	1265 HOWELL,S.K.
ITIM	38	1	890200	32 MINONI,U.
RESC	60	7	890700	1338 SCHREIFELS,J.A.
RAEL	54	7	830700	76 SAVAGE,E.
POEL	15	2	790200	82
ELTO	11	5	870500	26 COX,D.E.
ELDE	30	1	820107	308 ZARNESCU,S.
COCR	1	6	910900	44 ALFORD,R.C.
7ART	0	382	920700	18 LYSTER,C.

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RAEL	51	11	801100	78 ESSEX,J.
ELDE	30	20	820930	176 WICKENS,R.
73AM	0	308	860500	50 GEBUHR,J.M.
ELEN	55	673	830100	26 CHEER,A.P.
ELDE	36	14	880623	120 OLENKI,A.
RESC	60	2	890200	181 STUPIAN,G.W.
SKTE	73	2	870200	208 EVERHART,E.
NIMA	256	2	870501	305 GREEN,D.
ITED	34	2	910500	189 SANYAL,S.K.
RESC	51	7	800700	1002 SMITH,O.I.
RESC	50	7	790700	829 ABBAS,D.C.
EDN	36	4	910218	184 UNDERWOOD,B.
EEU	2	4	920200	41 LEMON,L.
JOPH	15	2	820200	175 GOODWIN,G.L.
RESC	48	11	771100	1506 KRAUSZ,E.
EDN	36	6	910314	95 MCCUNE,E.,JR.
ETI	7	7	830700	24
ELDE	34	11	860515	129 SCOFIELD,G.
M060	8	3	880300	175 KINGHORN,J.
RESC	50	6	790600	730 SIMPSON,R.W.
73AM	0	360	900900	70 HOUGHTON,C.L.
7ART	0	371	910800	38 HARDING,A.
ELDE	27	6	790315	94 BRAINARD,R.E.
ELEC	49	15	760722	121 GORAJEK,A.
ETI	7	5	830500	65 VELDER,H.
JOPH	19	4	860400	260 HANKIEWICZ,J.
INJO	62	2	870200	229 RAMESHU,C.
INJO	57	2	840800	289 HAQUE,S.E.
JOPH	13	4	800400	457 KENT,M.
JOCH	67	8	900800	716 HON,P.-K.
EDN	35	19	900917	185 ANDERSSON,R.
MBE	14	6	761100	681 SALTZ,E.C.
JOMA	45	2	811100	352 CHACE,A.B.
JONE	39	1	910800	45 MATHESON,T.
ELEN	64	784	920400	30 WILES,I.M.
ANCH	59	9	870501	1364 VOIGTMAN,E.
POEL	12	4	771000	86 GARNER,L.
INJO	57	5	841100	709 KHAN,A.A.
ITIM	29	1	800300	77 BISWAS,R.N.
EWWW	97	1676	920700	587 MICHELE,F.
POEL	18	4	801000	32 PRENTISS,S.
CQ	39	6	830600	76 INGRAM,D.
73AM	0	345	890600	44 SMITH,T.
ITCS	36	9	890900	1250 SINGH,V.
ELWI	90	1581	840600	52 HUNT,J.R.
ETI	8	2	840200	64 BISHOP,O.
JOPH	17	7	840700	567 SZYPOWSKI,C.
RAEL	59	4	880400	72 LANCASTER,D.
JOPH	13	5	800500	496 POPKIROV,G.

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RESC	48	12	771200	1706 JAYAKUMAR,R.
CODI	2	2	850200	10 FRIEDMAN,H.
JOPH	19	10	861000	792 MUKHOPADHYAY,P.
AMJO	51	12	831200	1077 CAMPARO,J.C.
EDN	30	12	850530	193 DAMOUNY,N.G.
EDN	35	12	900607	136 SCHAFFER,G.
NATE	10	4	860700	38 MITCHELL,J.T.
ELNO	63	11	921100	68 LANCASTER,D.
RESC	62	7	910700	1813 WNUK,J.J.
ELDE	39	14	910725	131 MICHELE,F.
ELNO	63	8	920800	44 MARSTON,R.M.
ELEC	51	13	780622	124 ANDREN,C.
ELDE	40	21	921015	104 VARGHA,D.
MIMI	8	5	840600	237 BOENING,W.
ITIE	31	3	840800	268 RATHORE,T.S.
EDN	33	12	880609	229 SHIER,J.
WW	89	1566	830300	61 HERRERO,F.J.
M142	37	4	900700	295 DRISCOLL,M.M.
CLEN	14	6	891100	493 IMPERIALE,C.
7ART	0	379	920400	36 CURRY,D.
JOPH	15	8	820800	814 ROBINSON,F.N.H.
NIM	189	0	811000	199 GRIME,G.W.
ELEC	50	2	770120	99 LACY,R.H.
7ART	0	386	921100	8 MARRIS,R.Q.
M114	1	3	890300	11
HAEL	4	3	870300	25 WELS,B.G.
ELAU	52	12	901200	92 ROWE,J.
RAEL	53	8	820800	68 SAVAGE,E.
M056	6	7	880300	50 MACASSEY,J.
QST	67	12	831200	38 PAGEL,P.K.
POEL	11	6	770600	64 GREEN,B.
MOEL	5	6	880600	44 CARISTI,A.J.
RAEL	60	2	890200	63 PALMER,A.
M076	9	4	890800	31 JELEMENSKY,J.
MIMI	15	9	911100	503 MCCARTNEY,D.
EDN	30	7	850404	241 BEIMS,B.
NIM	192	0	820100	501 MURAYAMA,H.
PHED	17	3	820500	128 BLIGH,P.H.
ETT	16	2	910200	31
ELWI	90	1584	841000	34 GHAFFARIAN,V.
ELDE	36	17	880728	153 WILCHER,D.
EDN	36	22	911024	174 PILOT,S.
QST	69	11	851100	23 HELFRICK,A.
MEBI	24	3	860500	333 SMITH,R.E.
RESC	52	9	810900	1400 BARTHWAL,S.K.
M109	32	5	890500	315 COCHRAN,S.R.
RFDE	12	7	890700	35 BAKER,D.
QEX	0	84	890200	14 CARTER,C.
PE	6	12	891200	82 RAKES,C.D.

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PE	8	6	910600	58 YOUNG,R.A.
EEU	2	2	911200	75 WALTERS,K.
ELDE	40	16	920806	55 GIACOMINI,J.D.
POEL	19	6	810600	73 GROSS,T.A.O.
POEL	15	2	790200	57 BISEY,R.B.
73AM	0	345	890600	26 COATES,K.
QST	74	3	900300	31 DEMAW,D.
PE	8	3	910300	31 HUBSCHER,R.
EEU	2	2	911200	51 ZEILLER,W.
CHBI	12	2	820200	77 MELROY,O.R.
EWWW	97	1664	910600	517 XIA,Y.
EEU	2	9	920700	53
M113	10	12	911200	102 CHEEK,B.
JOPH	19	10	861000	787 PLAYER,M.A.
QST	67	11	831100	16 CZERKIES,P.
JOMA	63	3	850700	629 MORRIS,G.A.
ELWI	92	1606	860800	43 FROST,B.J.
HAEL	3	2	860300	66 FRIEDMAN,H.
EDN	31	5	860306	258 KNIPFER,J.
AMJO	55	12	871200	1147 PEIRIS,M.G.C.
EDN	30	13	850613	194 DONOVAN,D.J.
ETT	12	11	881100	38 BRINDLEY,K.
NUIN	177	0	801100	433 MURAYAMA,H.
EWWW	97	1659	910100	28 GRAY,W.
MEBI	29	6	911100	618 MCGILLIVRAY,R.
EWWW	97	1673	920400	317 LAWSON,J.
ELEN	56	694	841000	37 HOUGHTON,D.
ITIM	37	1	880300	53 IGLESIAS,G.E.
73AM	0	347	890800	34 WATERS,W.
EDN	35	9	900426	230 SHERMAN,D.
QST	62	11	781100	29 OVERBECK,W.
EDN	31	24	861127	240 NGO,D.
ELDE	37	20	890928	61 SPONRING,O.
ELTO	8	6	840600	38
ELTO	10	9	860900	34 DIXON,L.
LAMI	4	1	850100	5 GOLD,V.
MIMI	9	9	851100	427 GIRMA,D.
QST	73	12	891200	18 HAYWARD,W.
ITIM	28	1	790300	32 HANNA,N.N.
COCR	2	1	920100	14 FOX,T.R.
INJO	59	2	850800	199 TAHA,S.M.R.
73AM	0	274	830700	32 BEYER,R.
RAEL	60	2	890200	55 SHEETS,W.
73AM	0	268	830100	40 BATIE,H.F.
BYTE	9	7	840700	125 CIARCIA,S.
ELTO	10	1	860100	49 SAGE,L.
ITBE	33	10	861000	905 TOWE,B.C.
73AM	0	285	840600	10 BERARDI,J.
ITCS	35	1	880100	26 SINGER,S.

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APSP	40	4	860700	567 SNEDDON,J.
ELEC	55	22	821103	117 NISSINK,H.F.
JOPH	15	9	820900	887 RIGHINI,G.
BYTE	7	8	820800	380 MORALES,A.J.
JOPH	20	7	870700	841 WILSON,B.
EDN	32	23	871112	209 KHAN,A.
M002	13	146	870600	51
INJO	67	2	890800	297 LEISTEN,J.M.
CLEN	12	6	871100	441 WALD,R.W.
ELDE	29	18	810903	187 GALLAGHER,M.
ELWI	92	1610	861200	61
ELWI	89	1574	831100	60 KIRBY,S.
ELEC	55	13	820630	132 SALVATI,M.J.
AGEN	60	12	791200	24 JOHNSON,A.T.
RESC	55	10	841000	1696 SHEPHERD,J.P.
COPR	21	4	810700	69 NOLL,E.
RAEL	53	5	820500	67 MAKOSINSKI,A.
EDN	28	5	830303	140 BOUTIN,N.
EDN	27	19	820929	106 WILLIAMS,J.
AGEN	60	3	790300	14 ALLISON,J.M.
ANIN	20	4	920400	223 COMBS,R.J.
BYTE	9	5	840500	366 GATES,S.C.
M125	3	2	900400	94 CYR,L.
ELEC	51	2	780119	109 TUNG,T.
MOEL	6	5	890500	38 AXELSON,J.
PHTE	28	5	900500	332 LEIKER,P.S.
M076	4	2	840400	10 STIGALL,P.D.
M076	5	1	850200	7 MOSS,R.H.
EDN	29	16	840809	165 JUNG,W.
EEU	2	2	911200	48 MOSER,H.
HAEL	3	1	860100	67
INCO	3	6	850700	11 BERG,K.P.
CHBI	12	5	820500	353 GREEN,R.B.
ELEC	51	9	780427	131 BUURMA,J.
BYTE	2	11	771100	68 GRAPPEL,R.
M133	4	2	890400	55 KOBLUK,D.R.
POEL	13	3	780300	76 GARNER,L.
RESC	56	8	850800	1597 KOLK,B.
NIMA	223	1	840601	122 NORELL,K.E.
M002	17	190	910600	54 RUFFELL,J.
BYTE	8	9	830900	20 CIARCIA,S.
ELWI	93	1600	860200	17 BECKER,R.H.
POEL	10	2	760800	33 WEISBECKER,J.
CICE	0	30	921200	68 SWARTZENDRUBER,M.
QST	72	7	880700	32 BOLLER,W.
RESC	52	2	810200	287 SUZUKI,R.
TRAS	21	2	780300	349 BEERWINKLE,K.R.
MICR	0	50	820700	13 DE JONG,M.L.
ELDE	31	13	830623	166 FREEMAN,W.

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ELWI	93	1600	860200	35 MEHRA,V.
ELEN	58	710	860200	38 STUMBLES,J.D.
EDN	30	17	850725	194 HAROLD,P.
EDN	30	9	850418	281 DEWEY,F.R.
HAEL	5	8	880800	30 SCHOPP,W.W.
RESC	61	4	900400	1329 LEE,H.S.
7ART	0	375	911200	42 GRAY,M.
ELDE	28	4	800215	158 KRAENGEL,W.D.,JR.
ELDE	41	1	930107	116 WYNNE,J.
ELDE	41	2	930121	62 GERSTENHABER,M.
REW	0	0	841000	28 CATTO,C.J.D.
M040	20	3	860600	170 WILSON,D.
ITIM	37	2	880600	322 KHAN,A.A.
NATE	10	5	860900	36 TEMPLE,G.
MEBI	22	5	840900	406 WICKHAM,P.J.D.
CQ	43	7	870700	24 INGRAM,D.
ELDE	36	18	880811	126 RACHMILEVITCH,A.
RESC	60	10	891000	3339 FORNILI,S.L.
ELLE	26	15	900719	1181 COOK,J.W.
PE	8	3	910300	40 BAILEY,J.R.
EDN	37	11	920521	174 GARCIA,A.
MEBI	26	4	880700	456 NEMOTO,T.
ELEN	60	741	880900	21 PENGELLY,R.
RESC	62	2	910200	507 LYSAGHT,M.J.
ELDE	31	22	831027	141 HARDWICK,S.
ELWI	91	1592	850600	31 COOK,J.
ELDE	27	17	790816	100 MASTA,R.I.
EDN	35	1	900104	136 PATTERSON,T.
ELDE	41	8	930415	93 WURCER,S.
JOPH	18	12	851200	1012 GRUBIC,M.
TRAS	27	5	840900	1590 MITCHELL,B.W.
MECO	22	1	880200	249
M026	208	1	880516	195 BOND,A.M.
JOCH	67	5	900500	416 DURHAM,B.
ITCS	35	5	880500	554 KENNEDY,M.P.
RAEL	59	12	881200	61 BROWN,S.A.
COCH	12	3	880300	213 DE LA PENA,A.M.
INJO	56	2	840200	261 TODA,K.
CQ	40	12	841200	54 REHAK,J.L.
73AM	0	270	830300	110 CRICHTON,C.
ELDE	37	26	891228	71 MURPHY,M.
HRH	4	5	800500	36 KATES,J.
7ART	0	379	920400	71 BRUMBAUGH,J.F.
EVEL	16	2	870200	112 PENFOLD,R.A.
HARA	19	9	860900	30 GRUCHALLA,M.E.
73AM	0	352	900200	38 BRYCE,M.
POEL	15	4	790400	76 MIMS,F.M.
PCTE	3	5	850500	113 MURRAY,W.H.
ELEN	56	687	840300	39 CHLEBEX,K.R.

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73AM	0	329	880200	29 LITTLEFIELD,R.
BYTE	11	5	860500	85 CIARCIA,S.
ETT	12	1	880100	24 PENFOLD,R.
POEL	18	4	801000	74 AUER,R.,JR.
RFDE	8	13	851200	49 DELURIO,T.
DIDE	13	1	830100	24 SJULSTAD,M.
AUDI	69	2	850200	46 ROBERTS,J.H.
CICE	1	4	880700	38 NISLEY,E.
ELTE	12	12	891200	62 FETTES,M.
7ART	0	369	910600	22 MCCRANIE,D.
PE	8	12	911200	76 CARR,J.J.
HAEL	3	1	860100	52 BAKER,W.
73AM	0	351	891200	38 LANGNER,J.W.
ELHA	0	0	861000	48
QST	61	2	770200	16 PAQUETTE,J.S.
CQ	38	5	820500	24 SOLOV,E.
ELEN	57	706	851000	35 FOORD,A.
HARA	21	12	881200	9 KREUTER,R.A.
HARA	22	2	890200	54 BACHELOR,A.L.
JONE	27	1	890200	77 REBEC,G.V.
NIMA	281	2	890901	335 UJIIE,N.
LAPR	35	1	860100	98 JUNIPER,I.R.
PHTE	21	8	831100	522 MATOLYAK,J.
CEE	33	3	890300	32 EASTHILL,S.P.
QST	70	4	860400	40 ARNOLD,J.D.
POEL	12	1	770700	92 THOMPSON,R.
EUJO	9	3	880300	225 PUMPHREY,H.C.
CQ	46	9	900900	43 LITTLEFIELD,R.
M173	24	5	910514	677 PEJOVIC,M.
BYTE	10	13	851200	93 CIARCIA,S.
PE	7	8	900800	88 CARR,J.J.
ELDE	40	26	921217	68 BAPAT,V.M.
AUAM	19	1	880200	26 MARSH,R.N.
PE	7	9	900900	90 CARR,J.J.
HARA	19	9	860900	59 EAGLESON,J.
BYTE	6	10	811000	50 CLEMENTS,K.
MIRF	26	7	870700	168 BROWNE,J.
M096	135	5	881000	97 LAZARUS,M.J.
EWWW	97	1678	920900	764 KRAUS,K.
BYTE	5	3	800300	126 SCHNEIDER,N.A.
ITCS	38	6	910600	650 FILANOVSKY,I.M.
REW	0	0	870200	44 DICK,J.
EWWW	99	1689	930800	642 MADANAGOPAL,K.V.
MIAP	10	2	870400	119 LEFAS,C.C.
M035	4	3	840900	219 NGUYEN,D.T.
M168	22	1	900100	45 ISHAY,J.S.
JOPH	16	8	830800	727 FANELLI,A.M.
ITBE	33	8	860800	779 REMMEL,R.S.
RESC	62	1	910100	1 WIEMAN,C.E.

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JMET	9	1	850100	5 SUGIURA,T.
ITIM	39	4	900800	667 DIMITROV,J.D.
M119	15	5	860500	40 NIEWIADOMSKI,S.
MEBI	26	1	880100	105 CRENNER,F.
AUAM	18	1	870100	44 VERMETTE,S.
ELLE	27	3	910131	205 KIRANON,W.
EDN	29	2	840126	211 HELFRICK,A.D.
MESC	1	11	901100	1168 YANKOV,I.Y.
CICE	0	22	910800	88 CANTRELL,T.
MESC	3	7	920700	685 MACKENZIE,M.R.
ELWI	94	1623	880100	63 EGERTON,M.W.,JR.
EDN	35	18	900903	176 BRETEAU,P.
MEBI	19	1	810100	71 CROSBY,P.A.
ITIM	38	4	890800	922 ANSARI,M.S.
JOPH	21	12	881200	1172 HALEY,R.
POEL	18	4	801000	96 MIMS,F.M.
ELEN	63	777	910900	41 PEDDER,D.
ELNO	64	7	930700	39 WILLIAMS,D.
ELWI	92	1606	860900	49 HAYWARD,L.
LAPR	33	3	840300	91 ALCOCK,S.
EDN	29	12	840614	236 HOUGEN,T.
JOPH	20	4	870400	403 YOUNG,S.A.
M046	14	10	881000	58
M171	4	2	791200	207 FINCKH,P.
CICE	0	13	900200	21 HUBERT,J.C.
RESC	54	11	831100	1554 ANDRETTA,A.
INJO	58	2	850200	365 YONEDA,S.
MISY	3	4	820700	73 ZIMMERER,B.
ELWI	93	1607	861000	62 THOMPSON,P.E.
QST	68	12	841200	23 THOMPSON,T.
PHED	19	6	841100	271 ELLSE,M.D.
EDN	36	7	910328	164 POMOZI,A.
HAEL	6	1	890100	29 CHARLTON,A.
SKTE	69	4	850400	350 GENET,R.M.
ELTO	9	6	850600	22 CARD,R.
CODI	3	5	860500	11 SOWDEN,C.
EEU	2	9	920700	45
RESC	53	3	820300	369 YANG,C.-L.
JOPH	14	10	811000	1128 GOING,T.C.H.
ELDE	39	20	911024	109 SHKARUPIN,V.V.
QST	66	6	820600	46 RATTRAY,B.
QEX	0	44	851000	3 GRABOWSKI,E.J.
ELDE	32	9	840503	395 KOSCO,E.G.
ELWI	92	1610	861200	44 GREAVES,D.J.
QST	69	1	850100	19 TOWLE,J.F.
ELTO	11	8	870800	19 FISCHER,P.
RESC	55	8	840800	1336 GLEIXNER,R.A.
COCH	12	4	880400	317 TAN,H.S.
JONE	32	3	900600	207 HOLL,G.

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ETI	7	7	830700	53 MARKWICK,B.
AMJO	51	9	830900	797 WUNDERLICH,F.J.
EEU	2	2	911200	50 HAGL,C.
ITPE	7	1	920100	25 HAMILL,D.C.
INJO	59	5	851100	649 SHAH,N.A
MEBI	21	5	830900	628 COMET,B.
ELWI	92	1605	860700	37 BECK,R.
EDN	32	21	871015	124 HARVEY,B.
RESC	63	8	920800	3989 PETERS,R.D.
EWWW	95	1645	891100	1064 FROST,B.
RAEL	57	11	861100	38 TAVARES,J.A.
RESC	50	9	790900	1084 WASA,K.
ELEN	58	720	861200	32 SIUZDAK,J.
ELEC	55	3	820210	143 LANEY,O.
ELDE	40	8	920416	94 DUNN,J.
RESC	52	2	810200	280 POTZICK,J.E.
ELTO	9	1	850100	22 HOOD,J.L.
AMJO	53	8	850800	793 PARKER,D.H.
NIMA	244	3	860401	444 KAMINSKY,A.
ELTO	11	6	870600	10 EVANS,R.J.
MEBI	24	6	861100	662 FEARNOT,N.E.
MEBI	23	6	851100	604 SCHMID,K.
NIMA	273	1	881201	40 CONNOLLY,R.C.
EWWW	95	1644	891000	1022 CHAMBERLAIN,A.J.
EWWW	97	1661	910300	242 NEAL,M.
RFDE	15	7	920700	31 HACK,T.
73AM	0	292	850100	46 OLIVER,D.L.
RAEL	54	3	830300	59 PEPPER,C.S.
7ART	0	375	911200	22 ERICSON,J.
EEU	2	2	911200	86
JONE	14	3	850800	193 MINNEMA,D.
ELDE	39	23	911205	113 DUNN,J.
EEU	2	9	920700	76 RUITERS,J.
EDN	37	18	920903	152 HACK,T.P.
AMJO	60	12	921200	1098 MACADAM,K.B.
HAEL	4	11	871100	63 LISLE,L.
M061	0	0	820500	117 DOYLE,H.
AMJO	53	3	850300	252 ONG,P.P.
ELLE	28	1	920102	31 LEWIS,M.F.
QST	71	4	870400	44 DENNISON,R.C.
MESC	1	8	900800	825 BORGHESANI,A.F.
MADE	57	23	851010	83 HINES,J.R.
HAEL	5	11	881100	41 DAVIDSON,H.L.
EEU	2	9	920700	91 REELSEN,H.
EWWW	99	1687	930600	499 PEASE,R.
POEL	11	1	770100	94 MIMS,F.M.
AMJO	53	11	851100	1089 VAN DER MERWE,J
POEL	16	2	790800	78 MIMS,F.M.
73AM	0	280	840100	86 SLADEN,D.

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JOPH	19	12	861200	1059 GRIGG,M.W.
EDN	32	2	870122	241 BARNETT,T.G.
RESC	58	2	870200	313 STRAUVEN,H.
ELEN	57	697	850100	41 CATTO,C.J.D.
ELEL	21	1	810100	43 AUER,R.R.,JR.
EDN	32	10	870514	138 SHEAR,D.
INJO	58	5	850500	761 HAQUE,S.E.
BYTE	6	2	810200	326 HALL,T.
QST	65	9	810900	32 COLTON,R.A.
EDN	33	1	880107	33 RICHARDS,D.
ELDE	36	27	881208	103 FARRAR,D.
COCR	2	1	920100	62 MIMS,F.M.,III
M026	246	1	910515	43 WENTZELL,P.D.
NIMA	240	1	851001	130 BENULIS,C.A.
HAEL	6	1	890100	34 CLARKE,J.
M113	10	12	911200	100 DEMAW,D.
ELWI	94	1623	880100	59 EDMONDS,A.N.
ITIA	24	3	880500	487 PETROVIC,J.
AUAM	18	2	870300	25 MCINTYRE,B.
CLEN	10	3	850700	221 MCGILLIVRAY,R.
MOEL	7	6	900600	24 HUFF,E.J.
COCR	2	12	921200	16 FOX,T.
ELDE	41	4	930218	75 KUNIN,S.
CICE	0	37	930800	20 NURCZYK,M.
HARA	15	8	820800	20 BAILEY,J.T.
HARA	14	7	810700	38 BLAKESLEE,D.A.
RAEL	59	5	880500	12
RAEL	59	8	880800	10
JOPH	13	2	800200	155 GRIFFITHS,B.
BYTE	7	5	820500	34 CIARCIA,S.
JEPT	10	4	830400	189 GEREN,C.R.
73AM	0	285	840600	60 CEBIK,L.B.
JEPT	9	1	820100	17 ROSCOE,D.D.
ETT	12	7	880700	33 DE VAUX-BALBIRNIE,
QST	73	1	890100	20 VAN PROOYEN,L.
EWWW	96	1658	901200	1074 DE SA,A.
RAEL	62	8	910800	55 VAUGHT,M.A.
JOCH	68	9	910900	794 ROSENTHAL,J.
ELDE	28	9	800426	153 GIVENS,S.
RAEL	63	6	920600	53 KREUTER,R.A.
HAEL	6	1	890100	37
PE	7	2	900200	69 YOUNG,R.A.
MEBI	18	0	801100	731 ROBINSON,C.J.
NIM	193	0	820200	457 SMYTHE,R.A.
RAEL	54	11	831100	68 REED,J.P.
ELDE	29	6	810319	249 LEVY,R.
POEL	20	2	820200	64 FLYNN,D.M.
HAEL	2	6	851100	81 PATRICK,D.E.
M098	0	7	890200	23 CARTER,M.

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PE	6	8	890800	33 MYERHOLTZ,R.W.
JOCH	66	8	890800	695 HON,P.-K.
BYTE	5	9	800900	26 CIARCIA,S.
BYTE	4	3	790300	150 CIARCIA,S.
COCR	1	3	910600	72 MIMS,F.M.,III
RFDE	15	6	920600	67 KASSABIAN,G.
PE	9	11	921100	39 BECKER,D.
73AM	0	269	830200	86 MILLER,E.C.
JOCO	7	1	870100	68 POWERS,M.H.
ELEN	60	743	881100	28 GOLDING,R.
NIM	201	0	821000	251 BOULIN,C.
IJEE	27	4	901000	318 GHASSEMLOOY,Z.
DIDE	9	1	790100	70 WONG,S.W.
MESC	2	1	910100	32 ALECCI,M.
ELDE	28	5	800301	112 TOCCI,C.S.
ELEN	64	783	920300	34 SHEPHERD,I.E.
ITIM	34	3	850900	477 SCOTT,J.B.
ELTO	8	12	841200	27 WALKER,P.
JOPH	19	11	861100	949 SERAFETINIDES,A
ELEN	56	693	840900	33 CATTO,C.J.D.
QST	63	11	791100	22 DEMAW,D.
RAEL	58	4	870400	45 RUMREICH,M.
JOPH	17	7	840700	555 REID,I.D.
QST	60	3	760300	33 KAUFMANN,J.E.
INJO	59	4	851000	517 HAQUE,S.E.
HAEL	4	9	870900	71 BRAN,J.H.
INJO	52	6	820600	597 BISWAS,S.K.
ETI	7	10	831000	28 MACAULAY,J.P.
NIM	206	0	830200	177 BOTTCHER,M.
HARA	11	1	780100	95 BERLIN,H.
INJO	64	3	880300	493 COLLINS,D.
EDN	29	5	840308	242 GILDENHUYS,B.
JEPT	7	2	810100	5 KLYCE,S.D.
QST	72	7	880700	28 MILLER,T.
RESC	52	5	810500	771 HENNAU,F.
73AM	0	263	820800	72 THURSTON,G.L.,III
AMJO	47	4	790400	383 VETTERLING,W.T.
EDN	34	18	890901	152 ZHOU,X.-Y.
AUAM	20	4	891000	47 DUFRESNE,D.
ELTE	3	10	801000	18 MADNI,A.M.
ELDE	30	24	821125	184 RUBIN,S.
NATE	0	0	871100	17 TEMPLE,G.
EWWW	96	1650	900400	295
7ART	0	374	911100	52 AULD,B.
ELEN	58	712	860400	34 BANDE,A.
QST	67	4	830400	28 LITTLEFIELD,R.
EDN	31	23	861113	231 VESUNA,S.N.
ELEN	55	684	831200	26 BUTTON,J.
RAEL	59	7	880700	34 BLAKE,P.

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QST	71	2	870200	31 TANNER,C.
EDN	28	8	830414	169 NAGY,K.
QST	72	8	880800	27 MANDELKERN,M.
JOPH	13	9	800900	998 HANDSCHY,M.A.
RESC	50	6	790600	772 LU,S.S.
73AM	0	263	820800	100 ELLIS,D.N.
ANCH	62	4	900215	395 DASGUPTA,P.K.
73AM	0	357	900600	78 BRYCE,M.
AMJO	58	12	901200	1210 RAHIMI,S.
WW	89	1565	830200	70 DAVIES,M.
LAMI	10	4	910400	156 CHAN,K.-D.
QST	61	1	770100	25 BIANCOMANO,V.
ELDE	30	17	820818	176 YUVAL,I.
HAEL	5	4	880400	43 RAKES,C.D.
EDN	30	27	851212	266 PROCTOR,J.J.
ELWI	94	1625	880300	288
JOPH	13	9	800900	935 O'DRISCOLL,R.C.
AUAM	19	3	880800	16 HARDWICK,M.
73AM	0	352	900100	10 CROWL,W.D.
MBE	14	6	761100	684 STOTT,F.D.
RESC	62	2	910200	321 HARTLEY,P.E.
QST	68	2	840200	47 MISHOE,D.
ELEN	59	727	870700	35 ALLEN,S.
QST	71	7	870700	41 FROHNE,R.
MESC	3	5	920500	539 BOSE,S.
POEL	12	2	770800	56 STANFORD,C.
EVEL	16	2	870200	106 COX,D.E.
JONE	14	3	850800	187 KNOWLES,W.D.
73AM	0	281	840200	36 SIX,R.E.
EDN	32	19	870917	254 WONG,J.
QST	72	8	880800	25 GRAHAM,G.
LAPR	33	1	840100	70 OWEN,D.
PE	8	1	910100	80 RAKES,C.D.
MESC	2	8	910800	811 LLOYD,D.R.
ANIN	19	4	900400	167 WENTZELL,P.D.
73AM	0	258	820300	12 STRANGE,M.
ELTE	2	12	791200	22 CESTE,M.G.
NIMA	257	2	870615	423 GREGORY,A.G.
EDN	31	25	861211	272 MICHAELS,S.R.
ETT	12	3	880300	57 STUART,M.
ITNS	32	1	850200	649 FERREIRA,L.F.R.
7ART	0	370	910700	78 BRYCE,M.
CICE	0	25	920200	58 NURCZYK,M.E.
NIMA	307	2	911001	436 HALLGREN,B.
ITPS	19	4	910800	651 DELLE CAVE,G.
RAEL	63	4	920400	63 LANCASTER,D.
7ART	0	387	921200	80 BRYCE,M.
JOPH	15	2	820200	227 MCKENNA,T.J.
ELWI	92	1611	870100	69 ELLIOTT,G.

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CHBI	12	5	820500	327 VALCHER,S.
RAEL	56	11	851100	89 ROBILLARD,M.J.
ELDE	36	20	880908	111 BOYD,R.
RESC	51	1	800100	143 TROXELL,J.R.
AUEL	9	4	760400	36 DANCE,B.
M030	25	4	800400	741 RUDD,P.J.
M161	65	1	880700	469 CHA,E.J.
EWWW	97	1675	920600	516
EDN	34	21	891012	206 CHEEPCHOL,S.
COCR	2	12	921200	74 DESPOSITO,J.
JONE	8	1	830500	61 BRYANT,H.J.
MEBI	28	1	900100	99 DODDRELL,D.M.
PHED	26	6	911100	392 RAMACHANDRAN,V.
ETI	7	4	830400	72 HILL,P.
ELDE	37	16	890727	33 GOODENOUGH,F.
RAEL	62	4	910400	71 LANCASTER,D.
M141	16	4	851100	331 WHITEHEAD,D.G.
QST	61	5	770500	25 POWELL,K.
RAEL	52	1	810100	41 LANDFEAR,D.
BYTE	4	8	790800	50 CIARCIA,S.
HARA	22	3	890300	75 CARR,J.
7ART	0	385	921000	56 HOUGHTON,C.L.
HARA	19	11	861100	65 BODNER,E.
HAEL	4	10	871000	81 FRENZEL,L.E.,JR.
REW	0	0	840900	19
POEL	19	6	810600	82 MCVEIGH,J.
ELEC	50	13	770623	134 THOMAS,M.W.S.
RESC	57	5	860500	989 CURTIS,C.C.
PE	6	5	890500	24 WELS,B.G.
73AM	0	357	900600	32 GOTTS,L.
AUAM	21	2	900400	62 MOSTELLER,T.
RAEL	61	12	901200	10 BENJAMIN,G.
7ART	0	378	920300	64 BRUMBAUGH,J.F.
QST	74	5	900500	25 THURSTON,G.L.,III
RESC	50	3	790300	279 BLAIR,D.G.
IJPA	27	12	891200	791 SAXENA,G.M.
73AM	0	361	901000	28 HANSEN,M.C.
73AM	0	298	850700	34 KETCHLEDGE,R.W.
HAEL	4	6	870600	39 GROSSBLATT,R.
EDN	31	23	861113	285 BARNETT,T.G.
ELSE	6	9	860900	76 VISTAIN,K.
QST	68	3	840300	11 DEMAUW,D.
ELHA	0	0	861000	54
ELEC	51	14	780706	113 ANDREN,C.
ELDE	29	12	810611	250 STEHNEY,T.
HAEL	2	2	840200	53 SCOTT,B.
BYTE	7	4	820400	40 CIARCIA,S.
QST	61	4	770400	27 BINGHAM,J.R.
POEL	18	4	801000	72 BERENBON,H.

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POEL	19	9	810900	83 MCVEIGH,J.
73AM	0	340	890100	29 MARLING,D.
SCPR	2	3	920700	111 MIMS,F.M.,III
EWWW	95	1644	891000	989 MARTIN,J.P.
ITED	35	2	920500	164 NATARAJAN,S.
PHTE	25	5	870500	323 RUTLEDGE,C.T.
RFDE	10	3	870300	31 MATTHYS,R.
POEL	7	2	750200	48 TIERNEY,J.P.
MIRF	23	11	841100	143 BRUNIQUEL,J.
CQ	39	8	830800	40 SIX,R.E.
CQ	41	8	850800	13 SCHULTZ,J.J.
HARA	11	1	780100	94 RANSON,E.R.
ELMU	4	2	880200	90 BRAUNSTEIN,M.D.
ELWI	94	1625	880300	242 ERRINGTON,J.
73AM	0	352	900100	52 BRYCE,M.
RAEL	61	10	901000	13 GATES,D.
ELWI	90	1580	840500	54 BROWN,F.
73AM	0	257	820200	16 CLOWER,P.
M113	12	1	930100	100 DEMAW,D.
PE	10	5	930500	39 VOLLONO,V.
QST	70	8	860800	37 RODMAN,D.J.
HARA	23	1	900100	27 MASCARO,D.
ELDE	30	7	820331	81 ZEIN,D.A.
68MI	4	9	820900	11 NAY,R.L.
73AM	0	308	860500	42 PEPPER,J.
RAEL	57	4	860400	50 FRIEDMAN,H.
ELTO	10	6	860600	56 BROWN,S.
CQ	40	11	841100	40 ELLIOT,J.A.
NIM	217	3	831201	521 BODE,S.
ITIM	36	3	870900	797 SUZUKI,M.
ELNO	63	11	921100	45 GREEN,B.
ELEC	48	22	751030	99 HODOWANEC,G.
RESC	56	12	851200	2337 GRASE,F.
JOPH	15	11	821100	1164 SPOMER,L.A.
QST	60	12	761200	25 WORTHINGTON,J.S
QST	67	8	830800	40 CRAWFORD,R.
INJO	61	1	860700	91 FILANOVSKY,I.M.
73AM	0	280	840100	115 FREEBERG,S.M.
POEL	18	3	800900	121 THIEL,B.A.
POEL	20	7	820700	49 DAVIS,J.H.
M119	15	5	860500	56 FOXLAND,R.
RAEL	57	4	860400	14
BYTE	7	8	820800	420 CIARCIA,S.
ELEN	55	677	830500	39 REDFORD,K.M.
RAEL	58	5	870500	144 BARBARELLO,J.
NIM	204	0	821200	479 GERETSCHLAGER,M.
73AM	0	264	820900	92 DEIBART,G.
73AM	0	327	871200	106 HEIL,B.
73AM	0	275	830800	100 KRETZSCHMAR,J.

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73AM	0	273	830600	99 SCHILLING,E.
73AM	0	333	880600	75 POCHOP,L.C.
EDN	28	16	830804	192 HILHORST,M.
QST	72	9	880900	26 DEMAW,D.
73AM	0	340	890100	40 SAPONAS,R.T.
BIIN	23	1	890100	54 TUCKER,R.D.
ETT	13	9	890900	12 TRIES,J.
LAPR	35	10	861000	92 SYMONS,S.J.
M125	2	3	890700	25 CARSTARPHEN,A.
EWWW	95	1645	891100	1100 RATCLIFFE,P.J.
IJPA	27	5	890500	240 MISHRA,R.K.
RESC	48	5	770500	554 LOY,M.M.T.
JOCH	57	3	800300	232 FINET,D.
CIDE	138	4	910800	510 RABAH,K.V.O.
RAEL	62	11	911100	84 MELTON,J.A.
POEL	20	2	820200	31 PRENTISS,S.
QST	69	4	850400	42 DEMAW,D.
73AM	0	324	870900	24 REED,J.
73AM	0	260	820500	32 OMAN,M.
AUAM	18	2	870300	13 HADAWAY,D.
JOCH	63	5	860500	452 BRUNO,T.J.
QST	67	11	831100	31 DEMAW,D.
QST	68	2	840200	46 HOFFMAN,P.
PHTE	24	8	861100	495 SALINAS,E.
PE	6	3	890300	45 CARR,J.J.
RAEL	60	3	890300	46 MCNABB,J.
MADE	62	10	900524	124 SHALAND,A.
CQ	48	8	920800	32 SCHULTZ,J.J.
ELTO	11	2	870200	64
BYTE	9	6	840600	146 SUEKER,K.H.
POEL	17	5	800500	77 GILPIN,F.L.
HARA	20	7	870700	53 BERTINI,P.J.
QST	72	9	880900	24 GRIFFITH,A.S.
M160	53	1	820700	294 HILL,R.D.
COCR	2	5	920500	56 FOX,T.
JOPH	15	3	820300	322 MCCANN,J.F.
ELHA	0	0	861000	67 SIM,C.
HAEL	5	7	880700	84 ELLIS,M.
73AM	0	356	900500	80 MOELL,J.
ELTE	3	4	800400	21 CALHOUN,M.A.
HAEL	2	3	850300	93 SCOTT,R.F.
EDN	31	1	860109	155 WILLIAMS,J.
EDN	31	5	860306	256 KOUKOURLIS,C.S.
JOPH	21	7	880700	663 CHALTAKOV,I.V.
ITED	29	4	861100	196 WONG,T.H.
NIM	186	0	810700	637 LO,H.-Y.
ELDE	40	17	920820	57 GIACOMINI,J.D.
POEL	20	3	820300	68 CRANMER,M.S.
QST	66	7	820700	14 DEMAW,D.

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QST	69	10	851000	38 STROM,K.W.
73AM	0	283	840400	20 CEBIK,L.B.
NIM	212	1	830701	273 NEMETHY,P.
RAEL	59	1	880100	22
QST	70	10	861000	50 STROM,K.W.
RAEL	60	11	891100	12 CRAGHEAD,M.
73AM	0	354	900300	12 GRAY,M.
PE	9	12	921200	39 KANTER,E.S.
QST	62	12	781200	35 SCHUBBE,S.
73AM	0	264	820900	58 JACK,L.
ELWI	93	1607	861000	38 EGERTON,M.,JR.
ELWI	91	1596	851000	43 KRAUS,K.
RAEL	57	7	860700	65 CARR,J.J.
POEL	20	2	820200	96 MIMS,F.M.
CQ	40	3	840300	56 WEISS,A.
CQ	43	9	870900	36 GRAY,J.J.
73AM	0	273	830600	106 LAWRENCE,E.
MOEL	8	1	910100	52 SCHOPP,W.W.
AMJO	59	6	910600	568 EDGAR,A.
CQ	47	8	910800	18 GENAILLE,R.A.
ELDE	30	7	820331	69 RUGGLES,T.E.
ELDE	30	23	821111	135 AMARANDOS,M.
EEU	2	6	920400	34 VON FEHREN,S.
HAEL	3	4	860700	89 BYERS,T.J.
MOEL	7	11	901100	41 STOCKMAN,G.F.,IV
ELAU	52	12	901200	74 PHILIPS,P.
ELDE	38	2	900125	51 DAUGHERTY,K.
QST	63	11	791100	55 RICHARDS,D.
EDN	34	3	890202	163 GRAEME,J.G.
MIRF	25	4	860400	75 TAM,A.K.N.
M187	30	11	911101	1843 LAU,W.S.
QST	62	6	780600	43 GARRETT,J.
RESC	58	2	870200	245 PAWLISZYN,J.
EDN	27	23	821124	105 OXNER,E.
EWWW	95	1645	891100	1099 MICHELE,F.
ELDE	38	1	900111	192 SWIFT,S.D.
M113	11	2	920200	98 DEMAU,D.
ELDE	30	5	820304	126 JOSWICK,W.
JOMA	55	1	831015	78 VOLD,R.L.
HAEL	3	7	861200	55 WARD,D.A.
ELDE	34	11	860515	167 WONG,J.
EDN	29	2	840126	171 PSHAENICH,A.
EDN	33	15	880721	329 HAASE,J.A.
RAEL	63	4	920400	47 CANINO,F.
HAEL	4	7	870700	4
EWWW	99	1687	930600	493
ELDE	33	9	850418	217 WAKEMAN,L.
73AM	0	280	840100	70 MILLER,E.C.
M020	18	5	780500	308 ANAN'EV,L.L.

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ELDE	32	13	840628	293 LUBS,S.
POEL	18	1	800700	62 GORGENYI,I.
JOPH	20	11	871100	1330 KALISZ,J.
EDN	33	14	880707	84 HAROLD,P.
EWWW	96	1658	901200	1061
LAMI	6	3	870300	111 SMITH,J.S.
MADE	57	27	851121	103 FRANK,R.
POEL	19	2	810200	18 PRENTISS,S.
QST	68	4	840400	37 DEMAUW,D.
ELTO	9	12	851200	47 MACAULEY,J.
ELWI	91	1597	851100	75 WYNNE,H.T.
NIM	199	0	820800	491 RYTSOLA,K.
CQ	38	12	821200	20 ROHDE,U.L.
EDN	38	12	930610	166 GASCOYNE,P.F.
RAEL	60	6	890600	67 LANCASTER,D.
MOEL	6	12	891200	47 MIMS,F.M.,III
RESC	58	2	870200	174 PARKER,N.W.
EWWW	97	1669	911200	1043
7ART	0	385	921000	28 CORNELL,K.
RESC	64	6	930600	1652 ACHARYA,Y.B.
COEL	21	10	831000	56 COPPOLA,M.
QST	62	12	781200	11 RUSGROVE,J.
COEL	22	1	840100	77 CARLSTROM,R.
73AM	0	345	890600	72 LEAVEY,M.I.L.
ELDE	39	22	911121	140 NAGARAJ,M.S.
7ART	0	379	920400	22 HENDERSON,R.
7ART	0	368	910500	63
ANIN	15	1	860100	77 GOLIBER,P.A.
JOPH	14	1	810100	123 BALASUBRAMANIAN,A.
73AM	0	347	890800	60 LEAVEY,M.I.
RESC	48	7	770700	865 JACKMAN,A.P.
MIRF	23	2	840200	141 BARBARI,G.
HARA	15	8	820800	54 FARMER,B.
CICE	0	36	930700	38 SWARTZENDRUBER,M.
RAEL	57	3	860300	47 ROBILLARD,M.J.
EDN	35	19	900917	230 HERRICK,K.C.
MOEL	7	12	901200	40 CARTER,K.
HARA	14	7	810700	12 ZELTWANGER,T.B.
73AM	0	276	830900	58 ABRAMS,C.
ELWI	92	1606	860800	54
73AM	0	334	880700	14 DE JONGH,R.R.
NUIN	166	0	791100	191 FRY,L.H.,JR.
POEL	11	2	770200	62 SCHOPP,W.W.
ELTO	8	7	840700	55
RFDE	11	12	881200	62 MISIC,G.J.
AUDI	68	2	840200	43 SALVATI,M.J.
QST	70	12	861200	19 MASTERTSON,M.J.
RESC	52	10	811000	1509 GIBSON,A.A.V.
ELDE	37	8	890413	148 SPEAROW,C.

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80M2	0	82	861100	54 KREUTER,R.
M189	40	10	921000	1960 MADANI,K.
HARA	22	7	890700	53 CROFT,A.R.
JOPH	18	4	850400	303 HART,M.J.
ELWI	90	1578	840300	26 FORTESCUE-WEBB,C.M
CODE	20	1	810100	138 GEORGIU,V.J.
ELMU	4	1	880100	32 FISCHER,C.R.
M026	187	1	860930	293 EDMONDS,T.E.
EDN	33	14	880707	280 DUA,A.
PE	6	2	890200	41 ALLEN,S.
BYTE	6	12	811200	42 CIARCIA,S.
DIDE	16	1	860100	38 SNELL,J.W.
NIM	217	1	831115	149 BOGORODZKI,A.
ELEC	51	18	780831	124 SALEH,F.
JMET	7	1	830100	21 SUGIURA,T.
73AM	0	266	821100	76 FONG,E.
CQ	46	9	900900	52 DE SILVA,R.
7ART	0	378	920300	44 CORNELL,K.
RESC	64	1	930100	265 KATSURAGAWA,H.
QST	71	2	870200	23 WARD,A.
ITIM	33	4	841200	315 VASILJEVIC,D.M.
COCR	1	6	910900	76 MIMS,F.M.,III
7ART	0	363	901200	50 MOELL,J.
ELDE	28	16	800802	75 KONRATH,J.
CODE	18	4	790400	128 TITUS,C.A.
73AM	0	299	850800	67 BARRIS,S.
ITNS	36	1	890200	407 MORII,M.M.
INJO	60	3	860300	331 AJOSE,S.O.
EDN	33	22	881027	285 WILLIAMS,J.
RAFU	0	8	920300	27 BROWN,B.
EWWW	99	1685	930400	278 HAMILTON,N.
ANIN	16	1	870100	93 OLTHOFF,J.K.
73AM	0	298	850700	38 NOLAN,T.F.
EDN	35	11	900524	147 WILLIAMS,J.
ELDE	32	14	840712	145 QUEK,A.
ELDE	39	3	910214	99 WILLIAMS,J.
EDN	29	13	840628	239 WILLIAMS,J.
ELWI	93	1614	870400	408 DVORAK,K.
EDN	30	26	851128	280 CULTER,R.G.
INJO	67	1	890700	161 AMARASINGHE,K.A.
ITIE	34	4	871100	429 DEVOTTA,J.B.X.
EDN	30	4	850221	305 WILLIAMS,J.
ELWI	95	1643	890900	850 ESPIN,A.
EVEL	16	2	870200	84 BISHOP,O.
ELDE	31	26	831222	192 SALADIN,H.
ELTO	10	9	860900	10 PERROW,M.
HARA	15	9	820900	33 DEAN,E.M.
APSP	43	5	890700	840 UCHIDA,T.
7ART	0	381	920600	20 WONG,P.

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ELEN	56	692	840800	32 FROST,B.J.
JOPH	19	9	860900	8609 HARUYAMA,T.
M179	28	9	920900	48 SAGAR,R.B.
RFDE	10	11	871100	116 HAYWARD,W.
73AM	0	260	820500	48 MITCHELL,S.F.,JR.
M113	10	10	911000	102 CHEEK,B.
EDN	37	9	920423	178 RINEHART,L.
ELDE	36	14	880623	52 GOODENOUGH,F.
HARA	14	4	810400	39 ORR,B.
JOEX	134	0	880100	429 LIGHTON,J.R.B.
CQ	47	9	910900	102 INGRAM,D.
ELDE	27	4	790215	128 LAU,S.Y.
WW	89	1564	830100	55 GROVER,R.J.
RAEL	59	10	881000	90 WARNER,R.D.
73AM	0	352	900100	41 LANGNER,J.W.
BYTE	6	2	810200	44 CIARCIA,S.
HAEL	5	6	880600	41 WARD,D.
RESC	51	4	800400	549 PLOURDE,B.
APSP	35	6	811100	536 THANG,T.
EEU	2	9	920700	49 KUNZ,U.
BYTE	5	9	800900	46 CANTRELL,T.W.
ELDE	33	28	851128	111 BELL,D.
CICE	0	21	910600	14 DYBOWSKI,J.
MIRF	27	8	880800	126 KEMPS,J.H.
MEBI	19	1	810100	117 MARBLE,A.E.
EDN	29	1	840112	289 BIDWELL,D.C.
ELEC	48	22	751030	96 TAGLIAVINI,A.
73AM	0	275	830800	26 JONES,W.B.
M173	18	3	850314	541 STOTT,F.H.
CICE	0	23	911000	70 NISLEY,E.
ELNO	63	7	920700	75 LANCASTER,D.
AUAM	24	2	930600	19 BORBELY,E.
ETI	7	10	831000	65
RESC	61	5	900500	1395 BEITZ,J.V.
BYTE	10	8	850800	105 CIARCIA,S.
WEAT	39	3	860600	160 SHIRER,H.W.
EDN	27	17	820901	195 RICKMAN,J.D.
EUMI	6	5	800500	330 DEMECZKY,J.
ELEC	53	10	800424	153 RALLAPALLI,K.
HAEL	3	1	860100	69 DALE,R.J.
NIM	188	0	810900	99 FESTA,E.
WW	89	1564	830100	56 WYNNE,H.T.
NIMA	251	2	861015	345 KAZUAKI,A.
EEU	2	8	920600	34 DEGEN,R.
EDN	30	12	850530	163 MOSELEY,G.
HARA	22	5	890500	28 NAJORK,J.
ETT	13	11	891100	26 WALKER,C.
COEL	22	11	841100	14 MIMS,F.M.,III
EWWW	95	1645	891100	1101 MINERS,F.

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EWWW	96	1654	900800	685 BRIDGEN,D.M.
MIMI	16	2	920200	59 GIBBS,D.S.
IEEA	140	2	930300	155 COCKBAINE,D.R.
POEL	15	1	790100	77 GARNER,L.
7ART	0	368	910500	9 RAKES,C.D.
PE	7	12	901200	81 RAKES,C.D.
NATE	10	4	860700	56 BEVER,G.A.
NUIN	169	0	800200	243 PORAT,D.I.
COCR	3	7	930700	19 AXELSON,J.
HAEL	3	6	861100	92 RAKES,C.D.
COEL	21	11	831100	90 MIMS,F.M.,III
ELTO	11	7	870700	9 BUTLER,D.
ELEN	55	674	830200	55 TYLER,J.E.M.
MEBI	20	2	820300	251 RICHARD,P.D.
ELDE	36	13	880609	126 RAUH,G.
M121	3	3	850900	173 DOBINSON,R.W.
ELDE	28	20	800927	103 GREENE,B.
EUMI	4	5	780900	283 CASERO,E.
EWWW	99	1684	930300	204 SHEPPARD,T.
GLAU	4	1	920100	18 KOREN,N.L.
PE	7	12	901200	43 CZARNIK,S.A.
RERE	23	3	860700	21 WARNER,H.
INJO	69	5	901100	691 SLOMOVITZ,D.
QST	65	9	810900	18 HELFRICK,A.
EWWW	96	1655	900900	807
NIMA	278	2	890601	503 SENE,M.R.
ELEN	58	716	860800	34 TACCA,H.
JOPH	13	2	800200	146 PORUMB,H.
M064	11	2	890300	166 KIRBY,D.R.
RESC	51	12	801200	1641 MENDEL,C.W.,JR.
RESC	57	10	861000	2614 COSGROVE,D.J.
ETI	7	1	830100	84 BARBER,P.A.
CQ	42	12	861200	13 STARK,L.W.
EDN	31	19	860918	197
ELWI	93	1613	870300	298
RESC	60	2	890200	268 PARGELLIS,A.N.
NIM	214	2	830901	361 OBENHUBER,T.
MIAP	9	3	860700	179 VERMA,H.K.
MIMI	9	5	850600	226 REDDY,Y.V.
EWWW	96	1653	900700	613 STEPHENS,M.
JONE	19	3	870300	235 SCHMID,K.
POEL	10	6	761200	57 KASHINSKY,W.
NIMA	220	1	840215	23 VOORVOPOULOS,G.
PE	8	11	911100	57 SMOLSKI,J.C.
ELEN	56	690	840600	38 THOMPSON,P.
ITIE	33	3	860800	310 MIRBOD,A.
80M2	0	59	841200	122 ALFORD,R.C.
NIM	215	1	830915	199 TAKEUCHI,S.
M121	2	1	840200	17 PATNAIK,L.M.

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BYTE	12	12	871200	225 DRUMMOND,J.R.
73AM	0	268	830100	62 HEISLER,C.E.
ELDE	36	6	880317	87 GRIMES,J.
M111	34	3	920700	227 MISENER,G.C.
NIMA	299	1	901220	182 SAKAMOTO,S.
M143	16	2	780400	112 WOBSCHALL,D.
M016	21	9	820501	1686 HELMCKE,J.
RESC	57	5	860500	866 MAI,H.H.
RESC	58	5	870500	861 FRITSCH,K.
JOPH	13	4	800400	390 ALTMANN,H.
INJO	70	2	910200	321 AL-BAYATI,A.K.S.
EDN	32	8	870415	214 MURPHY.C.E.G.
BYTE	7	1	820100	118 NYBERG,J.
PE	6	10	891000	22 WELS,B.G.
CODI	3	11	861100	9 KREUTER,R.A.
HAEL	3	6	861100	77 MASSEY,R.
CICE	0	20	910400	79 COPPERSMITH,R.S.
ELWI	92	1606	860800	51 HARDIE,A.
QEX	0	69	871100	10 MCLARNON,B.D.
ELWI	91	1592	850600	31 MARCH,D.
TRIN	8	5	861000	279 LIU,C.Y.
RFDE	11	8	880800	42 DILWORTH,I.J.
RESC	61	3	900300	1123 FORTE,J.
ANCH	52	1	800100	139 BONNELL,I.R.
BYTE	7	1	820100	234 DEWILDE,G.
INJO	53	5	821100	445 GHARPURE,V.S.
RAEL	56	12	851200	65 FLACK,J.
ETT	11	10	871000	26 BISHOP,O.
ANCH	55	14	831200	2450 ADKINSON,J.T.
ELDE	30	16	820805	218 BAKER,D.
RESC	56	3	850300	427 BRUSCHI,L.
M024	5	4	860400	467 COOK,K.D.
IJEE	20	3	830700	223 ACARNLEY,A.A.
RAEL	59	1	880100	59 SARNS,S.E.
WW	89	1565	830200	76 BAILEY,A.
ELEN	55	684	831200	65 COZER,C.
APSP	33	5	790900	518 TSUJINO,R.
RESC	56	10	851000	1926 BABA,H.
ELDI	7	1	860000	43 OGILVIE,D.
RESC	51	8	800800	1116 DE BRITO CRUZ,C.H.
RESC	59	5	880500	797 DELINGER,W.G.
INJO	66	4	890400	619 FABRE,A.
PHED	25	6	901100	359 VICTORIA,L.
EEU	2	1	911100	22 GIFFARD,T.
POEL	11	4	770400	57 GRADEN,M.
73AM	0	333	880600	11 CEBIK,L.B.
RESC	49	6	780600	853 SUTHERLAND,J.C.
PE	10	12	931200	34 CAMERON,L.L.
RAEL	59	1	880100	80 GROSSBLATT,R.

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ELDE	32	19	840920	308 LUBS,S.
JOPH	16	7	830700	666 BAKSAY,L.A.
ELEL	21	1	810100	46 IHM,M.
ITIM	37	1	880300	151 SINGH,V.P.
NIM	201	0	821000	125 FARUQI,A.R.
BYTE	2	9	770900	190 JACOBY,B.F.
ELWI	93	1612	870200	173 BRYANT,J.M.
COEL	21	5	830500	67 RUBENSTEIN,C.
ELWI	92	1603	860500	51 FERRIS,P.
EUJO	8	4	870400	273 FOX,J.N.
JOPH	21	3	880300	306 MROCZKA,J.
RESC	59	7	880700	1232 STOELTING,M.
RESC	51	5	800500	655 BLACK,J.G.
APSP	36	6	821100	643 COLEMAN,D.M.
M146	3	3	900800	603 ASHWIN,P.
JMET	4	4	800700	186 STAGG,J.
NATE	0	0	900900	47 WEBB,W.S.
SCPR	1	3	910700	81 MIMS,F.M.,III
ELEC	53	3	800131	99 HERSCOVICI,H.
RAEL	55	12	841200	77 ALBRO,P.W.
ELEC	55	23	821117	149 GUYTON,R.D.
QST	66	7	820700	37 HOOKER,R.W.
ELEC	51	18	780831	142 GYLES,C.
BYTE	8	6	830600	379 FINLEY,G.
ELTO	11	3	870300	20 NAUGHTON,N.P.
ELEC	49	18	760902	100 LEFFERSON,P.
ELEL	20	5	800900	73 LEITHAUSER,D.
MEBI	22	4	840700	367 NEELAKANTASWAMY,P.
RESC	58	10	871000	1843 KNOESEN,A.
EDN	31	20	861002	210 WOOD,R.E.
INJO	65	2	880800	243 SINGH,V.P.
73AM	0	268	830100	100 MIARA,R.A.
LAPR	30	6	810600	588 SILVESTER,N.R.
ELEN	62	760	900400	28 WOODBRIDGE,C.R.
WW	88	1556	820500	51 EASSA,H.A.
M166	190	1	901000	134 VAN WART,H.E.
M115	11	11	781100	427 SINHA,P.K.
ITIM	40	4	910800	777 SENANI,R.
ELEC	53	7	800327	139 DAHL,J.
RAEL	63	1	920100	47 PRICE,G.
EEU	2	5	920300	39 RIETJENS,A.
RAFU	0	9	920400	18 BROWN,B.
ELEC	48	25	751211	105 GODBOLE,V.R.
JOPH	16	9	830900	840 BASANO,L.
NIMA	225	1	840801	122 MACWANI,M.
AUAM	20	1	890200	7 KHOURY,P.
JONE	9	4	831200	335 SEYFARTH,E.-A.
ELEN	55	677	830500	33 CHEASLEY,A.
MISY	3	4	820700	44 GILLESPIE,J.H.

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M146	3	3	900800	585 ASHWIN,P.
PE	10	10	931000	75 YACONO,J.J.
ELWI	92	1606	860900	37 CLEMENTS,A.
ELEC	50	14	770707	105 NEWMAN,J.W.
INJO	52	2	820200	157 BOZIC,S.M.
RAEL	60	3	890300	98 KARDACH,J.
ITPS	8	2	800600	124 MILNES,K.A.
ANCH	50	13	781100	1737 SALIN,E.D.
ITIE	38	4	910800	275 LIAW,C.-M.
RESC	53	5	820500	624 NARAYANA,P.A.
RAEL	55	7	840700	57 BUNGARD,N.
ELEC	50	26	771222	93 ARMANINO,E.H.
JOPH	15	11	821100	1156 KEMP,R.C.
RESC	55	10	841000	1585 DUNCAN,H.A.
CHBI	12	4	820400	229 RAMALEY,L.
RESC	52	3	810300	485 LACH,L.E.
REE	46	2	760200	69 GOSLING,W.
ELEC	56	19	830922	153 HAWKINS,D.O.
RAEL	52	12	811200	64 FELDMAN,L.
BYTE	4	4	790400	10 CIARCIA,S.
RESC	53	9	820900	1403 BRANNON,P.J.
ETT	13	12	891200	50 BOWES,C.
ELEC	50	19	770915	116 PATEL,R.J.
HAEL	5	10	881000	37
EWWW	98	1678	921000	852 WILLIAMSON,R.
EDN	30	3	850207	234 O'FARRELL,J.J.
ITED	22	3	790800	138 LAW,J.
JOCH	59	1	820100	63 NEEDHAM,G.F.
NIMA	280	1	890801	133 KUBO,H.
JOCH	68	1	910100	80 HAVRILLA,J.W.
ELEN	60	743	881100	26 BROWNING,I.
ITIE	39	3	920600	230 BROWN,G.M.
POEL	18	1	800700	73 KRIEGER,R.G.
RAEL	61	9	900900	37 SAAD,M.
AUAM	21	3	900800	26 MASTEL,V.L.
PE	8	1	910100	31 BLECHMAN,F.
RAEL	50	9	790900	43 BARBARELLO,J.J.
7ART	0	394	930700	38 CRIPE,D.
ELEC	50	6	770317	97 BITSCH,R.
RESC	51	6	800600	786 HUBER,J.R.
NUIN	146	0	771000	389 ORFORD,K.J.
JMET	15	2	910300	53 JARVIS,J.C.
ELTO	8	8	840800	45
ETI	8	4	840400	18 ATKINS,A.G.
ELEN	56	696	841200	33 BEDDOE,B.S.
ELWI	93	1612	870200	172 PAGE,J.R.
EVEL	16	1	870100	32 BOWES,C.J.
POEL	10	5	761100	32 MCVEIGH,J.
ELEC	50	24	771124	115 OKOLOWICZ,J.

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ELDE	24	2	760119	86 GARDNER,M.R.
POEL	15	6	790600	95 MIMS,F.M.
INJO	52	2	820200	109 AL-CHARCHAFCHI,S.H
HAEL	5	11	881100	86 RAKES,C.D.
RAEL	61	3	900300	35 LOVELOCK,P.A.
ELDE	29	26	811224	140 LONG,R.
ELDE	40	3	920206	84 HENDEN,J.
ELEC	49	12	760610	108 MCLELLAN,A.
ELTO	9	10	851000	22 WOOD,K.
ELEC	55	23	821117	147 CREASON,S.C.
EDN	30	11	850516	230 BARTYS,J.
PE	9	10	921000	72 YACONO,J.J.
ELEC	55	14	820714	169 STEFENEL,R.
COEL	21	6	830600	84 MIMS,F.M.,III
RAEL	53	2	820200	94 STEPHENSON,S.K.,II
RAEL	58	11	871100	85 MIMS,F.M.,III
PE	6	9	890900	74 CARR,J.J.
MOEL	7	5	900500	52 CARR,J.J.
ANCH	52	13	801100	2201 CADLE,S.H.
EEU	2	2	911200	26 RIECKER,J.
EDN	31	20	861002	208 LASHLEY,R.
POEL	10	2	760800	91 MIMS,F.M.
ELTO	10	7	860700	49 ZAPLETAL,E.
MEBI	18	0	801100	794 BERNICK,D.L.
PE	9	10	921000	69 RAKES,C.D.
73AM	0	259	820400	102 BROWN,D.J.
RESC	48	12	771200	1550 FULOP,G.F.
RESC	60	3	890300	489 HINSBERG,W.D.
IJEE	26	4	891000	367 PAULL,C.J.
COCR	2	8	920800	24 AXELSON,J.
CICE	0	23	911000	79 BACHIOCHI,J.
ELTE	2	9	790900	26 URBAN,J.S.
M167	1	1	820800	117 OTTONELLO,P.
ITNS	38	2	910400	408 ANTILOGUS,P.
NIMA	238	2	850801	542 SIPILA,H.T.
POEL	19	9	810900	81 LEITHAUSER,D.
JOPH	18	1	850100	65 NORDLANDER,E.
ITPE	1	4	861000	240 LAW,J.D.
JOCH	59	12	821200	1083 MURPHY,M.D.
ELTO	9	12	851200	10 MARKWICK,B.
7ART	0	380	920500	8 ROWINSKI,T.S.
EEU	1	11	910900	39 KYTE,D.
NIMA	301	2	910301	275 AMBROSIO,M.
ITNS	35	1	880200	311 BECONCINI,F.
ELWI	90	1585	841100	53 KEMP,I.
CICE	0	29	921000	12 FARMER,B.
RAEL	55	3	840300	31 VERIVE,J.C.
JOPH	19	8	860800	592 BHASKAR,K.V.
ELEN	61	747	890300	37 TCHAMOV,N.

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EUJO	4	0	830000	42 CANIVEZ,Y.
BYTE	9	6	840600	142 BONO,J.
EWWW	95	1644	891000	1001
ELEN	56	691	840700	32 MARSHALL,C.
ELDE	36	6	880317	77 WHITTON,M.C.
EEU	2	2	911200	22 BELL,R.D.
EEU	2	3	920100	14 RIGBY,A.
73AM	0	256	820100	39 FRANKE,J.M.
MEBI	25	1	870100	18 THAKOR,N.V.
MECO	0	131	881000	117 PURVIS,J.R.
RESC	56	11	851100	2154 TROTTER,C.M.
IEEA	135	4	880400	233 BEAUJEAN,D.A.
ELDE	37	8	890413	148 TCHAMOV,N.T.
73AM	0	256	820100	121 RUMBOLT,R.
CQ	41	11	851100	56 MCCOY,L.
ITIE	32	1	850200	50 BUJA,G.S.
FAJO	5	1	770100	8 FROSTHOLM,R.C.
ELEC	59	27	860724	89
ANCH	53	9	810800	1469 STACHEL,B.
RAEL	57	7	860700	47 HUFFT,F.N.
NIMA	253	2	870101	235 DE MARZO,C.
ELLE	23	12	870604	662 RODRIGUEZ-VAZQUEZ,
NIM	188	0	810900	469 BARB,D.
RAEL	63	2	920200	42 SHEETS,W.
ELEC	49	12	760610	101 WICKES,W.E.
NIMA	270	2	880715	467 WESTERFELDT,C.R.
QST	55	12	811200	15 HELFRICK,A.D.
RAEL	60	6	890600	51 JAFFE,J.
NIMA	291	3	900601	587 KULKA,Z.
ELWI	93	1614	870400	385
EDN	32	13	870625	271 WITTLINGER,H.A.
JOPH	22	8	890800	554 MITCHELL,F.R.G.
73AM	0	266	821100	90 JOFFE,A.S.
M190	1	2	910600	369 MURALI,K.
JOPH	17	6	840600	442 NAITOH,T.
TRAS	30	4	870700	866 YOUNG,R.E.
IEEE	130	2	830300	49 KOVALESKI,A.B.
POEL	20	6	820600	55 COHEN,J.M.
NIMA	253	1	861215	10 GAGLIARDI,C.A.
JOPH	18	6	850600	516 WALKER,M.D.
POEL	15	4	790400	51 MCNEICE,C.
RAEL	61	5	900500	37 GRAF,R.F.
MADE	55	12	830526	47 LANDERS,G.
EWWW	99	1683	930200	102 AYERS,D.
ELWI	92	1598	851200	69 GREAVES,D.J.
ITCS	36	7	890700	1020 BOWRON,P.
ELEC	53	1	800103	179 NORMET,H.
HARA	19	11	861100	25 GELLENDER,E.
ELTE	2	5	790500	82 LEWIS,D.

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PHTE	25	1	870100	38 GILLES,G.T.
EDN	33	15	880721	331 DEMICHELE,G.
ITIM	34	1	850300	85 KHAN,A.A.
RAEL	57	6	860600	72 SCOTT,R.F.
MEBI	26	1	880100	102 HOELZEL,R.
ELWI	90	1579	840400	46 WILKINS,R.
QST	71	1	870100	18 GREBENKEMPER,J.
JOPH	14	11	811100	1244 SILVESTER,D.J.
RESC	60	6	890600	997 DILELLA,D.P.
AMJO	48	4	800400	279 VAN DER SLUIJS,M.J
M144	25	6	780600	59 TREHARNE,R.W.
EEU	2	2	911200	30 KUHNE,H.
ELLE	28	4	920213	414 SENANI,R.
ELWI	93	1600	860200	34 KRAUS,K.
NIM	200	0	820900	533 BOIE,R.A.
EWWW	96	1656	901000	918 LAVERTY,S.
WW	89	1565	830200	38 FORRESTER,T.D.
SCPR	2	4	921100	55 BAILEY,J.
ELLE	17	21	811015	798 PENGELLY,R.S.
QST	72	10	881000	43 LAU,Z.
RESC	59	10	881000	2195 MORIKAWA,H.
RESC	51	1	800100	8 LONG,A.P.
ELEN	61	752	890800	24 HASAN,P.
EWWW	96	1657	901100	992
ELEC	50	7	770331	118 MAXWELL,J.
ITIE	37	1	900200	82 HO,P.T.
MEBI	18	5	800900	660 IORDANESCU,S.
ANCH	50	1	780100	147 SIEMER,D.D.
ELTO	9	8	850800	32
ELDE	33	11	850516	201 ALLEN,C.
NIM	217	1	831115	113 CHALUPKA,A.
EDN	37	8	920409	148 COSOROABA,A.B.
73AM	0	267	821200	24 KATZ,S.D.
ITBR	37	1	910300	23 BALASUBRAMANIAN,K.
PE	10	2	930200	61 SPIWAK,M.
ELEC	51	20	780928	129 GRAEME,J.
ELDE	32	7	840405	164 ZARNESCU,S.
EDN	33	6	880317	141 HILLSTROM,T.L.
RESC	63	2	920200	1763 SHYAMSUNDER,E.
INJO	59	1	850700	121 DOKIC,B.L.
RAEL	57	12	861200	57 SHEETS,W.
M116	30	1	791100	38 SIMON,S.
MOEL	6	12	891200	52 DESPOSITO,J.
COCR	2	4	920400	55 VONPAWLAK,C.
HAEL	5	3	880300	32 BROM,E.W.
M178	4	2	850400	82 AMINI,A.
NIMA	316	2	920601	324 CROFT,S.
ITIA	28	2	920300	441 ASANO,K.
ITIE	35	1	880200	26 LUO,R.C.

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EDN	33	12	880609	262 BENNETT,S.
EWWW	96	1653	900700	575 BRICE,R.
73AM	0	298	850700	44 WOLFF,A.J.
73AM	0	285	840600	26 CREASON,S.
ELDE	36	11	880512	133 MORGAN,D.
DIDE	12	3	820300	28 JACOBS,D.T.
ELEC	53	5	800228	132 LYLE,J.
EWWW	97	1677	920800	692
PE	6	10	891000	37 VOLLONO,V.
IEEB	139	3	920500	220 LIAW,C.M.
AUDI	67	8	830800	65 SALVAT,M.J.
ELDE	35	19	870820	111 WRAY,C.L.
ELDE	37	11	890525	67 SCHULTZ,W.
BYTE	5	10	801000	24 CIARCIA,S.
ITPE	6	3	910700	398 MWEENE,L.H.
BYTE	12	1	870100	263 FREEDMAN,R.A.
CHBI	12	4	820400	201 BIRLASEKARAN,S.
RESC	50	11	791100	1429 BAKER,R.W.
ELEC	56	4	830224	115 BOOTMAN,S.
NUIN	140	0	770100	61 GLASSEL,P.
PE	9	4	920400	38 POETH,D.F.,II
ELEN	57	703	850700	44 BOTTOMLEY,G.
M067	10	2	890200	209 OLSEN,R.G.
JOCH	58	12	811200	992 STOCK,J.T.
RAEL	63	5	920500	12 PETERSON,C.
ITPE	7	1	920100	136 SABLE,D.M.
RAEL	57	2	860200	76
RESC	55	8	840800	1265 QUITEVIS,E.L.
ELEC	55	24	821130	115 PSHAENICH,A.
RAEL	52	9	810900	65 MCCLELLAN,G.
REW	0	0	831200	83 IBBS,S.
ELEN	56	685	840100	34 CHITA,J.S.
CQ	41	2	850200	34 INGRAM,D.
BYTE	7	6	820600	260 BARDEN,W.,JR.
MOEL	5	5	880500	67 HELMS,H.L.
MEIN	20	2	860300	107 BRYANT,H.J.
BUPR	18	2	810200	78 SPENGLER,D.M.
EWWW	97	1666	910900	755 HEGGLUN,I.
EWWW	97	1669	911200	1052 KARAGEORGAKIS,J.
MEBI	30	2	920300	248 MATTHEWS,B.
JEPT	13	2	860200	61 DUFFIN,J.
JOCH	67	8	900800	703 HARTMAN,D.R.
RESC	59	4	880400	638 TEYSSEDOU,A.
WW	87	1551	811200	58 STEAD,R.C.T.
JOPH	17	12	841200	1152 PARMAR,D.S.
ELWI	90	1579	840400	36 COATES,R.F.
EWWW	97	1660	910200	166 AMARAL,L.
MESC	3	5	920500	471 VAN TOLEDO,W.
EEU	2	9	920700	65 FIETZ,I.

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ELWI	92	1610	861200	44 RATCLIFFE,P.J.
INJO	57	5	841100	697 LEFAS,C.C.
JOCH	53	7	760700	465 MUHA,G.M.
LAPR	35	4	860400	88 WILSON,J.
PE	8	2	910200	22 WELS,B.G.
CQ	40	5	840500	36 NOUEL,C.C.
EDN	31	24	861127	240 WAYNE,S.
ELEC	50	15	770721	125 VISWANATH,C.
EDN	27	21	821027	223 TOOMEY,P.
ITNS	36	1	890200	412 KOLBE,W.F.
EWWW	97	1671	920200	157 TACCA,H.
INCO	9	3	910500	89 LEYVA,J.A.M.
CICE	0	28	920800	26 MCGUIRE,G.
ANIN	18	1	890100	1 CLARK,G.D.
MOEL	7	6	900600	32 THOMPSON,B.
ITED	33	4	901100	341 NEHRIR,M.H.
EDN	38	4	930218	145 XIA,Y.
EEU	2	9	920700	17
EDN	31	17	860821	167 WYNNE,J.
APSP	38	3	840500	343 HSU,S.L.
ELEC	48	20	751002	104 MCGUIRE,P.L.
RAEL	62	7	910700	58 BIGELOW,S.J.
HARA	21	1	880100	38 ERHARDT,R.L.
RESC	60	3	890300	422 BLACKBURN,J.A.
PE	7	5	900500	61 SPIWAK,M.
DIDE	10	3	800300	60 ZUCH,E.L.
ELDE	40	21	921015	76 GERSTENHABER,M.
ELDE	41	10	930513	70 JUNG,W.
RESC	53	12	821200	1878 GRUN,J.
ELEC	50	6	770317	99 KEPPEL,M.E.
ULTR	22	1	840100	16 SHORROCK,G.
EDN	36	23	911107	193 WILLIAMS,J.
PE	10	1	930100	43 COVINGTON,M.A.
AMJO	51	5	830500	434 NICKLIN,R.C.
M091	17	3	881100	171 BERGER,R.L.
RESC	61	8	900800	2073 POLICKE,T.A.
RESC	62	4	910400	963 BENEDETTI,M.
ELEC	50	13	770623	126 ANGLIN,M.E.
ELWI	93	1602	860400	72 MIGUEL,J.M.
ELWI	92	1610	861200	32
NIMA	254	1	870201	35 ASANO,Y.
ELEC	49	7	760401	82 GILBERT,B.
ELEN	55	681	830900	34 HILL,J.J.
RAEL	52	8	810800	49 MCCLELLAN,G.
M122	16	1	880100	12 POLVANI,R.S.
ELEN	61	753	890900	28 O'DELL,T.H.
RESC	49	7	780700	933 MISAKIAN,M.
NATE	0	0	900600	5 RATLIFF,R.
ELEC	49	10	760513	110 KOCH,C.J.

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ELDE	36	20	880908	75	BYRNE,M.
WW	89	1569	830600	67	LAWSON,J.
RESC	62	12	911200	3010	HAMMICHE,A.
ELDE	28	19	800913	79	TUCHOLSKI,H.
MIMI	10	6	860800	325	CHMIELOWSKI,M.
ELTE	12	9	890900	62	BROWN,C.
MESC	1	1	900100	24	PESOR,J.Z.
EWWW	96	1652	900600	512	HUTCHINGS,H.
INJO	73	3	920900	627	SURAKAMPONTORN,W.
ELDE	31	7	830331	185	ROENIGK,G.D.E.
JONE	30	1	891000	59	AERTSEN,A.M.H.J.
HARA	22	1	890100	9	LITTLEFIELD,R.
IJEE	20	1	830100	15	BINNS,D.F.
ELWI	93	1619	870900	885	SMITH,S.A.C.
ELDE	36	21	880922	127	HARDWICK,S.
PE	8	12	911200	56	CARR,J.J.
AMJO	50	2	820200	188	ELIASON,L.J.
PE	8	7	910700	70	RAKES,C.D.
QST	67	11	831100	35	TANNER,T.C.
QST	66	6	820600	24	NOBLE,F.
ELDE	30	9	820429	197	HADLEY,C.
73AM	0	357	900600	30	CURRY,D.
EDN	35	18	900903	172	ANGLIN,M.
EDN	32	2	870122	250	CHANG,M.
ITIM	38	3	890600	827	DUNCAN,M.G.
POEL	20	10	821000	92	MIMS,F.M.
AUAM	20	1	890200	29	HOWE,T.
M038	269	2	930800	120	NEFF,J.
73AM	0	270	830300	10	LANGNER,J.
RESC	62	7	910700	1863	CHORNIK,B.
HARA	22	12	891200	72	ESCHMANN,J.
AUAM	20	2	890400	32	DALZELL,L.B.
ELDE	29	6	810319	259	WILLIAMS,J.
ELLE	23	4	870212	138	WILSON,B.
AUAM	21	3	900800	8	BORBELY,E.
ELEN	61	751	890700	24	DARWAZEH,I.
ITCS	37	9	900900	1157	BERNSTEIN,G.M.
ELTO	8	10	841000	51	LOUIE,T.
NIMA	317	1	920615	308	CENNINI,P.
JONE	15	2	851000	131	PEPLER,J.H.
PHTE	23	3	850300	180	KARLOW,E.A.
ELDE	39	19	911010	93	CHAMBERLAIN,J.
ANCH	60	7	880401	730	MCLAREN,R.
ITBE	33	10	861000	929	PHILIPS,C.M.
RAEL	59	4	880400	77	NASSAR,D.
JONE	9	3	831100	243	DAUTH,G.W.
EDN	28	20	830929	143	SHERMAN,L.
CQ	44	6	880600	46	SCHULTZ,J.J.
ELCI	131	4	840800	141	FILANOVSKY,I.M.

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ELEN	60	741	880900	28 WILSON,B.
PE	6	4	890400	37
M002	16	182	901000	44 KRAUS,K.
JONE	7	1	830100	89 OBARA,S.
RESC	56	12	851200	2253 NIIMURA,M.
AUAM	17	1	860200	18 BORBELY,E.
CLEN	10	4	851000	307 PETROFSKY,J.S.
EWWW	97	1669	911200	1051 WEINSTEIN,R.
REEP	11	5	801000	98 BASKIND,D.
PHED	20	5	850900	244 ALLEN,A.R.
RESC	62	3	910300	643 BALTZER,P.
RESC	52	9	810900	1361 RAHF,L.
ELDE	30	6	820318	43 ALLAN,R.
NIMA	309	1	911101	218 SUGIMITSU,T.
ELWI	93	1616	870600	577 IVALL,T.
RESC	63	9	920900	4182 YOST,W.T.
EDN	32	2	870122	181 KANIEL,A.
EVEL	16	2	870200	76 STUART,M.
M189	26	3	780300	141 CHOU,C.-K.
RAEL	58	3	870300	82 GROSSBLATT,R.
ELEN	58	709	860100	34 NICOLosi,E.C.
COEL	21	5	830500	90 MIMS,F.M.,III
AMJO	58	4	900400	400 ENLOE,C.L.
73AM	0	341	890200	76 HAUSMANN,H.
JEPT	13	1	860100	1 GAGNE,S.
ANCH	53	13	811100	2030 ODA,C.E.
RFDE	13	2	900200	35 KUSHNICK,E.
ELTO	8	11	841100	62
EDN	33	14	880707	106
INJO	65	5	881100	971 ROBINSON,F.N.H.
SCPR	2	2	920400	111 MIMS,F.M,III
EWWW	98	1681	921200	1013 KRAUS,K.
EDN	30	2	850124	243 DELAGRANGE,A.
M040	25	1	860100	23 LEFAS,C.C.
MESC	1	11	901100	1131 PETERS,R.D.
ELWI	90	1581	840600	21 EWINS,A.J.
HAEL	2	1	840100	77 VIESCA,F.G.
EWWW	97	1659	910100	28 WILLIAMSON,R.
ELDE	32	15	840726	256 ROGERS,F.J.
73AM	0	348	890900	58 MOELL,J.
HAEL	5	2	880200	31 HALL,C.
EDN	31	4	860220	246 DELAGRANGE,A.D.
ELDE	36	19	880825	83 YAGER,C.
ELDE	39	13	910711	136 BARNETT,T.G.
7ART	0	376	920100	28 BRUMBAUGH,J.F.
RESC	58	10	871000	1811 IKUTA,T.
RAEL	59	8	880800	69 LANCASTER,D.
ELWI	93	1619	870900	908 ISAACS,B.V.W.
EEU	2	3	920100	26 RUFFELL,J.

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ELEN	56	693	840900	37 XHAARD,M.
EVEL	16	2	870200	72 COUGHLAN,I.
ELWI	91	1593	850900	55 KRAUS,K.
ELEN	56	687	840300	31 MICHAEL,J.
EDN	32	17	870820	254 PRESTON,T.
EEU	2	9	920700	71 SANJAY,C.
MOEL	5	12	881200	58 MIMS,F.M.,III
RESC	60	1	890100	12 RICHTER,L.J.
ELEN	61	745	890100	24 SAGE,L.
HARA	23	1	900100	72 LITTLEFIELD,R.
M116	30	1	791100	18 WILDING,G.
NIMA	325	1	930201	109 ASANO,Y.
ELWI	91	1591	850500	54 LAVIN,T.
JOCH	62	1	850100	65 MCCLINTOCK,S.A.
INJO	72	1	920100	143 CHEN,Y.-P.
MOEL	8	3	910300	38 MOSTAFAPOUR,B.
AUAM	18	1	870100	15 HECKERT,H.J.
REW	0	0	830300	46
RESC	57	9	860900	2326 GRAZULIS,L.
POEL	17	1	800100	59 QUEEN,I.
ELDE	31	22	831027	155 OW-WING,K.
NIMA	256	1	870415	38 CASTELLANO,M.
ETT	13	2	890200	59 BRINDLEY,K.
73AM	0	259	820400	36 CAMPTON,J.L.
RESC	49	10	781000	1425 VILLENEUVE,J.P.
RESC	48	3	770300	287 SHEPPARD,D.M.
RAEL	62	12	911200	12 ANDREWS,D.
ELEL	20	5	800900	59 HUGGARD,L.
JOCH	69	3	920300	253 STOCK,J.T.
AMJO	54	10	861000	918 KIRKUP,L.
RAEL	60	11	891100	33 SHEETS,W.
ELEN	64	790	921000	40 SPEDDING,N.
QST	71	9	870900	22 ERHARDT,R.
RESC	50	2	790200	181 HAINSWORTH,D.W.
PE	7	5	900500	38 GIANNELLI,J.
SCPR	1	4	911000	89 MIMS,F.M.,III
7ART	0	392	930500	52 MOELL,J.
JOMA	93	1	910601	207 LI,L.
ITNS	33	1	860200	946 TAKEUCHI,S.
EDN	33	25	881208	300 MATRO,F.
BUPR	18	2	810200	3 PHILIPSON,L.
POEL	20	4	820400	61 HERSHBERGER,D.
POEL	12	1	770700	66 BOHN,D.
MEBI	19	4	810700	509 GENTER,C.R.,II
HAEL	5	1	880100	27 BYERS,T.J.
HAEL	5	1	880100	54 CUNKELMAN,J.
PE	8	3	910300	55 SPIWAK,M.
PE	9	10	921000	58 RAY,D.P.
NATE	0	0	880100	7 MCALISTER,W.B.

Sheet1

HAEL	3	3	860500	84 PATRICK,D.E.
ELDE	35	7	870319	139 BITTNER,J.
ELTO	10	6	860600	41
JOPH	20	6	870600	695 BELLI,G.
ITBE	37	2	900200	157 MILLER,G.E.
RAEL	62	5	910500	41 PLANT,D.
RAEL	55	4	840400	47 SARNS,S.E.
JOPH	20	5	870500	565 PEATTIE,R.
ELEN	59	731	871100	38 DRNDAREVIC,V.
EDN	33	4	880218	235 BARNETT,T.G.
ITED	27	2	840500	73 GRUBER,S.
NUIN	166	0	791100	343 CASTELLANO,M.
ITED	33	4	901100	363 DISTLER,R.J.
MESC	3	6	920600	603 PHILP,W.R.
JOPH	16	12	831200	1167 BAXTER,B.J.
ELEN	56	686	840200	36 KIRBY,S.
HAEL	3	4	860700	61 PATRICK,D.E.
QST	67	10	831000	14 NELSON,R.A.
ELHA	0	0	861000	23
POEL	15	5	790500	93 MIMS,F.M.
ELEN	55	678	830600	26 DEARDEN,J.
JOPH	20	3	870300	311 MILLER,I.S.
EDN	29	17	840823	240 FERRISS,L.
AUAM	15	1	840300	24 GRUPP,C.
ETT	13	4	890400	19 RUGG,J.
ELDE	37	21	891012	85 LACANETTE,K.
BYTE	3	2	780200	114 ALLEN,D.
NIM	195	0	820400	443 HOWELL,C.R.
M105	4	2	880400	275 SANTANGELO,J.D.
MOEL	7	9	900900	24 PENCE,S.
EWWW	96	1657	901100	988 BRIDGEN,D.
RFDE	14	1	910100	61 CUPIDO,L.
ITBE	38	3	910300	230 COLLINS,C.C.
EWWW	97	1672	920300	236 BARTRAM,A.
QST	65	10	811000	34 POTTER,D.W.
RESC	56	10	851000	1964 TANASE,S.
RAEL	58	5	870500	39 ROSETH,G.
TALA	39	2	920200	101 LINDGREN,C.C.
MEBI	22	4	840700	309 MIYAZAKI,S.
ELLE	26	10	900510	619 CHUNG,W.-S.
PE	10	7	930700	49
7ART	0	392	930500	65 BRYCE,M.
RAEL	54	2	830200	76 MABRY,C.
AUDI	69	2	850200	40 FELDMAN,L.
LAPR	33	2	840200	77 MORRIS,S.C.
ANCH	61	5	890301	496 LEI,W.
ELEN	56	689	840500	43 MARSHALL,R.
RESC	54	10	831000	1397 APFEL,R.E.
EDN	30	26	851128	206 WILIAMS,J.

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PE	7	5	900500	84 RAKES,C.D.
HARA	20	8	870800	73 CARR,J.
ESD	18	2	880200	71 KAMATH,G.
MICO	7	1	830100	42 ROBILLARD,M.J.
ELCI	135	2	880400	71 SURAKAMPONTORN,W.
AMJO	49	3	810300	275 MANN,J.C.
JOPH	14	12	811200	1397 EICHELE,H.
ELWI	91	1593	850900	58 DENNIS,N.J.
AJP	244	4	830400	455 HESTER,R.L.
NIMA	243	2	860301	281 MACARTHUR,D.W.
CHBI	12	3	820300	135 PATRA,A.L.
ITIM	38	6	891200	1116 AL-ALAOUI,M.A.
RESC	48	12	771200	1654 JULIA,Y.H.
EDN	29	3	840209	220 GANTT,P.R.
JOCH	59	4	820400	338 CLUBINE,G.D.
LAPR	28	10	791000	1084 MICHIE,N.A.
MEBI	18	0	801100	799 KIRSNER,R.L.G.
VIRE	32	5	920500	953 WATANABE,T.
EDN	38	5	930304	131 SIMPSON,C.
7ART	0	363	901200	24 KOSSOR,M.
RAEL	57	11	861100	46 GRAF,R.
ELNO	64	7	930700	69 MARSTON,R.
POEL	19	3	810300	100 MIMS,F.M.
M146	46	3	901200	449 KEPLER,T.B.
RESC	59	8	880800	1328 GRATTAN,K.T.V.
AMJO	49	7	800700	523 BLACKBURN,J.A.
ELEC	49	14	760708	107 STARR,R.F.
QST	70	3	860100	49 PARSONS,K.C.
NIM1	196	0	820500	449 DROSG,M.
JOPH	16	8	830800	786 PRESTON,R.C.
EWWW	97	1659	910100	53 ELLIS,J.N.
RAEL	62	7	910700	68 LANCASTER,D.
EWWW	96	1648	900200	142 PAL,A.
QST	66	10	821000	28 WEBB,J.
HAEL	5	1	880100	84 RAKES,C.D.
CICE	1	4	880700	4 CIARCIA,S.
WW	89	1567	830400	50 HILL,G.C.
RESC	64	2	930200	532 SILNY,A.
ELDE	41	6	930318	67 HAGERMAN,J.
ELTO	9	8	850800	34 PENFOLD,R.A.
HAEL	2	2	840200	54 ERICKSON,R.
POEL	14	4	781000	75 GARNER,L.
BYTE	6	7	810700	210 CIARCIA,S.
HAEL	5	6	880600	66 FRIEDMAN,H.
MIMI	9	5	850600	231 VAIDYA,D.M.
ITIM	38	1	890200	27 NG,K.T.
73AM	0	348	890900	81 BRYCE,M.
PE	8	2	910200	78 ELLIS,M.
LAPR	31	11	821100	1094 MINTER,B.A.

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QST	69	9	850900	20 EWING,R.K.
RAEL	57	5	860500	32 GOERS,R.L.
ELEN	55	681	830900	31 BAKER,K.
POEL	17	2	800200	97 MCVEIGH,J.
QST	61	3	770300	49 ALTERMAN,M.
ELTO	8	6	840600	40
ELDE	26	24	781122	166 DIGHE,K.D.
HAEL	2	3	850300	49 MACY,R.A.
CQ	39	5	830500	64 SCHULTZ,J.J.
RAEL	58	8	870800	8
INJO	64	2	880200	199 FILANOVSKY,I.M.
ANCH	56	9	840800	1750 HOWARD,G.D.
ITCS	33	10	861000	974 KENNEDY,M.P.
RESC	51	12	801200	1656 MARTIN,F.
RFDE	5	4	820700	22 BLOCKSOME,R.K.
RESC	51	5	800500	610 ROSENTHAL,L.A.
ELDE	28	16	800802	93 MONTGOMERY,R.
PE	6	8	890800	45 CZARNIK,S.A.
RESC	48	6	770600	695 MEYER,J.J.
POEL	17	2	800200	75 SYDNOR,A.
HARA	23	4	900400	73 CLONINGER,W.C.,JR.
EWWW	97	1670	920100	78 SALTER,R.
QST	67	4	830400	14 PETERSEN,D.N.
ELTO	10	9	860900	38 WRIGHT,H.
73AM	0	340	890100	12 HOUGHTON,C.L.
AUAM	22	1	910200	28 DIDDEN,J.
ELDE	31	12	830609	204 KANEMOTO,R.M.
LAMI	6	3	870300	122 MALCOLME-LAWES,D.J
QEX	0	50	860400	3 LARSEN,E.
JOPH	17	3	840300	193 OREB,B.F.
ETI	5	8	810800	56 SINCLAIR,I.
RESC	57	12	861200	3114 KATH,G.S.
CQ	40	11	841100	50 KRETZMAN,B.H.
QST	68	8	840800	48 MONTICELLI,D.
INJO	62	2	870200	243 FILANOVSKY,I.M.
CQ	40	8	840800	18 SOLOV,E.
RESC	48	3	770300	359 CONRADI,M.S.
JEMT	6	2	820300	62 BRIDGER,M.W.M.
RESC	49	3	780300	318 JACOBSON,A.R.
RAEL	54	1	830100	47 GIBILISCO,S.
CQ	39	12	831200	25 SCHULTZ,J.J.
INJO	57	1	840700	187 CHANG,S.
PHTE	29	3	910300	182 BENOIT,G.
ELWI	95	1643	890900	858 BROOK,T.
MOEL	7	5	900500	36 PONTING,D.
BYTE	8	4	830400	28 CIARCIA,S.
RAEL	61	11	901100	34 IANNININ,R.
ELDE	32	15	840726	193 BALAKRISHNAN,R.
RESC	58	10	871000	1806 FEIN,A.P.

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7ART	0	376	920100	8 BECK,M.
ELEN	61	756	891200	28 KRAUS,K.
EDN	36	13	910620	139 GRAEME,J.
ELEN	58	719	861100	39 WILSON,R.
ELEN	60	734	880200	32 PORTER,A.
RESC	63	8	920800	3944 WHITE,M.A.
DIDE	14	7	840700	46 PINGRY
PE	8	1	910100	57 CARR,J.J.
JOPH	17	7	840700	581 SIMONS,J.P.
CQ	43	5	870500	40 INGRAM,D.
CQ	40	5	840500	42 MCCOY,L.
ELDE	37	4	890223	92 JIMENEZ-GARCIA,R.
CQ	47	3	910300	40 INGRAM,D.
7ART	0	394	930700	53 DANZER,P.M.
ANCH	58	14	861200	3207 PAWLISZYN,J.
RESC	55	9	840900	1433 MODLIN,D.N.
EDN	32	6	870318	204 JIMENEZ,R.G.
NIMA	260	1	871001	55 BARTLETT,D.
EWWW	96	1655	900900	807
EWWW	97	1677	920800	684 JONES,N.
ELDE	31	3	830203	170 GOLICK,S.
EDN	33	1	880107	191 HENRY,P.
NIM	191	0	811100	107 CHATELIER,M.
EDN	37	4	920217	139 GRAEME,J.
ELDE	33	19	850815	39 HEFTMAN,G.
BYTE	4	10	791000	140 POWERS,W.T.
EEU	2	9	920700	72 VANDEN BERGHE,J.
ITNS	33	1	860200	261 BIRD,F.
RESC	51	3	800300	278 DUNCAN,H.A.
ELDE	32	6	840322	231 LAMMER,P.
ELWI	93	1616	870600	580 LEWIS,K.
MIRF	25	4	860400	65 MOULTON,G.
ELEN	56	694	841000	45 KRAUS,K.
RAEL	50	6	800600	51 MCCLELLAN,G.
HARA	21	4	880400	9 ROBBINS,R.
RFDE	13	3	900300	109 BOUTIN,N.
ITIM	35	2	860600	152 SAHA,S.K.
ITPE	3	4	881000	460 TSAI,F.-S.
EDN	37	21	921015	146 HOUGHTON,B.
QST	65	7	810700	15 KAPPLIN,S.
HAEL	4	3	870300	71 SWEENEY,D.
ELNO	63	8	920800	67 GRAF,R.F.
MIMI	10	1	860100	28 DAVIDSON,J.
ELWI	93	1615	870500	531 AWCOCK,G.J.
QST	71	11	871100	23 MURPHY,G.
QST	72	4	880400	72 ATKINS,B.
ELLE	26	21	901011	1748 POOLE,C.R.
CQ	41	3	850300	97 INGRAM,D.
NIMA	292	1	900615	1 FUJISAWA,T.

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JOMA	67	1	860300	156 EDELSTEIN,W.A.
HAEL	3	3	860500	87 PATRICK,D.E.
RAEL	62	5	910500	44 POLIMENE,F.
EWWW	98	1679	921100	948
ELWI	93	1613	870300	297
REW	0	0	831200	39
QEX	0	62	870400	4 KUMETZ,R.P.,JR.
JOPH	14	7	810700	817 KAPUNGU,G.P.
AUAM	19	1	880200	51 HAMLEY,J.P.
M108	18	6	790600	66 BOWMAN,G.A.
ELEN	63	773	910500	29 HUTCHINGS,M.
CODE	22	13	831100	95 MOROYAN,T.
POEL	19	5	810500	25 PRENTISS,S.
M108	21	8	820800	71 BUNNELL,D.
ITCE	36	1	900200	32 ZHU,Z.
ITCE	30	2	840500	81 LEMPERT,I.E.
QST	72	5	880500	18 DEMAW,D.
ELEN	60	739	880700	23 FOORD,A.
M035	8	1	880300	47 WOLFS,P.J.
EDN	37	21	921015	139 WILLIAMS,J.
ELDE	33	12	850530	151 GOODENOUGH,F.
ELDE	37	19	890914	107 MARKELL,R.
EDN	35	17	900820	151 HUFFMAN,B.
EDN	32	14	870709	264 RICH,A.
NIMA	280	1	890801	13 FABBBRETTI,R.
EDN	37	11	920521	124 SWAGER,A.W.
ITIM	29	4	801200	230 DE JONG,G.
MESC	1	10	901000	1017 RAMADAN,B.
NIMA	268	2	880520	509 ZIEGLER,N.F.
NIMA	292	3	900715	715 LEVY,H.
MIRF	27	12	881100	79 WYATT,K.D.
ITBE	32	7	850700	461 TACHI,S.
BYTE	8	2	830200	54 CIARCIA,S.
M076	1	1	810200	58 KLINGMAN,E.E.
WW	87	1551	811200	40 DAWSON,J.H.J.
EDN	29	10	840517	213 NELSON,D.
EEU	1	12	911000	52 SHANKAR,R.
POEL	19	6	810600	68 BREGOLI,L.
BYTE	7	12	821200	288 BOYET,H.
QST	73	2	890200	45 ANDERSON,P.T.
ELEN	56	685	840100	29 TATTERSALL,R.
RESC	54	7	830700	886 CUTKOSKY,R.D.
POEL	16	6	791200	85 MIMS,F.M.
RESC	50	11	791100	1396 SHACKLETTE,L.W.
RAEL	63	5	920500	41 KEEFE,E.J.,JR.
ELDE	41	14	930708	76 CHUM,S.
POEL	18	1	800700	79 MIMS,F.M.
7ART	0	373	911000	52 MOELL,J.
HAEL	3	2	860300	4

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PE	7	11	901100	75 RAKES,C.D.
HAEL	2	6	851100	65 MEAGHER,J.B.
TRAS	29	2	860300	422 PITTS,M.J.
ETI	8	4	840400	68 NICHOLS,G.
ETI	8	4	840400	68 NICHOLS,G.
MIRF	24	9	850900	147 SCHROTH,J.
ELEN	56	691	840700	27 REID,P.A.
QST	65	11	811100	11 HAYWARD,W.
POEL	19	2	810200	95 MIMS,F.M.
QST	65	10	811000	11 RUSSELL,J.D.
ITNS	33	1	860200	797 PREGERNIG,L.
ELWI	94	1625	880300	241 BENTON,I.
RESC	49	9	780900	1356 ENGLE,J.L.
RAFU	0	6	920100	6 GRONSON,G.F.
ELDE	40	17	920820	71 HARVEY,J.A.
COEL	21	8	830800	30 ZINGALE,T.
RAEL	60	4	890400	63 MARSTON,R.
REE	46	7	760700	337 LAMDAN,T.
ETI	7	12	831200	45 HOLMES,R.
HAEL	2	6	851100	72 NOLL,E.M.
NIMA	265	1	880301	336 ZHONGQIANG,Y.
CODE	21	1	820100	155 ALTNETHER,J.P.
M144	23	12	761200	55 PAYNE,L.
EWWW	97	1674	920500	421 PALAZZI,P.
ELDE	32	15	840726	255 WITTLINGER,H.
NIMA	270	1	880701	101 MARTIN,J.-P.
ELDE	37	20	890928	93 EICHENBERG,D.
M160	54	4	830400	1149 HOPP,F.A.
DIDE	10	7	800700	78 BOYLE,R.J.
JOCH	66	4	890400	354 ERSKINE,S.R.
QST	67	11	831100	90 NEIHART,C.
HARA	21	8	880800	75 MEASURES,R.L.
JOPH	14	6	810600	755 WILLIAMS,G.I.
JOPH	22	7	890700	516 GODFREY,L.
MESC	2	10	911000	912 NAITO,H.
BYTE	8	6	830600	168 HANSEN,S.
AUAM	17	1	860200	47 HART,A.A.
AUAM	16	1	850100	24 TUTAY,T.
AUAM	15	3	840700	46 TUTAY,T.
AUAM	20	3	890800	49 TUTAY,T.
TALA	31	2	840200	117 PAPOFF,P.
AUAM	18	3	870700	13 AMER,P.J.
LAMI	3	2	840200	50 GOODE,S.R.
73AM	0	320	870500	38 CAMERON,W.B.
JOMA	59	3	841001	506 ILGEN,H.
FAJO	7	5	790900	10 SUMMERS,J.
FAJO	9	2	810200	28 JAY,C.
FAJO	8	1	800100	24
NIMA	273	1	881201	303 ALEKSAN,R.

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EDN	29	4	840223	315 WEGNER,R.
NATE	0	0	890100	7 FRITSCH,K.
NIMA	228	2	850101	564 PEREZ-MENDEZ,V.
EDN	38	20	930930	114 TAM,Y.S.
ELEC	56	13	830630	153 COZER,C.
AMJO	51	6	830600	573 FEINBERG,R.
JOMA	71	3	870215	544 DYKSTRA,R.W.
M080	26	271	890700	30 ISHII,T.
EDN	25	4	830217	231 WOOTEN,D.
AMJO	58	5	900500	506 WAGNER,W.S.
ITBE	29	8	820800	581 OLESON,J.R.
ELDE	39	17	910912	141 DUNN,J.
RAEL	57	7	860700	52 HODOWANEC,G.
AUDI	62	6	780600	86 PONTIS,G.D.
APSP	45	7	911100	1553 HIEFTJE,G.M.
PHTE	30	5	920500	310 SPENCER,C.D.
ELEC	50	14	770707	104 ARMPFIELD,S.C.
JOCH	62	4	850400	360 STIFFEY,A.V.
LAPR	32	1	830100	65 DAVENPORT,J.
MOEL	7	11	901100	32 EICHENBERG,D.
EWWW	97	1678	920900	787
EDN	32	21	871015	191 LUBS,S.
ELDE	38	1	900111	192 RAMOS,O.A.
RAEL	59	5	880500	50
NIMA	236	2	850515	349 MURPHY,D.M.
MEBI	21	5	830900	591 LINKENS,D.A.
ELEN	60	737	880500	19 TILBURY,C.
PE	10	4	930400	57 CARR,J.J.
RESC	57	12	861200	3059 SANDERS,W.A.
RESC	55	2	840200	262 WATANABE,A.
INJO	52	3	820300	299 GEORGE,J.
EDN	28	8	830414	176 SWARD,W.
RESC	61	8	900800	2245 IGLESIAS,M.C.L.
ELEC	49	16	760805	108 FICHTENBAUM,M.L
RAEL	57	7	860700	11 HU,L.L.
POEL	16	5	791100	117 MIMS,F.M.
ELDE	30	7	820331	120 VAN DER SCHANS,A.
ELEC	50	2	770120	99 HECKT,N.
RAEL	53	2	820200	45 BEABER,R.N.
EDN	31	21	861016	228 DARJANY,J.
EDN	31	22	861030	208 FARRAR,D.
ELWI	94	1623	880100	4 LAKSHMINARAYANAN,V
BYTE	3	1	780100	58 ALLEN,D.M.
NATE	0	0	881000	5 BAUMANN,E.
M016	22	4	830215	619 SOLTZBERG,L.J.
EEU	2	3	920100	56 RIGBY,A.
CICE	0	30	921200	32 HITCHCOCK,P.
ANCH	58	12	861000	2549 TRUBEY,R.K.
M076	1	2	810500	9 TABACHNICK,R.L.

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RESC	55	10	841000	1556 FANSLER, T.D.
ELEL	20	5	800900	53 FRIEDMAN, H.
EDN	30	9	850418	284 AHMAD, M.O.
ITIE	35	2	880500	338 CHRISTIANSEN, C.F.
ELDE	37	3	890209	69 LEONG, R.M.
AMJO	57	11	891100	999 BASANO, L.
RESC	61	8	900800	2214 BRAUER, S.
POEL	13	4	780400	84 MIMS, F.M.
TRAS	27	6	841100	1970 SLAUGHTER, D.C.
ELEC	56	3	830210	153 JAIN, D.S.
RESC	50	6	790600	780 WALRAVEN, R.
JOPH	17	5	840500	357 LOIDL, A.
HAEL	4	1	870100	103 DAWSON, C.
M047	4	4	900700	368 CAHALAN, R.F.
PE	9	2	920200	65 RAKES, C.D.
GLAU	3	1	910100	1 STAGGS, V.
ITIE	33	3	860800	281 SHARDA, N.K.
NIMA	282	0	891010	739 SHKOLA, N.F.
COEL	21	9	830900	79 ANTONAKOS, J.
ELDE	28	9	800426	214 MALVAR, H.S.
BYTE	6	4	810400	122 WILLIS, J.E.
73AM	0	274	830700	44 JONES, W.B.
RAEL	59	10	881000	95 BARBARELLO, J.
ELDE	37	15	890713	84 LAKSHMINARAYANAN, V
ELTO	9	9	850900	43 SCHAERER, T.
RAEL	58	1	870100	57 MORRISON, D.
ELEN	56	685	840100	32 IRISH, R.T.
POEL	20	1	820100	80 MIMS, F.M.
TRAS	21	9	880900	61 GRIFFITH, A.S.
ETT	13	9	890900	14 WALKER, C.
LAPR	28	2	790200	137 TAYLOR, M.R.
ELDE	28	7	800329	113 GRAEME, J.
PHTE	30	7	921000	411 WINTERS, L.M.
REW	0	0	830300	69 MARSTON, R.
INJO	56	2	840200	229 VELAYUDHAN, C.
MEBI	24	2	860300	186 TAMURA, T.
RAEL	54	5	830500	65 HENRY, T.
ETI	7	11	831100	52 ORR, T.
HAEL	2	1	840100	84 HAMPTON, R.
M096	135	4	880800	91 ABDALA, M.A.
CICE	0	9	890600	36 ENG, J.
ANCH	54	14	821200	2511 BURRELL, M.C.
PHTE	29	4	910400	227 NICKLIN, R.C.
73AM	0	256	820100	116 AULTMAN, L.
RESC	48	4	770400	392 DERENIAK, E.L.
PE	8	11	911100	71 RAKES, C.D.
JOCH	58	6	810600	515 ARMSTRONG, W.H.
JOMA	70	2	861100	280 ICHIKAWA, T.
POEL	10	5	761100	74 LOWENSTEIN, H.

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ELEN	60	741	880900	28 MILLAR,J.
NUIN	184	0	810500	365 BESSET,D.
RAEL	62	11	911100	71 EADY,F.
PHTE	27	2	890200	76 COLLINGS,P.J.
73AM	0	257	820200	12 OMAN,M.
ELTO	10	6	860600	12 BEDFORD,M.
ETT	12	6	880600	32 COX,T.
NIMA	277	1	890415	222 BECONCINI,F.
ELWI	91	1590	850400	27 THOMAS,L.
ELDE	34	10	860501	229 BRAUNE,D.
MESC	1	4	900400	365 VILLALOBOS,J.
MIMI	11	3	870400	131 TERRELL,T.J.
MIMI	9	8	851000	386 BOWEN,J.
MIMI	9	10	851200	486 CHAPMAN,R.I.
RAEL	62	7	910700	31 ROBERTS,H.E.
68MI	6	11	841100	46 O'KEEFE,L.
M043	8	11	890600	100 FRANCISCO,H.
ELDE	35	28	871127	93 PURVIS,R.
ELDE	32	5	840308	168 RAO,V.
NIMA	278	3	890615	774 ELEVANT,T.
CLCH	21	8	750700	1175 TOREN,C.,JR.
ANCH	51	9	790800	1384 BOUTILIER,G.D.
CODE	19	7	800700	166
CEEJ	10	2	850400	69 RAMAKRISHNA,K.
ITCS	36	1	890100	161 SINGH,V.
RESC	63	11	921100	5408 TINCHEV,S.S.
AUAM	19	3	880800	21 MARSH,R.N.
ITNS	36	1	890200	665 IKEGAMI,Y.
EWWW	97	1673	920400	324
M030	33	12	881200	1407 MEISSNER,P.
BYTE	11	10	861000	103 CIARCIA,S.
ELDE	33	4	850221	235 COTREAU,G.
HARA	20	7	870700	33 KLINERT,C.
EWWW	99	1687	930600	511 AL-HASHIMI,B.
MEIN	17	2	830300	119 HARRIS,G.F.
OPLA	23	1	910200	50 TOAL,V.
ELDE	28	4	800215	154 SALERNO,C.
NUIN	166	0	791100	139 DE GRAAF,E.J.
JOPH	17	4	840400	304 TOZER,R.C.
ELEN	56	687	840300	33 LEE,H.
ELEN	55	682	831000	26 NIMMO,R.
EDN	28	3	830203	162 ILTIS,R.
ELWI	93	1619	870900	935
ELDE	38	12	900628	96 KIRSTEN,J.
EDN	35	18	900903	174 FLEMING,T.
JMET	16	3	920500	129 SMITH,D.C.
SCPR	1	1	901100	86 CARR,J.J.
RAEL	63	6	920600	69 LANCASTER,D.
NUIN	146	0	771000	399 LEIMANN,E.-A.

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POEL	13	6	780600	92 GARNER,L.
RESC	48	6	770600	664 DESCHAMPS,P.
NIMA	254	1	870201	111 BARICHELLO,G.
INJO	62	2	870200	317 BARUA,A.
MEBI	27	1	890100	94 LOPEZ-BARNEO,J.
COCR	2	1	930100	72 DESPOSITO,J.
RESC	57	3	860300	404 RICHARDS,M.G.
EDN	35	25	901206	218 CUTHBERT,D.
M148	70	5	890401	416 CAMPARO,J.C.
MEBI	25	3	870500	324 GOOVAERTS,H.G.
REW	0	0	841000	22 ROUSE,P.I.
MEBI	22	1	840100	77 VAN HEUNINGEN,R.
CQ	45	12	891200	32 CARR,P.D.
ITED	35	3	920800	204 CELMA,S.
BYTE	2	11	771100	94 BRADER,D.
MOEL	7	5	900500	24 BEARD,B.B.
M023	42	496	850200	556 TURNER,C.
CQ	48	2	920200	22 SCHULTZ,J.J.
RESC	52	11	811100	1765 MAURIN,T.
ELEC	56	15	830728	133 VALLEY,R.
EDN	28	6	830317	195 MELEAR,C.
POEL	19	9	810900	104 MIMS,F.M.
ELEN	58	717	860900	38 WONG,K.
EDN	29	2	840126	214 ARTUSI,D.
NUIN	178	0	801200	11 BRESKIN,A.
EWWW	97	1662	910400	334 MALYNOVSKY,D.I.
PHTE	29	6	910900	356 WINTERS,L.M.
HAEL	3	2	860300	31 BAKER,W.
CQ	39	6	830600	40 PASARIC,B.
68MI	5	6	830600	40 BLANK,R.
ELEN	60	734	880200	14
RESC	49	8	780800	1130 HARTMAN,D.H.
ITNS	39	4	920800	758 TURKO,B.T.
ELDE	33	23	851003	133 SLAWSON,M.R.
POEL	10	2	760800	73 GARNER,L.
MEBI	20	6	821100	783 WIERSMA,J.
QST	70	9	860900	34 WILLIAMS,B.O.
CQ	38	12	821200	46 SCHULTZ,J.J.
CICE	0	32	930300	34 SWARTZENDRUBER,M.
CTM	0	0	860700	12 GRIFFITH,J.
ELWI	91	1592	850800	65 BARTRAM,A.
CQ	42	1	860100	22 INGRAM,D.
EDN	32	17	870820	250 KATH,G.S.
AMJO	55	9	870900	856 HARRELL,J.W.,JR.
EDN	31	4	860220	171 ROWE,P.L.
ELWI	93	1619	870900	933
AUAM	18	4	871100	44 NITIKMAN,S.
AUAM	16	4	851000	45 TUTAY,T.
JOEX	140	0	881100	549 ARMSTRONG,J.D.

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WW	89	1566	830300	39 FORRESTER,T.
ELDE	28	16	800802	65 BRADSHAW,P.
EWWW	97	1670	920100	47
EEU	2	2	911200	85 TEDER,W.
EWWW	97	1674	920500	421 MAIDMENT,H.
POEL	10	5	761100	89 GARNER,L.
NIMA	243	2	860301	374 SHOEMAKER,G.H.N
QEX	0	42	850800	6 BOWMAN,C.
EDN	35	11	900524	174 TAGLIAVINI,A.
JOPH	16	9	830900	892 MARIOLI,D.
M046	12	4	860400	30 SCHULTZ,W.
RESC	55	10	841000	1564 LAWS,W.R.
QEX	0	46	851200	11 BOWMAN,C.
M037	40	2	810200	127 MITCHELL,C.E.
REW	0	0	840900	39 GUY,D.G.K.
EDN	30	21	850919	225 GAUEN,K.
HARA	20	4	870400	29 ASCHENBRENNER,T
M022	67	8	910800	19 DOBBS,G.
ITIE	38	1	910200	10 CHEN,F.
RFDE	3	7	800700	12 FONG,E.
EDN	33	23	881110	251 KNAPP,R.
RESC	56	8	850800	1652 BEN-YAAKOV,S.
SCPR	2	3	920700	113 BARDEN,W.,JR.
ITNS	34	1	870200	236 OLIVER,J.
EDN	36	23	911107	233 WILLIAMS,J.
ELDE	32	7	840405	210 GOODENOUGH,F.
RAEL	59	9	880900	97 STARK.P.A.
ELNO	64	4	930400	37 TEMPLIN,T.T.
BYTE	5	2	800200	32 CIARCIA,S.
ELDE	37	2	890126	125 STEELE,J.
EDN	32	4	870219	196 GERSTENHABER,M.
ELTE	3	3	800300	18 MADNI,A.M.
ELEN	56	687	840300	169 YATES,P.
BYTE	7	1	820100	304 PRICE,G.H.
ITED	32	2	890500	112 MORENO,L.
BIIN	23	2	890300	136 SUN,Y.
EDN	33	15	880721	330 OKUPSKI,R.
ITNS	38	2	910400	363 HALLER,G.M.
AJP	248	2	850200	286 BURGAR,C.G.
RESC	63	4	920400	2327 ERICKSON,M.G.
ITIE	34	4	871100	475 HILL,R.J.
ELDE	36	24	881027	115 HALL,B.
CICE	0	17	901000	73 NISLEY,E.
RESC	56	12	851200	2263 VAN DER GEER,C.A.J
ITNS	32	1	850200	631 BOURGEOIS,F.
RESC	48	3	770300	240 LAWLESS,P.A.
ANIN	13	3	840300	269 PRATT,L.H.
NATE	0	0	890400	6
EDN	38	10	930513	156 POLETTI,F.

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ITIE	34	1	870200	89 JUTILA,R.
ITBE	38	1	910100	75 JI,J.
MESC	3	5	920500	508 TOZER,R.C.
CICE	0	20	910400	57 CANTRELL,T.
73AM	0	318	870300	26 NOUEL,C.
M002	13	146	870600	32 CEM3340/13700
QST	75	11	911100	51 BURDICK,W.
ELMU	3	9	870900	34 RYCKEBUSCH,J.
MIRF	25	10	861000	79 CHAMPAGNE,P.
RAEL	53	7	820700	92 SCOTT,R.F.
QST	66	6	820600	45 GEISER,D.
EDN	31	13	860626	226 DRUMMOND,G.N.
ELNO	64	2	930200	75 LANCASTER,D.
QST	61	3	770300	48 LINCOLN,T.
7ART	0	373	911000	14 AULD,B.
RFDE	12	11	891100	29 WEBB,R.C.
ETI	4	5	800700	46
M057	3	3	880517	2
ELDE	34	28	861127	89 MARTIN,A.G.
ANIN	16	4	870400	407 EVANS,N.E.
M030	34	11	891100	1701 EVANS,J.A.
RESC	59	7	880700	1241 FREIRE,R.C.S.
JONE	30	2	891100	91 REGEHR,W.G.
MESC	1	11	901100	1254 GUENA,J.
EEU	2	2	911200	40 GIFFARD,T.
MOEL	6	1	890100	18 AXELSON,J.
AMJO	47	5	790500	426 EVERETT,G.E.
NIMA	279	1	890701	169 BACCI,C.
INJO	68	5	900500	793 LIU,S.-I.
ANCH	51	13	791100	2300 TYMA,P.D.
NIMA	315	1	920501	404 CENTRO,S.
ELDE	40	1	920109	129 SALVATI,M.J.
NIMA	239	3	850915	497 BASILE,M.
ELDE	37	13	890622	77 MOORE,S.
M172	38	4	910400	706 PODLESACK,T.F.
RESC	57	10	861000	2415 LABOMBARD,L.
ANCH	58	7	860600	1583 CALDWELL,K.D.
AUAM	19	1	880200	48 BORBELY,E.
RESC	62	10	911000	2326 JI,H.
ELLE	27	22	911024	2045 OGAWA,S.
ITIM	41	5	921000	679 ARONHIME,P.
ITBE	35	8	880800	595 ANNOVAZZI-LODI,V.
ELLE	24	16	880804	1024 VAN DEN BRINK,R.F.
EWWW	97	1667	911000	812 HOOD,J.L.
ITIM	38	1	890200	17 PATRANABIS,D.
AMJO	51	10	831000	954 FEIGE,E.
EDN	32	24	871126	219 MOORE,S.
EDN	35	21	901011	235 LAKSHMINARAYANAN,V
EDN	33	19	880915	235 MILLAR,J.

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ITIM	30	2	810600	155 CIRANT,S.
RFDE	16	2	930200	64 ZBOROWSKI,R.
AMJO	60	7	920700	666 IVES,R.
ELEN	58	713	860500	53 OXNER,E.
HARA	21	3	880300	11 OXNER,E.
CICE	0	32	930300	14 PILGRIM,P.C.
RAEL	63	1	920100	75 GROSSBLATT,R.
ELWI	90	1580	840500	37 ADAMS,J.H.
HARA	15	1	820100	66 NOBLE,F.W.
EEU	2	9	920700	76
APSP	42	5	880700	891 PACE,C.F.
CLEN	12	5	870900	379 KITAEVICH,Y.
CQ	43	6	870600	20 INGRAM,D.
PE	7	5	900500	22 WELS,B.G.
AUAM	17	2	860500	41 GALO,G.A.
MIRF	28	9	890900	103 STEFFES,M.
EEU	2	8	920600	18 HERRMANN,W.
AMJO	44	8	760800	787 TOTH,M.J.
ITIM	30	2	810600	162 SUNDARAMURTHY,M.
ANCH	53	9	810800	1442 VOIGTMAN,E.
ANCH	54	11	820900	1834 VOIGTMAN,E.
EEU	2	9	920700	51 RUITERS,J.
7ART	0	388	930100	16 REDMAN,L.W.
NIMA	317	3	920715	567 PANESCU,D.
ITIM	39	4	900800	594 KARYBAKAS,C.A.
M147	0	25	900500	22 BERGMAN,P.
ELDE	39	18	910926	125 WONG,J.
SCPR	2	4	921100	45 MIMS,F.M.,III
M014	21	4	900700	21 KUMAR,U.
RFDE	4	5	810900	12 BROUNLEY,R.W.
REW	0	0	830300	46
AMJO	52	10	841000	890 BRANDAN,M.E.
BYTE	12	6	870600	161 HUNKLER,T.G.
ELDE	38	21	901108	125 PEASE,R.A.
NIMA	305	1	910710	192 BELLOTTI,R.
ELLE	27	21	911010	1933 WEBB,J.A.C.
POEL	12	5	771100	67 GARNER,L.
INCO	9	1	910100	29 PEREZ,T.
RESC	56	6	850600	1265 BACH,H.G.
ELWI	93	1617	870700	721 CLARKE,D.E.A.
NIMA	271	3	880900	497 BAY,A.
INJO	60	2	860200	281 SURAKAMPONTORN,W.
ELDE	37	6	890323	80 MOORE,B.D.
PE	6	3	890300	39
AUAM	16	1	850100	17 POEHLAND,B.L.
INJO	69	4	901000	539 KOUTZAROV,S.I.
RESC	62	5	910500	1311 CONFRANCESCO,P.
HAEL	2	3	850300	81 HUBIN,W.N.
EDN	36	10	910509	79 PRYCE,D.

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JOPH	19	3	860300	170 DRAKE,A.F.
RAEL	53	3	820300	50 DUNN,C.M.
ANCH	60	7	880401	662 WEIMER,W.A.
INJO	66	6	890600	913 SURAKAMPONTORN,W.
NATE	10	5	860900	43 CLUKEY,R.W.
AMJO	51	1	830100	19 CURD,S.E.
ELEC	49	19	760916	103 KITAI,A.H.
MEBI	19	6	811100	749 ROY,G.
RAEL	58	11	871100	122
HARA	22	3	890300	81 MOORE,M.
HARA	22	6	890600	10 BEERS,Y.
ELDE	37	11	890525	61 STOLITZKA,D.
ANCH	61	21	891101	2410 HAIL,M.E.
ELDE	26	20	780927	98 BOZOIAN,M.
LAMI	3	3	840300	73 ELLIS-DAVIES,G.
73AM	0	339	881200	20 ROEHRIG,B.
POEL	11	5	770500	76 GARNER,L.C.
SCEL	21	3	810500	67 FRIEDMAN,H.
RAEL	57	9	860900	44 RINGENBERGER,M.
ETI	7	10	831000	74 MEYER,B.S.Y.
ETI	7	8	830800	70 GURANT,G.
JOMA	52	2	830400	313 DYKSTRA,R.W.
SPCO	16	3	860300	0
RAEL	61	1	900100	35 TEMPLIN,T.T.
RAEL	61	1	900100	43 VAUGHT,M.A.
RESC	61	9	900900	2452 CHRISTMAN,S.B.
M108	21	8	820800	63 BEASLEY,A.S.
ELDE	41	8	930415	93 SALVATI,M.J.
MEBI	20	2	820300	248 LEVKOV,C.L.
73AM	0	331	880400	60 BRYCE,M.
PE	6	2	890200	39
RFDE	11	8	880800	23 BURHANS,R.W.
RAEL	61	3	900300	52 MARSTON,R.
RESC	59	3	880300	438 KRISTO,M.J.
HAEL	5	6	880600	35 FRUND,D.
ANIN	18	1	890100	23 RIDGWAY,T.H.
PE	9	6	920600	58 AXELSON,J.
73AM	0	308	860500	60 BRYCE,M.
ELLE	21	11	850523	506 SURAKAMPONTORN,W.
ITBE	31	8	840800	560 LACHIVER,G.
ELDE	36	12	880526	133 PULLEN,K.A.,JR.
NUIN	178	0	801200	27 DIDDENS,J.V.
AGEN	58	8	770800	29 AUSTIN,R.S.
ELNO	63	7	920700	88 GROSSBLATT,R.
ELCI	135	3	880600	104 KHAN,I.A.
ELEN	58	715	860700	34 BATTAIOTTO,R.
EDN	32	25	871210	332 EICHENBERG,D.
RESC	49	9	780800	1160 KONO,M.
RESC	60	11	891100	3425 BRUGE,F.

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NIM	192	0	820100	359 BRAHY,D.
ITPE	6	1	910100	55 HULIEHEL,F.
QST	62	5	780500	16 DEMAW,D.
HAEL	4	1	870100	101 SWEENEY,D.
QST	62	7	780700	23 DEMAW,D.
JOMA	52	1	830300	42 BLUMICH,B.
EDN	27	19	820929	154 STEFENEL,R.
COEL	21	2	830200	76 BARBARELLO,J.
CQ	38	12	821200	26 SCHULTZ,J.J.
ELNO	64	11	931100	68 MARSTON,R.
EDN	29	7	840405	199 SCHUTZ,R.
EDN	35	23	901108	292 MERESSE,T.
HAEL	2	1	840100	74 FRIEDMAN,H.
EWWW	99	1683	930200	130 PEASE,R.
QST	68	7	840700	30 DEMAW,D.
NIMA	253	2	870101	189 BETTINI,A.
RESC	55	2	840200	222 HORENSTEIN,M.N.
HAEL	3	1	860100	45 PLAVCAN,A.
QST	65	8	810800	18 HAYWARD,R.
AMJO	56	4	880400	348 D'ANCI,A.M.
M174	27	3	920300	164 ROUSSY,G.
POEL	20	8	820800	52 CARISTI,A.
RFDE	11	10	881000	61 MORGAN,H.L.
PE	9	9	920900	53 HEAD,R.
RAEL	54	6	830600	83 BURHANS,R.W.
POEL	17	1	800100	77 MIMS,F.M.
AMJO	49	5	810500	508 MUOY,Y.H.
QST	69	5	850500	14 REED,J.C.
ELEC	50	20	770929	103 WINGATE,D.
PHED	19	6	841100	292 WYNN,V.T.
MOEL	5	6	880600	40 FOX,T.R.
QST	67	5	830500	19 REED,J.
QST	69	7	850700	22 DEMAW,D.
CQ	39	6	830600	13 DEFRANCESCO,S.J
EDN	28	8	830414	135 HILLMAN,A.
LAPR	31	2	820200	131 FYNN,G.H.
POEL	10	2	760800	50 SQUIRES,J.
QST	68	5	840500	26 DEMAW,D.
ELDE	24	2	760119	82 RAO,M.V.S.
ELTO	9	8	850800	41 MULVEY,P.
ITCS	34	10	871000	1161 COMER,D.J.
RFDE	11	2	880200	77 KOREN,V.
EDN	34	16	890803	127 PEASE,R.A.
7ART	0	381	920600	62 BRYCE,M.
COEL	21	3	830300	111 MIMS,F.M.
M047	2	4	880700	68 PETERS,R.D.
PE	8	12	911200	62 HOLLANDER,D.
ELDE	31	8	830414	168 PERSH,R.
HARA	22	8	890800	30 OWENS,J.

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EDN	31	2	860123	141 MCELLOWNEY,J.
MESC	2	10	911000	934 CANNISTRARO,S.
73AM	0	263	820800	52 JOHNSON,N.
M022	67	8	910800	32 DOBBS,G.
CQ	38	10	821000	82 THURBER,K.T.,JR.
RAEL	55	12	841200	78 SAVAGE,E.
M080	26	271	890700	40 SATO,S.
AUDI	70	1	860100	66 DUFRESNE,D.
RAEL	55	7	840700	14
ELDE	40	8	920416	75 GRAEME,J.
NIMA	281	1	890820	117 BAZIN,D.
MEBI	24	2	860300	182 HEEMELS,J.P.
EDN	27	10	920507	177 GRAEME,J.
AMJO	50	2	820200	108 RAFERT,B.
7ART	0	382	920700	78 BRYCE,M.
RESC	60	11	891100	3549 PINKERTON,J.E.
EDN	35	4	900215	190 KORMANYOS,B.
JOPH	13	1	800100	92 DAVIDSON,G.P.
ELDE	33	4	850221	111 BEEDIE,M.
PHTE	22	5	840500	291 DE JONG,M.L.
ELDE	27	4	790215	72 WEINER,R.J.
73AM	0	281	840200	22 ELLIS,D.N.
PHTE	22	4	840400	213 RAFERT,J.B.
EWWW	95	1646	891200	1164 HOOD,J.L.
JOPH	18	11	851100	947 CIMMINO,A.
CICE	1	5	880900	16 VOORHEES,M.
RESC	60	12	891200	3824 RETTNER,C.T.
PHED	27	1	920100	27 JENKINS,T.E.
AJP	245	1	830700	178 KIEL,J.W.
QST	67	8	830800	49 SIMPSON,R.
CQ	40	7	840700	49 INGRAM,D.
ELWI	94	1623	880100	65 JOVAN,L.
ETT	14	1	900100	12 FLIND,A.
73AM	0	362	901100	24 BECK,M.
EDN	36	22	911024	174 STOCHINO,G.
ELDE	28	15	800719	194 FARNSLEY,L.
NIMA	221	3	840415	503 BROWN,J.S.
EDN	33	18	880901	203 BURT,R.
NIMA	245	2	860501	262 MACARTHUR,D.W.
JOAU	32	1	840100	2 CORDELL,R.R.
ITNS	35	1	880200	392 DE VRIES,J.
INJO	64	3	880300	395 KHALILI,D.
EDN	28	7	830331	220 KRYKA,T.R.
NIMA	292	2	900701	343 BONNET,L.
JOPH	20	2	870200	231 VORA,H.S.
NIMA	272	1	881000	227 HORNKOHL,J.O.
NIMA	299	1	901220	610 MALLION,S.N.
MIRF	23	3	840300	165 LUETTGENAU,G.G.
EDN	32	18	870903	213 GRAEME,J.G.

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RFDE	7	7	841100	21 MEIER,B.
EDN	28	12	830609	61 MCDERMOTT,J.
M063	1	4	850700	14 NOMICOS,C.D.
73AM	0	341	890200	28 BOUCHER,M.A.
NIMA	227	2	841115	283 COOPS,P.
COEL	21	7	830700	67 LASHER,R.S.
PE	9	2	920200	37 YACONO,J.
ITNS	32	5	851000	3763 MERZ,W.
MISY	4	10	831000	106 KIBLER,B.
ELDE	34	29	861211	91 SMITH,G.
MIRF	23	3	840300	153 PERKINS,F.H.,JR
EWWW	96	1647	900100	77
BYTE	9	1	840100	37 CIARCIA,S.
PE	7	6	900600	38 GIAMPORTONE,M.
IEEA	134	7	870700	577 WHEELER,C.B.
CQ	40	6	840600	40 MCCOY,L.
CQ	39	1	830100	20 SCHULTZ,J.J.
ELEN	60	741	880900	34 NORMAN,N.
ELDE	38	4	900222	127 SOMERVILLE,T.
RESC	56	6	850600	1269 KORTBEEK,P.J.
NIMA	277	1	890415	176 DWURAZNY,A.
PHTE	27	8	891100	630 CRANE,H.R.
EWWW	97	1670	920100	40 HICKMAN,I.
ITCE	30	3	840800	251 INOUE,S.
ELDE	32	20	841004	195 SEVASTOPOULOS,N
INJO	70	1	910100	85 LIANG,Y.C.
ITIA	28	2	920300	395 LETOR,R.
EDN	36	22	911024	135 WILLIAMS,J.
ANIN	15	2	860200	101 RAMALEY,L.
EDN	32	10	870514	207 GAUEN,K.
EDN	31	13	860626	71 CORMIER,D.
ELDE	40	6	920319	77 WILLIAMS,J.
EDN	30	21	850919	242 FARRAR,D.
EDN	31	12	860612	203 WILLIAMS,J.
EDN	34	21	891012	191 BERRINGER,K.
M016	23	7	840401	1009 BRADNER,H.
RESC	59	7	880700	1226 KRAUS,R.
AMJO	53	11	851100	1108 LARSON,L.E.
POEL	20	4	820400	20 FELDMAN,L.
NIMA	309	3	911115	536 KLEIN,S.R.
ITIM	35	3	860900	354 LUE,J.T.
MIMI	2	4	780800	212 FIELD-RICHARDS,H.S
HARA	19	11	861100	73 ORR,B.
HARA	20	2	870200	43 ORR,B.
ELEC	53	3	800131	108 CHAWDHURY,F.B.
ELEC	48	18	750904	106 MALARKEY,T.
ELMA	19	6	911100	713 TORREY,D.A.
ETI	7	5	830500	54 ORR,T.
RESC	58	7	870700	1245 DOWELL,L.J.

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NUIN	147	0	771100	477	NOWOTNY,R.
73AM	0	362	901100	26	ALLEN,M.D.
EDN	32	9	870430	189	KENDALL,T.
RAEL	61	9	900900	10	DOLAN,A.
EDN	31	22	861030	173	FUCHS,P.M.
M043	9	9	900400	72	WEIDE,D.H.
RAEL	53	5	820500	84	FRIEDMAN,H.
ANCH	58	14	861200	3108	CARNEY,K.P.
PHTE	18	1	800100	64	LIGHTFOOT,B.N.
RAEL	56	11	851100	64	GIFFORD,J.D.
CQ	47	11	911100	20	HOOVER,P.
CQ	39	11	831100	20	HENRY,B.
CICE	0	21	910600	54	CIARCIA,S.
RAEL	49	11	781100	87	MEYER,M.
ELEN	61	754	891000	33	HYDES,C.N.
M064	1	2	790400	125	CRAWFORD,A.J.
POEL	18	3	800900	68	NEVES,J.
RAEL	58	9	870900	64	MARSTON,R.
ELWI	93	1616	870600	606	LANGTON,C.H.
MEBI	20	5	820900	653	BRAMANTI,M.
80M2	0	39	830400	262	HART,B.
ELEN	57	703	850700	34	BOGDANOV,I.
RESC	63	3	920300	1978	VAN BLOKLAND,A.A.E
M064	11	2	890300	103	BASARAB-HORWATH,I.
M020	29	1	890100	55	KISELEV,Y.F.
ETI	7	7	830700	29	MARKWICK,B.
ELLE	25	1	890105	83	PARK,M.-S.
M064	12	6	901100	519	BARBENEL,J.C.
EDN	28	10	830512	217	SHERWIN,J.
RAEL	62	6	910600	31	ROBIDOUX,G.
JEPT	14	1	870100	1	ELHARRAR,V.
QST	72	6	880600	31	NELSON,R.
M094	7	2	880200	1	VAN ALSTINE,F.
M022	67	8	910800	4	BIN HAJI LATIB,M.
GLAU	3	2	910200	12	PAPROCKI,H.
ITIM	38	3	890600	740	AWAD,S.S.
MIMI	14	8	901000	543	ZALES,S.
BYTE	9	2	840200	343	BLAGG,J.D.
ITNS	33	1	860200	98	OHSKA,T.K.
M120	10	8	890800	61	MCCLEAN,D.
RESC	53	7	820700	1086	SHOEMAKER,J.O.
M139	1	2	880200	93	URABE,H.
ANCH	52	14	801200	2396	BRUCKENSTEIN,S.
ELEN	61	755	891100	79	
BYTE	8	9	830900	419	FERGUSON,J.D.
ELDE	37	17	890810	74	WILCHER,D.
ELDE	34	12	860529	159	RANDALL,M.
CLEN	14	5	890900	395	FERRIS,C.D.
QST	62	6	780600	30	MELEG,A.,JR.

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PHED	18	3	830500	128 BATES,P.A.
ELCI	135	1	880200	29 ABUELMA'ATTI,M.T.
ELWI	90	1577	840200	32 BARCZAC,C.L.
NIM	215	1	830915	113 VAN DRIEL,M.A.
ELWI	91	1591	850500	55 HARDY,G.A.C.
EDN	31	12	860612	84 TRAVIS,B.
NUIN	147	0	771100	305 ALESSI,J.G.
RAEL	59	4	880400	98 STARK,P.A.
ITBE	30	3	830300	186 OLSON,R.E.
RESC	55	7	840700	1058 FEASTER,G.R.
BYTE	6	5	810500	390 CIARCIA,S.
EDN	29	7	840405	26 WHITESELL,E.
NIMA	271	3	880900	636 LIGHTFOOT,J.A.
LAPR	36	6	870600	84 BUCHAN,P.B.
EDN	36	4	910218	188 BAXTER,L.K.
ELTO	10	9	860900	35 HOWIE,R.
ELEC	49	1	760108	108 STANKO,J.A.
EDN	30	25	851114	247 SPURRIER,J.H.
EDN	35	22	901025	215 VANDIVER,J.C.
BYTE	11	10	861000	84 WILLIAMS,G.
POEL	15	4	790400	93 MIMS,F.M.
ELEC	50	18	770901	108 STARR,R.F.
HAEL	3	3	860500	72 PORTER,J.
PHED	23	1	880100	42 BISHOP,R.
M020	30	6	900600	538 VELICHKOV,I.V.
AGME	18	0	770000	49 BISCOE,P.V.
IEEB	138	1	910100	28 BINNS,K.J.
ITIE	38	1	910200	62 AHMAD,W.
ELEN	64	781	920100	28 MILES,I.
7ART	0	394	930700	34 ERDMAN,A.C.
MEBI	19	2	810300	230 WOOD,J.W.
NIM	214	2	830901	401 MADEY,R.
ELWI	94	1625	880300	282 ABUELMA'ATTI,M.T.
7ART	0	369	910600	10 GASPERI,M.
ELLE	21	18	850829	791 FILANOVSKY,I.M.
M073	14	2	880500	4 BHAMA,S.
RESC	51	12	801200	1623 BRENOT,J.C.
ELDE	38	18	900927	67 HANDY,J.
REW	0	0	831200	44 MARSTON,R.
JEPT	12	2	850200	81 BROWN,P.B.
AMJO	54	10	861000	953 PRIEST,J.
EDN	29	17	840823	167 YANG,J.P.
M076	8	3	880600	10 KARDACH,J.
PHTE	26	8	881100	530 CONNOLLY,W.
ETT	13	2	890200	9 RIMMER,S.
INJO	61	1	860700	85 LIM,Y.C.
BYTE	13	13	881200	38 MARSHALL,T.
M038	241	1	790700	152 WALKER,J.
SCPR	2	4	921100	123 MIMS,F.M.,III

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RAEL	57	4	860400	22	PETROSKI,M.
M030	29	9	840900	1147	MAXTED,K.J.
RAEL	60	7	890700	38	LASHANSKY,M.
PE	10	9	930900	72	YACONO,J.J.
QST	68	4	840400	31	DAVIES,T.K.
JOPH	20	4	870400	388	LAU,S.L.
QST	70	8	860800	64	
INJO	69	3	900900	393	ALOLAH,A.I.
RESC	50	1	790100	41	SUKEGAWA,T.
ELTO	10	9	860900	33	GLOVER,A.
ELTO	8	6	840600	39	
MEBI	25	1	870100	77	MCLEOD,K.J.
73AM	0	326	871100	34	NALLY,J.K.
RAEL	56	11	851100	84	GROSSBLATT,R.
HARA	14	7	810700	48	TORRES,A.
HAEL	5	9	880900	35	PENNER,J.
TRIN	10	2	880400	98	HUANG,S.M.
PE	8	2	910200	82	RAKES,C.D.
RAEL	58	11	871100	73	MIMS,F.M.,III
ELWI	92	1605	860700	54	UNSTEAD,P.B.
TRAS	30	1	870100	249	DELWICHE,M.J.
JOPH	17	8	840800	683	HAYWARD,D.
RESC	63	10	921000	4271	RUKMANI,K.
JEPT	11	2	840200	79	AMTHOR,F.R.
RESC	51	3	800300	306	VILLENEUVE,D.M.
ANIN	20	4	920400	257	EVANS,N.E.
ELLE	22	7	860327	349	WHITEHEAD,N.W.M
NIM	187	0	810800	347	MCSHURLEY,D.G.
7ART	0	373	911000	28	BEDNAR,J.
RAEL	63	2	920200	33	SCHMIDT,L.W.
EDN	29	18	840906	150	RAPPAPORT,A.
BYTE	13	13	881200	327	CIARCIA,S.
73AM	0	349	891000	50	GUSTAFSON,E.
ANCH	50	13	781100	1930	WILLEY,J.F.
INJO	55	6	831200	881	RATHORE,T.S.
BYTE	8	7	830700	460	WHEELER,L.
EDN	37	13	920618	148	LAMM,R.
ELTO	10	8	860800	49	TOOLEY,M.
MIAP	11	3	880700	253	TAN,B.T.G.
CEA	3	4	890400	335	LEONARD,J.J.
ELTO	9	9	850900	19	ARMSTRONG,A.
EDN	31	9	860501	223	BANFALVI,S.S.
MOEL	7	11	900900	39	SWARTZENDRUBER,M.
ELEN	56	694	841000	38	BAXENDALE,J.
BYTE	9	2	840200	30	WILLIAMS,G.
ELTE	13	1	900100	46	MCCOMAS,G.M.
ELDE	40	25	921203	32	FLETCHER,P.
NIMA	268	1	880510	75	SNIDER,F.
ELMU	3	11	871100	94	HENRY,T.

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NUIN	179	0	810100	353 BARBARINO,G.C.
ANIN	13	1	840100	89 THOMPSEN,J.C.
M028	154	6	840900	635 SLAMA,K.
IJEE	27	4	901000	369 BABU,T.K.M.
ELEC	53	11	800508	155 GRANDBOIS,G.
EEU	2	2	911200	64
RESC	63	12	921200	5726 QVARFORD,M.
ELWI	95	1643	890900	854
ELEC	50	26	771222	78 DANCE,J.B.
ELWI	92	1606	860800	50
MEBI	24	3	860500	281 FORSTER,I.C.
COCR	2	9	920900	65 DESPOSITO,J.
TOEL	0	8	860400	3
QST	69	8	850800	21 DEMAW,D.
ELLE	25	6	890316	379 KI,W.-H.
NIMA	227	1	841101	29 BORER,K.
EDN	37	6	920316	131 NAPIER,T.
MEBI	20	1	820100	77 GIELEN,F.L.H.
APSP	34	2	800300	226 TESSIER,A.
NUIN	140	0	770100	391 MITCHELL,I.V.
ELDE	28	6	800315	251 GIBBLE,D.R.
AUAM	24	1	930300	37 GARCIA,F.
ELEN	61	750	890600	43 ALLEN,C.
ITIM	34	4	851200	635 KHAN,A.A.
ELWI	93	1602	860400	20 WALTERS,L.C.
ELEC	50	2	770120	112 THOMAS,M.V.
EDN	32	9	870430	103 HAROLD,P.
JOPH	20	7	870700	861 MUNOZ,V.
RAEL	59	3	880300	71 LANCASTER,D.
RAEL	59	9	880900	41 MCCLELLAN,G.
RAEL	61	4	900400	43 KOHL,D.A.
WW	89	1569	830600	68 DE RUYTER,W.B.
QST	66	5	820500	32 COLLINS,G.
ITBE	33	11	861100	1029 QU,M.
INJO	55	4	831000	625 EMURA,M.
NIMA	220	2	840301	445 GATTI,E.
QST	61	5	770500	11 DEMAW,D.
MEIN	17	1	830100	75 HARRIS,G.F.
SCPR	2	4	921100	95 CARR,J.J.
MOEL	5	12	881200	64 HELMS,H.L.
73AM	0	345	890600	50 POPOVICH,T.
RAEL	60	5	890500	35 TOUSIGNANT,D.
PE	8	10	911000	75 SPIWAK,M.
ELDI	7	1	860000	67 WALKER,P.
EDN	30	23	851017	49 TEJA,E.
ELEC	55	13	820630	119 GRAEME,J.
EDN	34	19	890914	59 PRYCE,D.
M031	1	1	860600	10 ZACHARIADIS,D.
ETT	16	3	910400	33

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COCR	1	4	910700	82 DESPOSITO,J.
ELDE	30	13	820624	161 JENSEN,B.H.
AMJO	57	5	890500	475 BEARD,L.N.
QEX	0	51	860500	11 PICKENS,A.
EDN	32	17	870820	63 PRYCE,D.
ITIE	34	4	871100	463 MANIAS,S.
QST	66	11	821100	14 SUTHERLAND,R.I.
NUIN	174	0	800800	291 AOYAMA,T.
RAEL	58	2	870200	43 COFFELL,J.
ITCS	22	7	750700	587 BRUMINHENT,S.
CICE	0	13	900200	60 BACHIOCHI,J.
EEU	2	4	920200	62 RUFFELL,J.
-.]	62	4	910400	909 MA,C.
EWWW	97	1665	910800	685
QST	70	2	860200	15 SOMMER,R.C.
JEPT	10	4	830400	179 HENRY,J.L.
ELDE	31	12	830609	183 HOLLAND,B.
HAEL	4	4	870400	92 WELS,B.G.
M160	48	2	800200	370 STENGEL,P.W.
EWWW	97	1675	920600	458 LINDSAY,G.
ELEN	58	719	861100	34 BALL,J.R.
RESC	62	12	911200	3100 BORAGNO,C.
CQ	48	8	920800	26 MCCOY,L.
M064	3	3	810700	206 SALMONS,S.
NIM	192	0	820100	223 BARTALUCCI,S.
MEBI	23	6	851100	601 WILLIAMS,G.F.
TRAS	33	3	900500	955 ZAPP,H.R.
CQ	48	9	920900	46 BATTISHILL,D.
ELEN	55	677	830500	35 STOCCHINO,G.
M010	5	3	870500	22
ITED	28	2	850500	76 STEADMAN,J.W.
ELEC	56	13	830630	153 BARNETT,T.G.
ELDE	30	20	820930	174 DWYER,R.A.
RFDE	10	5	870500	27 LOGAN,M.
CLEN	9	1	840100	13 PETROFSKY,J.S.
ANCH	54	13	821100	2356 ROBINSON,R.S.
ANCH	54	9	820800	1583 LUCH,J.R.
CEA	5	2	901000	167 THOMSON,S.J.
RESC	48	9	770900	1202 SHARROCK,M.
RESC	58	8	870800	1343 BLACKFORD,B.L.
AUAM	15	3	840700	30 CRAWFORD,R.D.
NIMA	305	2	910720	320 ALMEHED,S.
EDN	28	6	830317	211 OXAAL,J.
CEA	3	2	881100	109 THOMAS,D.L.
CICE	0	25	920200	46 DAVIDSON,K.
RESC	63	8	920800	4006 SOUMURA,T.
ITIM	31	4	821200	255 ADACHI,F.
TALA	39	3	920300	319 CURRAN,D.J.
POEL	18	4	801000	86 MIMS,F.M.

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JOPH	13	4	800400	376 NELSON,R.N.
RESC	50	2	790200	263 PHILLIPS,T.E.
ELDE	30	12	820610	177 COUNTS,L.
ITIM	39	4	900800	588 VYROUBAL,D.
ELEN	62	763	900700	43 GABLE,M.
MECO	20	1	860200	249
MECO	23	1	890200	214
MECO	21	1	870200	220
JOEX	65	3	761200	699 SCHEIN,S.J.
JOAU	36	7	880700	552 BIRT,D.
EDN	31	20	861002	163 TRAVIS,B.
RESC	51	6	800600	710 MUNGER,G.
EWWW	97	1673	920400	281 PHILIPS,A.
RAEL	56	11	851100	67 PASK,T.
ELEC	56	18	830908	124 JAGTAP,V.
QST	61	8	770800	19 KRAMER,R.F.
PE	10	1	930100	31 BLECHMAN,F.
ELEN	63	774	910600	33 VD VEEKE,A.A.
M064	10	5	881000	467 COOPER,J.P.
M137	10	6	891100	32 HILLMAN,P.E.
73AM	0	345	890600	20 AULD,B.
NIMA	241	1	851115	52 BOLTON,R.D.
RESC	64	2	930200	314 SINGH,B.
ELWI	93	1618	870800	803 FAHME,K.
JOAU	34	10	861000	804 TALBOT,D.B.
M022	63	5	870500	24 MILKOV,J.
TRAS	28	6	851100	1852 KANO,Y.
EEU	1	11	910900	29 ZANTIS,F.P.
M016	25	18	860915	3207 SCHELLENBERG,F.
ITIM	30	1	810300	3 SHARMA,A.B.
ETI	7	2	830200	52
RAEL	57	5	860500	51 MCLELLAN,G.
ITPE	6	3	910700	476 MAKSIMOVIC,D.
TRAS	30	1	870100	94 HINKLE,S.E.
M026	203	1	871201	1 OPEKAR,F.
JOAU	35	1	870100	31 SKRITEK,P.
JOCH	66	4	890400	329 MATSUO,T.
TRAS	32	4	890700	1477 COOPER,S.C.
JOEX	65	2	761000	309 TAYLOR,A.C.
INJO	54	1	830100	179 KARYBAKAS,C.A.
ELEC	53	12	800522	139 TOCCI,C.S.
JOPH	17	3	840300	189 FERGUSON,A.I.
COCH	15	4	910400	313 XIONG,X.
RESC	49	12	781200	1719 SUROWIAK,Z.
IEEB	138	1	910100	1 TORREY,D.A.
RESC	58	4	870400	674 HANKINS,T.H.
RESC	54	4	820400	491 WRONKA,J.
ITNS	31	1	840200	451 KUMAHARA,T.
JOPH	17	1	840100	49 HICKS,T.R.

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MESC	2	9	910900	856 THIEBAUT, J.-M.
M087	32	1	900200	67 HAUSER, J.P.
ELPR	29	2	860616	39 CROSBY, B.C.
BYTE	5	3	800300	6 HELMERS, C.
ELWI	93	1607	861000	65 ROBINS, J.
JONE	18	4	861200	361 CHANG, C.
NIMA	263	2	880115	325 BONESINI, M.
REW	0	0	831200	69
REEP	12	2	810400	114 WINER, E.
AUAM	19	4	881000	29 BODMER, R.C.
NIMA	286	1	900101	128 BORER, K.
AUAM	21	2	900400	18 WILLIAMSON, R.
AMJO	56	7	880700	665 BAFFA, O.
IJEE	27	3	900700	226 OGUCHI, K.
EEU	1	12	911000	28 RUFFELL, J.
RAEL	60	4	890400	53 WORLEY, M.C.
AUAM	15	4	840900	7 BONGIORNO, J.
EEU	2	1	911100	46 BISHOP, O.
EDN	37	9	920423	174 SCHUPAK, L.
AMJO	55	4	870400	316 MELLO, T.M.
HAEL	5	1	880100	79
RESC	64	5	930500	1342 HURST, S.M.
AMJO	55	7	870700	664 FLORES-MALDONADO, J
ITNS	33	1	860200	226 YOSHIDA, R.
RESC	56	2	850200	307 RHIM, W.K.
M095	8	1	800100	81 SOLIMAN, A.M.
HAEL	5	1	880100	58 AXELSON, J.
M098	0	7	890200	8 WRIGHT, J.R.
RAEL	57	1	860100	99 SCOTT, R.F.
ELDE	30	2	820121	34 BURSKY, D.
ELDE	39	22	911121	140 SCHLESINGER, J.
POEL	18	6	801200	89 MIMS, F.M.
ELDE	34	19	860821	111 MONTICELLI, D.
7ART	0	375	911200	69 BRYCE, M.
ITIM	38	5	891000	1016 KIM, S.-H.
MIMI	13	10	891200	659 MIRABELLA, O.
ELDE	38	19	901011	103 PEASE, R.A.
PE	8	6	910600	39 PLILER, B.
PE	8	8	910800	56 SPIWAK, M.
EEU	2	2	911200	60 RUFFELL, J.
EWWW	99	1684	930300	188 DAUCHOT, J.-J.
INJO	58	3	850300	413 HOBSON, L.
RCM	14	8	770800	68 SPRENG, D.
AUAM	15	1	840300	35 DIDDEN, J.M.
7ART	0	380	920500	62 BRYCE, M.
BYTE	7	3	820300	50 CIARCIA, S.
BYTE	7	1	820100	408 CIARCIA, S.
HARA	22	9	890900	17 FIELDEN, J.
73AM	0	292	850100	10 REHAK, J.L.

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RAEL	58	7	870700	47 ORTMAN,R.
HAEL	5	4	880400	101 M.,B.
COCR	1	3	910600	18 GOSS,N.
M149	43	9	880900	1255 MATSUTA,H.
ELDE	39	13	910711	139 SCHENDEL,D.
EEU	1	12	911000	59
EWWW	99	1689	930800	688 HICKMAN,I.
ELEC	49	6	760318	122 WILCOX,A.D.
RFDE	12	5	890500	26
ELDE	33	9	850418	183 KMETZ,J.
ELEN	57	705	850900	25 MICHAEL,J.
RESC	60	12	891200	3822 LIN,M.Z.
AMJO	58	3	900300	278 BREGER,L.
CQ	42	3	860300	34 SCHULTZ,J.J.
EDN	28	14	830707	30 STUART,A.
MESC	1	1	900100	13 HAMILTON,T.D.S.
ETI	7	12	831200	23
ELEC	55	2	820127	125 DURGAVICH,T.
RESC	58	8	870800	1460 MARKS,J.
MEBI	26	4	880700	389 LEVKOV,C.L.
MOEL	6	3	890300	68 MIMS,F.M.,III
RESC	50	3	790300	362 POPIL,R.
PE	7	10	901000	41 FOX,T.
EDN	36	18	910902	159 BOCHEV,V.
7ART	0	387	921200	60 CALL,W.
7ART	0	398	931100	20 NEELEY,J.
ELEN	56	686	840200	23
NIMA	245	2	860501	553 SLEAFORD,B.W.
BYTE	12	10	870900	68 CIARCIA,S.
IJEE	23	1	860100	65 HOBSON,L.
MOEL	7	4	900400	58 VIESCA,F.G.
RAEL	55	7	840700	54 CARR,J.J.
ELDE	36	21	880922	117 DUNNION,D.
ITIM	38	4	890800	913 ANDERSON,W.L.
M115	22	8	891000	233 HENCKE,H.
ELNO	63	12	921200	14 BABBERT,S.
ANCH	52	13	801100	2237 SALT,A.D.
ITIE	39	3	920600	215 KREIN,P.T.
RESC	49	4	780400	510 JAMESON,D.M.
HARA	21	1	880100	83 BERTINI,P.
INJO	68	1	900100	143 NAKAOKA,M.
ITCE	33	3	870800	395 ASH,D.L.
CQ	48	2	920200	40 BUNN,P.
ELEC	50	15	770721	122 WONG,S.K.
QST	65	11	811100	83 ATKINS,B.
QEX	0	69	871100	6 DODD,P.
ITNS	35	1	880200	142 LO,C.C.
QST	69	6	850600	25 DEMAW,D.
QST	68	5	840500	45 FORD,J.

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QST	70	7	860700	34	DEMAW,D,
ELTO	10	4	860400	14	BRINDLEY,K.
CQ	42	3	860300	44	MATH,I.
7ART	0	369	910600	70	BRYCE,M.
ANCH	50	13	781100	1752	DUCHANE,D.V.
RESC	58	7	870700	1242	ABDUL-HAMEED,K.H.
POEL	14	3	780900	74	FAULKNER,R.R.
QST	66	12	821200	17	ZANDER,P.
QST	71	11	871100	18	DEMAW,D.
M129	27	3	860900	459	AGRAWAL,S.L.
AUAM	15	3	840700	14	DUFRESNE,D.
QST	70	9	860900	15	PITTENGER,J.
AUAM	15	4	840900	47	LEWIS,R.E.
RESC	53	4	820400	461	VENKATESH,P.
ITIM	34	1	850300	101	PACHECO,C.U.
QST	69	1	850100	22	DEMAW,D.
ITIE	35	1	880200	148	LEE,Y.-S.
QST	71	9	870900	42	GLAZAR,W.S.
73AM	0	271	830400	83	WILLIAMS,P.
RESC	56	9	850900	1840	BOULE,B.
RESC	54	4	830400	506	ROSENTHAL,L.A.
NIMA	242	2	860101	306	ZUCKER,M.S.
HAEL	4	7	870700	46	SCHOPP,W.
BYTE	7	1	820100	366	RHODES,N.W.
QST	70	11	861100	43	PITMAN,F.
JOPH	21	7	880700	657	EVANS,S.
ITIM	37	3	880900	434	NG,K.T.
RESC	60	3	890300	400	MCIVER,R.T.,JR.
CQ	48	3	920300	106	INGRAM,D.
CICE	0	30	921200	6	NASSAR,D.
CQ	38	10	821000	54	CLOWER,P.
ELEN	58	712	860400	34	JIN TIAN,X.
RAEL	59	4	880400	50	SHEETS,W.
QST	60	12	761200	11	PLUESS,A.
EDN	32	1	870108	157	BURT,R.
WW	88	1554	820300	74	COOPER,R.
JEPT	7	1	800600	3	LAW,B.
ELDE	37	18	890824	64	WYATT,M.A.
COCH	13	4	890400	319	CREASY,W.R.
ELSE	8	8	880800	46	CARR,J.J.
CQ	42	7	860700	82	KATZ,S.
CQ	41	1	850100	39	BURTOFT,J.
QST	70	5	860500	14	HAYWARD,W.
DIDE	12	4	820400	24	
APSP	43	2	890200	310	MICHEL,R.G.
M034	8	10	871000	46	IOVINE,J.
EWWW	98	1681	921200	999	STANLEY,T.
IJPA	27	7	890700	408	SANKAR,N.
VUD	0	0	901100	18	MCVEY,T.

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EEU	2	8	920600	24
NIMA	269	3	880620	585 SCHICKER,R.
NIMA	273	2	881215	673 ZHANG,S.N.
PHED	26	4	910700	249 LOVETT,D.
RESC	58	5	870500	864 JING,F.-S.
EDN	29	9	840503	323 JENKINS,A.
73AM	0	273	830600	26 BRIZENDINE,G.
ELEC	56	17	830825	141 MENDES,E.
NIMA	268	2	880520	525 WESTERGAARD,J.
PHTE	29	8	911100	535 SCHWARTZ,J.W.
ITNS	32	1	850200	68 KOPP,M.K.
EDN	32	19	870917	179 WONG,J.
CQ	44	6	880600	70 WEISS,A.
ELCH	266	2	890725	239 JANATA,J.
M084	1	1	880300	44 AWAI,Y.
HAEL	3	6	861100	33 BYERS,T.J.
ITPE	7	3	920700	506 MARSCHKE,K.W.
ELDE	37	4	890223	90 LAKSHMINARAYANAN,V
INJO	60	4	860400	431 HOBSON,L.
ITPE	3	3	880700	303 AKAGI,H.
MIAP	10	1	870100	55 SALAWU,R.I.
BYTE	8	6	830600	35 CIARCIA,S.
EWWW	99	1683	930200	166
ELEN	56	688	840400	39 WRAY,G.
ITED	33	2	900500	183 HMURCIK,L.V.
MOEL	7	5	900500	64 DESPOSITO,J.
ELDE	33	8	850404	161 WONG,T.
QST	71	3	870300	22 WARD,A.
M142	39	1	920100	32 UMEMURA,S.-I.
JONE	7	1	830100	43 SASAKI,K.
EDN	30	26	851128	282 LOCKWOOD,L.
EDN	36	22	911024	149 WILLIAMS,J.
ELDE	39	2	910131	61 WILLIAMS,J.
EVEL	16	1	870100	36 BISHOP,O.
ELWI	91	1597	851100	73 HART,B.L.
ELDE	33	9	850418	165 WANG,T.
ELDE	40	6	920319	51 LEONARD,M.
ELWI	93	1618	870800	806 NIMMO,G.R.
EDN	37	5	920302	139 PRICE,N.B.
ELPR	34	5	911000	49 GLASS,M.
EDN	30	1	850110	290 STOCCHINO,G.
JOPH	20	1	870100	43 SCHAUER,G.
NIM	211	1	830601	179 FEGAN,D.J.
MOEL	8	2	910200	69 DESPOSITO,J.
ITPE	6	3	910700	504 LAI,J.-S.
ELEC	50	18	770901	91 NEMEC,J.
MIRF	30	7	910700	107 SOMER,J.
IJMS	96	1	900220	17 MILLER,P.E.
OPLA	21	6	891200	401 MCCAULAY,J.

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AMJO	51	11	831100	1048 MILDEBRATH,M.
INJO	59	5	851100	603 FYATH,R.S.
RAEL	54	11	831100	104 GROSSBLATT,R.
ELLE	26	13	900621	934 SWEENEY,D.G.
EDN	20	13	840628	280 CEREIJO,M.
ITIM	32	2	830600	322 VIENNET,J.
RAEL	59	3	880300	93 RENTON,P.
M169	30	8	810800	596 HAYES,A.B.
JOPH	15	9	820900	919 PRASAD,C.R.
LAPR	31	12	821200	1174 BRITZ,T.J.
JONE	35	3	901200	195 RATZLAFF,E.H.
RESC	50	11	791100	1376 LONG,A.
RAEL	60	1	890100	69 MARSTON,R.
DIDE	11	3	810300	78 HUNG,L.Y.
JOPH	20	6	870600	600 KHAN,Y.
EDN	27	23	821124	169 RICH,A.
ELDE	33	10	850502	121 COUNTS,L.
JOPH	20	6	870600	632 ANSON,M.
ELEN	58	713	860500	48 TACCA,H.
INJO	68	4	900400	539 KARYBAKAS,C.A.
RESC	61	12	901200	3921 ULVICK,L.M.
ITIM	29	3	800600	204 CHOMIK,M.W.
POEL	19	4	810400	96 MIMS,F.M.
ELEN	58	713	860500	36 PETRIU,E.
INJO	55	2	830800	275 TAHA,S.M.R.
INJO	54	3	830300	401 VOUKALIS,D.C.
RESC	62	6	910600	1647 QUINE,R.W.
QST	68	5	840500	31 NEWLAND,P.
RAEL	56	10	851000	110 SCOTT,R.F.
ITNS	39	2	920400	283 IMPERIALE,C.
CQ	41	3	850300	13 WOLFE,I.R.
EDN	38	19	930916	121 STOCHINO,G.
RAEL	56	10	851000	102 GROSSBLATT,R.
CICE	0	23	911000	40 DUARTE,L.
NIMA	237	3	850701	493 ERWIN,A.R.
EDN	29	15	840726	24 POSSE,K.
WW	89	1569	830600	67 CHAPPEL,P.
POEL	18	2	800800	92 MIMS,F.M.
HAEL	5	7	880700	28 AMAN,P.W.
BYTE	12	13	871100	303 CIARCIA,S.
PE	9	7	920700	44 SOKOLOWSKI,S.
ELDE	40	20	921001	63 BLACKWELL,S.R.
CICE	0	30	921200	14 VATUK,S.
PE	10	3	930300	61 STEPHENS,J.
PREV	0	0	780900	8 SMITH,L.
RAEL	61	5	900500	61 MARSTON,R.
POEL	20	1	820100	76 SOLOMON,L.
MIRF	22	4	830400	83 HOMER,G.M.
RESC	56	2	850200	194 CANDY, B.H.

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EDN	28	22	831027	315 DAVIS,R.W.
MESC	2	10	911000	923 XIE,C.G.
ELMU	2	9	860900	56 DOSA,M.
ELDE	31	4	830217	154 SCHUMAN,D.T.
ELWI	91	1587	850100	76 BENDER,H.
ELWI	93	1600	860200	35 RICE,Q.
QST	61	11	771100	21 RAND,P.S.
ETI	7	10	831000	73 BEEDEN,K.J.
HARA	14	4	810400	64 PEROLO,J.
ITNS	32	5	851000	2809 KERNS,Q.
73AM	0	329	880200	63 HULBERT,N.
ETT	13	2	890200	55 FLIND,A.
HARA	23	2	900200	44 OWENS,R.
ELEN	63	778	911000	33 OLORODE,A.
EDN	38	2	930121	110 WAYMIRE,J.W.
EDN	35	15	900719	185 FEWSTER,A.
ELEN	58	709	860100	31 AGRAWAL,V.K.
ELTO	11	3	870300	16 HARDING,P.
73AM	0	336	880900	27 CEBIK,L.B.
M092	20	4	790400	353 WILKINSON,T.
EWWW	96	1651	900500	394 HUTCHINGS,H.
M143	16	4	781000	323 STIGALL,P.D.
RAEL	63	5	920500	16 KAUFMAN,C.D.
ELNO	63	11	921100	84 GROSSBLATT,R.
EDN	35	6	900315	179 EICHENBERG,D.
RESC	52	1	810100	123 ABBAS,D.C.
ANCH	63	18	910915	1933 TSENG,J.-L.
ELNO	64	3	930300	75 LANCASTER,D.
AUDI	62	2	780200	86 FELDMAN,L.
M166	188	1	900700	1 TSAO,F.H.C.
POEL	12	6	771200	60 SOKOL,D.
PE	7	12	901200	41 SPIWAK,M.
HRH	4	5	800500	47 ORR,B.
WW	89	1567	830400	52 RICE,D.H.
EWWW	99	1689	930800	643 CATTO,C.J.D.
TRAS	32	1	890100	58 TOLLNER,E.W.
BYTE	3	3	780300	46
RESC	63	9	920900	4046 SCHOLL,D.
ELDE	33	22	850919	193 HARTWIG,R.
ELEC	50	9	770428	113 KAHHAN,L.P.
ELDI	7	1	860000	4 BEDFORD,M.
HAEL	4	7	870700	38
ETT	13	6	890600	8
AMJO	48	5	800500	419 KRUGLAK,H.
RESC	51	2	800200	213 FUSEK,R.L.
MIMI	8	8	841000	424 SMITH,C.
RESC	49	11	781100	1579 WHITMORE,S.C.
HAEL	5	5	880500	84 ELLIS,M.
JOPH	13	3	800300	328 NOTTENBURG,R.

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HAEL	4	12	871200	37
ITCS	36	8	890800	1105 NAKATSUKA,K.
MEBI	20	1	820100	70 O'MARA,P.A.
ELDE	36	24	881027	129 TRESELER,M.
80M2	0	41	830600	200 MAHONEY,W.
BYTE	11	4	860400	105 BALL,S.R.
BYTE	6	10	811000	37 CIARCIA,S.
EDN	29	9	840503	297 VOLK,A.M.
80M2	0	73	860200	70 ALFORD,R.C.
M020	19	11	791100	669 CHANDRASEKARAN,S.
WW	89	1569	830600	44 BARKER,P.
BYTE	4	4	790400	20 CAMPBELL,R.
RESC	48	9	770900	1223 KNOTEK,S.
ELEC	55	25	821215	146 KATH,G.S.
POEL	11	2	770200	59 MAY,J.
ELDE	30	24	821125	161 BENTLEY,A.W.
RFDE	11	9	880900	48 DILWORTH,I.J.
HARA	21	9	880900	84 BARLOWE,M.
SKTE	63	6	820600	635 KNIGHT,J.W.
RESC	52	6	810600	922 ROSENTHAL,L.A.
MEBI	24	5	860900	499 MUSSELL,M.J.
ITNS	32	1	850200	78 TAKEUCHI,S.
73AM	0	266	821100	84 RICHARDSON,M.
ELDE	30	20	820930	151 WALKER,N.
ELTO	9	7	850700	52 DENNIS,N.
IJPA	27	9	890900	666 DE,S.K.
80M2	0	53	840600	170 ALFORD,R.C.
80M2	0	46	831100	216 ENGELHARDT,D.
68MI	6	12	841200	27 WARREN,W.E.
POEL	14	4	781000	82 MIMS,F.M.
HAEL	4	10	871000	94 WELS,B.G.
RESC	50	5	790500	645 KORDYBAN,E.
M141	9	0	830000	93 COOEY,W.A.
ELWI	89	1574	831100	60 LABIB,G.A.M.
7ART	0	379	920400	75 KLIMAS,R.
ITED	23	4	801100	196 KAZOVSKY,L.G.
CE	13	2	890200	135 YU,T.L.
ELEN	64	788	920900	27 SULLIVAN,B.
MBE	14	5	760900	585 O'CONNELL,M.J.
MIMI	17	2	930200	101 MAHAVADI,M.R.
73AM	0	340	890100	35 WONG,R.
WW	89	1567	830400	52 SELCE,M.
M160	53	6	821200	1650 DRAKE,R.E.
MOEL	8	3	910300	59 MIMS,F.M.,III
BUPR	17	2	800200	53 RYE,D.
HAEL	4	6	870600	64 CARR,J.J.
JOPH	13	2	800200	192 O'DRISCOLL,R.C.
PE	10	5	930500	73 YACONO,J.J.
POEL	12	1	770700	47 LANCASTER,D.

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80M2	0	42	830700	138 NAVARRETE,R.
ELDE	27	4	790215	94 DELAGRANGE,A.
ITIE	34	3	870800	325 CHAN,T.-F.
EDN	29	26	841227	282 CHANG,L.W.
73AM	0	334	880700	48 CEBIK,L.B.
M043	10	1	900800	48 DISTEFANO,T.
RAEL	61	11	901100	63 BYERS,T.J.
MBE	14	6	761100	599 COUSIN,A.J.
RFDE	14	1	910100	53 WYATT,K.
EWWW	97	1664	910600	513 BARKER,R.W.J.
BEBR	0	0	771100	2 SLOTA,R.
JOPH	14	10	811000	1183 TIRKEL,A.Z.
ITPE	5	2	900400	125 SANKARAN,V.A.
ITBE	38	11	911100	1157 PATZER,J.F.,II
RAEL	55	11	841100	65 OATS,F.L.
RESC	57	6	860600	1107 DYER,G.R.
NIMA	257	2	870615	447 BRIDGES,F.
JOPH	21	1	880100	54 CRANSHAW,T.E.
ELDE	40	20	921001	68 RAILESHA,M.
NIMA	317	1	920615	297 BULIAN,N.
BYTE	8	7	830700	428 HAYES,D.A.
EDN	28	11	830526	171 MAROSI,G.
HARA	21	9	880900	65 MEYER,B.L.
MIAP	10	4	871000	369 TSE,R.S.
PE	8	5	910500	25 SALAS,P.
7ART	0	375	911200	59 SUPPAPPOLA,D.
ELEC	49	24	761125	115 BEERBAUM,R.H.
CQ	39	7	830700	40 FAIT,D.C.
RESC	49	3	780300	329 RICHARDSON,W.F.
ELTO	10	10	861000	28 DAY,S.
EDN	36	7	910328	151 SOUSA,J.L.
ELEC	49	24	761125	130 MARTIN,G.W.
80M2	0	56	840900	102 ALFORD,R.C.
BYTE	9	3	840300	400 WOODHULL,A.S.
EVEL	16	1	870100	8 BECKER,J.M.H.
AMJO	52	7	840700	664 DONNELLY,D.P.
RAEL	56	10	851000	53 MARTIN,V.D.
ELEN	56	694	841000	50 BROWN,D.C.
ITIM	36	1	870300	134 DAS GUPTA,K.
ELWI	93	1618	870800	796 ABUELMA'ATTI,M.T.
HARA	15	4	820400	50 SMITH,V.W.
ELWI	92	1603	860500	28 UNSTEAD,P.B.
CODI	2	11	851100	4 LATHAM,M.W.
ELWI	90	1577	840200	40 LIDGEY,F.J.
LAPR	36	10	871000	75 WILSON,J.
ANCH	53	4	810400	740 GEARHART,H.L.
CICE	0	15	900600	49 NISLEY,E.
COCR	1	3	910600	56 BALL,S.R.
ELNO	64	2	930200	31 YOST,P.E.

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CICE	0	37	930800	38 LENIHAN,J.F.
ITCS	34	4	870400	433 AHMAD,M.O.
M088	9	11	881100	50 SAFFARI,B.
RESC	49	11	781100	1574 KORDYBAN,E.
ELEC	55	3	820210	164 KRAMER,D.J.
AMJO	50	5	820500	470 STAHLBERG,B.
POEL	18	3	800900	102 DEZETTEL,L.
MEBI	19	2	810300	223 OUWERKERK,T.J.
RAEL	57	11	861100	10 LEWIS,R.B.
INJO	55	3	830900	339 PARIKH,P.D.
M043	7	4	871100	38 DISTEFANO,T.
RESC	63	4	920400	2152 LORUSSO,G.F.
QST	68	12	841200	29 NICHOLS,E.P.
ELTO	10	9	860900	35 HOWE,M.
AMJO	54	8	860800	759 REYNHARDT,E.C.
HARA	20	1	870100	97 BERTINI,P.J.
EDN	30	5	850307	209 GLOBIG,J.E.
ELEC	48	26	751225	86 GRAHAM,S.
EVEL	16	1	870100	26 TOOLEY,M.
PE	8	4	910400	36 YACONO,J.
CODI	1	8	841200	11 BARBARELLO,J.
ELEC	49	14	760708	92 REDMILE,B.D.
HAEL	2	3	850300	72 SCOTT,R.F.
HAEL	5	12	881200	24 WELS,B.G.
PE	6	11	891100	33 POPE,D.E.
PE	9	12	921200	59 YACONO,J.
RESC	49	2	780200	188 FINK,T.R.
RESC	59	9	880900	2101 STEINMEYER,P.A.
RESC	60	9	890900	2953 BAKER,R.C.,JR.
RAEL	61	6	900600	70 GROSSBLATT,R.
OPLA	22	2	900400	146 STAHLBERG,B.
HAEL	2	4	850400	4
POEL	13	6	780600	41 FERMOYLE,R.B.
EDN	29	23	841115	331 DRAPER,D.D.
RAEL	59	7	880700	14
RAEL	54	5	830500	61 LOXTERKAMP,E.W.
AMJO	49	11	811100	1079 DELUNAS,A.
MIRF	25	7	860700	13
EVEL	16	2	870200	101 TOOLEY,M.
RAEL	56	10	851000	46 STEPNOWSKI,S.
EDN	30	12	850530	34
RAEL	59	7	880700	14 MASLAK,R.
ETT	13	3	890300	54 CALLAND,G.
RAEL	63	3	920300	82 GROSSBLATT,R.
ITIM	31	4	821200	249 ALI,J.S.
ETI	8	2	840200	26 DANCE,J.
ELEN	55	674	830200	39 KNIGHT,D.
QST	72	11	881100	24 CALVERT,W.A.
QEX	0	46	851200	3 SMITH,W.C.

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JOPH	19	8	860800	630	TABATABAI,M.
CQ	41	6	850600	48	MEYER,J.
COCR	1	8	911100	73	MIMS,F.M.,II
RAEL	61	8	900800	12	JAMISON,P.
80M2	0	61	850200	93	ALFORD,R.C.
QEX	0	56	861000	4	KESTELOOT,A.
M158	15	6	801200	451	PARKER,R.D.
RESC	53	7	820700	989	KEMPER,P.R.
EDN	34	11	890525	198	BARNETT,T.G.
BYTE	5	4	800400	234	GOLTER,L.B.
ELDE	31	19	830915	176	TRAN,H.T.
WW	89	1568	830500	53	WOODROFFE,B.
PE	8	5	910500	74	RAKES,C.D.
73AM	0	285	840600	38	APSEY,M.
80M2	0	75	860400	78	ALFORD,R.C.
JOMA	97	3	920500	607	KEELER,J.
QST	66	11	821100	49	BROWN,D.
ITCE	37	1	910200	57	XIA,Y.
73AM	0	280	840100	96	HYDE,J.
MOEL	6	3	890300	45	BROWN,J.H.
ITMA	25	5	890900	3209	KLAASSEN,K.B.
RESC	60	12	891200	3835	HINSBERG,W.D.
CICE	0	29	921000	22	KENNER,B.
QST	67	6	830600	19	HULL,G.B.
MIMI	8	7	840900	324	CLEMENTS,A.
BYTE	6	1	810100	284	CIARCIA,S.
EDN	28	3	830203	162	HARRISON,W.R.
RAEL	54	12	831200	49	COTA,R.
ELWI	93	1615	870500	472	ADAMS,J.
MIMI	13	9	891100	569	DAVIDSON,J.
CICE	0	17	901000	67	PATEL,A.
TRIN	12	3	900300	158	FORTUNA,L.
ELEN	64	791	921100	59	RODMELL,C.
ELWI	93	1602	860400	73	WILLIAMS,G.B.
CICE	1	6	881100	20	VOORHEES,M.
JOPH	22	12	891200	994	HOWELL,S.K.
IJEE	27	3	900700	258	BOOTH,W.
CODE	28	21	891101	40	BOND,J.
JOPH	15	7	820700	705	LUE,J.-T.
RESC	56	2	850200	297	OLDHAM,P.B.
M022	68	8	920800	31	DOBBS,G.
BYTE	9	5	840500	40	CIARCIA,S.
73AM	0	291	841200	8	RUMBOLT,R.
HAEL	5	7	880700	37	
PE	6	3	890300	39	
EDN	33	16	880804	205	DEKIS,J.E.
M040	26	3	870300	1	DAVIS,E.J.
ETI	6	9	820900	26	HOLMES,R.
RESC	51	12	801200	1724	GALLEGO,J.M.

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RESC	51	10	801000	1374 MCELROY,R.G.C.
MEBI	18	0	801100	783 JONES,D.P.
ELSC	7	1	800100	137 MULLER,E.
RESC	53	7	820700	984 BUTLER,L.G.
ETI	6	8	820800	50
INJO	63	3	870900	463 SATHEESHKUMAR,M.K.
POEL	17	1	800100	39 STEIDLEY,J.
IEEA	134	10	871200	779 BALL,E.
RAEL	57	4	860400	45 GIFFORD,J.D.
JONE	26	3	890100	229 KORDAS,M.
RESC	49	9	780900	1327 SPEZESKI,J.J.
FAJO	7	5	790900	24 CONOVER,J.
QST	68	8	840800	49 SMITH,L.
NATE	0	0	870800	12 GARNER,H.D.
ELDE	40	21	921015	61 STEELE,J.
CODE	29	19	901001	40 WILSON,R.
ELTO	8	6	840600	34
INJO	62	3	870300	341 FABRE,A.
ANIN	18	3	890300	187 HAWK,R.M.
NIM	186	0	810700	549 GLOWACKI,S.W.
LAPR	29	1	800100	30 BEDFORD,J.
WW	89	1565	830200	70 KRAUS,K.
COCR	2	8	920800	42 SWARTZENDRUBER,M.
INJO	71	6	911200	1037 FILANOVSKY,I.M.
EDN	33	5	880303	168 MCCLUSKEY,J.
NIM	185	0	810600	129 MARINELLI,M.
IJMS	72	1	861015	33 ALFORD,J.M.
JOPH	15	1	820100	50 CUMMINS,H.J.
BYTE	7	12	821200	403
M163	4	2	810400	153 EL-DIN,O.A.S.
M171	4	2	791200	213 STEPHEN,R.A.
73AM	0	270	830300	32 OMAN,M.
QST	62	1	780100	33 OPENLANDER,W.R.
ITNS	33	1	860200	853 DHAWAN,S.K.
ELEC	48	23	751113	121 CHETTY,P.R.K.
ELWI	93	1617	870700	727 BURNS,D.
RAEL	60	9	890900	82 HENRY,T.
68MI	5	1	830100	20 TROLLOPE,G.A.R.
NIMA	251	3	861101	527 BOSE,S.
7ART	0	386	921100	54 WOHL,A.
EWWW	97	1671	920200	168 HICKMAN,I.
QST	61	9	770900	19 HULICK,T.P.
QST	70	9	860900	31 DEMAW,D.
ITIM	38	4	890800	876 JENSEN,M.D.
M118	51	3	860900	382 KATH,G.S.
EWWW	96	1653	900700	588 LINDSAY,G.
MADE	59	23	871008	120 HILL,S.
RAEL	63	1	920100	35 LASHANSKY,M.A.
RESC	63	7	920700	3646 RONG,Z.Y.

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RESC	63	10	921000	4333 ALDRIDGE,P.K.
ELEC	51	1	780105	176 WURZBURG,H.
RAEL	54	7	830700	63 BURHANS,R.W.
RAEL	59	2	880200	91 STARK,P.A.
HAEL	5	5	880500	25 LISLE,L.
POEL	19	6	810600	63 GORGENYI,I.
AUAM	17	2	860500	14 DALZELL,L.B.
RAEL	61	7	900700	45 RAFAELS,R.
CICE	0	18	901200	36 CIARCIA,S.
CQ	47	11	911100	56 ORR,B.
EDN	30	21	850919	177 HARVEY,B.
M149	46	6	910600	901 MONTASER,A.
REW	0	0	840900	51 WARREN,P.W.
BYTE	6	5	810500	326 HALSEMA,A.I.
RESC	59	4	880400	580 GLASS,M.W.
JOPH	13	8	800800	835 BUTTS,D.
RESC	60	7	890700	1349 HISHAM,M.W.M.
RFDE	13	11	901000	76 PAGE,R.T.
JEPT	13	4	860400	307 LOEW,E.R.
EDN	36	19	910916	200 ATKINS,D.
COEL	21	5	830500	59 BLACK,T.E.
RFDE	14	13	911200	49 BROWN,H.B.,III
REW	0	0	840200	33 IBBS,S.
ELEN	56	689	840500	87 LOWNDES,M.
RESC	54	9	830900	1138 KAHANE,A.
QST	69	1	850100	39 DESAULNIERS,T.
POEL	14	4	781000	42 COOPER,R.B.
ELTE	10	4	870400	59 HANNA,T.
NIMA	224	3	840715	421 SJOREEN,T.P.
ELDE	36	5	880303	105 ARTUSI,D.
ELDE	37	15	890713	83 WEBER,H.J.
MOEL	7	6	900600	40 BEVEL,D.H.
NIMA	291	1	900520	419 CHANG,C.-N.
CEA	4	3	900100	191 WANG,G.
EWWW	97	1664	910700	569 MAIDMENT,H.
MIMI	16	4	920400	195 MILWAY,M.J.
PE	6	5	890500	96 CARR,J.J.
RESC	55	11	841100	1862 BLACKBURN,J.A.
MIMI	14	10	901200	644 MILWAY,M.
PE	10	10	931000	72 RAKES,C.D.
ELEN	56	690	840600	34 FOXWELL,J.
RAEL	52	11	811100	47 GORIN,J.M.
ELNO	63	10	921000	47 WOLFE,S.
ELDE	36	21	880922	150 TIPPLE,K.
RESC	49	9	780900	1300 NATSUAKI,N.
IEEA	138	3	910500	145 AL-BAWY,I.
MEBI	25	1	870100	34 MOSSE,C.A.
M161	61	4	861000	1570 HILL,R.D.
ITBE	38	7	910700	710 ZHU,H.

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RAEL	54	9	830900	62 BURHANS,R.W.
ELDE	38	7	900412	86 SHERMAN,D.
RAEL	62	9	910900	40 DOBERSTEIN,D.
RESC	51	4	800400	521 RYAN,S.R.
RESC	60	9	890900	2929 FEDDERSON,B.A.
HARA	23	3	900300	56 LYSTER,C.
RESC	63	4	920400	2141 SAUNDERS,P.
JONE	19	3	870300	203 SCHOLFIELD,C.N.
ELEN	60	733	880100	26
ITCE	36	4	901100	832 NATHE,A.
EDN	36	2	910121	162 VILLANUCCI,R.S.
CICE	0	27	920600	84 CANTRELL,T.
RESC	53	5	820500	651 LANGE,P.A.
JOPH	21	12	881200	1159 CROWLE,T.B.
LAPR	29	6	800500	511 JEACOCKE,R.E.
RESC	62	11	911100	2662 FORBES,M.D.
CICE	0	29	921000	80 CANTRELL,T.
ELDE	32	4	840223	217 DEVITO,L.M.
APSP	46	5	920500	864 HUBERT,J.
AUAM	18	2	870300	56 CHALUPA,R.
M182	31	1	840200	79 DUNKERLEY,D.L.
RESC	48	2	770200	142 OGAN,K.
QST	67	7	830700	20 WITMER,J.R.
RAEL	56	9	850900	44 SCANNELL,J.A.
AUAM	15	4	840900	28 BERGSTROM,G.
EWWW	95	1644	891000	1003
EDN	35	19	900917	226 JIN-QIN,T.
COCR	2	10	921000	32 PORTUGAL,R.J.
RFDE	16	3	930300	84 KASSABIAN,G.
TRAS	21	1	780100	2 CARLTON,J.B.
RESC	52	3	810300	454 EWING,A.G.
DIDE	12	8	820800	61 KESTER,W.A.
NIMA	316	2	920601	351 BORSUK,S.
RAEL	60	2	890200	14
NIMA	320	3	920901	449 ISHII,T.
IJEE	24	4	871000	374 CARRASCO,R.
ANIN	15	3	860300	259 RAMALEY,L.
EDN	28	4	830217	225 SHERMAN,L.
EDN	36	13	910620	168 XIA,Y.
MADE	59	22	870924	121
ELWI	95	1640	890600	584 KRUGER,P.
NIMA	269	1	880601	40 ATAC,M.
7ART	0	373	911000	8 DOBBS,G.
ELEN	59	722	870200	40 LYGOURAS,J.N.
POEL	19	10	811000	91 CLARK,A.V.
SPCO	16	3	860300	0 VELDMAN,M.
CLEN	11	2	860300	121 PETROFSKY,J.S.
NIMA	219	1	840101	100 REGAN,T.
RAEL	61	4	900400	49 COVINGTON,M.A.

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RESC	48	11	771100	1436	SETHURAMAN,V.
POEL	18	1	800700	75	MORAR,D.
RAEL	60	1	890100	55	SHEETS,W.
PE	6	9	890900	72	SCHOPP,W.W.
NIMA	274	3	890115	515	WAIT,G.D.
RAEL	61	4	900400	33	ASHWORTH,L.
NIMA	313	1	920301	63	ADOLPHSEN,C.
PE	10	3	930300	78	CARR,J.J.
INJO	59	6	851200	667	ALLINSON,N.M.
EDN	30	8	850411	25	
POEL	20	6	820600	49	KIRBY,R.L.
HARA	14	5	810500	65	KRAUSS,G.
RESC	58	1	870100	45	RUDD,E.P.
M002	16	182	901000	54	GIFFARD,T.
RESC	52	4	810400	533	NARASIMHAN,P.T.
PE	8	4	910400	22	YACONO,J.J.
ITIM	37	3	880900	368	HUANG,S.
AUAM	15	1	840300	7	BORBELY,E.
JOCH	68	3	910300	254	BETTERTON,E.A.
PE	9	11	921100	43	VAUGHN,T.
NIMA	296	1	901015	619	FELDMAN,R.B.
AUAM	16	2	850300	51	PAUL,C.
EEU	2	3	920100	48	SILVESTER,D.J.
RFDE	7	1	840100	26	SANTOYO,A.S.
ITIM	38	5	891000	1004	HOBBS,P.C.D.
JEPT	12	3	850300	159	ALVAREZ,O.
M030	29	10	841000	1277	VOJNOVIC,B.
M095	16	2	880400	107	WAWRYN,K.
NATE	11	2	870200	18	VOLP,J.
RAEL	62	9	910900	33	BYLUND,D.A.
MEBI	20	4	820700	413	MOLLER,D.
ELDE	38	24	901227	61	LAKSHMINARAYANAN,V
ESD	18	6	880600	53	TABRIZI,M.
RESC	51	5	800500	647	MAK,P.S.
AUAM	15	2	840500	13	BORBELY,E.
M155	22	4	840700	388	BERNARD,R.
RESC	63	7	920700	3744	ROSSI,F.
NIMA	300	1	910101	202	HIBINO,K.
INJO	55	6	831200	851	MAHMOOD,M.K.
JOPH	13	12	801200	1275	ALTMANN,J.
MESC	2	2	910200	147	COFRANCESCO,P.
COCR	3	5	930500	10	EDWARDS,S.
RAEL	59	2	880200	98	
MOEL	5	3	880300	18	SCHOPP,W.W.
RAEL	61	8	900800	15	
ELWI	90	1581	840600	51	DE LA FUENTE,J.A.M
INJO	55	3	830900	323	MCCALL,W.L.
QST	68	9	840900	39	WADE,R.
HAEL	4	11	871100	67	DUKER,R.

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73AM	0	362	901100	67 LEAVEY,M.I.
ELEN	57	697	850100	45 TRAGANITIS,A.
QST	66	4	820400	52 RICE,J.
HAEL	5	6	880600	37
ELDE	40	1	920109	130 DUNN,J.
ELDE	39	17	910912	63 GOODENOUGH,F.
ITPD	6	1	910100	49 MORGAN,D.R.
AUAM	15	5	841000	52 ROBERTS,J.H.
ELEN	56	685	840100	32 WILLIAMSON,R.
POEL	17	5	800500	50 ROBERTS,J.H.
RESC	58	10	871000	1960 BRUSCHI,L.
ELLE	24	7	880331	428 CARVALHO,M.C.
M176	36	6	910600	26 WATLING,A.
MEBI	28	1	900100	38 LOZANO,A.
EEU	2	2	911200	54 LEMON,L.
INCI	1	5	830500	90 MAGEE,J.
RESC	55	9	840900	1448 BERKOVITZ,B.
ELTO	10	9	860900	21 BECKER,J.
MEBI	21	1	830100	109 BEATTY,P.
MEBI	26	4	880700	451 CANTONE,M.C.
RAEL	60	5	890500	16
JOPH	20	3	870300	260 TORZO,G.
RFDE	12	2	890200	80 RICHARDS,O.L.
AUAM	24	3	930900	9 BORBELY,E.
RAEL	57	8	860800	51 SHEETS,W.
EDN	29	25	841213	374 KEITH,J.D.
QEX	0	69	871100	12 OLSON,B.
EWWW	97	1661	910300	216 HOOD,J.L.
PE	6	4	890400	22 WELS,B.G.
ELNO	64	2	930200	45 CUTHBERT,D.
POEL	17	3	800300	77 MCVEIGH,J.
ITIE	32	4	851100	422 SHORTT,D.J.
ITNS	35	1	880200	329 RONAN,M.T.
MIMI	13	6	890700	387 BARLOW,M.I.
73AM	0	358	900700	77 BRYCE,M.
ELDE	39	20	911024	119 PEASE,R.A.
RESC	63	11	921100	5475 FEHR,T.W.
73AM	0	347	890800	13 ISENSON,R.
M128	44	3	900301	137 PEREIRA,A.C.
7ART	0	365	910200	10 NOLL,S.J.
PE	10	3	930300	35 CARISTI,A.J.
RESC	53	11	821100	1743 BERNARD,B.E.
ELDE	32	12	840614	320 BAERT,D.
POEL	20	7	820700	69 DANZER,P.
QST	73	2	890200	48
QEX	0	64	870600	16 RICHEY,M.N.
M038	269	6	931200	128 GARVER,W.
ELTO	8	9	840900	45 ARMSTRONG,A.
RAEL	56	1	850100	59 METZ,R.

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ITBE	30	1	830100	66 BURGAR,C.G.
RESC	49	10	781000	1495 ENGEL,P.S.
RESC	63	3	920300	1859 AKITT,D.R.
POEL	12	5	771100	60 POWELL,K.
ELDE	33	16	850711	147 CLARK,A.
EDN	30	3	850207	240 HOFFART,F.
PE	9	6	920600	47 YACONO,J.
73AM	0	282	840300	84 LANDEFELD,E.
EDN	27	17	820901	253 CONANT,P.L.
PE	9	6	920600	67 RAKES,C.D.
MIMI	16	1	920100	37
ELDE	34	26	861113	141 YOUNG,M.S.
DIDE	12	6	820600	25
PE	6	8	890800	22 WELS,B.G.
PE	8	2	910200	33 CHARLTON,A.
JOPH	21	5	880500	505 RANDALL,E.W.
ITPE	3	3	880700	318 ORUGANTI,R.
QST	63	11	791100	33 ALLISTON,W.H.
HARA	19	9	860900	67 DEFRANCESCO,S.J
ELDE	31	12	830609	206 MALAN,H.J.
ELDE	30	18	820902	187 KRAUSE,R.
POEL	12	3	770900	96 MCVEIGH,J.
POEL	19	12	811200	69 FOX,T.R.
EDN	35	13	870528	218 TAYLOR,L.D.
RAEL	57	6	860600	51 SWAIN,G.
RAEL	56	6	850600	60 PENCE,S.
QST	72	3	880300	21 BRACHEL,B.E.
EDN	29	6	840322	256 EICHEL,H.
EDN	28	10	830512	220 BANFALVI,S.
EDN	33	21	881013	245 MCGOWAN,J.
QST	72	11	881100	17 DEMAW,D.
RFDE	10	5	870500	49 LATHEEF,G.A.
HARA	22	7	890700	20 WEINSTEIN,H.
AMJO	57	10	891000	920 KARSHNER,G.B.
ETT	14	4	900400	26 POWELL,R.S.
EWWW	97	1668	911100	950
EWWW	97	1670	920100	60 KUMARAN,K.
CICE	0	30	921200	7
PE	10	4	930400	80 CARR,J.J.
EDN	38	12	930610	165 CHEN,I.-C.
EDN	32	18	870903	137 SHEAR,D.
MIMI	8	8	841000	413 SAID,S.M.
PE	7	2	900200	35 BIGELOW,S.J.
NIM	193	0	820200	597 SEIDEN,A.
ELEC	55	3	820210	140 GAESKY,J.
ETT	16	2	910200	12 JOHNSON,R.C.
ELEC	49	25	761209	81 FULLAGER,D.
RAEL	58	11	871100	75 MIMS,F.M.,III
ELDE	37	6	890323	82 FISCHER,C.R.

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73AM	0	283	840400	40 MCCARTHY,C.B.
73AM	0	262	820700	64 GRAUE,L.C.
M035	4	3	840900	216 MAHER,B.
RAEL	55	7	840700	65 MARSTON,R.
WW	89	1568	830500	66 POLLOCK,N.
ELWI	89	1574	831100	51 IRISH,R.T.
REW	0	0	840600	44 MARSTON,R.
RESC	56	7	850700	1456 BENZEL,D.M.
73AM	0	292	850100	26 MYERS,B.
AMJO	47	11	791100	1004 IJAZ-UR-RAHMAN
IJEE	24	2	870400	131 KEHINDE,L.O.
RAEL	53	11	821100	47 BERNARD,J.
EDN	29	9	840503	326 LYTLLE,D.
M135	16	178	900500	13 MISEVICS,E.
7ART	0	371	910800	65
QST	67	3	830300	20 WITMER,J.R.
JOMA	37	1	800115	75 KARLICEK,R.F.
73AM	0	356	900500	47
RESC	51	1	800100	116 VANTINE,H.
RESC	49	10	781000	1494 TAYLOR,E.
NUIN	169	0	800200	401 LCONTE,P.
EDN	35	9	900426	196 GRAEME,J.
CQ	40	7	840700	24 NOUEL,C.
QST	69	10	851000	27 DEMAW,D.
RAEL	57	6	860600	55 GORIN,J.
EDN	33	8	880414	169 FILSETH,E.
73AM	0	269	830200	70 MORRISON,B.
JOPH	17	3	840300	204 GEORGI,K.-H.
WW	88	1554	820300	60
HAEL	4	4	870400	88 RAKES,C.D.
JOMA	55	3	831200	468 BIGLER,P.
RAEL	56	3	850300	98 GROSSBLATT,R.
RESC	50	11	791100	1484 VINCETT,P.S.
RESC	49	7	780700	1008 RUTHERFORD,J.A.
QST	71	8	870800	28 MURPHY,G.
RAEL	57	6	860600	10
HARA	22	2	890200	96
NUIN	140	0	770100	461 ATAC,M.
QST	68	2	840200	48 NOBLE,F.
ETI	7	8	830800	68 MILLER,A.
QST	62	7	780700	32 KARPIEJ,D.
CQ	40	6	840600	18 SCHULTZ,J.J.
POEL	19	5	810500	75 DAVIS,J.E.
ELHA	0	0	861000	53
QST	62	8	780800	17
ELWI	91	1591	850500	56 VERRONEN,J.
73AM	0	283	840400	70 WILLIAMS,F.D.
ELEN	55	678	830600	23
JOMA	73	2	870615	268 ANDREW,E.R.

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EDN	31	25	861211	274 ABRAMS,B.S.
RESC	60	6	890600	1197 JADUSZLIWER,B.
M022	66	10	901000	21 BAILLIE-SEARLE,G.
7ART	0	363	901200	66 BRYCE,M.
QST	70	4	860400	20 DEMAW,D.
QST	71	7	870700	24 HAYWARD,W.
M040	27	2	880200	57 TABATABAI,H.
HARA	22	4	890400	29 HALL,C.
NIM	195	0	820400	399 OVERSLUIZEN,T.
RESC	62	3	910300	609 HERRMANN,P.P.
ETT	16	7	910900	16 JOHNSON,R.C.
COCR	2	4	920400	52 PETRUZZELLIS,T.L.
HAEL	2	6	851100	74 FRUITMAN,E.
WW	88	1554	820300	64 YOUNG,K.J.
M013	15	9	830900	16 KUEHN,D.G.
ETI	7	3	830300	50 WALKER,P.
RAEL	53	4	820400	108 SAVAGE,E.
ELEN	60	735	880400	28 HICKMAN,I.
CQ	42	3	860300	32 SCHULTZ,J.J.
RAEL	56	5	850500	81 FOX,T.
QST	71	12	871200	15 DEMAW,D.
ELNO	63	12	921200	43 PETRUZZELLIS,T.
PE	10	4	930400	73 YACONO,J.J.
RAEL	63	5	920500	47 KREUTER,R.A.
ELNO	63	8	920800	37 ROSENMAYER,D.
BYTE	8	7	830700	501 CIARCIA,S.
RESC	58	1	870100	60 SAMAAAN,S.B.
QST	72	8	880800	15 MASCARO,D.
ITNS	32	5	851000	1988 STOVER,G.
NIMA	302	2	910415	362 BRUNETTI,M.T.
AJP	249	4	851000	899 FLEMING,B.P.
CQ	38	11	821100	50 SCHULTZ,J.J.
MEBI	23	6	851100	547 BRADLOW,H.S.
QST	72	4	880400	47 LILJEDAHL,F.M.
EDN	28	9	830428	222 GROVER,T.
RESC	54	12	831200	1648 SCHUDA,F.J.
NIMA	28	3	891110	544 MICHEL,E.
AJP	252	2	870200	253 IWAZUMI,T.
HAEL	5	6	880600	69 STEPHENS,J.
NIMA	281	2	890901	384 ZHONG,C.
RAEL	52	12	811200	72 KEPPEL,M.
RESC	61	2	900200	701 WAGENAAR,D.J.
REW	0	0	870200	22 MICHEALSON,K.
ELDE	37	5	890309	83 GRAEME,J.
EDN	35	10	900510	147 AUDY,J.
MOEL	7	1	900100	58 MIMS,F.M.,III
RAEL	54	4	830400	136 GROSSBLATT,R.
RESC	60	6	890600	1194 JEFFERTS,S.R.
AUAM	20	3	890800	42 AHO,E.J.

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NIMA	306	1	910815	309 MOREAU,F.
EDN	37	11	920521	155 GRAEME,J.
ELDE	40	13	920625	70 BAKER,B.C.
ELNO	63	12	921200	47 WIRTH,D.
ITIM	38	6	891200	1109 PADIN,S.
MESC	1	2	900200	139 GRAFSTROM,S.
RESC	61	8	900800	2097 BRADLEY,C.C.
EDN	37	2	920120	133 HALLMAN,C.
CLCH	21	11	751000	1667 WARDLAW,S.C.
ANIN	9	1	900100	29 PATONAY,G.
ITCS	38	7	910700	694 MIKOTAJEWSKI,M.
73AM	0	283	840400	84 BROSSMAN,R.E.
M181	166	3888	910104	20 PHILLIPS,M.
POEL	13	3	780300	41 KIRSCHMAN,R.K.
RESC	54	11	831100	1473 BALLARD,S.G.
REW	0	0	830300	21
ELDE	32	3	840209	135 NESIN,R.
EDN	31	12	860612	195 WALKER,N.C.
ELLE	23	25	871203	1379 GONZALEZ,G.
PE	9	5	920500	3 YACONO,J.
QST	61	3	770300	15 RUSGROVE,J.
AMJO	60	3	920300	246 KOCHER,C.A.
ITIM	40	1	910200	47 MATSUI,T.
CQ	39	9	830900	36 SCHULTZ,J.J.
HARA	23	6	900600	30 SALAS,P.
NIMA	316	2	920601	105 ANAMI,S.
CICE	1	1	880100	13 NISLEY,E.
ITIM	37	4	881200	515 BOTROS,N.M.
ELDE	36	12	880526	95 LANE,J.
ELDE	37	10	890511	105 MURDOCK,G.
PHED	17	2	820300	80 THOMPSON,F.
PE	9	10	921000	39 WILLIAMS,D.
7ART	0	395	930800	40 HODGKINSON,B.
JOPH	20	6	870600	660 OREB,B.F.
JOCH	65	5	880500	468 HIN-FAT,L.
ELWI	93	1612	870200	172 KHAN,A.A.
JOMA	94	2	910900	370 CONRADI,M.S.
ELDE	34	12	860529	147 DILLE,T.
CQ	40	9	840900	40 SCHULTZ,J.J.
ITCE	30	1	840200	1 ZHU,Z.
HARA	22	10	891000	46 NICHOLS,G.R.
PE	7	1	900100	61 GIAMPORTONE,M.
M066	56	662	830200	127 PEPPER,M.G.
ITBR	21	2	750600	32 SUGIMOTO,M.
M057	6	2	911000	5 BRITTON,C.
HAEL	3	4	860700	51 SCOTT,R.F.
AMJO	61	1	930100	90 LONC,W.
CQ	39	12	831200	40 ALEXANDER,B.
IEEA	135	1	880100	22 OLADIRAN,E.O.

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EDN	33	17	880818	32 DONOFRIO,B.
ELDE	38	17	900913	89 JUNG,W.
EDN	35	22	901025	224 MICHALSKI,D.
EDN	28	12	830609	135 WILLIAMS,J.
RESC	64	6	930600	1665 RHEE,M.J.
EVEL	15	11	861100	612 DE VAUX BALBIRNIE,
EWWW	97	1672	920300	252 WOOD,S.
AMJO	50	8	820800	709 CALLAGHAN,P.T.
BYTE	9	12	841100	50 CIARCIA,S.
JOPH	15	5	820500	558 VAN RIET,B.
QST	61	3	770300	28 PUNCHARD,J.C.R.
RAEL	57	2	860200	51 SHEETS,W.
ELEC	50	10	770512	120 ISBELL,J.,JR.
M142	37	3	900500	277 BAILEY,C.G.
MIRF	24	7	850700	103 HOUNG,S.G.
EWWW	97	1660	910200	155
ELWI	93	1614	870400	386
AUAM	18	2	870300	52 ADELSBACH,J.
CQ	39	10	831000	104 THURBER,K.T.,JR.
ELTO	10	6	860600	10 VIRDEN,D.J.
NIMA	310	1	911201	88 HARTJES,F.
BYTE	10	2	850200	105 CIARCIA,S.
M180	0	43	904300	32 KANTO,V.
MADE	61	22	891109	150 SHALAND,A.
BYTE	10	9	850900	257 AUSTERLITZ,H.
RESC	48	11	771100	1445 BIALKOWSKI,S.
QST	66	4	820400	16 WOOD,B.
RAEL	54	6	830600	51 FISH,R.
ELTO	11	8	870800	21 STUART,M.
ELDE	37	9	890427	71 MILNE,B.
NIMA	284	2	891201	417 BUTZ,T.
ELDE	31	21	831013	145 O'NIEL,M.F.
CHIN	8	4	770400	295 CRANEY,C.L.
ELDE	31	7	830331	45 OHR,S.
RESC	55	3	840300	389 THOMANN,H.
NIM	197	0	820600	593 BILLEN,J.H.
EDN	37	10	920507	210 WILLIAMSEN,M.
BYTE	12	3	870300	113 CIARCIA,S.
PE	9	8	920800	31 IOVINE,J.
NIMA	247	3	860701	538 SKEGG,R.
PE	9	2	920200	58 HANSEN,C.
MESC	4	2	930200	164 WANG,H.
ELEC	50	23	771110	116 CAHILL,S.J.
ELEN	56	694	841000	91 ERCOLE,R.
DIDE	14	7	840700	60 COVILLE,A.
ELDE	32	15	840726	221 HAUNG,H.-M.
RAEL	57	8	860800	73 GROSSBLATT,R.
ANCH	62	10	900515	1055 HILLS,A.J.
ITIE	30	2	830500	164 D'ALLESSANDRO,D.

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RAEL	61	5	900500	49 ASHWORTH,L.
CICE	0	25	920200	22 CIARCIA,S.
CICE	0	33	930400	42 NISLEY,E.
ELEC	50	2	770120	98 MARSHALL,W.C.
ELDE	31	16	830804	167 TRAN,T.
ELEC	50	19	770915	127 MICK,J.R.
RESC	58	9	870900	1597 ENLOE,C.L.
EDN	29	23	841115	332 SUBBARAO,W.V.
M076	1	1	810200	8 NOYCE,R.N.
MOEL	7	12	901200	32 PONTING,D.
MIMI	15	8	911000	417 CHUTATAPE,O.
MIMI	11	9	871100	493 TAHA,L.Y.
ETI	7	3	830300	21 MARSTON,R.
RAEL	53	11	821100	90 SAVAGE,E.
POEL	15	2	790200	63 BAILEY,J.T.
ELTO	10	1	860100	32 BOLD,R.
RESC	48	5	770500	542 ANICICH,V.G.
JOPH	19	7	860700	516 BUCKLEY,D.J.
NIM	190	0	811100	67 GOTTSCHALK,B.
M159	24	1	850200	105 LEE,Y.H.
ETT	12	5	880500	56 FLIND,A.
RAEL	62	6	910600	48 BARBARELLO,J.J.
RESC	50	11	791100	1489 GIBSON,R.B.
EWWW	98	1679	921100	960 KOHL,D.A.
MIRF	23	2	840200	89 NIEHENKE,E.C.
RAEL	54	9	830900	57 FRIEDMAN,H.
NIMA	277	2	890501	513 BELUSEVIC,R.
MESC	2	3	910300	217 WOODHAMS,F.W.D.
ELEN	63	774	910600	13
7ART	0	387	921200	8 WELCH,J.
M102	52	2	900400	136 MCCARTER,N.H.
AUAM	22	3	910800	43 PAUL,C.
80M2	0	52	840500	176 ALFORD,R.C.
ITPS	8	3	800900	139 ROSE,M.F.
QST	69	4	850400	14 LANGNER,J.
CLEN	15	1	900100	53 MORSE,M.S.
EDN	28	8	830414	175 WILLIAMS,D.G.
EWWW	95	1646	891200	1156 WRIGHT,N.P.
RESC	59	2	880200	307 GILLIES,G.T.
80M2	0	51	840400	196 ALFORD,R.C.
MEBI	20	6	821100	709 THAKOR,N.V.
ELDE	35	25	871029	95 BALUE,T.
RAEL	55	12	841200	84 SCOTT,R.F.
ELDE	31	4	830217	113 BALARAM,A.
NIMA	301	1	910215	47 BARTOSZEK,L.
RESC	53	3	820300	332 ALTWEGG,L.
NIMA	251	3	861101	437 ARVIDSSON,A.
ELEN	61	754	891000	37 LIGHTSTONE,A.
RESC	48	2	770200	186 STUART,D.C.

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RESC	60	7	890700	1264 SCHULMAN,M.B.
RESC	59	7	880700	1115 LACAITA,A.
ELDE	39	11	910613	109 OCHI,S.
HAEL	2	2	840200	39 BRUNS,D.
QST	65	10	811000	38 DEMAW,D.
QST	62	4	780400	14 BERLIN,H.M.
INJO	62	5	870500	781 ALJUDI,A.A.R.
COEL	22	9	840900	24 MIMS,F.M.,III
EWWW	97	1664	910700	569 LAKSHMINARAYANAN,V
MEBI	20	1	820100	117 MCGANN,L.E.
73AM	0	264	820900	28 ANDERSON,P.
RAEL	62	10	911000	67 COOKE,J.
MISY	4	9	830900	116 AMELANG,L.
BYTE	6	2	810200	312 MIKEL,R.W.
ELTO	11	2	870200	59 BEDROSIAN,D.
ELEC	49	15	760722	111 TAYLOR,R.L.
EDN	32	6	870318	203 PETERSON,W.D.
ELEL	21	1	810100	33 SIKONOWIZ,W.
INJO	65	2	880800	263 HAMAD,K.A.
JOPH	13	1	800100	103 VISHWAMITTAR,R.K.
RESC	64	1	930100	247 JIANG,Y.M.
POEL	13	2	780200	82 MIMS,F.M.
HAEL	4	10	871000	59 HORN,D.T.
EDN	30	21	850919	241 ABELL,E.
MIMI	9	10	851200	475 WARRINGTON,E.M.
PE	9	4	920400	53 RECKLIES,D.F.
COCR	3	11	931100	24 YOST,P.E.
PHTE	18	1	800100	66 LAYMAN,J.W.
MIAP	8	4	851000	317 PANDE,V.N.
EDN	29	19	840920	286 MANNO,S.J.
RESC	49	10	781000	1392 MARDEN,W.W.
QST	70	3	860300	21 TAGGART,R.E.
ELDE	36	11	880512	152 GRAEME,J.
ITNS	35	1	880200	306 SKEGG,R.
NUIN	169	0	800200	503 JENSEN,D.
MESC	1	10	901000	1113 SIROVYAK,W.G.
M169	28	10	791000	802 CHANEY,T.J.
PHED	17	1	820100	38 JANSSEN,H.J.
JOPH	16	12	831200	1189 NEELAKANTASWAMY
HAEL	2	5	850500	83 MOSTAFAPOUR,B.
ELEN	57	700	850400	87 PICKVANCE,R.
AMJO	48	10	801000	834 ANDERSON,J.G.
OPLA	21	3	890600	204 NATHAN,T.P.S.
ETI	7	2	830200	80 OWEN,L.N.
ELDE	30	9	820429	215 OEHMICHEN,J.P.
RESC	58	8	870800	1387 IRBY,J.H.
RAEL	53	8	820800	22 MCDONALD,J.
73AM	0	267	821200	139 CLOWER,P.
POEL	20	7	820700	82 MIMS,F.M.

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CE	14	5	900500	381 YU,T.L.
JOPH	15	7	820700	712 COLLINS,A.T.
POEL	13	3	780300	84 MIMS,F.M.
BYTE	6	2	810200	288 SODERSTROM,R.
EDN	32	19	870917	248 MOSTAFAPOUR,B.
M131	5	1	860100	47 HALDAR,M.K.
7ART	0	386	921100	29 ROBERTS,R.
COCR	3	4	930400	75 DESPOSITO,J.
BYTE	11	13	861200	193 KILLEBREW,C.R.,JR.
ELWI	92	1606	860800	58 WOOTTEN,K.
ELEC	55	9	820505	130 MITCHELL,L.
73AM	0	269	830200	99 FLETCHER,T.
MIMI	15	7	910900	369 ER,M.H.
EDN	38	13	930624	152 HOFFSTATTER,G.F.
ETI	7	3	830300	63 SINCLAIR,I.
JOPH	18	8	850800	658 WHITE,R.G.
PHED	20	5	850900	246 BLIGH,P.H.
CQ	39	11	831100	26 BOTNER,J.
MEBI	19	3	810500	279 JORDAN,C.
RESC	56	11	851100	2043 STERNIN,E.
RAEL	51	11	801100	65 CHEAIRS,L.S.
COEL	22	1	840100	26 SOLOMON,L.
COCR	2	4	920400	36 GOSS,N.
PE	10	3	930300	53 MARSTON,R.
POEL	10	2	760800	24 MCVEIGH,J.
ELDE	33	5	850307	203 FREEMAN,W.
73AM	0	320	870500	30 WOLOVITZ,D.C.
ELWI	90	1584	841000	33 HUTCHINGS,P.D.
ELDE	31	5	830303	165 BRADLEY,J.L.
EVEL	16	2	870200	94 PERROW,M.
QEX	0	81	881100	8 WILLIAMSON,K.
HARA	22	10	891000	68 KING,R.D.
EDN	29	12	840614	197 DAVIS,A.M.
RAEL	55	11	841100	90 GROSSBLATT,R.
RAEL	55	9	840900	46 JELLISON,F.,JR.
HAEL	4	9	870900	81 FRENZEL,L.E.,JR.
PE	6	7	890700	22 WELS,B.G.
JOMA	50	1	821015	151 MAI,M.T.
HARA	14	6	810600	41 ORR,B.
RAEL	60	7	890700	28 GROSSBLATT,R.
JONE	6	1	820700	103 YATES,G.K.
RESC	49	5	780500	595 GENTRY,W.R.
ETI	7	12	831200	71 SINCLAIR,R.N.
EDN	32	15	870723	307 WITTE,K.
ELDE	37	24	891123	101 MURASHIGE,J.
NIMA	256	2	870501	333 OYAMA,Y.
RESC	54	4	830400	501 LEAL,F.A.M.
M104	7	1	800100	68 ROSEN,I.I.
PE	9	11	921100	72 RAKES,C.D.

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ELDE	40	5	920305	77 DUNN,J.
CQ	47	1	910100	24 DAHNKE,F.
RESC	51	10	801000	1342 SONDERGELD,C.H.
HAEL	5	12	881200	60 COVINGTON,A.R.
RAEL	62	4	910400	63 EADY,F.
ITNS	32	5	851000	1829 KOONTZ,R.F.
ELDE	30	21	821014	163 WHITCOMB,R.
ELWI	95	1641	890700	686 FORRESTER,T.
M017	53	4	911000	213 LABUN,A.H.
PE	6	7	890700	69 YACONO,J.
RAEL	54	5	830500	90 GROSSBLATT,R.
NIMA	228	1	841215	81 FORD,T.D.
ELDE	30	1	820107	281 POLCZYNSKI,M.H.
ELDE	34	10	860501	239 AMITAI,Z.
BYTE	7	8	820800	291 BARDEN,W.,JR.
AUAM	22	3	910800	30 SAWYER,R.
ITIE	30	2	830500	155 FLOYD,W.M.
ITNS	35	1	880200	300 ARAI,Y.
RAEL	60	8	890800	42 SOKOLOWSKI,S.
COEL	22	9	840900	34 DESPOSITO,J.
BYTE	5	6	800600	24 PARSONS,R.G.
ELEN	62	762	900600	25 BROWNE,J.
ELDE	38	19	901011	81 KUMAR,A.
M016	29	22	900801	3303 LEE,H.S.
ELDE	40	12	920611	75 HEGDE,A.
HARA	20	10	871000	57 CARR,J.
EDN	28	12	830609	127 OKUN,J.
RESC	55	10	841000	1706 VELAYUDHAN,C.
73AM	0	264	820900	60 GIBSON,S.
ELDE	29	5	810305	99 CHANG,Z.T.
RESC	63	12	921200	5707 BUONTEMPO,J.T.
80M2	0	50	840300	196 ALFORD,R.C.
EDN	37	6	920316	136 DAVIS,D.W.
RESC	55	2	840200	256 BOCKO,M.F.
ITPE	2	2	870400	81 WHEATLEY,C.F.,JR.
HAEL	5	1	880100	45 LAWRENCE,J.T.
ELDE	36	3	880204	103 WONG,J.
ELEC	50	5	770303	116 GORIN,J.M.
ELDE	30	15	820722	153 MOHR,S.
JONE	16	1	860300	73 MILES,T.S.
ELDE	32	22	841031	287 VIDAL,J.
M080	26	272	890800	50 MAKINO,S.
CLEN	11	2	860300	135 MYLREA,K.C.
ITCS	36	5	890500	756 LINARES-BARRANCO,B
MESC	1	5	900500	458 WILSON,K.J.
INJO	58	6	850600	963 TODA,K.
JOPH	15	9	820900	934 TAYLOR,H.R.
RESC	54	6	830600	769 WICKE,B.G.
NIMA	226	2	841001	418 POTZEL,W.

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PHTE	19	5	810500	343 LIGHTFOOT,B.N.
QST	65	6	810600	35 MOELL,J.
JOPH	13	2	800200	236 BRANCIK,J.V.
ETT	13	10	891000	39 BOWES,C.
RAEL	62	1	910100	9 BRUYNS,J.
M008	8	1	870100	39 LENTZER,A.
ITNS	35	6	881200	1557 BROWNING,J.S.
EWWW	97	1678	920900	772 HICKMAN,I.
RESC	48	12	771200	1617 WEI,C.-Y.
EDN	32	10	870514	193 SCHAFFER,G.
JOAU	31	5	830500	320 FREY,D.R.
ELDE	40	14	920709	76 SALVATI,M.J.
NIM	215	3	831001	549 SEMRAD,D.
ITIM	30	1	810300	7 UNO,M.
HAEL	5	4	880400	57
RAEL	58	1	870100	53 SHEETS,W.
RFDE	7	6	840900	12 HATCHETT,J.
ELDE	30	23	821111	121 WATSON,D.L.
ESD	18	9	880900	45 GREY,G.
ELDE	31	14	830707	145 KRYKA,T.
INJO	59	6	851200	747 HOBSON,L.
IJEE	23	4	861200	311 TAYLOR,H.R.
RESC	48	11	771100	1469 HARRIS,J.M.
RAEL	55	2	840200	47 MEANS,F.
ELDE	31	23	831110	177 MELEAR,C.
ELDE	30	15	820722	182 GOODENOUGH,F.
ELWI	93	1607	861000	25 CATHERWOOD,M.
EDN	27	16	820818	137 BOYACIGILLER,Z.
RAEL	51	12	801200	67 CARR,J.J.
HARA	22	5	890500	85 EVERS,H.
EWWW	99	1682	930100	60
ELEN	59	725	870500	57 ALOISI,P.
EDN	28	21	831013	177 MORALES,A.J.
EWWW	96	1656	901000	879 MCLOUGHLIN,M.
PE	8	5	910500	78 CARR,J.J.
ELWI	93	1601	860300	53 KYRIAZIS,N.
INJO	62	5	870500	733 BERGMAN,G.D.
RESC	53	9	820900	1374 HAUPT,E.
RESC	54	1	830100	118 TURKO,B.T.
CQ	40	1	840100	22 SCHULTZ,J.J.
NIMA	60	2	871015	425 CESARONI,F.
HAEL	5	11	881100	39 RAKES,C.D.
ELDE	30	17	820819	99 RAGHUNATHAN,K.R
QEX	0	40	850600	8
EWWW	97	1673	920400	320 MCLOUGHLIN,M.
INJO	62	3	870300	473 MYTRI,V.D.
QEX	0	58	861200	5 KESTELOOT,A.
ELWI	92	1611	870100	58 BARRON,J.E.
NIMA	287	3	900215	580 CRUVINEL,P.E.

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AUAM	19	1	880200	46 BETTINGER,M.
CICE	0	9	890600	8 ROSE,C.W.
QEX	0	39	850500	5 HORN,G.W.
NIM	186	0	810700	519 CRITTENDEN,R.R.
EEU	2	2	911200	70 RIGBY,A.
RESC	63	2	920200	1840 CONTINETTI,R.E.
EDN	37	12	920604	143 MCGUIRE,P.L.
RESC	63	12	921200	5780 BEN-ITZHAK,I.
ELDE	31	13	830623	163 DYCHE,G.E.
ITIM	35	4	861200	456 DYER,S.A.
ITIA	24	3	880500	508 SAPKO,M.J.
ELDE	41	4	930218	61 COLEMAN,J.
NIMA	60	2	871015	546 CESARONI,F.
MIMI	12	9	881100	519 NG,K.W.
EDN	29	16	840809	271 KIRBY,S.
RAEL	61	8	900800	51 TRIETLEY,H.L.
RESC	51	9	800900	1225 MATSUDA,J.-I.
HARA	22	1	890100	68 MASCARO,D.
JEPT	13	1	860100	21 SCHMID,K.
RESC	51	3	800300	357 KOBAYASHI,H.
CICE	0	10	890800	22 DAHMKE,M.
MEBI	18	0	801100	791 MABILDE,C.
ELDE	31	25	831208	151 NESIN,R.
M030	34	7	890700	851 WOLDESELASSIE,T.
ITPS	19	5	911000	800 CUNEO,M.E.
RESC	54	6	830600	751 ELLIS,F.M.
M062	0	0	820500	14 HISCOCKS,P.
MESC	2	1	910100	26 VAN ASSELT,C.J.
M014	10	1	790500	15 CHESNEY,T.
ELDE	37	17	890810	51 STONE,J.
RAEL	55	3	840300	59 MCLELLAN,G.
APSP	43	3	890300	532 HOLLER,F.J.
ELDE	41	5	930304	93 NAGARAJ,M.S.
EDN	32	25	871210	326 LU,R.
WW	89	1568	830500	42 MARSHALL,I.
ELDE	39	19	911010	93 HARTLEY,C.
NIMA	238	2	850801	249 FISCHER,J.
M136	8	1	810100	5 FREUDENTHAL,J.
JONE	17	4	860900	335 STEPHENSON,R.S.
BYTE	6	10	811000	458 SEEDS,M.A.
RAEL	57	12	861200	81 ROBILLARD,M.J.
ITIM	38	6	891200	1074 ROGERS,C.
RESC	53	10	821000	1604 GRONLUND,F.
ELDE	32	7	840405	147 DOSCHER,J.
M066	54	60	810400	328 SANKARAN,A.
RESC	53	5	820500	708 SCHOW,F.L.
RAEL	61	10	901000	59 HARRIGFELD,J.
RESC	61	10	901000	3064 BOODY,F.P.
M160	44	6	780600	981 KRANING,K.K.

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M002	17	190	910600	50
HAEL	2	3	850300	87 NOLL,E.
EDN	28	22	831027	265 JARL,R.B.
ELDE	39	14	910725	165 NASS,R.N.
ELWI	93	1612	870200	156 SOKOL,B.J.
ITNS	34	6	871200	1769 BARNES,C.E.
ELDE	36	17	880728	67 PHILLIPS,B.W.
ITIE	30	4	831100	374 KAPLAN,B.-Z.
M079	22	1	880100	8 KITCHIN,C.
NIMA	271	3	880900	571 MANFREDOTTI,C.
ITIM	30	4	811200	254 DAMLJANOVIC,D.D.
EDN	27	2	820120	101 COUNTS,L.
RFDE	5	1	820100	24 JONES,M.
RFDE	7	2	840300	69 MCCOLLUM,G.
EDN	33	1	880107	181 RAHIM,Z.
ELEN	60	783	880600	41 FLETCHER,Q.
EEU	2	2	911200	88
MESC	1	2	900200	195 SLIFKIN,M.A.
ETI	7	5	830500	32
RESC	58	8	870800	1518 HOBBS,P.C.D.
MIRF	27	5	880500	213 FITHIAN,M.J.
ITNS	36	5	891000	1657 BACCHETTA,N.
AMJO	60	9	920900	797 BRUNS,D.G.
MADE	59	26	871112	145 HADLEY,L.
MEBI	19	1	810100	23 SUNDET,W.D.
BYTE	10	12	851100	89 CIARCIA,S.
RESC	53	5	820500	631 HAMILTON,N.
CEEJ	11	1	860100	3 JAGGI,M.P.
M072	3	31	880800	20 MAREZ,E.
73AM	0	340	890100	36 SHARP,F.R.
RFDE	9	2	860200	77 MORGAN,H.L.
RFDE	12	3	890300	27 MITRA,V.
LAPR	31	1	820100	25 COXALL,A.J.
RESC	48	3	770300	356 SWITZER,W.L.
COEL	21	8	830800	96 MIMS,F.M.,III
M042	1	4	890700	171 JONES,C.H.
NIMA	235	2	850401	267 COMMICHAU,V.
EDN	27	20	821013	125 PEASE,R.A.
NIMA	238	2	850801	422 LOMBARDI,M.
EDN	30	16	850711	75
ITNS	33	1	860200	415 OHKAWA,S.
7ART	0	389	930200	30 NIWA,K.
ITNS	33	1	860200	272 GOESSLING,C.
AUAM	20	3	890800	13 BORBELY,E.
M110	3	6	881100	523 WU,J.
M044	8	1	800100	1 TAKATANI,S.
M030	35	4	900400	571 EDMONDS,I.R.
JONE	14	2	850700	117 WEINBERG,R.J.
EDN	30	6	850321	235 LACANETTE,K.

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ITNS	33	5	861000	1154 IKEDA,H.
NIMA	287	3	900215	521 KULKA,Z.
NIMA	226	1	840915	63 HEIJNE,E.H.M.
M172	37	5	900500	1397 STOISIEK,M.
EDN	28	10	830512	195 WILLIAMS,J.
ITMA	22	6	861100	1552 JOHNSON,D.E.
MOEL	7	4	900400	37 CARISTI,A.J.
JOCO	8	2	880200	85 POWERS,M.H.
ITIE	30	1	830200	19 CUK,S.
ELMA	19	5	910900	599 PERAHIA,J.
ITNS	33	6	861200	1535 PASSOW,R.H.
JOPH	15	12	821200	1310 BREGNI,A.
MEBI	29	2	910300	155 SALVADOR,C.H.
EWWW	96	1650	900400	327
ITNS	35	1	880200	451 UJIIE,N.
RESC	58	8	870800	1540 GARDNER,R.J.
RESC	51	4	800400	425 KEYSER,C.J.
EWWW	99	1684	930300	206 JACOBS,B.
RESC	59	8	880800	1482 BASSAN,M.
RESC	60	9	890900	3070 MARSH,E.
ITBE	30	2	830200	87 CAHILL,S.J.
DIDE	16	14	861200	56 VENKATESH,G.
ELWI	93	1613	870300	261 WILMSHURST,T.J.
EDN	30	20	850905	225 CUSHMAN,R.H.
MESC	2	4	910400	342 SYLVAN,A.
JOPH	16	7	830700	710 COLE,J.B.
ELDE	34	8	860403	133 VENKATESH,G.
ANCH	58	7	860600	1506 XIE,S.-L.
ELSC	10	2	830200	71 SCHAUER,A.
BYTE	6	9	810900	435 CHEPKO,M.D.
AUAM	21	1	900200	26 POEHLAND,B.L.
HAEL	5	6	880600	63
CQ	41	6	850600	13 PARKER,B.
JOPH	16	12	831200	1148 BAYERER,R.
RAEL	58	10	871000	39 PEARSON,R.L.
ELDE	36	23	881013	124 POTSON,D.
NIMA	309	3	911115	489 MASUDA,K.
EWWW	99	1687	930600	481 HICKMAN,I.
POEL	16	1	790700	68 MIMS,F.M.
EEU	2	2	911200	63 ROERADE,L.
ELTO	8	12	841200	28 WALKER,P.
NIMA	267	1	880415	171 BRUSCHI,M.
RFDE	9	11	861100	84 TRAN-NGUYEN,D.
EWWW	98	1681	921200	1050 HICKMAN,I.
MIRF	27	7	880700	79 GAVIN,D.T.
POEL	19	4	810400	77 DAVIS,J.H.
EDN	34	24	891123	207 SYKES,F.E.
ITMA	26	5	900900	2023 KANO,Y.
RAEL	59	2	880200	73 LANCASTER,D.

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EDN	32	24	871126	252 BUTLER,J.
ELDE	35	27	871112	121 CATES,R.
MOEL	5	11	881100	37 SHOEMAKER,C.
ELEN	62	758	900200	32 KARWOWSKI,M.
7ART	0	370	910700	62 HOUGHTON,C.L.
EWWW	99	1689	930800	630 SELF,D.
EEU	2	9	920700	56 WALRAVEN,K.
SCPR	1	2	910400	93 MIMS,F.M.,III
AUAM	22	4	911000	10 WILLIAMSON,R.
73AM	0	274	830700	50 ANDERSON,P.
M052	9	2	890200	229 BRAUER,M.
ITIM	32	4	831200	491 TAPIA,M.
REW	0	0	831200	57
ELEN	56	696	841200	34 MIRON,N.
RFDE	11	3	880300	39 PORTER,J.
ITIM	38	4	890800	920 AL-ALAOUI,M.A.
INJO	72	2	920200	223 TSAI,M.-C.
NIM	205	0	830100	473 SUNDQVIST,T.
PE	6	7	890700	29 STROUD,L.M.
M109	33	7	900700	91 PETTED,B.E.
IEEP	126	12	791200	1367 PANDEY,K.
ETT	11	11	871100	41 PENFOLD,R.A.
EDN	28	7	830331	114 TRAVIS,B.
RAEL	59	10	881000	51 DILALO,J.
CODE	28	7	890401	51 MARRIN,K.
RFDE	13	12	901100	85 ENGLISH,J.D.
NIMA	240	2	851015	351 GLASMACHERS,A.
HAEL	5	8	880800	62 AXELSON,J.
MIMI	12	5	880600	286 TYSON,T.J.
AUAM	18	1	870100	47 CAPELLE,W.H.,JR.
NIMA	274	3	890115	452 ANTIPOV,Y.M.
PE	7	9	900900	63 SCHOPP,W.W.
PE	8	10	911000	27 YACONO,J.
HAEL	5	6	880600	81 RAKES,C.D.
ELWI	91	1596	851000	73 GREAVES,D.J.
POEL	12	4	771000	90 MCVEIGH,J.
RESC	49	11	781100	1549 GUSTAFSON,T.L.
ELWI	95	1640	890600	576 LIAO,T.C.
ELTE	3	12	801200	128 TARKETT,D.
APSP	45	3	910300	360 UCHIDA,T.
ETT	12	3	880300	26 DANCER,C.
RAEL	56	2	850200	55 HUDDLESTON,M.
MIMI	10	5	860600	251 DUNLOP,J.
EDN	32	1	870108	236 ZINNIKER,R.
JOPH	15	10	821000	1020 CAFFIN,R.N.
ELDE	34	3	860206	139 JENKINS,A.
MEBI	24	1	860100	91 SMITH,R.E.
MEIN	19	3	850700	184 LAWSON,D.
RESC	51	9	800900	1270 MCDONALD,J.D.

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TRAS	32	1	890100	298 ALLISON,J.M.
CLEN	9	4	841000	341 VALLEJO-ALFONZO,C.
AUAM	21	2	900400	26 CHATER,W.
CODE	19	12	801200	119 SAMSEN,G.R.
ELDE	40	18	920903	70 SPEAROW,C.
JOPH	16	12	831200	1228 REINMULLER,H.
AUAM	15	4	840900	24 DIDDEN,J.M.
RAEL	60	5	890500	14 ASKEY,A.
HARA	22	5	890500	65 POPODI,A.E.
RESC	54	1	830100	97 SINGER,K.D.
ITNS	32	5	851000	1687 MEISNER,K.
LAMI	6	4	870400	154 BATES,P.A.
AJP	232	5	770500	211 BEZANILLA,F.
BYTE	8	6	830600	28 SHRINER,R.
QST	62	6	780600	25 DEMAU,D.
QST	69	3	850300	31 BRY,A.
INJO	56	6	840600	789 LANGLOIS,P.J.
ELEN	5	682	831000	41 WYNNE,H.T.
HARA	23	6	900600	28 ESCHMANN,J.
MIMI	10	10	861200	543 REFAI,M.K.
73AM	0	333	880600	67 BRYCE,M.
AMJO	47	8	790800	707 DART,S.L.
ITIE	36	4	891100	516 ADDOWEESH,K.E.
BYTE	5	2	800200	172 MILLER,D.F.
ELDE	34	23	861002	106 CLARE,S.R.
ITNS	32	2	850400	1198 SMITH,A.J.
MESC	4	2	930200	148 HARRISON,N.
AUAM	20	1	890200	53 BOX,A.
ITCE	33	4	871100	619 VAN GLABBEEK,H.
QST	67	6	830600	15 DEMAU,D.
QST	67	8	830800	35 DEMAU,D.
ELDE	33	4	850221	205 GRAEME,J.
ELLE	25	23	891109	1606 NEELAKANTA,P.S.
BYTE	7	2	820200	38 CIARCIA,S.
QST	66	6	820500	21 HAYWARD,W.
RAEL	58	4	870400	98 HOLTZMAN,J.
QST	71	6	870600	30 DEMAU,D.
73AM	0	280	840100	115 FRUITMAN,E.
EDN	29	20	841004	250 BREDON,B.
NATE	0	0	900100	6 HENSLEY,M.C.
RAEL	62	8	910800	61 HUBSCHER,R.
QST	67	11	831100	39 DEMAU,D.
RAEL	52	9	810900	84 WOLD,E.
HARA	14	12	811200	36 ROHDE,U.L.
MESC	2	12	911200	1213 KAMALUDDIN,B.
EDN	37	7	920330	115 DEMLER,M.J.
POEL	14	4	781000	84
CONO	4	3	860600	59 DUNNE,S.
QST	62	8	780800	32 CURRY,D.

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RAEL	58	5	870500	129 SCOTT,R.F.
PE	6	9	890900	94 CARR,J.J.
RESC	48	11	771100	1477 KEMPER,P.R.
QST	68	4	840400	50 DEMAW,D.
POEL	17	3	800300	80 MIMS,F.M.
HARA	14	4	810400	78 TASHNER,R.
RESC	49	9	780900	1332 VAN BEST,J.A.
ELEC	55	22	821103	116 SHARP,J.L.
INJO	62	4	870400	625 CHAN,A.Y.C.
INJO	59	2	850800	187 SILARD,A.
HARA	14	10	811000	62 POWELL,K.
ITIA	23	5	870900	848 DORADLA,S.R.
ELEN	63	775	910700	34 TICKOO,A.K.
NIMA	321	3	921001	467 AUBERT,B.
ELDE	28	14	800705	132 ZUBIEL,S.T.
QEX	0	49	860300	3 BUTTSCHARDT,C.
ELWI	92	1610	861200	55 CHARNLEY,M.
ELDE	30	22	821028	188 SCHROEDER,J.J.
ELWI	93	1612	870200	174 HUGHES,R.B.
POEL	19	9	810900	79 SWENSON,D.R.
ELEC	49	16	760805	94 O'BRIEN,J.T.
QST	62	10	781000	36 GETCHELL,D.S.
CQ	39	3	830300	20 BECKER,W.M.
POEL	19	6	810600	93 SWENSON,D.R.
EDN	33	23	881110	304 WYATT,M.
HARA	22	10	891000	86 MCMULLEN,T.
WW	87	1551	811200	59 KIRBY,S.
NATE	0	0	900100	5 ANDERSON,B.L.
NATE	0	0	870800	6 WIRTH,M.N.
ELDE	40	9	920501	92 BELOUSOV,A.L.
ELEC	56	14	830714	133 KASS,S.
ELDE	28	16	800802	99 GABOR,O.
RAEL	55	1	840100	69 HOLMES,D.L.
ITNS	32	5	851000	3766 PFEFFER,H.
RESC	51	3	800300	292 FEHL,D.L.
ITCS	36	8	890800	1133 KENNEDY,M.P.
RESC	49	12	781200	1622 WAMPACH,H.R.
ETI	7	2	830200	35 WALKER,P.
QST	66	11	821100	22 LEY,H.L.,JR.
MIRF	27	3	880300	28 SIEGEL,S.
NIMA	307	1	910915	26 BERDOZ,A.R.
CICE	0	37	930800	26 BUMBLE,M.
WW	88	1554	820300	79 FERGUSON,J.D.
QST	67	10	831000	23 DEMAW,D.
EDN	30	6	850321	159 TWADDELL,W.
M026	248	1	910715	195 JOHNSON,M.E.
TRAS	26	2	830300	570 MITCHELL,B.W.
AUAM	18	4	871100	12 CROWHURST,N.
ITNS	37	2	900400	439 ZIMMERMAN,T.

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ELDE	37	21	891012	75	KUZDRALL,J.A.
CICE	0	15	900600	32	OTTEN,D.
EWWW	97	1665	910800	683	
NIMA	283	3	891110	502	AMERY,A.
MIRF	31	5	920500	199	RYNAS,S.
NIM	188	0	810900	555	KOLB,B.
ETI	8	4	840400	52	
ITPE	5	2	900400	241	CHARANASOMBOON,T.
M151	13	4	900400	311	PAWLISZYN,J.
ELAU	52	12	901200	42	WILLIAMS,N.
ANCH	57	6	850600	1163	KOVAL,C.A.
M150	43	1	890500	45	STAFFORD,J.V.
NIMA	269	1	880601	121	BANERJEE,S.
RESC	52	6	810600	819	HUDOR,A.M.
NIMA	299	1	901220	696	KUNZ,A.
EDN	31	13	860626	185	DAVIDIAN,D.
CEE	33	2	890200	24	GADKE,C.
RFDE	8	4	850400	28	MILLER,D.
ELEC	53	7	800327	157	TONIS,K.
EWWW	97	1659	910100	36	
QST	71	8	870800	24	REED,J.C.
RAEL	56	3	850300	43	SWEENEY,D.
INJO	63	3	870900	443	HINCHLIFFE,S.
RESC	50	3	790300	384	CHAPMAN,R.
RESC	59	4	880400	601	PETTY,C.C.
ITNS	34	6	871200	1234	RICHTER,A.K.
RESC	61	8	900800	2211	BAKER,R.J.
IEEB	139	3	920500	227	CHENG,K.W.E.
PE	7	6	900600	59	SCHOPP,W.W.
JOPH	19	12	861200	1016	VARDIGANS,S.V.G
ITIE	38	6	911200	462	LEE,C.Q.
ELEN	57	707	851100	39	STOCCHINO,G.
ELEN	55	683	831100	31	BIRD,I.G.
ITPE	5	1	900100	98	WITULSKI,A.F.
ITNS	34	6	871200	1792	BRUCKER,G.J.
POEL	20	3	820300	103	MIMS,F.M.
RAEL	56	7	850700	55	DEMERS,D.
INJO	63	1	870700	117	HINCHLIFFE,S.
CODE	21	3	820300	155	BALAKRISHNAN,R.V.
M121	2	3	840800	229	GOPALAKRISHNAN,M.
HAEL	3	1	860100	59	
AUAM	22	1	910200	24	BORBELY,E.
ELEC	55	5	820310	155	PELLY,B.
CODE	25	1	860101	76	THOMPSON,R.
ELEN	61	749	890500	33	ZIRNGAST,M.
PE	8	11	911100	61	GIAMPORTONE,M.
JOPH	18	2	850200	142	SOCHER,W.
QST	66	12	821200	49	LAMB,W.
RAEL	57	4	860400	100	

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PE	8	12	911200	53 GIAMPORTONE,M.
ELDE	28	5	800301	77 BAL,S.
EWWW	97	1678	920900	764 CATTO,C.J.D.
RESC	56	12	851200	2267 ENKE,C.G.
EWWW	96	1655	900900	760 SELF,D.
ITBE	31	11	841100	715 DE VEL,O.Y.
INJO	66	6	890600	939 NAKAOKA,M.
M044	15	5	870500	485 JAEGER,R.J.
ITIM	37	4	881200	541 LOCCI,N.
ANCH	61	13	890701	1425 PATONAY,G.
ELEN	63	770	910200	43 CHADDERTON,N.A.
ETT	14	2	900200	48 SCHULTZ,W.
INJO	68	6	900600	1089 DIXON,N.J.B.
EDN	32	4	870219	137 WILLIAMS,J.
INJO	69	3	900900	345 ABRANIN,E.P.
EDN	31	2	860123	107 TRAVIS,B.
73AM	0	358	900700	68 HOUGHTON,C.L.
NIMA	24	1	860415	1 BEN-ZVI
ELEN	56	695	841100	18
ELWI	92	1606	860800	56 FAULKNER,D.J.
EDN	32	23	871112	193 WILLIAMS,J.
EDN	30	26	851128	284 RASMUSSEN,N.
MOEL	7	6	900600	68 DESPOSITO,J.
EDN	29	23	841115	307 WILLIAMS,J.
ELDE	33	8	850404	227 STRACHAR,E.
ELLE	26	1	900104	61 SELLA,A.
EDN	37	9	920423	102 WRIGHT,M.
ELEC	53	12	800522	143 SEVERNS,R.
INJO	61	3	860900	261 HINCHLIFFE,S.
RFDE	5	5	820900	30 APPEL,G.
M080	26	271	890700	34 YAHAGI,S.
JOPH	20	1	870100	80 CLARK,G.L.
ITPS	8	3	800900	160 RAMRUS,A.
MEBI	29	6	911100	624 EVANS,N.E.
ELDE	33	10	850502	147 SIDDIQUE,N.
WW	89	1567	830400	38 PIM,D.N.
OPLA	20	6	881200	301 WILLIS,R.J.
JOPH	17	10	841000	832 SUBHASH,N.
QST	66	9	820900	18 KALIN,E.B.
HAEL	2	2	840200	58 CAPESIUS,A.
HAEL	3	6	861100	82 WARD,D.A.
RESC	51	2	800200	216 MENYUK,N.
INJO	69	3	900900	403 KAMEL,A.M.
EDN	35	6	900315	184 ALLEN,C.
PE	7	1	900100	82 ELLIS,M.
RAEL	59	6	880600	71 GROSSBLATT,R.
BYTE	9	5	840500	495 CIARCIA,S.
MIMI	12	1	880100	40
ELEC	56	16	830811	132 WOELFLE,S.

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EDN	37	13	920618	135 HARRIS,M.
EDN	36	12	910606	176 BARNES,B.
EDN	34	8	890413	212 WEIDNER,A.
ELDE	32	15	840726	260 RAO,V.
JOPH	19	12	861200	1050 MOROS,A.
EDN	32	18	870903	241 MILLAR,J.
COEL	21	4	830400	91 MEYERLE,G.
EDN	30	7	850404	270 STANIASZCZYK,J.
ELEN	60	737	880500	26 KEHINDE,L.O.
ELMA	15	4	881200	333 MELLOR,P.H.
ANCH	53	7	810600	1118 BRESNAHAN,W.T.
EWWW	96	1650	900400	305 LAKSHMINARAYANAN,V
EDN	28	7	830331	201 PIERCE,R.
ELEC	53	10	800424	133 NIXON,J.H.
ELSC	6	3	800300	173 TRONTELJ,J.
CICE	0	26	920400	14 BUTLER,J.
JOPH	20	1	870100	100 MANGAMMA,G.
INJO	54	6	830600	913 WAHAB,A.A.
ELEC	51	15	780720	113 FORCE,G.
MIMI	8	9	841100	470 REDDY,M.P.
ITIE	36	1	890200	8 KHARE,M.R.
MIAP	11	3	880700	241 DESAI,B.T.
M129	33	5	891100	541 DHANABALAN,M.
AUEL	10	3	770300	29
IJPA	27	4	890400	153 LOKHRE,S.G.
EWWW	99	1687	930600	515 MAIDMENT,H.
RAEL	56	4	850400	51 PENCE,S.
BYTE	12	6	870600	187 CROOKE,A.W.
RAEL	54	3	830300	82 GROSSBLATT,R.
ELDE	38	18	900927	108 DUNN,J.
M026	252	1	911105	29 CALHOUN,R.K.
EEU	2	2	911200	36 RUFFELL,J.
RAEL	55	7	840700	76 GROSSBLATT,R.
ELDE	32	6	840322	167 WIDDOES,L.C.,JR
ELHA	0	0	861000	10 BURKS,L.
CAL	2	4	840400	241 CROOKES,J.N.
ELWI	93	1614	870400	407 HOGGETT,D.
JMET	7	2	830300	88 JACKSON,S.A.
ELWI	90	1578	840300	51 CUMMINS,K.
EDN	27	18	820915	65 LEGG,G.
AUAM	17	4	861000	29 MULLER,B.F.
BIJO	54	6	881200	995 TAKASHIMA,S.
AMJO	47	8	790800	751 DOTY,D.
BYTE	3	1	780100	86 BUMPOUS,R.
IJPA	27	4	890400	157 MAKHIJA,K.K.
ELDE	38	5	900308	111 NASS,R.
EWWW	96	1650	900400	302 MICHELE,F.
CICE	0	27	920600	50 DYBOWSKI,J.
JONE	12	4	850200	317 KEGEL,D.R.

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EDN	28	8	830414	170 NELSON,D.
M064	4	2	820400	142 BROWN,T.R.M.
EDN	34	17	890817	171 LUEKER,J.
MADE	57	1	850110	134 DUNN,W.F.
M076	4	3	840600	7 FURHT,B.
JOPH	15	3	820300	272 CALVERD,A.M.
RESC	54	11	831100	1582 JEWETT,D.
POEL	17	6	800600	64 MUELLER,F.
RESC	49	3	780300	356 BERGER,A.S.
ELDE	38	5	900308	89 MICHELE,F.
EWWW	96	1648	900200	140 YATES,D.
EDN	37	11	920521	168 DECKER,L.
HARA	21	2	880200	68 ORR,B.
ELDE	41	7	930401	53 BOLTON,C.
CQ	39	7	830700	18 RATE,E.
EDN	32	11	870528	195 ARGYROUDIS,P.
ELEN	55	677	830500	27 LEWIS,D.J.L.
HAEL	4	9	870900	32 FISCHER,C.R.
ITNS	34	4	870800	980 WADSWORTH,B.
WW	89	1568	830500	63 LABIB,G.A.M.
ELDE	38	14	900726	69 COFFMAN,K.
CICE	0	15	900600	12 CIARCIA,S.
EEU	2	2	911200	16 LUCASSEN,R.
PE	9	3	920300	47 PONTING,D.
PHTE	30	5	920500	275 CHAGNON,P.
7ART	0	397	931000	14 MILLER,E.C.
ELDE	39	15	910808	99 TOMPOROWSKI,S.
RAEL	54	12	831200	88 GROSSBLATT,R.
ELEN	58	717	860900	38 BLOOR,J.
HAEL	4	1	870100	51 DAWSON,C.
ELDE	32	24	841129	284 RAO,V.
ELEN	57	701	850500	47 WATSON,J.
ELEN	57	700	850400	42 TACCA,H.
ELTO	10	8	860800	38 ARMSTRONG,A.
EDN	31	18	860904	208 NICOLL,A.J.
ELEN	55	680	830800	27 WYNNE,H.T.
RESC	50	11	791100	1421 LYZENGA,G.A.
RAEL	60	11	891100	54 MARSTON,R.
ELSC	9	4	820400	243 BRADA,F.
ELEN	62	757	900100	34 GOU,Y.
CODE	20	9	810900	169 YAKOBOVITCH,S.
PE	8	5	910500	20 YACONO,J.J.
ELEC	53	12	800522	139 KARASZ,J.
EEU	2	2	911200	77 GIFFARD,T.
EEU	2	9	920700	66 GIESBERTS,T.
ELNO	64	2	930200	82 GROSSBLATT,R.
EDN	31	19	860918	320 JAYAPAL,R.
JOPH	19	11	861100	983 GUPTA,S.K.
ELEN	55	678	830600	26 NORTH,T.F.

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MEBI	19	6	811100	786 BURKE,D.J.
EDN	30	19	850822	203 BLACK,S.L.
MIMI	10	3	860400	161 WAHAB,A.A.
M008	8	4	880400	240 VOLGERS,R.
LAPR	30	1	810100	30 GIBBS,G.P.
DIDE	13	5	830500	47 BORRELL,J.
COCR	2	6	920600	40 AXELSON,J.
EWWW	99	1682	930100	76 WEINSTEIN,R.
JOPH	15	1	820100	44 HARDCASTLE,J.A.
ELDE	32	10	840517	250 DEROSA,J.H.
ELEC	50	17	770818	115 JORDAN,T.D.
ELEN	58	717	860900	34 PANG,T.
ELDE	31	11	830526	201 FORBES,M.
ELHA	0	0	861000	23
ELEN	57	701	850500	43 TACCA,H.
ELEN	55	678	830600	33 DUFFY, A.
MIMI	11	6	870700	301 VAN CAMPENHOUT,J.M
ELWI	90	1577	840200	35 COOK,D.F.
HAEL	5	9	880900	68 RAY,D.P.
EDN	34	9	890427	221 RAO,G.N.
ANIN	18	1	890100	53 GUANG-DONG,C.
RESC	60	11	891100	3552 VILJOEN,P.E.
ELDE	38	24	901227	54 BLACK,S.L.
AGEN	62	12	811200	24 STERMER,R.A.
ELEN	64	789	920900	36 BOUTSEN,J.M.J.
RAEL	55	11	841100	77 MARSTON,R.
ELDE	32	10	840517	251 BOZO,I.
ELTO	9	8	850800	35 HEANEY,L.
POEL	17	2	800200	96 RICHARD,J.D.
ELTO	9	2	850200	58 DOOLEY,P.
RAEL	58	1	870100	18
PHTE	23	4	850400	249 HOLTON,B.
POEL	19	7	810700	65 MARTIN,V.
QST	73	2	890200	43 NEWKIRK,D.
RESC	49	5	780500	654 FABRIS,G.
EEU	2	9	920700	33 LORENZ,K.H.
EWWW	97	1676	920700	589 XIA,Y.
QST	67	1	830100	47 BERGSTROM,T.A.
RAEL	59	9	880900	82 GROSSBLATT,R.
RESC	49	1	780100	94 MAGERLEIN,J.H.
ANCH	52	13	801100	2239 GLASS,T.W.
INCO	8	5	900900	203 STANLEY,H.D.
EEU	2	6	920400	38 NIGIM,K.A.
PE	10	6	930600	43 IOVINE,J.
RAEL	57	7	860700	84 GROSSBLATT,R.
FAJO	8	1	800100	9 ALFKE,P.
RAEL	57	9	860900	63 MARSTON,R.
EDN	32	10	870514	246 ROSS,S.
EDN	30	22	851003	201 MICHELE,F.

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EDN	29	7	840405	258 REYNOLDS,R.J.
EDN	28	15	830721	310 THOMAS,J.
ITNS	35	1	880200	586 BRESSANI,T.
JOPH	13	5	800500	562 JACKA,F.
RAEL	51	11	801100	47 BARBARELLO,J.
EDN	37	9	920423	184 VANDANA,J.
ELNO	64	3	930300	87 GROSSBLATT,R.
RAEL	57	1	860100	71 CARR,J.J.
ELDE	32	12	840614	322 BOHLMAN,E.
ITIM	34	4	851200	654 CHANDE,P.K.
RAEL	56	9	850900	96 GROSSBLATT,R.
EDN	31	17	860821	145 PEARSON,B.
HRH	4	5	800500	12 POWELL,K.
ELWI	90	1579	840400	4 CARSON,C.
EDN	28	23	831110	291 SMITH,H.J.
ITED	22	3	790800	145 ROEMER,R.B.
ETT	14	2	900200	20 BOWES,C.
WW	88	1555	820400	69 JONES,E.L.
EWWW	96	1652	900600	527 MARK,A.
M141	33	1	910900	21 SHEN,H.
RAEL	57	11	861100	49 KNIGHT,E.L.
ETI	7	3	830300	71 PEARCE,C.
RAEL	55	11	841100	88 GROSSBLATT,R.
RAEL	55	5	840500	42 GROSSBLATT,R.
ETI	4	5	800700	67 TILSLEY,P.F.
ELEN	56	696	841200	61 PARKER,J.
HAEL	2	6	851100	63 PATRICK,D.E.
RAEL	56	4	850400	84 GROSSBLATT,R.
POEL	15	3	790300	69 VANCURA,W.
ITIE	33	2	860500	162 CHANDE,P.K.
ELEN	57	703	850700	38 KEHINDE,L.O.
QST	71	12	871200	42 RUNNINGER,J.E.
MIMI	8	9	841100	488 WAHAB,A.A.
ITNS	31	5	841000	1028 CRITTENDEN,J.A.
EDN	33	25	881208	299 KHALSA,N.S.
ELDE	37	11	890525	53 BISHOP,L.
LAPR	33	2	840200	81 COFRE,P.
COED	0	0	840500	28 PANTREY,C.
BYTE	4	11	791100	14 CIARCIA,S.
ELDE	38	17	900913	89 ELIOPOULOS,E.
RAEL	61	12	901200	78 GROSSBLATT,R.
CICE	0	18	901200	32 MCDONOUGH,T.
RAEL	63	2	920200	12 BALSYS,A.
EEU	2	6	920400	54 WALRAVEN,K.
COCR	2	4	920400	14 AXELSON,J.
7ART	0	380	920500	26 MCCOY,M.E.
AMJO	61	3	930300	278 FLAHERTY,F.A.
ELNO	64	11	931100	64 LOVELOCK,P.A.
POEL	12	2	770800	48 SANDLER,J.

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AMJO	50	5	820500	406 WOLF,R.P.
RESC	55	6	840600	875 SINHA,D.N.
EWWW	97	1670	920100	58 LAKSHMINARAYANAN,V
M120	10	9	890900	68 WARNTJES,S.
RAEL	58	1	870100	65 CARR,J.J.
POEL	12	6	771200	66 TENNY,R.
EDN	31	25	861211	271 DAVIS,R.
POEL	11	4	770400	46 LANCASTER,D.
QST	66	5	820500	36 MCCLUNE,D.
ELDE	30	12	820610	234 STARCHER,M.R.
COEL	21	10	831000	79 TENNY,R.
MIMI	13	4	890500	245 DEEN,M.J.
CICE	0	30	921200	72 NISLEY,E.
ELEN	56	690	840600	33 PHILLIPS,G.J.
EDN	28	23	831110	305 DEVADOSS,J.
DIDE	10	2	800200	78 SER,L.N.
QST	68	8	840800	14 MCMULLEN,T.
HAEL	4	8	870800	95 FRENZEL,L.E.,JR.
NIMA	235	2	850401	383 RAOUL,J.-C.
ITCS	34	3	870300	240 MATSUMOTO,T.
M171	4	2	791200	181 HYNDMAN,R.D.
ELWI	92	1610	861200	42 GRIFFITHS,P.
LAPR	31	3	820300	213 AL-JORANI,T.K.
EDN	28	3	830203	133 FREEMAN,W.
LAPR	32	6	830600	80 BOTT,B.
APSP	37	6	831100	571 HIEFTJE,G.M.
ELEN	58	716	860800	28 SENGUPTA,R.N.
ELHA	0	0	861000	50
M093	15	11	831100	38 BAILEY,J.
LAPR	34	8	850800	64 BOTT,B.
ELTO	10	1	860100	9 WALKER,P.
NIM	217	1	831115	351 DISTELBRINK,J.H.J.
RESC	52	7	810700	1003 TAKAGI,Y.
ITIE	37	6	901200	584 BRAMANTI,M.
POEL	16	2	790800	54 ROGALSKI,M.
POEL	11	3	770300	63 WEISBECKER,J.
NIMA	240	2	851015	284 FESSLER,H.
ELEN	57	704	850800	33 WEBB,R.E.
AUAM	16	1	850100	7 RUCK,B.
PHED	24	1	890100	41 BISHOP,R.
BYTE	4	2	790200	162 CIARCIA,S.
MEBI	22	3	840500	212 GILTVEDT,J.
M039	59	3	860300	29 MARTINEZ,H.
AMJO	56	7	880700	622 KROMMINGA,A.J.
ITNS	37	3	900600	1348 CHILES,M.M.
RESC	61	10	901000	2855 HSIEH,C.L.
ELDE	31	13	830623	164 APTE,P.R.
ELEN	55	673	830100	25 BAINES,T.
RESC	49	8	780800	1211 CROWE,H.R.

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ELEN	63	770	910200	29 APPLEBAUM,M.
JOPH	14	4	810400	493 JASNY,J.
LAMI	5	2	860200	58 HUMPHREYS,E.
RESC	53	4	820400	509 ABULZAHAB,E.
AUAM	19	2	880500	34 NITIKMAN,S.
ELDE	32	4	840223	272 KATH,G.S.
EDN	36	3	910204	106 DIFFENDERFER,R.
NIMA	297	1	901115	183 BOWMAN,J.D.
JOPH	20	2	870200	196 HIRST,G.J.
INJO	58	1	850100	35 SCHMOLLA,W.
JMET	9	3	850500	123 COLLINS,A.D.
RESC	52	12	811200	1824 HONG,S.-P.
JOPH	14	5	810500	584 PASHLEY,M.D.
REW	0	0	841000	36 MARSTON,R.
POEL	16	2	790800	41 LEWART,C.
RESC	54	11	831100	1573 JANKA,K.
AMJO	55	1	870100	59 GUERCIO,G.
BYTE	4	2	790200	150 HSIAO,H.S.
80M2	0	50	840300	180 SNIDER,J.W.
RAEL	56	7	850700	72 GROSSBLATT,R.
ELEN	55	684	831200	28 MARSHALL,I.
EDN	33	17	880818	226 FRIEDMAN,B.
RESC	60	2	890200	261 BRAY,S.L.
NUIN	166	0	791100	133 LE FEVER,H.T.
ULTR	21	5	830900	226 HAUMSCHILD,D.J.
WW	89	1564	830100	65 HARVEY,E.D.
ELDE	31	2	830120	180 HILLENBRAND,W.
ITIM	37	3	880900	389 GHOSH,S.
ANCH	55	9	830800	1614 JUVET,R.S.,JR.
LAPR	31	1	820100	20 HILLS,D.A.
ITCE	34	3	880800	642 SUGAYAMA,S.
INJO	58	3	850300	497 SUNDARSINGH,V.P.
BYTE	13	9	880900	303 CIARCIA,S.
QST	61	6	770600	15 AVILLA,E.F.,JR.
ETT	13	9	890900	39 RIMMER,S.
ETT	13	10	891000	9 RIMMER,S.
HARA	19	12	861200	31 RAPPAPORT,T.S.
ELDE	27	4	790215	118 NGUYEN,T.V.
73AM	0	271	830400	20 LAWSON,J.
EDN	32	12	870611	205 HAGEMAN,S.
ELWI	92	1604	860600	49 RAHMAN,H.
EDN	31	17	860821	188 CONSTANTINESCU,C.
DIDE	10	3	800300	96 SHANKAR,S.
QST	66	5	820500	37 COOK,T.
AUAM	22	2	910400	62 LASZLO,S.
ELDE	39	14	910725	83 TRAPP,M.
BYTE	9	1	840100	362 WHEELER,L.
CICE	0	23	911000	60 WEBB,B.
COEL	21	10	831000	88 KERYAN,M.

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ESD	18	7	880700	32 VAUGHAN
IJPA	27	9	890900	578 PARANJPE,S.K.
NIMA	299	1	901220	298 JIANG,S.-H.
CICE	0	32	930300	44 GRUNDELL,J.
POEL	11	1	770100	37 STEBER,G.R.
RAEL	58	6	870600	58 SARNS,S.E.
CEE	33	3	890300	38
ELDE	37	16	890727	61 JOHARY,A.
RESC	48	5	770500	572 LONG,J.R.
EWWW	97	1674	920500	420 MISRA,R.N.
MIMI	7	9	831100	429 LEE,S.P.
EEU	2	2	911200	21 RUFFELL,J.
ELEC	50	15	770721	105 MCQUAID,J.H.
RESC	63	5	920500	3156 WHITE,G.O.
EDN	31	2	860123	208 SPOREA,D.G.
BYTE	8	1	830100	54 CIARCIA,S.
CQ	39	11	831100	72 MARRINER,E.
EDN	29	4	840223	297 WEBB,M.
HAEL	5	8	880800	70 AXELSON,J.
RAEL	61	6	900600	73 HANSLIP,M.
ELDE	31	21	831013	163 KARNAD,R.R.
DIDE	12	5	820500	32 GREEN,C.
80M2	0	77	860600	84 ALFORD,R.C.
IJEE	25	3	880700	235 HAQUE,S.E.
ANIN	17	4	880400	365 RAMALEY,L.
CE	13	1	890100	33 FRANKS,I.M.
COCR	3	11	931100	48 AXELSON,J.
EDN	33	16	880804	209 JAROSINSKI,T.
ELDE	36	24	881027	101 VIALLET,F.
RAEL	61	7	900700	8 MYERS,G.
EDN	38	10	930513	150 SWIFT,S.
EDN	29	18	840906	225 GLOBIG,J.
PE	6	8	890800	82 ELLIS,M.
80M2	0	50	840300	166 CALMETTES,S.Y.
PREV	0	0	780900	6
ESD	17	9	870900	18 WILSON,A.
EDN	30	10	850502	225 CAMERON,A.
RESC	48	10	771000	1298 KOBAYASHI,H.
EDN	37	3	920203	107 XIA,Y.
RESC	64	6	930600	1451 VATTULAINEN,J.
ELDE	30	8	820415	77 BAILEY,C.
RAEL	57	9	860900	74 ROBILLARD,M.J.
80M2	0	60	850100	120 ALFORD,R.C.
NIMA	261	3	871115	399 ASH,W.W.
BYTE	14	12	891100	417 GLASS,L.B.
ITIM	32	2	830600	337 SRI-JAYANTHA,M.
EVEL	15	11	861100	574 DE VAUX BALBIRNIE,
PHTE	25	3	870300	165 HANSON,R.J.
MEBI	19	3	810500	333 KELLY,J.F.D.

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ELDE	36	5	880303	114 SMITH,J.C.
CEA	1	3	861200	219 MILES,G.E.
ESD	19	9	890900	30 COOK
LAMI	8	3	890300	93 MYERS,J.
EWWW	98	1681	921200	1035
QST	66	9	820900	42 WOODWARD,G.
ITIM	39	5	901000	792 PRAGASAM,R.
MIAP	9	4	861000	319 RAVIKUMAR,C.
CODE	28	7	890401	96 WILSON,R.
ELDE	39	12	910627	40 BURSKY,D.
ELNO	63	7	920700	51 HATTEN,M.
ITCE	33	4	871100	551 QUEINNEC,O.
JOPH	14	7	810700	838 SMEETS,G.
HARA	23	3	900300	82 BEERS,Y.
RERE	20	1	830700	31 KAUZLARICH,J.J.
ELEC	49	20	760930	89 EDRINGTON,J.
AMJO	51	1	830100	28 BEHROOZI,F.
ITNS	36	1	890200	1084 DERENZO,S.E.
ELEN	62	766	901000	59 PARIANI,A.
QST	66	9	820900	43 ISLEY,C.T.
FAJO	8	1	800100	14 VAECHES,T.
ELDE	30	18	820902	195 BOUTIN,N.
ELTE	3	6	800600	25 NGUYEN,T.D.
ELEC	51	1	780105	158 CLARK,V.R.
ELEC	60	4	870219	88 MANUEL,T.
AMJO	47	5	790500	471 POWLETTE,J.L.
MADE	59	26	871112	167 YANIK,R.
ANCH	50	13	781100	1938 O'KEEFE,K.R.
M016	32	21	930720	3894 DAUTET,H.
ELEN	59	729	870900	27 FYATH,R.S.
ELDE	32	22	841031	263 ENGELBRECHT,R.
NIMA	228	2	850101	267 BINNIE,D.M.
EDN	30	1	850110	145 OSANN,B.
PHED	23	2	880300	123 JONES,R.
73AM	0	274	830700	64 SCHLEGEL,R.
7ART	0	371	910800	62 HOUGHTON,C.L.
RAEL	58	4	870400	76 GROSSBLATT,R.
JOPH	22	3	890300	178 BARTH,C.J.
RFDE	7	6	840900	40 PUCKETT,R.
NUIN	180	0	810200	7 KUTHY,A.
7ART	0	382	920700	62 HOUGHTON,C.L.
ELDE	33	22	850919	149 DE SA E SILVA,C
ITIM	38	3	890600	832 KARNAL,A.
ITIM	32	4	831200	513 MISHRA,R.N.
RESC	58	8	870800	1499 VALLASCAS,R.
ELDE	33	30	851226	142
ELTO	9	8	850800	34 GREEN,J.
80M2	0	40	830500	90 COLE,J.W.
JOPH	17	9	840900	765 VENKATASUBRAMA=

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ELWI	93	1617	870700	706 HARRISON,P.
PHED	22	6	871100	386 BAXTER,M.W.
ELEN	60	742	881000	12
JOPH	22	4	890400	230 BANERJEE,A.
M125	2	3	890700	10 CARL
EWWW	97	1662	910400	345 HOOD,J.L.
73AM	0	257	820200	104 DIJAK,J.
ELDE	35	1	870108	128 BURSKY,D.
NIMA	257	2	870615	321 MEDINA,J.
ELDE	30	1	820107	265 CHILDERS,J.
ELDE	28	19	800913	148 HOFFMAN,D.
ELDE	34	22	860918	138 SIDDIQUE,N.
ELEN	59	724	870400	46 WARD,B.K.
BYTE	7	1	820100	433 LEMMEN,S.
EWWW	96	1653	900700	612 COVINGTON,M.
80M1	0	17	810500	242 EGGER,F.
M003	7	4	870100	49 BUSH,J.
EEU	2	6	920400	48 OHSMANN,M.
ELWI	92	1606	860800	57 WILLIAMS,J.
EDN	30	20	850905	303 HARDWAY,J.
ETI	7	11	831100	12
BYTE	7	12	821200	372 BELICS,R.
RESC	53	10	821000	1586 TULIS,A.J.
SOSE	1	9	850400	88 KELTY,J.R.
BYTE	8	12	831200	556 KELLY,R.
ELEN	59	721	870100	22 ULLATE,L.G.
ELWI	91	1591	850500	55 WINDER,M.H.S.
ELEN	55	678	830600	11
ELEN	59	726	870600	28 FYATH,R.S.
MEBI	19	2	810300	179 PEPPER,M.G.
BYTE	6	1	810100	288 CIARCIA,S.
ANIN	16	2	870200	241 WILLIAMS,J.C.
NIMA	222	3	840501	528 TAKEUCHI,S.
POEL	19	12	811200	23 PRENTISS,S.
EDN	32	19	870917	250 JOHNSON,D.
IJEE	20	3	830400	101 PARSONS,D.J.
EDN	31	5	860306	205 GALLUZZI,P.
PHED	23	1	880100	57 HOLLAND,W.N.
BYTE	10	9	850900	247 BUCHHOLZ,C.
EDN	27	18	820915	189 RANEY,M.,JR.
JOPH	14	11	811100	1320 REES,D.
RESC	60	2	890200	222 BRUGE,F.
EUJO	10	2	890200	99 YEPEZ,H.N.N.
LAPR	30	1	810100	31 STOREY,J.G.
WW	88	1554	820300	59 MITCHELL,V.B.
M156	35	1	900200	1 MCNUTT,R.H.
M016	22	9	830501	1268 SMITH,L.S.
EDN	36	15	910718	198 MORRIS,D.R.
COCR	1	5	910800	65 MIMS,F.M.,III

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ELDE	40	7	920402	84 XIA, Y.
EUJO	13	3	920300	127 TUIJN, C.
M056	10	11	920700	29 VACELUKE, R.M.
CQ	38	10	821000	36 SCHULTZ, J.J.
MEBI	31	3	930500	257 HORCH, K.W.
LAMI	5	4	860400	61 MALINEK, V.
JOPH	13	10	801000	1053 BEACH, A.D.
RESC	51	9	800900	1275 HAWTHORNE, A.R.
ITED	32	2	890500	146 TSELES, D.I.
JOPH	15	6	820600	634 JUNG, G.
HAEL	2	3	850300	44 PENCE, S.
FAJO	5	6	771100	15 CHU, P.
ELDE	27	9	790426	100 KISS, A.A.
INJO	59	6	851200	735 HOBSON, L.
LAMI	3	4	840400	109 MALCOLME-LAWES,
JONE	9	1	830900	1 LEENDERTZ, J.
ITIE	32	4	851100	414 ICHIDA, H.
MEBI	22	3	840500	259 MCINTOSH, J.E.A.
COEL	21	9	830900	84 SHEEHAN, B.J.
PHED	18	6	831100	284 GORHAM, D.A.
ELTO	8	10	841000	22 BISHOP, O.
MIMI	11	3	870400	161 SANGUNNI, K.S.
JOPH	14	4	810400	426 FORNILI, S.L.
RESC	50	11	791100	1344 OSTERTAG, E.
RESC	51	5	800500	605 PRICE, G.L.
M112	78	3	860500	551 NCCAIG, T.N.
ETT	14	2	900200	8 RENAUD, D.
ANCH	52	1	800100	205 NICHOLS, C.S.
EPD	12	9	910900	23 MARCH, I.
ELAU	52	12	901200	84 MOORHOUSE, A.
EWWW	97	1674	920500	422 XIA, Y.
ELNO	63	7	920700	10 TRACEY, C.
EDN	37	24	921126	163 WEIJAND, K.
EDN	38	14	930708	122 FROST, J.
EUJO	4	0	830000	150 JUHASZ, A.
EDN	32	2	870122	242 KARNAD, R.
ELDE	27	18	790901	122 DEROSA, J.H.
ITCS	23	2	760200	100 ENDO, T.
PHTE	25	5	870500	303 PRIEST, J.
BYTE	7	1	820100	324 CISZEWSKI, K.J.
BYTE	6	9	810900	428 STETSON, R.J.
BYTE	6	4	810400	348 COMBS, R.J.
ELDE	35	23	871000	49 CLAWSON, H.
RAEL	57	3	860300	62 FLACK, J.
EDN	31	22	861030	204 DAVE, R.L.
EDN	30	25	851114	312 KARWOWSKI, M.
M047	1	1	871100	76 SUTTON, C.S.
ELWI	90	1579	840400	35 STOCCHINO, G.
EDN	27	20	821013	177 HARDING, R.

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MIMI	7	10	831200	475 CHALLENGER,P.
RESC	52	2	810200	304 ROTH,J.A.
RAEL	60	6	890600	61 TOUSIGNANT,D.
QEX	0	28	840600	3 VARNER,D.G.
AMJO	58	10	901000	936 WELDON,T.P.
7ART	0	365	910200	27 SPIES,K.
ELEN	64	786	920600	39 XIA,Y.
EDN	38	13	930624	152 XIA,Y.
COCR	3	7	930700	42 BILLWILLER,C.J.
ELEC	50	23	771110	117 MOERDIJK,M.C.W.
POEL	12	1	770700	75 MARKEGARD,D.
ELDE	31	22	831027	237 LUBS,S.
ELWI	92	1611	870100	36 FARRUGIA,R.
80M2	0	49	840200	200 ALFORD,R.C.
BYTE	4	3	790300	142 GIACOMO,P.
INJO	57	5	841100	767 BEG,M.S.
MEBI	22	1	840100	94 SMITH,R.E.
BYTE	6	5	810500	392 CIARCIA,S.
IJEE	22	4	851000	375 AHMAD,W.
ELEN	57	703	850700	30 POORNAIAH,D.V.
PHED	23	1	880100	32 PINGNET,B.
JEPT	8	1	810100	33 KADIS,J.L.
ELWI	90	1586	841200	72 VARKEY,G.
ELWI	90	1577	840200	24 RAY,A.G.
ITBE	35	5	880500	400 PRUETT,J.K.
EDN	28	5	830303	134 STOFKA,M.
ANCH	58	6	860500	1251 CARNEY,D.P.
EDN	27	16	820818	115 ZUMCHAK,E.M.
PHTE	26	7	881000	464 CONNOLLY,W.
RESC	52	6	810600	902 HENRY,R.W.
PHTE	27	5	890500	368 FOX,J.
JOCH	63	9	860900	803 VITZ,E.W.
QEX	0	81	881100	14 FRANCIS,T.
EWWW	95	1645	891100	1101 YOUNG,S.A.
NUIN	169	0	800200	601 MURPHY,J.A.
M089	6	6	891200	207 TURNER,R.
WW	88	1555	820400	75 ASBERY,J.H.
CICE	0	15	900600	12 BAKAY,C.
JOCH	59	12	821200	1067 MAZZA,R.J.
M013	15	11	831100	100 COMBS,R.J.
EWWW	97	1665	910800	673 XIA,Y.
CEEJ	11	4	861000	146 RAO,G.S.
RESC	50	2	790200	210 SMITH,J.R.
LAPR	30	12	811200	1228 WILLIAMS,G.I.
RESC	63	4	920400	2177 CORNETT,D.S.
EDN	37	10	920507	201 WILES,I.M.
ELEC	56	13	830630	152 SHANKER,A.B.
ELDE	32	19	840920	261 PICKVANCE,R.E.
ELDE	30	17	820819	173 COZER,C.

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HAEL	2	5	850500	58 FRENZEL,L.E.
POEL	14	2	780800	76 MIMS,F.M.
QST	68	4	840400	24 WILLIAMS,F.
KIMI	6	1	820100	110 NOETH,P.E.
POEL	18	4	801000	84 MCVEIGH,J.
ELTE	3	6	800600	20 WILLIAMS,A.
ELDE	35	7	870319	151 SMITH,D.E.
M038	232	1	750100	118 STONG,C.L.
RESC	56	10	851000	1962 ALBERT,H.J.
ELEN	55	677	830500	89 WARD,B.K.
EDN	31	18	860904	214 EMBLER,G.
ELEN	60	740	880800	20 O'DELL,G.
EDN	29	11	840531	207 BARNETT,T.
ELEN	60	739	880700	27 SKINNER,J.
RAEL	59	11	881100	59
MOEL	5	11	881100	16 AXELSON,J.
ELEN	60	744	881200	22 LOWNE,A.
ITED	30	2	870500	102 COMER,D.J.
PE	6	11	891100	79 YOUNG,R.A.
PE	7	7	900700	70 YOUNG,R.A.
PE	7	9	900900	72 YOUNG,R.A.
M043	8	9	890400	96 DISTEFANO,T.
PE	7	11	901100	71 YOUNG,R.A.
M002	16	182	901000	14 BOERDIJK,I.A.H.
PE	8	1	910100	72 YOUNG,R.A.
ITBE	29	10	821000	678 LAKE,R.B.
RESC	48	10	771000	1250 BERNARD,S.P.
EWWW	97	1669	911200	1052 BALASUBRAMANIAN,K.
EWWW	97	1671	920200	158 AYEL,A.
MIRF	31	8	920800	103 STASIK,E.L.
EDN	29	5	840308	248 FIVIAN,D.J.
M064	4	2	820400	113 JONES,D.P.
EWWW	99	1683	930200	156 XIA,Y.
CQ	39	4	830400	15 MARTIN,V.D.
ETI	7	2	830200	84 PEARSON,R.D.
POEL	18	1	800700	30 LOWERY,D.
REEP	11	5	801000	60 WINER,E.
ELDE	31	23	831110	207 BROWN,J.R.
PCW	6	5	830500	119 MAY,A.
BYTE	8	3	830300	310 SPITZER,C.
ELEN	57	708	851200	35 MUDD,L.D.
ELWI	91	1588	850200	42 BURD,N.
BYTE	7	6	820600	61 CIARCIA,S.
EDN	32	18	870903	242 TURING,A.
M003	8	3	871100	19 FARRIS,M.
ELDE	35	22	870917	75 GOODENOUGH,F.
ELEN	57	707	851100	44 BRICE,S.J.
ELEN	55	682	831000	31 GAUKRODGER,D.M.
EDN	30	17	850725	312 AHMAD,M.O.

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EDN	29	6	840322	254 JORDAN,T.
RAEL	59	6	880600	51
ELWI	90	1579	840400	54 GREAVES,D.J.
MOEL	5	6	880600	32 BEARD,B.B.
EDN	28	3	830203	161 MORRIS,A.
EDN	27	22	821110	173 LAKE,D.
RAEL	52	1	810100	51 GUPTON,J.A.,JR.
EDN	34	8	890413	181 GRACIE,P.D.
PHED	24	2	890300	112 JARVIS,W.H.
RESC	51	1	800100	74 BARISAS,B.G.
RAEL	61	1	900100	81 GROSSBLATT,R.
PE	7	4	900400	37 PENNER,J.
CICE	0	14	900400	15 MACARTHUR,J.
PE	7	12	901200	33 YACONO,J.
RAEL	62	1	910100	31 COLBY,C.
EDN	30	22	851003	204 ENGLE,J.L.
ELDE	33	1	850110	198 GOODENOUGH,F.
68MI	7	5	850500	43 CASNEUF,R.
ELWI	92	1599	860100	59 GREAVES,D.J.
ELEN	57	701	850500	36 APTE,P.R.
ELEN	57	700	850400	37 YORK,R.W.R.
BYTE	6	7	810700	136 SCALES,H.
NIM	214	2	830901	395 VANKOV,I.D.
AMJO	55	9	870900	853 CIHOLAS,M.E.
COEL	21	10	831000	66 CARLSTROM,R.
RAEL	59	1	880100	71 LANCASTER,D.
ELTO	9	2	850200	62 ZIELINSKI,S.
POEL	17	1	800100	81 MCVEIGH,J.
EDN	33	6	880317	202 JAYAPAL,R.
EDN	28	11	830526	193 CUSHMAN,R.H.
RAEL	52	2	810200	80 SAVAGE,E.
RESC	52	12	811200	1913 COHN,C.E.
ITCS	33	6	860600	636 HU,C.-H.J.
INJO	66	2	890200	263 BHAT,C.K.
MOEL	7	2	900200	36 RICHARDSON,M.P.
BYTE	3	2	780200	126 AMIOT,M.V.
NUIN	178	0	801200	277 LOVETT,A.
DIDE	11	3	810300	78 ZARNESCU,S.
JOMA	90	3	901200	600 TELLIER,C.
RESC	48	1	770100	18 OSTERTAG,E.
EWWW	97	1666	910900	753 XIA,Y.
COCH	15	2	910200	161 WINDSOR,M.W.
73AM	0	265	821000	10 CLOWER,P.
RAEL	55	9	840900	63 OATS,F.L.
CODI	1	6	841000	15 PIOTROWSKI,W.G.
ETI	7	2	830200	86 JONES,M.
ELDE	31	1	830106	328 RAO,V.
ITCE	31	2	850500	82 RAO,P.P.
ELEN	58	719	861100	39 SCRAGG,A.

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80M2	0	53	840600	28 GANTT,C.W.
RAEL	56	5	850500	49 BANAS,J.
80M1	0	27	820300	156 MCCLENAHAN,S.A.
68MI	4	12	821200	9 GOLDMAN,M.A.
RESC	55	6	840600	922 DIXON,A.E.
JOPH	17	11	841100	949 CHANDRA,M.M.
ITIE	34	2	870500	234 BASS,J.T.
INJO	56	5	840500	697 GREGARIO,J.A.
BYTE	5	12	801200	44 CIARCIA,S.
IJEE	21	3	840700	271 AHMAD,W.
RAEL	56	11	851100	8 LOCKWOOD,M.R.
73AM	0	328	880100	35 BAWN,W.,JR.
ANIN	16	4	870400	423 KENNY,J.E.
IJEE	25	3	880700	229 AHMAD,W.
IJEE	25	4	881000	321 AHMAD,W.
JOPH	13	3	800300	271 FORNILI,S.L.
RESC	51	3	800300	344 CHEN,S.-H.
RESC	60	9	890900	3072 PAUL,A.-L.
RESC	60	10	891000	3345 JELLISON,G.E.,JR.
RESC	50	3	790300	374 EDWARDS,J.G.
RESC	50	1	790100	131 BRION,H.G.
BYTE	5	1	800100	28 CIARCIA,S.
NIMA	289	1	900401	243 CORREIA,C.M.B.A.
ELEN	62	762	900600	41 RISCHMULLER,K.
M104	7	6	801200	644 INSANA,M.F.
ELEC	53	5	800228	156 BRAY,C.W.
CICE	0	36	930700	46 NISLEY,E.
ELEN	56	694	841000	42 SANKARANARAYANA
RESC	56	3	850300	385 FUQUA,W.L.,III
ELEC	51	18	780831	147 GREENLAND,D.J.
80M1	0	30	820600	374 MAILHOT,R.
POEL	20	8	820800	90 MIMS,F.M.
ANIN	15	4	860400	329 PENTARI,J.G.
EDN	32	7	870331	214 CONNOR,D.
EDN	32	10	870514	250 AZZAM,B.F.
HAEL	4	8	870800	92 WELS,B.G.
JMET	10	1	860100	21 PERKINS,W.J.
EDN	31	13	860626	225 JAIN,D.S.
EDN	30	25	851114	311 ABELL,E.
EDN	30	20	850905	306 LAKSHMINARAYANAN,V
ELDE	36	3	880204	89 BARRY,J.
EDN	29	12	840614	235 PATIL,V.L.
EDN	29	16	840809	199 KALISH,R.
EDN	28	21	831013	209 HANCOCK,J.
RESC	51	12	801200	1710 SALT,A.
EDN	34	22	891026	232 XIA,Y.
EWWW	95	1645	891100	1089 HALE,M.
EWWW	95	1645	891100	1098 GREAVES,D.J.
NUIN	140	0	770100	581 GINGERICH,R.R.

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EDN	36	4	910218	169 GHOSH,S.
ELEN	64	785	920500	30 MATEESCU,D.C.
ELEN	64	791	921100	38 GALLERANI,A.
POEL	17	4	800400	74 MIMS,F.M.
ELEC	49	14	760708	106 WITHROW,F.E.,III
ELEN	58	718	861000	41 WICKRAMASINGHE,Y.A
ELDE	31	22	831027	242 RAO,V.
ELDE	30	16	820805	220 RAO,V.
AMJO	55	7	870700	658 CRUMMETT,W.P.
ELWI	93	1601	860300	45 GOODWIN,L.P.
EDN	29	11	840531	208 BIRCA-GALATEANU,S.
APSP	37	2	830300	127 PAUL,D.W.
PE	7	11	901100	22 WELS,B.G.
WW	89	1566	830300	61 EVANS,S.J.
PHED	17	1	820100	40 BENWELL,R.
BUPR	18	1	810100	69 SHERRILL,N.D.
EWWW	95	1646	891200	1158 ROSE,P.S.
EWWW	96	1649	900300	218 CLARKE,C.C.
EWWW	97	1668	911100	918 XIA,Y.
ELDE	39	22	911121	94 ATKINS,D.
ELDE	28	22	801025	174 JAIN,D.S.
JOMA	61	1	850100	145 ARMITAGE,I.M.
KIMI	6	1	820100	72 BRADLEY,R.M.
ELEN	57	708	851200	31 JEV TIC,M.
MEBI	21	3	830500	270 KIKUCHI,Y.
BYTE	6	5	810500	102 KLINE,K.
M064	3	3	810700	244 COWAN,P.
IJMS	77	2	870916	241 CHATFIELD,D.A.
JOMA	89	2	900900	367 DYKSTRA,R.W.
RAEL	63	2	920200	65 BARBARELLO,J.J.
RESC	54	12	831200	1790 KYLE,T.G.
ELDE	31	24	831124	176 BAR-ON,J.
ELWI	92	1610	861200	75 ADAMS,J.H.
ELDE	31	2	830120	175 HU,D.K.
INJO	60	5	860500	571 FYATH,R.S.
ELDE	30	5	820304	125 BAIN,E.
BYTE	7	9	820900	520 KORBA,L.
RESC	58	1	870100	142 MATSUURA,K.
ETI	8	2	840200	68 SWANSON,J.N.
JONE	9	1	830900	35 AMARAL,D.G.
CODI	2	5	850500	8 HU,R.L.L.
EDN	31	17	860821	183 ECK,H.H.
EDN	32	25	871210	325 HEBERT,E.
HARA	14	10	811000	74 WOODHULL,A.S.
EDN	30	24	851031	252 MUTAGI,R.N.
EDN	30	22	851003	202 LUBS,S.
EDN	30	21	850919	246 ALMAZAN,L.M.
EDN	33	7	880331	195 SMITH,J.C.
EDN	28	19	830915	236 FOX,T.

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ELWI	90	1579	840400	34 EVANS,S.
EDN	33	11	880526	212 FRENCH,J.R.
EDN	33	11	880526	209 COHEN,I.
ELWI	90	1577	840200	70 IBRAHIM,D.
EDN	28	15	830721	311 MORRIS,J.
EDN	34	1	890105	201 GRACIE,P.D.
EDN	34	6	890316	186 GAGNON,J.M.
EDN	34	25	891207	260 JAIN,D.S.
BYTE	5	3	800300	142 WOODHULL,A.S.
ELEN	62	764	900800	18 AHMAD,W.
ELDE	30	2	820121	216 BECKHUSEN,F.K.
EDN	36	17	910819	156 VANDANA,J.
AGME	18	0	770000	81 DAY,W.
ELDE	40	2	920123	70 WYATT,M.A.
ELNO	63	7	920700	12 HOLLOWAY,T.
ELDE	40	17	920820	68 SIEBOTT,J.C.
ELNO	64	1	930100	83 GROSSBLATT,R.
EDN	37	25	921210	185 KASIMANI,B.
JOMA	99	3	921001	571 QUINE,R.W.
EWWW	99	1687	930600	515 XIA,Y.
ELHA	0	0	861000	20
IJSS	10	3	750600	161 DUFFY,W.T.
INJO	58	3	850300	521 ABDULLA,W.H.
CODI	2	8	850800	12 TULEJA,B.
ELEC	49	17	760819	111 SWIHART,D.A.
EDN	29	8	840419	285 WAKEMAN,L.
EDN	28	5	830303	133 HU,D.K.
EDN	27	24	821217	40 TRAVIS,B.
EDN	33	21	881013	225 RIDER,S.W.
73AM	0	270	830300	86 GRAF,C.R.
M120	10	9	890900	39 SAFAI,M.
CLEN	11	5	860900	349 SMITH,C.
IJPA	27	7	890700	393 NAGARAJAN,R.
ELTE	4	2	810200	22 TARKETT,D.
CICE	0	28	920800	58 CONKLING,C.R.,JR.
JOPH	16	6	830600	475 MEIER,M.
RESC	53	2	820200	210 KOSAI,K.
ELEN	58	712	860400	33 HENNAU,F.
ELEC	51	6	780316	147 VAN DREUMEL,W.H
ELWI	92	1610	861200	34
ELDE	31	2	830120	157 CAYTON,B.
ELWI	91	1592	850600	29 BUTT,N.
LAMI	4	1	850100	17 BROWN,M.A.
ELTO	10	7	860700	20 HANCOCK,N.
CODE	19	7	800700	97 GURD,J.
ELWI	91	1589	850300	61 GRIFFITHS,P.J.
MICO	7	3	830300	92 ROBILLARD,M.J.
BYTE	10	6	850600	108 LAWLER,J.
RESC	54	3	830300	291 GOTO,K.

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ELWI	92	1598	851200	28 PENNEFATHER-EVA
ELEN	57	702	850600	36 DARKO,M.
JEPT	11	4	840400	215 MILLECCHIA,R.
MEBI	21	1	830100	105 HAINES,J.
INJO	54	5	830500	695 DINIZ,P.S.R.
AMJO	54	10	861000	894 WESTERN,A.B.
NIM	215	3	831001	431 COOPER,P.N.
COEL	21	4	830400	50 ANDREWS,M.
PHED	18	2	830300	64 ISENBERG,C.
MIAP	10	1	870100	71 RAY,A.K.
MIAP	7	3	840300	203 EL-DHAHER,A.H.G.
MIAP	8	2	850400	97 LANGLEY,R.J.
73AM	0	273	830600	99 PIECHOCKI,A.J.
EDN	28	20	830929	209 CROW,R.F.
QST	70	9	860900	40 BLOOM,J.
EDN	29	19	840920	255 MICHAELS,S.R.
M080	25	261	880900	40 GOTOH,N.
JOPH	14	5	810500	602 PICKUP,C.P.
JOPH	13	12	801200	1347 DEVGAN,D.P.
RESC	52	1	810100	114 LYNK,E.T.
JOPH	22	3	890300	191 NATH,D.N.
M101	53	1	890100	299 MATULA,S.
LAPR	31	10	821000	998 WHITWORTH,T.G.
BYTE	3	3	780300	185 HOLMAN,F.S.,III
AMJO	57	11	891100	1051 TAYLOR,B.E.
ELDE	29	18	810903	204 CHANG,L.L.
MOEL	7	1	900100	7 MANGIERI,A.A.
EWWW	96	1651	900500	406 MIAH,K.
WW	89	1569	830600	67 THOMPSON,P.
ELDE	38	21	901108	135 JOHNSON,D.
PHED	25	6	901100	353 O'SULLIVAN,C.T.
WW	89	1565	830200	71 VINCENT,R.C.
JOMA	82	2	890400	347 DYKSTRA,R.W.
DIDE	13	4	830400	42 SJULSTAD,M.
NATE	0	0	900800	5 DENGLER,R.J.
ELWI	95	1640	890600	574 ASPLAND,G.J.
ELDE	39	6	910328	117 CUTHBERT,D.
EWWW	97	1662	910400	332 WILES,I.M.
RESC	62	5	910500	1234 BETTERMANN,H.
PE	8	8	910800	20 YACONO,J.J.
EEU	2	9	920700	14 RUITERS,J.
CQ	48	8	920800	106 MATH,I.
PHED	27	6	921100	333 VICTORIA,L.
ETI	7	10	831000	28 TODD,W.K.
EDN	30	17	850725	310 LETT,D.B.
ELMU	4	5	880500	31 SHEAR,D.
EDN	34	12	890608	207 KUETHER,R.
LAPR	33	8	840800	76 DARVELL,B.W.
ELCH	87	0	780000	165 AOYAGUI,S.

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NIMA	291	3	900601	577 ASNER,M.
WW	89	1568	830500	64 JAMES,M.
AMJO	59	7	910700	619 DREYER,K.
EEU	2	9	920700	66 RIETJENS,A.
MEBI	30	6	921100	665 BOLTON,M.P.
RESC	56	8	850800	1665 CORRIGAN,D.S.
73AM	0	291	841200	44 AVERY,M.
PHED	23	2	880300	116 BRIGGS,C.W.
CICE	1	6	881100	6 CIARCIA,S.
ITED	31	1	880200	45 MAISEL,J.E.
ITNS	37	5	901000	1571 SWAMINATHAN,K.
EWWW	97	1669	911200	1051 XIA,Y.
PHED	26	5	910900	318 RAMACHANDRAN,V.
QST	66	11	821100	49 HERB,J.
ELEN	59	722	870200	44 DHANARAJAN,J.
80M2	0	65	850600	90 ALFORD,R.C.
EDN	31	14	860710	262 WALCZAK,M.
ELCI	135	3	880600	116 SINGH,V.
AMJO	48	4	800400	317 LARSON,L.E.
ELWI	90	1581	840600	51 WAGNER,E.
BYTE	4	4	790400	247 BALTRUSH,M.A.
EDN	36	7	910328	69 MARKOWITZ,M.C.
HARA	23	1	900100	71 KING,D.
COCR	2	7	920700	44 EDWARDS,S.
ELDE	32	14	840712	201 HAGAN,C.
POEL	16	2	790800	60 MIMS,F.M.
RESC	56	7	850700	1377 SHELL,J.S.
EDN	31	25	861211	278 DART,A.
RAEL	60	8	890800	73 GROSSBLATT,R.
M125	3	2	900400	91 SPAETH,J.P.
ELDE	38	13	900712	73 TRUMP,B.C.
CODE	19	4	800400	200
EWWW	97	1663	910500	422 LAKSHMINARAYANAN,V
BYTE	5	10	801000	282 HARROD,D.A.
ETI	5	8	810800	39 MARSTON,R.
CODI	3	1	860100	8 HOLTZMAN,J.
EDN	33	16	880804	209 MCCAIN,R.E.
ELNO	63	10	921000	69 MARSTON,M.
EWWW	99	1687	930600	516 PALIHAWADANA,C.W.W
EDN	30	9	850418	255 PABOUCTSIDIS,C.
RAEL	54	2	830200	42 SWEENEY,D.J.
ELDE	30	16	820805	217 ROHELLA,R.S.
HARA	20	3	870300	93 MEAGHER,J.B.
QST	70	2	860200	16 ANDERSON,H.C.
POEL	12	6	771200	90 MIMS,F.M.
POEL	13	1	780100	67 MIMS,F.M.
HAEL	5	2	880200	84 WELS,B.G.
EDN	33	18	880901	201 ROBBINS,K.W.
ELDE	36	20	880908	112 JIMENEZ-GARCIA,R.

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RAEL	62	2	910200	16 HAYCOCK,A.
EDN	36	12	910606	184 CONSTANTINESCU,I.
ELDE	39	12	910627	101 SPEAROW,C.
RAEL	57	3	860300	32 ELLIS,J.
M035	3	1	830300	23 HAMILTON,J.A.
LAMI	5	2	860200	53 LOCKERBIE,N.A.
ELEN	55	683	831100	27 LEWIS,J.
MIMI	10	5	860600	258 CLEMENTS,A.
ELDE	38	11	900614	82 PRABHUNANDAN,B.N.
AGEN	62	9	810900	15 SEARCY,S.W.
EWWW	98	1679	921100	961 BRIDGEN,D.M.
RAEL	55	10	841000	32 VERIVE,J.
POEL	19	10	811000	118 MIMS,F.M.
POEL	20	9	820900	102 DESPOSITO,J.
MEBI	24	6	861100	659 KIMURA,M.
AUAM	15	3	840700	24 KRUEGER,A.B.
RAEL	61	5	900500	78 GROSSBLATT,R.
AMJO	48	1	800100	88 JAFFE,S.E.
RAEL	55	7	840700	43 OWEN,B.
ELEN	58	715	860700	27 EGGLETON,R.J.
ELEC	55	22	821103	118 HU,D.K.
POEL	12	1	770700	46 DEUTSCH,D.J.
CAL	2	1	840100	53 HAMBLOCH,H.
ELEN	57	701	850500	41 KAPPETIJN,H.
INJO	58	1	850100	111 HAFETH,B.A.
MEBI	19	6	811100	783 JONES,D.P.
73AM	0	264	820900	92 MAIRS,J.
QST	65	9	810900	43 GIBSON,R.
73AM	0	275	830800	64 HARDEN,J.R.
EDN	33	16	880804	214 JIMENEZ-G,R.
73AM	0	267	821200	14 BECKER,R.
ANCH	54	6	820500	907 MILLER,T.E.,JR.
MIMI	14	5	900600	306
MESC	2	11	911100	1113 ABDEL-SALAM,M.
MEIN	14	4	800700	229 KARLAN,M.S.
EWWW	99	1685	930400	322 WINDER,S.
RAEL	54	3	830300	80 SAVAGE,E.
ELMU	4	3	880300	47 METZ,M.
ELEN	60	735	880400	30 SKINNER,J.
ETT	14	3	900300	20 PERROW,M.
PE	7	6	900600	62 YOUNG,R.A.
PE	7	5	900500	76 YOUNG,R.A.
RAEL	62	11	911100	12 BERKEY,R.
CODI	1	5	840900	7 FRIEDMAN,H.
ELTE	3	2	800200	22 PINTO,R.
POEL	12	3	770900	76 BARBARELLO,J.
HAEL	3	1	860100	4
RAEL	53	12	821200	43 MCCLELLAN,G.
HAEL	4	7	870700	65 MANGIERI,A.A.

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EDN	30	5	850307	222 POINT,R.
EDN	30	4	850221	364 JAYAPAL,R.
73AM	0	272	830500	84 SMITH,W.P.
APSP	42	2	880200	277 HIEFTJE,G.M.
ETT	13	1	890100	54 BISHOP,O.
PE	6	5	890500	33 BALL,C.R.,JR.
RESC	50	5	790500	671 MATEY,J.R.
LAPR	31	12	821200	1170 LOCKSHIN,R.A.
PE	7	10	901000	70 GIAMPORTONE,M.
M014	17	1	860100	35 DI FLORE,A.
PE	8	11	911100	70
PE	10	4	930400	53 YACONO,J.
RAEL	56	4	850400	40 MANHICA,A.
POEL	20	5	820500	23 PRENTISS,S.
RESC	57	11	861100	2895 KAPLAN,A.
ELTO	8	10	841000	21 BISHOP,O.
ELWI	90	1586	841200	34 RICE,E.H.
HAEL	5	10	881000	35 RAKES,C.D.
LAMI	7	1	880100	13 CRANE,T.P.
ITNS	31	6	841200	1477 WICZER,J.J.
RAEL	60	7	890700	10
RAEL	61	11	901100	14 LABERDIE,J.
ELEN	64	791	921100	40 JINTIAN,X.
JOPH	16	4	830400	261 SUNDQVIST,B.
ELDE	30	17	820819	174 GUPTA,B.S.
EVEL	16	1	870100	59 BUKHARI,M.H.S.
ELTO	11	5	870500	24 BUKHARI,M.
EUJO	8	2	870200	93 KIRKUP,L.
EDN	28	20	830929	204 EICHENBERG,D.
EDN	33	12	880609	257 LYGOURAS,J.N.
EDN	28	21	831013	258 REYNOLDS,R.
AUEL	9	3	760300	35 DANCE,B.
ELEC	55	24	821130	113 RASH,C.E.
ELLE	22	12	860605	635 SANDLER,H.M.
ELWI	90	1585	841100	52 COOPER,C.W.
EDN	29	19	840920	281 BARNETT,T.G.
73AM	0	342	890300	98 MOELL,J.
JONE	29	1	890700	85 PARK,M.R.
ANCH	53	12	811000	1954 DOXTADER,M.M.
PHED	17	3	820500	128 SWEET,M.A.S.
EEU	1	11	910900	16 ZIPP,S.
CODE	19	10	801000	211
JEPT	8	3	810300	102 SWIHART,S.L.
EDN	28	7	830331	118 TRAVIS,B.
PE	6	2	890200	75 FRENZEL,L.E.,JR.
RAEL	60	10	891000	12 BLUMENTHAL,A.
RESC	61	12	901200	3716 VASSEGHI,K.
POEL	13	6	780600	88 LUNT,K.
ELDE	28	26	801220	104 KIEFER,R.

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RESC	52	12	811200	1876 MILLER,R.J.
TALA	34	8	870800	709 KAPLAN,D.
ELEC	53	11	800508	139 DE QUIEROS,J.S.C.
PE	8	12	911200	49
POEL	19	12	811200	94 MIMS,F.M.
RAEL	55	6	840600	39 MACADAM,W.K.
ELTO	11	5	870500	9 TOOLEY,M.
INJO	53	1	820700	91 MISRA,R.N.
EDN	29	22	841031	212 MILLAR,J.
EDN	30	10	850502	226 MALLONEE,G.
ELWI	94	1623	880100	64 RANDALL,B.A.
EDN	28	16	830804	186 BANFALVI,S.
LAPR	33	12	841200	69 ROSENTHAL,A.J.
CICE	0	11	891000	78 SNYDER,W.
LAPR	30	10	810900	997 EVANS,R.T.
CICE	0	12	891200	62 BACHIOCHI,J.
WW	89	1564	830100	32 BETTRIDGE,G.A.C.
M183	12	5	910500	464 KELLEY,K.A.
AJP	232	5	770500	534 WANTZELIUS,D.G.
ELNO	64	2	930200	16 BANKS,D.
ELNO	64	4	930400	18 GROSSBLATT,R.
HAEL	4	4	870400	61 GROSSBLATT,B.
EDN	30	16	850711	284 SIEGEL,A.
EUJO	9	1	880100	1 KIRKUP,L.
ITNS	30	6	831200	4311 LEUNG,P.
AMJO	57	6	890600	561 WISMAN,R.
PE	7	6	900600	23 WELS,B.G.
EWWW	96	1649	900300	213 YATES,D.
73AM	0	256	820100	40 ELWELL,H.G.,JR.
ELDE	41	6	930318	68 MOSTELLER,T.
RESC	53	9	820900	1449 STILES,K.R.
RAEL	54	8	830800	96 HOLMES,D.L.
ELDE	28	14	800705	134 RANDALL,M.R.
ELEC	51	15	780720	120 GAMMELL,P.M.
POEL	15	6	790600	68 WALMANN,B.
ELDE	31	15	830721	198 TRACA-DE-ALMEIDA,A
POEL	17	6	800600	76 MIMS,F.M.
POEL	20	7	820700	57 MORGAN,J.
ETI	7	8	830800	25 BISHOP,O.
VIRE	27	12	861200	1977 SCHAEFFEL,F.
IJEE	24	4	871000	325 LONGAIR,I.M.
RAEL	59	8	880800	80 GROSSBLATT,R.
EDN	33	14	880707	278 HWANG,S.-F.
RAEL	51	11	801100	80 PICARD,R.
AMJO	49	4	810400	374 WOLFSON,R.L.T.
PHED	24	4	890700	237 MCDONALD,P.J.
EDN	34	18	890901	151 GRACIE,P.D.
EDN	35	16	900802	136 KANNAN,N.
MEBI	18	0	801100	746 EPSTEIN,R.A.

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RAEL	62	6	910600	74 GROSSBLATT,R.
ELDE	39	21	911107	107 LAKSHMINARAYANAN,V
AGEN	58	1	770100	40 MITCHELL,B.W.
PE	9	3	920300	73 YACONO,J.J.
QST	71	7	870700	35 BUSSEN,B.
IJPA	25	7	870700	287 MULAY,N.N.
EDN	30	12	850530	225 BANFALVI,S.S.
EDN	29	21	841018	326 KAN,S.
ITIM	36	3	870900	763 KHAN,A.A.
M091	14	2	870400	109 SCHREIBER,J.
M166	158	2	861101	294 YOUNG,D.A.
MESC	3	3	920300	330 GALLOWAY,R.B.
ELEN	64	781	920100	30 GUARAGLIA,D.O.
73AM	0	348	890900	54 HOUGHTON,C.L.
ELDE	38	3	900208	33 NASS,R.
EDN	35	13	900621	268 PAYNE,E.
EDN	33	20	880929	200 LAKSHMINARAYANAN,V
73AM	0	369	910600	18 MELTON,J.
7ART	0	374	911100	85 KORZENKO,J.
ELDE	28	4	800215	109 ALFORD,C.
PE	8	4	910400	67 YOUNG,R.A.
RAEL	59	8	880800	91
RESC	51	3	800300	299 WOLPERT,L.
EDN	36	10	910509	182 NARASIMHAN,K.
ELEC	56	13	830630	155 PANOSH,R.L.
RESC	58	5	870500	878 VOJNOVIC,B.
ELEC	53	2	800117	136 HUMPHREY,T.
RAEL	54	12	831200	75 GREEN,B.
ANCH	58	13	861100	2859 BIXLER,J.W.
RERE	23	1	860100	139 BOOTHROYD,A.
7ART	0	380	920500	18 RAKES,C.D.
INJO	63	1	870700	55 SEN,S.N.
LAPR	34	11	851100	80 JEWSBURY,R.A.
ELDE	38	10	900524	95 BURSKY,D.
M043	8	10	890500	130 BENNETT,C.A.
NIMA	242	2	860101	179 CRAMETZ,A.
ELEC	49	8	760415	78
MEBI	27	2	890300	215 EVANS,N.E.
ELEC	49	17	760819	81 OLSCHEWSKI,B.
EDN	27	22	821110	180 OTTOLIA,O.
PE	7	7	900700	55 RAKES,C.D.
SCEL	21	3	810500	35 CARR,J.J.
BYTE	6	10	811000	318 CIARCIA,S.
QST	70	9	860900	27 HYDER,H.R.
MIMI	12	5	880600	271 GANDHI,S.
JOPH	14	1	810100	80 MACHATTIE,L.E.
EUMI	6	6	800600	369 LEVI,P.
WW	89	1565	830200	74 LOUGHLIN,T.
CICE	0	31	930200	62 CANTRELL,T.

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JOMA	67	2	860400	396 SHAKA,A.J.
JOPH	18	4	850400	266 SWANEPOEL,R.
EDN	32	9	870430	230 DE SA,L.S.
JEPT	7	1	800600	11 LAW,B.
M063	3	1	870100	22 LIM,T.S.
ELAU	52	12	901200	154 BAXTER,P.
CICE	0	30	921200	62 LINDGREN,R.
80M1	0	30	820600	229 WESTBROOK,D.
CICE	0	23	911000	46 STRAUSS,S.E.
EWWW	96	1654	900800	684 PAUL,J.
ELWI	91	1596	851000	42 CAVARRA,G.
EDN	34	13	890622	232 VANDIVER,J.C.
NIM	195	0	820400	513 KOBAYASHI,S.
RESC	63	11	921100	5435 YOUNG,M.S.
ELDE	36	9	880414	129 KOMANECKY,M.
ELDE	37	22	891026	79 MARGULIS,N.
QEX	0	86	890400	3 NEWLAND,P.
EUJO	9	1	880100	64 KIRKUP,L.
ELDE	28	8	800412	155 MATHEW,V.
73AM	0	325	871000	72 STONE,M.
EDN	33	2	880121	69 HAROLD,P.
BYTE	7	2	820200	365 FULLER,P.
ETI	7	5	830500	82 ADNITT,A.
MOEL	7	12	901200	46 VON PAWLAK,C.
ELWI	89	1574	831100	59 MILBURN,R.J.
ITNS	31	1	840200	230 SISKIND,E.J.
EDN	29	23	841115	346 EPPERSON,E.H.,JR.
EDN	32	1	870108	238 JIMINEZ,R.
M063	2	5	860900	29 LIM,T.S.
EDN	34	3	890202	190 RICCI,F.
QEX	0	54	860800	14 BORDEN,D.W.
DIDE	11	3	810300	76 WHITE,D.E.
M194	0	4	920900	10 BURNS,I.
ELDE	36	25	881110	83 HAYS,D.
CQ	40	4	840400	44 SOLOV,E.
ELEN	60	742	881000	34 JONES,H.
73AM	0	342	890300	66 KUBICHEK,D.R.
RAEL	60	5	890500	72 GROSSBLATT,R.
ELLE	25	22	891026	1469 MATYSTAK,L.
M070	27	3	830900	44 VELUSWAMY,S.
PHTE	29	8	911100	530 JEWETT,J.W.,JR.
ELEC	50	4	770217	102 WEISSBERGER,A.J.
WW	89	1564	830100	55 KRAUS,K.
CQ	38	10	821000	16 RUSSELL,S.E.
ITNS	32	1	850200	209 SISKIND,E.J.
CICE	0	10	890800	69 BACHIOCHI,J.
RAEL	60	10	891000	13 OLSON,G.
ELEN	61	756	891200	33 HILL,A.
WW	88	1555	820400	68 JAY,C.

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QST	68	2	840200	25 NEWLAND,P.
IJEE	28	2	910400	121 HO,P.T.
ELDE	28	2	800118	82 CARTER,C.N.
PE	9	7	920700	73 YACONO,J.J.
NIMA	247	1	860601	44 AGORITSAS,V.
REW	0	0	840600	18 MOORE,G.
ITPE	4	2	890400	279 CHATTOPADHYAY,A.K.
ELDE	36	14	880623	72 LEONARD,M.
QST	69	9	850900	44 PAGEL,P.
ELDE	32	14	840809	266 PERIANAYAGAM,K.
ELDE	33	14	850613	171 LINDEN,J.
COEL	20	12	821200	47 REESE,R.
ELDE	32	11	840531	243 SCHMITZ,N.
JOCH	62	1	850100	63 HUGHES,E.,JR.
WW	88	1555	820400	44 EWINS,A.J.
RESC	48	8	770800	1047 PACK,J.L.
RESC	62	11	911100	2684 HUMPHRIES,S.H.,JR.
EDN	31	1	860109	90 TITUS,J.
ELWI	92	1610	861200	101 MCARDLE,B.P.
HARA	14	10	811000	18 REID,F.S.
HARA	21	1	880100	75 CARR,J.
RAEL	59	8	880800	45 TUCKER,M.A.
ETT	14	3	900300	15 JACKSON,D.
ELEC	53	8	800410	142 RODRIGUEZ-IZQUIER=
EDN	38	19	930916	121 MCCARTHY,M.
WW	89	1568	830500	64 JONES,D.G.
ELDE	30	22	821028	151 COX,S.
EDN	31	12	860612	212 VAZACH,J.G.
MOEL	6	9	890900	28 MANGIERI,A.A.
WW	88	1555	820400	68 LYNE,F.T.
QEX	0	31	840900	3 STROHL,T.R.
ELWI	92	1610	861200	32
EDN	31	6	860320	227 ALESU,P.
ELEN	55	679	830700	36 EDWARDS,R.D.
EDN	33	5	880303	139 GHORMLEY,C.
MADE	54	16	820708	93 RAPP,E.
ELDE	31	24	831124	125 LOOK,H.W.
RESC	55	7	840700	1157 WHITING,D.
CICE	0	34	930500	12 BENZEL,J.
ELDE	31	17	830818	188 JONES,F.
DIDE	14	12	841200	80 LEHRBAUM,R.
EDN	35	21	901011	213 ORLANDO,R.
COEL	21	8	830800	22 SOLOMON,L.
ELDE	33	2	850124	207 BALIGA,S.
EDN	30	11	850516	228 KIRBY,S.
MOEL	7	4	900400	62 MIMS,F.M.,III
BYTE	5	8	800800	238 BENGLEN,T.
ELTO	9	9	850900	25 MUNRO,N.
ETI	7	9	830900	49

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CEE	31	5	870600	49 KAPLAN,H.B.
73AM	0	287	840800	46 ARNETT,W.
EDN	29	9	840503	330 GUSTIN,J.
HAEL	4	1	870100	33 PEARSON,R.L.
MICR	0	75	840900	44 TENNY,R.
80M2	0	36	830100	258 FISHER,D.C.
68MI	4	5	820500	24 PASS,E.M.
JEPT	11	3	840300	159 BROWN,P.B.
EDN	30	7	850404	274 JOHNS,I.R.
ELWI	90	1579	840400	35 SPICER,J.S.
EDN	27	19	820929	160 THORNTON,S.
ELDE	30	2	820121	215 PETRICK,A.A.,JR.
EWWW	97	1662	910400	320 HUTCHINGS,H.
ELNO	64	3	930300	33 METZ,R.
NIMA	295	1	901001	109 DE SOUZA,R.T.
CICE	0	33	930400	54 BACHIOCHI,J.
M030	28	6	830600	739 PROCTER,N.M.
MICO	6	3	820300	167 MCCORKLE,B.
ESD	17	8	870800	69 PRI-TAL,S.
EDN	29	16	840809	278 NELSON,D.
DIDE	10	5	800500	128
ITIM	40	1	910200	13 ZHANG,P.
EPD	12	10	911000	20 RYDER,A.D.
COCR	2	3	930300	32 AXELSON,J.
RAEL	53	3	820300	78 SCOTT,R.F.
73AM	0	282	840300	58 GRAF,C.R.
EDN	28	20	830929	153 BALIGA,B.J.
EDN	32	22	871029	189 RUTEL,S.
EDN	34	1	890105	204 TCHAMOV,N.T.
ELDE	27	8	790412	138 BRADLEY,B.
DIDE	16	6	860500	61 SCHOLHAMER,G.
JOEX	138	0	880900	541 MIALL,R.C.
HAEL	4	12	871200	93 RAKES,C.D.
RAEL	55	4	840400	96 SAVAGE,E.
HARA	20	10	871000	17 MANDELKERN,M.
ELWI	95	1640	890600	574 BERRY,I.W.
ELEN	58	718	861000	105 GILLINGS,B.
RAEL	61	10	901000	67 ZYMARIS,C.
7ART	0	376	920100	76 HOUGHTON,C.L.
ELDE	28	20	800927	147 DANCE,B.
HAEL	5	1	880100	36
MOEL	6	9	890900	68 DESPOSITO,J.
EDN	35	1	900104	135 GRADY,G.E.
MOEL	7	2	900200	62 DESPOSITO,J.
MOEL	5	6	880600	24 GRAF,R.F.
EEU	2	2	911200	84 SCHMID,S.
EEU	2	8	920600	14 RUFFELL,J.
ELDE	41	9	930503	101 SHERMAN,L.
JOPH	15	4	820400	421 BOYD,I.W.

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ELEC	50	8	770414	126 KUZDRALL,J.A.
EDN	32	2	870122	244 BRAACH,B.
FAJO	7	4	790700	24 VAECHES,T.
PHED	21	2	860300	86 DE BISSCHOP,F.
ELDE	35	10	870430	104 ALLEN,C.
INJO	52	6	820600	589 MATHUR,P.C.
RESC	50	8	790800	1025 PODOLSKE,J.
APSP	33	3	790500	240 RATZLAFF,K.L.
ELEC	52	17	790816	130 SMITHLINE,L.M.
COCR	2	8	920800	66 DESPOSITO,J.
CICE	0	34	930500	32 ERICKSON,D.
COCR	3	8	930800	72 DESPOSITO,J.
ELDE	35	12	870514	39 GOODENOUGH,F.
EDN	27	16	820818	147 KAPLAN,L.
ELDE	36	24	881027	137 SALERNO,C.
EDN	35	18	900903	171 SCHAFFER,G.
ANCH	52	14	801200	2445 CHENG,H.-Y.
EDN	37	9	920423	186 KIRSTEN,J.
EDN	37	22	921029	144 THURBER,C.
COCR	3	2	930200	27 AXELSON,J.
RESC	57	5	860500	914 KRUGER,A.
CEE	32	3	880400	86
RESC	50	3	790300	364 RICE,W.W.
ELDE	38	9	900510	104 HOSKINS,K.
EDN	35	13	900621	265 SPLITZ,D.
EWWW	97	1662	910400	315
EEU	1	11	910900	50 WONG,T.K.P.
ELEC	49	6	760318	121 DVORAK,N.
AMJO	51	9	830900	810 BUHR,W.
RAEL	56	11	851100	92 GROSSBLATT,R.
ELEN	55	676	830400	53 DIGNEFFE,H.
RESC	50	7	790700	856 SCHNEIDER,J.
EDN	34	10	890511	135 TRAVIS,B.
M111	30	1	880100	19 CHI,L.
RESC	49	9	780900	1351 SUROWIAK,Z.
M160	45	4	781000	644 JACKY,J.P.
EDN	36	6	910314	137 KIRSTEN,J.
EWWW	97	1672	920300	205 WHEELER,N.
COCR	3	6	930600	60 AXELSON,J.
ELDE	41	19	930916	112 PRASAD,S.J.
MIAP	8	3	850700	203 PANDE,V.N.
ELWI	90	1578	840300	36 EVERETT,R.
ITC1	39	4	920400	264 MURALI,K.
ELDE	40	16	920806	70 TOMASZ,M.
JOPH	18	11	851100	944 KRUGER,A.
ELEC	50	13	770623	129 ZANE,R.
RAEL	54	9	830900	59 YOUNG,F.L.,SR.
ITBE	30	4	830400	231 PEPPER,A.
RAEL	53	9	820900	22 DEAN,H.

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RESC	58	12	871200	2256 WEIS,J.
EDN	28	13	830623	97 NICHOLSON,B.
ITIM	37	2	880600	320 ABUELMA'ATTI,M.T.
ELEN	60	741	880900	57 HAQUE,Y.A.
ITIM	38	1	890200	59 TAHA,S.M.R.
MOEL	6	3	890300	48 CARR,J.J.
ELDE	37	22	891026	118 GOODENOUGH,F.
EDN	35	12	900607	134 THURBER,C.
EDN	33	20	880929	187 ATKINS,D.
WW	89	1566	830300	31 PURVES,R.D.
DIDE	10	2	800200	80 TIPONUT,V.
M002	17	190	910600	32 LUCASSEN,R.
TALA	40	1	930100	53 DASGUPTA,P.K.
EDN	33	3	880204	153 LITTLE,A.
ELEC	51	15	780720	123 GRYGERA,L.
CQ	40	1	840100	34 JAMES,R.E.
ITIM	31	1	820300	60 KAZOVSKY,L.G.
JONE	8	0	830800	105 PARK,M.R.
LAMI	4	3	850300	84 ROWLEY,A.G.
EDN	28	13	830623	286 STICKEL,K.
ELDE	36	16	880714	99 WITTLINGER,H.
RAEL	60	1	890100	65 BYBEE,J.
EWWW	95	1645	891100	1098 RAUNIAR,K.N.
CEA	4	1	890700	81 STRINGAM,B.
EDN	36	15	910718	194 SPEAROW,C.
ELDE	28	7	800329	111 HANISKO,J.C.P.
NIMA	324	3	930115	551 SHENHAV,N.J.
EDN	33	6	880317	167 POLANSKY,P.
HARA	15	3	820300	66 PAGEL,P.K.
M116	30	1	791100	34 THEODOSSIOU,L.
BYTE	5	10	801000	90 HALLGREN,R.C.
EDN	35	4	900215	187 SHERMAN,D.
DIDE	10	7	800700	80 SMALLWOOD,R.H.
CICE	0	19	910200	82 BACHIOCHI,J.
EDN	36	4	910218	186 SELLANI,G.
EEU	2	9	920700	60 PAAUWE,J.J.
FAJO	7	5	790900	25 LEWIS,D.
JONE	11	3	840800	169 HATZOPOULOS,A.
M052	6	1	880100	49 HARMAN,R.R.
M013	20	3	880300	21 BUNGAY,H.R.
INJO	66	4	890400	633 HIGASHIMURA,M.
RESC	60	8	890800	2750 BLANCHET,P.-F.
ELDE	37	22	891026	149 GOODENOUGH,F.
RESC	61	1	900100	23 MARCO,C.
EDN	35	22	901025	218 SHERMAN,D.
M150	24	0	790000	1 HOOPER,A.W.
EWWW	97	1660	910200	154
ELWI	95	1643	890900	910 CARRERAS,S.E.
ELEC	53	12	800522	158 KNOWLTON,D.

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EWWW	97	1673	920400	315 WILES,I.M.
JOMA	98	1	920601	92 BODEN,N.
COCR	3	7	930700	72 DESPOSITO,J.
ELWI	93	1607	861000	63 SEAR,L.
RESC	53	9	820900	1481 KEBEDJIEV,A.G.
ELEN	58	715	860700	30 BALL,K.
ELWI	93	1613	870300	299
EDN	32	5	870304	179 JONES,H.T.
EDN	32	14	870709	268 ASHENDEN,P.J.
ELEN	59	730	871000	43 SCHOFFER,G.
ELDE	37	20	890928	94 JACHOWSKI,M.
M126	0	148	891100	60 LAUDER,D.
NUIN	179	0	810100	313 ZIEGLER,A.
ANCH	52	8	800700	1179 HAEMMERLI,A.
EWWW	96	1656	901000	884 ABUELMA'ATTI,M.T.
EWWW	96	1657	901100	990 LANIGAN,W.
M142	38	4	910700	366 DRISCOLL,M.M.
EDN	38	19	930916	124 CHRZASZCZ,J.R.
ELDE	33	26	851114	175 ALLEN,C.
ELDE	30	19	820916	117 REGAN,T.
ELDE	30	22	821028	186 RAMESHU,C.
MEBI	21	6	831100	776 MCCLELLAN,A.D.
POEL	20	7	820700	61 DOOLITTLE,J.
EDN	33	4	880218	73 PRYCE,D.
INJO	64	4	880400	611 ABUELMA'ATTI,M.T.
EDN	33	9	880428	240 ADAMS,H.M.
AMJO	57	6	890600	543 MELTON,B.F.
ITCS	36	8	890800	1110 SINGH,V.
WW	88	1554	820300	60 KRAUS,K.
EDN	36	13	910620	161 STOENESCU,G.
ELDE	28	19	800913	111 ZUCH,E.L.
JOPH	15	5	820500	504 AROCA,C.
RESC	54	1	830100	80 CHORNIK,B.P.
MEBI	21	3	830500	382 ZIPP,P.
JOCH	64	2	870200	34 CUNNINGHAM,A.J.
ELDE	37	10	890511	63 GOODENOUGH,F.
73AM	0	351	891200	70 ELROD,P.W.
RESC	48	4	770400	407 KOBAYASI,S.
NATE	0	0	871000	10 KLEINBERG,L.
ITMA	27	2	910300	2665 VAN VECHTEN,D.
ELEN	63	776	910800	41 KIRSTEN,J.
ITIM	42	1	930200	30 CHEN,Y.
RAEL	58	2	870200	36 CIRIC,M.
EDN	32	7	870331	205 GALLUZZI,P.
EDN	34	4	890216	153 VAUGHN,A.
HARA	22	7	890700	78 CARR,J.J.
ANCH	54	11	820900	1893 KNIGHTON,W.B.
EWWW	96	1653	900700	612 DIVERALL,A.
ELDE	38	18	900927	105 NIEMAND,A.

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EWWW	97	1665	910800	684
EDN	37	4	920217	160 GRIMM,M.
EDN	37	18	920903	149 HAJJAR,T.
RESC	64	2	930200	481 LEE,S.-G.
RESC	57	8	860800	1683 HUTCHINSON,S.
ELEN	55	675	830300	29 TOMASSETTI,G.
REE	46	10	761000	463 HEWITT,S.J.
RESC	61	7	900700	1844 NEWBERY,S.M.
ANCH	52	12	801000	1842 GRIMSRUD,E.P.
M160	44	4	780400	619 DENO,N.S.
EDN	36	11	910523	165 GRADY,G.
RESC	48	6	770600	602 GREENE,F.M.
ELDE	41	11	930527	89 VARGHA,D.
RESC	53	6	820600	864 POPKIROV,G.
ELDE	32	5	840308	141 HARWARD,S.R.
RESC	56	12	851200	2328 HAGAR,W.G.
68MI	4	2	820200	24 JORDAN,J.K.
ELWI	92	1598	851200	28 PUNTER,R.
RAEL	56	12	851200	88 ROBILLARD,M.J.
ITBE	30	9	830900	615 SANDE,C.H.
ELCI	134	4	870800	158 SENANI,R.
ESD	17	9	870900	61 CORMIER,D.
INCI	1	10	831000	122 FAUGHN,J.
ANCH	55	11	830900	1731 GUTERMAN,H.
JOPH	14	9	810900	1048 POPKIROV,G.
RFDE	12	2	890200	126
INJO	66	4	890400	543 NETZER,Y.
ETT	13	7	890700	15 PENFOLD,R.
ETT	14	2	900200	12 BOWES,C.
ITIM	39	1	900200	251 DUNCAN,M.G.
AUEL	9	9	760900	29 DANCE,J.B.
RESC	61	3	900300	1131 WALKER,D.A.
M139	1	3	880300	169 YOSHIDA,S.
ELDE	30	1	820107	306 GRANDBOIS,G.
MEBI	18	5	800900	601 MACELLARI,V.
MBE	14	5	760900	532 ARNETT,D.
EWWW	97	1661	910300	205 CURTIS,S.
EDN	36	11	910523	166 MICHAEL,P.
ELDE	28	2	800118	114 HANISKO,J.C.P.
ELEC	53	2	800117	125 TALMOR,S.
EEU	2	2	911200	62 KOKATE,S.
RESC	62	12	911200	3082 BEY,P.P.
RFDE	15	3	920300	128 BIRD,J.
EDN	37	22	921029	139 XIA,Y.
EWWW	99	1687	930600	494
EDN	38	1	930107	102 SOUSA,J.I.
CICE	0	34	930500	54 BACHIOCHI,J.
CICE	0	32	930300	60 BACHIOCHI,J.
EDN	32	4	870219	171 SCOFIELD,G.

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ELEN	55	679	830700	66
POEL	17	6	800600	45 PRENTISS,S.
M106	136	4	890400	1011 SOARES,D.M.
MADE	58	4	860220	30 BRYSON,P.R.
M012	66	5	791100	1281 MITZ,A.R.
M166	181	1	890815	163 COLLASIUS,M.
RESC	48	7	770700	757 BORDONI,F.
EPD	12	9	910900	20 DOMSTEN,R.
ELDE	28	19	800913	127 OLSCHIEWSKI,B.
COCR	2	5	920500	78 DESPOSITO,J.
ELEN	63	778	911000	36 SHARROCK,P.
ELDE	40	11	920528	61 GUENTHER,E.
CQ	48	3	920300	42 BROWN,P.
COCR	2	3	930300	80 DESPOSITO,J.
EDN	38	10	930513	148 SHERMAN,L.
EDN	29	11	840531	210 DOWNS,D.
EDN	29	11	840531	175 KENT,C.
ANCH	57	1	850100	262 MILLER,T.E.,JR.
MIRF	25	10	861000	87 BAILEY,P.
CQ	39	6	830600	46 MARRINER,E.
ELDE	38	9	900510	63 BURSKY,D.
73AM	0	267	821200	153 JALET,T.S.
NIM	188	0	810900	463 EGGERT,K.
HARA	20	12	871200	49 CARR,J.
ITIM	38	4	890800	917 GYLES,C.
ELDE	33	2	850124	185 MCCULLOUGH,R.
PHED	23	2	880300	119 JARVIS,W.H.
73AM	0	275	830800	100 HENRY,V.
EDN	34	20	890928	168 VALENTINE,R.J.
CODE	29	11	900601	38 ANDREWS,W.
ELTO	9	12	851200	54 HOOD,J.L.
EDN	34	3	890202	199
MECO	23	1	890200	91
REW	0	0	830300	49 HASTINGS,N.V.
JOMA	47	3	820500	490 MCLACHLIN,L.A.
EDN	32	24	871126	61 PRYCE,D.
QEX	0	68	871000	5 KESTLELOOT,A.
ELDE	31	20	830929	262 KRAUS,K.
RAEL	58	3	870300	63 SHEETS,W.
EDN	30	25	851114	314 WISE,S.A.
BYTE	2	11	771100	166 TROLLOPE,G.A.R.
ELDE	40	5	920305	78 HAGEMAN,S.C.
EEU	2	9	920700	65 WALRAVEN,K.
ELDE	40	23	921112	76 KHALSA,N.S.
ELDE	41	14	930708	43 GOODENOUGH,F.
BYTE	9	2	840200	444 CIARCIA,S.
EWWW	96	1652	900600	534
EDN	32	3	870205	187 HYDE,D.D.
73AM	0	263	820800	60 GIBSON,S.

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ELDE	28	14	800705	143
REW	0	0	840600	54
PE	9	12	921200	68 RAKES,C.D.
EEU	2	2	911200	29 WALTERS,K.
ELEN	57	697	850100	41 PATTISON,A.
CICE	0	21	910600	90 CANTRELL,T.
ELDE	32	18	840906	249 VALLEY,R.
ELTO	10	12	861200	26 ARMSTRONG,A.
ELDE	31	22	831027	167 THOMSEN,G.
ELDE	30	21	821014	244 KLEIN,W.P.
ELEN	59	722	870200	44 BAXENDALE,J.E.
ELTO	10	9	860900	44 LEFARO,J.
ELEN	56	687	840300	53 DANBURY,T.
NIMA	241	1	851115	215 LIEBER,A.J.
ELEN	55	674	830200	37 CATTO,C.J.D.
BYTE	7	1	820100	72 CIARCIA,S.
EDN	32	23	871112	289 HELFRICK,A.
ELEN	57	705	850900	26 CUNNINGHAM,C.
PHED	23	5	880900	291 PEARCE,J.M.
CODE	29	17	900901	101 WOPPMAN,G.
ELDE	39	4	910228	81 NAGARAJ,M.S.
RFDE	14	4	910400	72 GRANBERG,H.
EWWW	97	1667	911000	858 MARINS,E.R.
EDN	37	4	920217	47 CHENDVANKAR,S.R.
ELDE	40	8	920416	104 O'DELL,R.W.
EEU	2	9	920700	64 BARTELT,G.
73AM	0	259	820400	28 JOHNSON,B.
MIMI	7	9	831100	435 TWOMEY,P.
EWWW	96	1651	900500	406 DAVIS,R.
COCR	1	8	911100	14 GOSS,N.
ELWI	91	1596	851000	43 ROBERTSON,M.
JOPH	19	11	861100	923 FEELEY,C.M.
ELWI	93	1613	870300	297
AMJO	55	2	870200	185 REDDY,B.R.
RESC	58	12	871200	2324 UMEAGUKWU,C.I.
ANCH	56	4	840400	678 LAVY-FEDER,A.
PE	7	3	900300	46 CARR,J.J.
ELDE	29	12	810611	221 MORALES,A.J.
ELMA	18	6	901100	449 MUKHOPADHYAY,A.K.
ELEC	53	4	800214	127 BURCKLE,R.A.
JOPH	17	6	840600	429 WILLIAMS,P.
QST	62	10	781000	37 CONLEY,H.R.
HAEL	3	4	860700	78 KEKER,J.
M022	63	5	870500	36 EHRENFRIED,M.
RAEL	53	2	820200	59 LARRATT,R.
RCM	14	11	771100	82 ODDINO,J.
PHED	18	6	831100	262 MARTIN,P.
EDN	31	9	860501	266 STROM,S.
EDN	30	25	851114	259 ARTUSI,D.

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EDN	33	2	880121	127	DEMLER,M.J.
ANCH	57	12	851000	2414	WITHNELL,R.
ELDE	38	6	900322	106	HAGEMAN,S.C.
EDN	36	18	910902	164	JAYAPAL,R.
COCR	1	8	911100	26	AXELSON,J.
ELWI	93	1607	861000	63	GOODMAN,D.
RESC	53	5	820500	662	MIGLIORI,A.
ETI	7	7	830700	74	RICE,Q.
ELWI	94	1626	880400	345	BENTON,N.
EDN	33	12	880609	272	
EDN	35	3	900201	139	KOLJONEN,T.
EEU	1	11	910900	48	WHITEHEAD,C.C.
RAEL	63	1	920100	43	PLANT,D.
NIMA	311	1	920101	156	ALEXOPOULOS,T.
ITNS	39	5	921000	1311	TURKO,B.T.
ELDE	41	1	930107	116	MCNATT,M.
EWWW	99	1687	930600	495	
JOAU	33	4	850400	234	ADKINS,J.M.
ELEN	55	684	831200	32	BOWLES,B.A.
EDN	33	3	880204	189	ANDREYCAK,W.
EDN	34	4	890216	156	ROCKERMANN,B.
ELEC	55	12	820616	138	WATSON,D.
BYTE	8	2	830200	378	CAMERON,J.
HARA	21	1	880100	10	HILDRETH,D.E.
EWWW	96	1654	900800	684	CHADWICH,A.
EDN	36	2	910121	154	THURBER,C.
ITIM	28	2	790600	132	HASLETT,J.W.
BYTE	8	10	831000	67	CIARCIA,S.
POEL	19	2	810200	65	BARBARELLO,J.
EDN	30	18	850808	236	EVANS,S.R.
MIMI	9	8	851000	394	OMOTAYO,O.R.
73AM	0	271	830400	84	RIDDLE,L.
ELEC	55	18	820908	164	KALYANARAMUDU,U.K.
JOCH	57	4	800400	125	STOCK,J.T.
ELWI	89	1574	831100	70	BARTH,A.
RAEL	62	9	910900	47	MIGA,D.T.
PE	8	9	910900	63	YACONO,J.
PE	8	12	911200	17	YACONO,J.J.
COCR	2	6	920600	47	O'CONNELL,J.
COCR	2	7	920700	46	GOSS,N.
HARA	22	3	890300	35	MEASURES,R.L.
ELDE	38	6	900322	106	CONWAY,P.
RAEL	55	11	841100	60	MCLELLAN,G.
AMJO	53	5	850500	409	KNUDSEN,A.W.
EUJO	6	3	850300	134	TANG,S.H.
RAEL	56	3	850300	67	TRIETLEY,H.L.
CODE	19	3	800300	152	SNYDER,R.A.
RAEL	53	11	821100	75	SCOTT,R.F.
NIMA	261	3	871115	533	O'SULLIVAN,C.T.

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EDN	33	1	880107	55 PRYCE,D.
EDN	29	6	840322	177 MAGILL,J.
EDN	34	19	890914	167 DAHLIN,T.
COEL	20	11	821100	42 DAHLBY,R.
AUEL	10	4	770400	21 DANCE,J.B.
ELDE	29	12	810611	160 MCLEOD,J.
ELDE	39	8	910425	71 GASS,C.
ELEN	59	721	870100	25 AHMAD,W.
68MI	6	4	840400	31
68MI	6	11	841100	26 CRAIG,J.M.
ELEN	57	697	850100	35 AHMAD,W.
ANIN	13	1	840100	55 PATTERSON,W.I.
ELEN	55	676	830400	33 JON,D.
RAEL	53	2	820200	50 WEINSTEIN,M.B.
RESC	58	9	870900	1764 CHU,P.
ANCH	58	3	860300	643 KING,E.E.
JOCH	64	4	870400	380 ALZABET,H.R.
ETT	13	12	891200	16 BOWES,C.
BYTE	6	6	810600	110 GIBSON,J.
BYTE	5	2	800200	72 GIBSON,J.H.
ELDE	38	6	900322	105 CORNELIUS,P.
MADE	59	13	870611	122 BABIN,D.
TALA	30	9	830900	687 VELINOV,G.
NIMA	301	1	910215	109 NAGASAKA,Y.
ELEN	63	780	911200	30 YATES,D.
ELNO	64	1	930100	43 LASSO,J.
CICE	0	31	930200	56 BACHIOCHI,J.
ELDE	32	18	840906	272 MORGAN,D.
ELDE	27	17	790816	98 CHRYSSIS,G.
RESC	55	5	840500	808 BENASSI,R.
HAEL	4	12	871200	98 WELS,B.G.
ELWI	92	1603	860500	34 SHAW,J.
HAEL	5	2	880200	40 RAKES,C.D.
ITIA	23	6	871100	1094 GIBBON,G.J.
EDN	33	9	880428	225 THORSELL,L.
ITIM	38	3	890600	779 SHIMIZU,K.
RESC	49	12	781200	1670 CATHEY,L.
BYTE	3	3	780300	174 OLSON,H.
BYTE	2	9	770900	30 CIARCIA,S.
JOCH	67	8	900800	712 YARNITZKY,C.N.
ELDE	38	21	901108	135 STASICKI,B.
CODE	21	3	820300	81 RUSSELL,M.J.
CODE	21	3	820300	183 ARORA,S.
PE	8	9	910900	18 YACONO,J.J.
ELEC	53	8	800410	126 ABRAMS,D.
ELAU	52	12	901200	85 BULENDA,O.
EDN	37	2	920120	87 SWAGER,A.W.
ELWI	93	1607	861000	31 CAMERONI,G.
ELDE	32	22	841031	322 MORGAN,D.

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ELEN	56	690	840600	35	CATTO,C.J.D.
QST	65	10	811000	25	MAZAR,S.
ELEN	57	704	850800	30	RADHAKRISHNAN,L.M.
EDN	33	4	880218	169	WAUGH,T.
SOMA	1	3	861000	38	YAMAMOTO,T.
INJO	66	3	890300	355	MAHMOOD,M.K.
DIDE	14	6	840600	140	ARTUSI,D.
NIM	200	0	820900	219	BARRELET,E.
EDN	35	22	901025	222	LACKMANN,R.
ELEC	55	3	820210	141	NOWOTNY,R.
RAEL	53	5	820500	103	DIGHERA,L.
MEBI	24	2	860300	203	LOVELY,D.F.
EDN	30	15	850627	241	CRUM,S.
ELWI	90	1578	840300	29	READ,D.C.A.
EDN	34	10	890511	197	HAGEMAN,S.C.
WW	89	1566	830300	62	SKIRROW,P.J.
ANCH	58	13	841100	2594	COTTER,R.J.
RESC	53	5	820500	656	DANTON,J.-C.
WORL	16	3	860900	24	MACASSEY,J.
ELDE	32	1	840112	419	GOODHART,J.
QST	66	11	821100	52	SCHELLENBACH,R.
ELWI	93	1614	870400	394	WATSON,W.
HARA	20	4	870400	63	DOBRICIC,D.
ELDE	33	7	850321	187	ALBERKRACK,J.
EDN	32	13	870625	274	ADCOCK,R.L.
HARA	15	4	820400	12	MERRY,F.J.
HARA	15	3	820300	30	ROHDE,U.L.
EDN	33	4	880218	199	NAUFEL,N.
EDN	29	10	840517	161	FRITZ,G.
EDN	28	2	830120	200	TRAN,H.T.
JOCH	62	8	850800	687	VERBEEK,A.A.
M124	14	3	890800	231	LARNEY,F.J.
ELDE	37	24	891123	104	KHALSA,N.S.
BYTE	5	1	800100	74	WIERENGA,T.
EDN	35	11	900524	176	BARNES,B.
ELEN	62	767	901100	26	GILL,P.
EDN	27	2	820120	131	SCHERER,V.A.
ELDE	39	4	910228	82	SPREITZHOFER,R.
EWWW	97	1662	910400	318	
EDN	36	20	911001	136	THEOBALD,S.
EDN	38	10	930513	147	HADLEY,M.R.
QST	67	1	830100	30	GRANBERG,H.
HAEL	4	3	870300	96	RAKES,C.D.
ELEN	55	675	830300	134	PHILLIPS,P.E.
ELEN	55	680	830800	25	MARSHALL,C.
EDN	30	13	850613	163	LOWNDES,M.
RAEL	60	8	890800	33	SIMONTON,J.
EDN	35	11	900524	178	PATTERSON,T.
RESC	57	8	860800	1627	VERDINI,P.G.

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ELEC	55	7	820407	151 WATSON,D.
ELDE	31	16	830804	168 MIDGETTE,W.H.
QST	61	5	770500	38 MORETTI,C.F.C.
ELEC	48	20	751002	118 LONGACRE,A.,JR.
HAEL	2	3	850300	65 SCOTT,R.F.
ELDE	27	18	790901	100 BONEY,J.
ITBE	32	12	851200	1061 TAMAS,M.J.
RAEL	58	18	871000	104 HOLTKE,E.J.
MOEL	5	3	880300	40 CARISTI,A.J.
ELEC	48	24	751127	120 FICHTENBAUM,M.L.
EDN	33	7	880331	169 DE SA E SILVA,C.
EDN	28	4	830217	256 ARTUSI,D.
73AM	0	335	880800	54 ROBERTS,M.
MEBI	27	3	890500	325 TREMEWAN,R.N.
M121	3	1	850200	27 REDDY,B.R.
EDN	34	20	890928	170 BARNES,B.
CQ	45	12	891200	48 MCCOY,L.
RESC	50	1	790100	109 JOHNSON,G.E.
RESC	48	12	771200	1583 BORG,L.
MADE	60	15	880623	100 FRANK,R.
73AM	0	359	900800	82 SPIES,K.
RESC	61	8	900800	2080 KASAP,S.O.
M014	16	3	850500	5 GONZALES,D.R.
ELDE	38	24	901227	61 KNIPPER,G.
EWWW	95	1646	891200	1162
RESC	48	6	770600	661 ADDUCI,D.J.
COCR	1	6	910900	36 GOSS,N.
JOCH	68	8	910800	670 VICTORIA,L.
RCM	28	12	911200	240 UTASI,J.
ELEN	64	785	920500	34 MANOV,T.
73AM	0	265	821000	34 PAPAS,C.T.
HAEL	4	4	870400	26 KNIGHT,M.
EDN	28	15	830721	309 DRUBY,T.
PE	10	9	930900	82 CARR,J.J.
M035	8	3	880900	159 FULCHER,J.
M026	222	2	890715	379 REIS,B.F.
M165	31	2	910200	183 LAROCHELLE,V.
CODI	1	4	840800	12 BYERS,T.J.
ELDE	32	1	840112	407 JELEMENSKY,J.
VIRE	27	1	870100	41 BON,L.
JOPH	13	11	801100	1227 VINCENT,A.
LAPR	35	12	861200	87 EVANS,N.E.
MADE	60	18	880811	131 BABIN,D.
WW	89	1567	830400	50 HOMERSTONE,R.D.
JONE	32	2	900500	155 RIAL,R.
ELEC	53	11	800508	137 HUNG,L.Y.
EWWW	97	1668	911100	949
ELAU	52	12	901200	86 EVANS,R.
CQ	48	5	920500	68 ROGERS,B.

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EWWW	98	1681	921200	1015 NICKLIN,D.
EDN	30	27	851212	261 SHERMAN,L.
ELDE	39	8	910425	74 VILLANUCCI,R.S.
ELDE	40	25	921203	65 GOLLER,R.T.
ELDE	32	22	841031	227 SHERMAN,L.
ELDE	26	20	780927	68 TIMKO,M.P.
ELEN	55	683	831100	193
M079	22	1	880100	25
ELWI	95	1642	890800	820
73AM	0	318	870300	34 HENKEL,M.
PE	9	11	921100	75 YACONO,J.J.
ELDE	33	19	850815	117 CROTEAU,J.
RESC	56	9	850900	1740 PAWLISZYN,J.
RESC	58	11	871100	2010 PARK,S.-I.
ELDE	36	4	880218	119 HAIGH,G.
JOPH	21	3	880300	268 SPRUCE,G.
MIMI	8	5	840600	230 DOWSING,R.
ANCH	56	14	841200	2735 WILLIAMS,J.C.
EDN	27	20	821013	180 WURCER,S.
RAEL	52	11	811100	90 GRIGGS,J.
MIMI	12	10	881200	585 WYLAND,D.C.
ITMA	24	2	880300	950 KUCHNIR,M.
EDN	35	1	900104	101 KESTER,W.
NUIN	174	0	800800	401 NAKAGAWA,H.
NUIN	180	0	810200	17 KUTHY,A.
M002	16	182	901000	41 ZANTIS,F.P.
JOMA	45	2	811100	229 METZ,K.R.
CEA	5	3	901200	213 RUMMER,D.I.
RERE	21	2	840700	46 JAEGER,R.J.
ELDE	39	23	911205	114 GERSTENHABER,M.
PHED	27	2	920300	116 JENKINS,T.E.
AMJO	60	11	921100	1047 FUNDAUN,I.
ELEN	64	790	921000	42 JUN,L.
ELNO	64	7	930700	65 CARR,J.J.
ELNO	64	11	931100	40 JACKSON,R.M.
ELDE	28	23	801108	123 PRAZAK,P.R.
AMJO	50	7	820700	667 MILDEBRATH,M.
JOPH	14	12	811200	1394 FORNILI,S.L.
EDN	32	5	870304	184 LUBS,S.
ITIM	36	1	870300	87 YANG,J.-R.
MEBI	25	1	870100	107 KLINKENBERG-KNOL,E
JEMT	7	2	830300	96 HORSEMAN,P.R.
ELEN	57	704	850800	30 JORDAN,P.
ELEC	55	5	820310	152 MARTIN,V.D.
EDN	28	14	830707	308 THOMPSON,B.
COCH	13	1	890100	89 LEW,S.Q.
RESC	52	1	810100	105 ASHWORTH,H.A.
CLEN	9	4	841000	325 IMPERIALE,C.
ANCH	53	2	810200	280 RITTER,A.W.

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MESC	1	7	900700	647 PUVVADA,R.
EDN	35	15	900719	188 THURBER,C.
RAEL	61	10	901000	37 FLEISCHER,J.
PHED	17	3	820500	139 KIRKMAN,J.
JOPH	18	5	850500	430 MEYER,J.J.
PCTE	4	6	860600	47 MILLER,E.M.
RAEL	59	9	880900	68 LANCASTER,D.
JOPH	14	5	810500	597 FROST,M.T.
M002	13	141	870100	20 V. TERBORGH,J.
ELDE	37	10	890511	117 SPEAROW,C.
ELDE	37	15	890713	67 EIDSON,S.
EDN	34	25	891207	112 PRYCE,D.
BYTE	2	11	771100	72 SNEED,J.R.
ELEC	53	6	800313	124 PAUL,L.D.
RESC	62	11	911100	2810 KASAL,M.
RAEL	55	5	840500	96 SCOTT,R.F.
ELEN	58	718	861000	61 CURTIN,M.
ELDE	31	18	830901	105 CASTLEBERRY,R.R
RESC	56	6	850600	1262 MARQUEZ,E.
COCH	9	4	850400	317 TSE,R.S.
EDN	31	10	860515	131 CROTEAU,J.
EDN	31	8	860417	153 CROTEAU,J.
ELEN	55	679	830700	39 DAVIES,E.
EDN	27	21	821027	244 FINK,F.G.
PE	6	3	890300	33 SCHOPP,W.W.
RESC	50	8	790800	988 CHRISTMANN,K.
ELEN	63	771	910300	24 TACCA,H.
RAEL	62	8	910800	33 DOBERSTEIN,D.
EWWW	97	1668	911100	911 BRADBURY,D.
AJP	253	3	870900	671 STEWART,G.J.
7ART	0	383	920800	8 MONTALBANO,J.R.
NIMA	320	1	920815	66 KUBOTA,Y.
M002	17	190	910600	58
EDN	36	22	911024	172 STEFANI,D.G.
EDN	38	4	930218	135 BODIO,M.
ELEC	49	26	761223	71 GRUNDY,G.L.
ANIN	15	3	860300	241 RAMALEY,L.
ELEN	59	726	870600	103 LEONARD,R.E.,JNR.
EDN	30	19	850822	204 SHARP,J.L.
ELWI	90	1577	840200	34 GRAHAM,J.M.
ELWI	94	1625	880300	240 JONES,A.J.
EDN	34	10	890511	155 SYLVAN,J.
RESC	49	2	780200	200 GOTTSCHALK,B.
MECO	21	2	870400	152 LEE,R.
PE	8	3	910300	64 YOUNG,R.A.
7ART	0	371	910800	28 GRAY,M.
ELDE	28	19	800913	93 BUCKLEN,W.K.
ELDE	28	9	800426	102 OHR,S.
AUAM	23	2	920600	15 JUNG,W.

MESC	3	9	920900	838 WEYAND,K.
ELDE	40	20	921001	53 SOCKOLOV,S.
ITNS	39	5	921000	1281 DRAKE,G.
EWWW	99	1685	930400	314 HICKMAN,I.
ELEN	55	680	830800	49 LACY,J.
ELDE	37	9	890427	107 BARROW,J.
PE	7	2	900200	31 PRYSON,C.
DIDE	14	12	841200	87 WATSON,D.
ELEN	62	761	900500	31 LOUPIS,M.I.
M016	29	14	900510	2024 LEVITAN,S.P.
PE	9	3	920300	41 FLYNN,B.
ELEC	48	23	751113	140 BERNSTEIN,N.
EDN	31	9	860501	262 BUTLER,G.A.
PE	8	7	910700	20 YACONO,J.J.
ELDE	31	2	830120	93 BURSKY,D.
ELDE	31	3	830203	169 RAO,V.
CEE	31	7	870900	117 OLIVER,J.A.
EDN	30	17	850725	303
ANCH	56	7	840600	1058 JACOBS,S.A.
ITMA	25	1	890100	546 THELEN,R.F.
MEBI	28	1	900100	91 OLSON,J.E.
ANCH	54	4	820400	666 DURDEN,D.A.
EWWW	97	1670	920100	59 NAGARAJ,M.S.
EWWW	97	1672	920300	237 RAILESHA,M.
EDN	37	10	920507	204 VILLANUCCI,R.S.
AMJO	53	4	850400	332 MISHINA,T.
ELDE	32	20	841004	280 LIPIANSKY,E.
ELDE	32	12	840614	273 GUY,T.
AMJO	49	11	811100	1035 HENRY,R.W.
POEL	19	7	810700	78 MIMS,F.M.
ELTO	8	6	840600	37
RAEL	58	3	870300	84 SCOTT,R.F.
HARA	20	12	871200	10 HILL,N.
ITIE	35	3	880800	426 THOMSON,E.M.
RESC	59	12	881200	2625 HOLZE,R.
M112	75	1	830100	149 WILHELM,W.W.
HARA	23	4	900400	36 CARR,J.J.
AMJO	58	8	900800	795 VICTORIA,L.
MECO	24	4	900900	148 DOSCHER,J.
CE	11	4	870400	281 VAN STADEN,J.C.
CE	11	1	870100	21 WEPFER,W.J.
EDN	36	19	910916	206 VANDANA,J.
ELEC	53	10	800424	158 JOHNSON,C.
EEU	2	1	911100	45 AFSOOS,A.
EWWW	98	1678	921000	859
ELDE	30	19	820916	133 BURTON,P.
RAEL	52	12	811200	76 SAVAGE,E.
ITIM	31	4	821200	284 GENIN,R.
ELTO	9	5	850500	9 SINCLAIR,I.

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ELTO	9	5	850500	60 CHOY,D.
EDN	31	4	860220	250 RUMMEL,E.W.
ELEN	59	732	871200	27 SPEDDING,B.
EDN	29	10	840517	216 NEWMAN,A.
RAEL	59	6	880600	38 SCOTT,R.F.
JOAU	36	6	880600	481 MONFORTE,J.
ELDE	36	17	880728	152 JIMENEZ-GARCIA,R.
RESC	59	7	880700	1195 GLEIXNER,R.A.
ANCH	55	8	830700	1437 LUBMAN,D.M.
EDN	28	23	831110	308 BURNETT,B.
MOEL	6	5	890500	22 CARISTI,A.J.
JONE	26	3	890100	233 BERTRAND,D.
BYTE	6	12	811200	474 BATIE,H.
ELEN	62	759	900300	41 SYLVAN,J.
MOEL	7	10	901000	25 SWARTZENDRUBER,M.
ELDE	38	19	901011	109 JUN,L.
ELDE	38	19	901011	113 WYNNE,J.
ELDE	29	12	810611	205 TUTHILL,M.
EWWW	97	1663	910500	425 RAMAN,A.
ITCS	38	4	910400	453 CARROLL,T.L.
ANCH	50	12	781000	1623 HIMPLER,H.A.
ELEC	53	5	800228	125 AMAZEEN,B.
PHTE	30	2	920200	106 PRIEST,J.
MEIN	14	3	800500	178 ACKMANN,J.J.
ELDE	40	18	920903	70 NAGARAJ,M.S.
ELDE	41	19	930916	110 BEER,B.R.
ELMU	2	9	860900	61 WILLIAMS,M.M.
ELDE	32	4	840223	271 AMEEN,J.G.
ELDE	30	12	820610	203 JAWORSKI,J.
ELDE	30	9	820429	169 SYLVAN,J.
BYTE	5	12	801200	318 CIARCIA,S.
EDN	32	19	870917	203 SAMUELS,H.
ELEN	57	703	850700	36 RAMRAJ,P.R.
APSP	35	6	881100	540 EWBANK,J.D.
EDN	34	23	891109	266 KARY,M.B.
M132	17	3	851000	321 BAILES,P.J.
EDN	35	13	900621	189 GREENWALD,J.A.
ELDE	29	25	811210	176 JAFFER,A.
M149	46	6	910600	1009 WINEFORDNER,J.D.
ITIA	27	6	911100	1026 KIM,J.M.S.
ELDE	40	22	921102	62 RAILESHA,M.
AMJO	53	6	850600	599 BACON,M.E.
CAL	1	3	830300	203 GUTERMAN,H.
ELWI	92	1604	860600	34 OWENS,J.H.
MEBI	19	4	810700	479 VAN DEN STEEN,L.
ITCS	33	4	860400	438 PEI,L.-Q.
RESC	51	10	801000	1411 FLESNER,L.D.
LAPR	34	1	850100	104 BASSETT,D.W.
EWWW	96	1651	900500	389 DUNCAN,B.

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ELWI	90	1580	840500	33 READ,D.C.A.
AUAM	22	1	910200	10 ALLGAIER,J.E.,JR.
RESC	63	3	920300	2030 WOODY,D.L.
EDN	38	5	930304	57 SWAGER,A.W.
EDN	31	19	860918	318 KUBER,V.B.
ELMU	2	9	860900	58 BARBOUR,E.
M016	20	20	811015	3508 JACOBS,S.F.
ELDE	30	12	820610	217 REGAN,T.
80M2	0	54	840700	36
ELWI	93	1617	870700	696 EISENPRESS,S.
EDN	32	19	870917	247 ALLEN,T.
EDN	32	22	871029	247 AUSTIN,W.M.
EDN	31	5	860306	256 SHERMAN,L.
EDN	28	20	830929	18
EDN	30	27	851212	263 PERIANAYAGAM,K.S.
RESC	51	2	800200	244 PETERS,R.A.
JOCH	63	12	861200	1074 PEARSON,M.S.
RESC	50	3	790300	386 MODINE,F.A.
ELDE	38	16	900823	94 RAO,V.
M160	44	6	780600	977 PRAZMA,J.
ELDE	39	22	911121	139 CHAMBERLAIN,J.
EDN	37	9	920423	171 GERSTENHABER,M.
EDN	37	16	920806	130 FAZIO,M.
MIMI	16	3	920300	141 WANG,L.-Q.
EWWW	99	1682	930100	75 NAGARAJ,M.S.
ELDE	41	1	930107	113 SMITH,M.
COCR	3	4	930400	18 PORTUGAL,R.J.
ELNO	64	5	930500	59 MARSTON,R.
RESC	53	12	821200	1870 SIMPSON,J.D.
ELDE	31	18	830901	119 COUNTS,L.
ELWI	93	1612	870200	174 GREAVES,D.
ELEC	48	23	751113	123 FRENCH,J.S.
EDN	32	6	870318	185 KITCHIN,C.
ITBE	32	8	850800	633 ELSTER,S.M.
ELEN	55	676	830400	28 CATTO,C.J.D.
INJO	54	6	830600	825 MAHMOOD,M.K.
ELWI	90	1586	841200	73 ONLUG,H.D.S.W.
EDN	28	16	830804	133 WURCER,S.
EDN	28	10	830512	218 DAMAYE,R.
RESC	51	9	800900	1258 WUNDERLICH,R.W.
ELDE	37	18	890824	53 ONG,R.
ANCH	61	6	890315	0 YAPPERT,MC.
CLEN	9	2	840400	129 SHANKAR,T.M.R.
ITBE	37	7	900700	723 MACHIN,J.W.
MOEL	8	3	910300	68 DESPOSITO,J.
EWWW	97	1661	910300	242 BAYKOV,R.I.
RESC	63	1	920100	75 KAO,Y.H.
RESC	63	10	921000	4901 CARLSTROM,T.N.
ELDE	34	20	860904	145 YEAPLE,D.

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JOPH	15	10	821000	1114 SMITH,R.
ELEC	50	12	770609	151 BROKAW,P.
ELEC	55	26	821229	79 PETERMAN,K,R.
CEA	1	2	860400	205 ROWE,R.J.
MICR	0	61	830600	98 TENNY,R.
EDN	32	1	870108	232 BUTLER,G.A.
ANCH	55	2	830200	405 PARUS,S.J.
EDN	27	21	821027	213 GRAPPEL,R.D.
ITIM	37	4	881200	501 DEVORE,J.J.
MIMI	12	9	881100	527 RUSSELL,R.A.
ELSE	8	12	881200	52 CARR,J.J.
HARA	22	8	890800	89 CEFALO,T.V.,JR.
LAPR	32	5	830500	88 YORK,R.W.R.
ELEN	61	754	891000	26 LYGOURAS,J.N.
ANCH	54	2	820200	207 MEYER,J.-J.
ELDE	38	13	900712	74 MURPHY,M.
EWWW	96	1653	900700	614 FAHME,K.
JOCH	58	6	810600	470 RATZLAFF,K.L.
ELDE	29	25	811210	175 JEUTTER,D.C.
AMJO	59	2	910200	187 WISMAN,R.
AGME	20	0	790000	313 BURGESS,M.D.
M141	16	4	851100	245 DJURIC,M.
EWWW	97	1673	920400	315 VANDANA,J.
EEU	2	6	920400	28 PIJPERS,L.
AJP	236	1	790100	183 LAB,M.J.
COCR	2	5	920500	46 AXELSON,J.
MEBI	30	2	920300	213 OZDAMAR,O.
EDN	37	15	920720	208 VANDANA,J.
ELPR	35	3	920800	23 BRUCE,I.
NIMA	326	3	930310	570 REGAN,T.O.
ELEN	58	718	861000	44 PETTERSSON,L.
ELEN	57	704	850800	43 DAVIES,E.
ELEN	55	681	830900	28 BOUVYN,P.
M079	22	1	880100	10 GREENWALD,J.
EWWW	97	1672	920300	244
ANIN	15	1	860100	51 HAWK,R.M.
JONE	19	2	870200	147 SCHMID,K.
ITCE	32	3	860800	264 WILSON,P.S.
ELEN	59	723	870300	35 WILSON,P.
EDN	33	3	880204	192 BRYANT,J.
RESC	62	3	910300	756 SCOVILLE,J.T.
RESC	63	11	921100	5366 POPKIROV,G.S.
MESC	4	3	930300	311 ABD-ELSALAM,M.
M076	9	4	890800	63 JOHNSON,M.
EDN	30	18	850808	244 BARNETT,T.G.
RESC	49	2	780200	212 CHURG,A.K.
EDN	31	9	860501	261 ZAVREL,R.J.
CODE	25	1	860101	49 HINDIN,H.J.
ELEN	62	768	901200	19 MILES,D.J.

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EDN	31	17	860821	53 TRAVIS,B.
RFDE	14	11	911000	41 DELURIO,M.J.
ELDE	27	4	890223	107 TILL,J.
EDN	29	14	840712	338 SIEGEL,A.
ELEC	49	5	760304	123 SCHULEIN,J.M.
IJPA	21	5	830500	298 NEELAKANTAN,K.
EDN	30	2	850124	254 WORK,J.A.,JR.
POEL	12	6	771200	80 WRIGHT,H.
ELLE	24	18	880901	1132 TZENG,L.D.
RFDE	8	9	850900	29 DEAGRO,W.C.
RESC	64	6	930600	1661 LIU,Y.A.
POEL	20	5	820500	88 DESPOSITO,J.
RESC	56	10	851000	1967 TOCHITANI,Y.
RESC	58	7	870700	1254 CANNELLI,G.B.
RESC	51	8	800800	1130 SUBHASH,N.
ELTE	11	3	880300	22 SPRENGER,H.
ITPE	3	4	881000	447 UNDELAND,T.M.
JMET	4	5	800900	228 FLYNN,D.
JOMA	51	3	830215	509 DYKSTRA,R.W.
EDN	31	23	861113	288 STITT,R.M.
EDN	28	16	830804	185 GASS,A.
NIMA	241	2	851201	387 VAN DER GRAAF,H.
RESC	59	9	880900	2041 RUBIO,M.A.
AUAM	15	2	840500	25 PAUL,C.
RAEL	54	2	830200	92 SCOTT,R.F.
MISY	5	6	840600	91 JONES,B.A.
CODE	24	17	851200	102
PE	7	1	900100	73 CARR,J.J.
RAEL	62	2	910200	55 CARISTI,A.J.
AUAM	23	2	920600	32 MOORE,R.
ELDE	29	5	810305	139 THOEN,B.K.
DIDE	16	14	861200	43 WILSON,A.C.
ELEN	55	678	830600	38 NOBLE,M.J.
M002	13	146	870600	29 SPENGLER,R.
ELDE	29	18	810903	202 BAGGENSTOSS,P.M.
EWWW	96	1649	900300	217 GHASSEMLOOY,Z.
ELEC	51	14	780706	112 DIGHE,K.D.
EDN	33	4	880218	239 KAPOOR,A.
EDN	30	28	851226	124 LEIBSON,S.H.
RAEL	52	1	810100	49 CARTIER,D.E.
AUEL	9	2	760200	25 DANCE,J.B.
MEBI	29	5	910900	554 SALMONS,S.
QST	65	8	810800	37 MILIUS,G.E.
BYTE	7	6	820600	436 CIARCIA,S.
INJO	52	6	820600	569 BILGIC,O.
EWWW	96	1651	900500	403 BOJAN,S.
RFDE	14	10	910900	74 ROBERTS,J.C.
POEL	17	3	800300	90 MULLER,H.
HARA	22	2	890200	18 ORR,B.

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73AM	0	270	830300	110 DESNOES,W.
M125	3	2	900400	32 O'HARA,T.
EEU	2	9	920700	75 FIETZ,I.
MOEL	8	2	910200	48 SCHOPP,W.W.
EDN	31	14	860710	260 SILARD,A.
EDN	29	5	840308	246 STITT,M.
MOEL	6	1	890100	52 SHOEMAKER,C.
EWWW	96	1658	901200	1064
RESC	48	7	770700	923 HUTCHINGS,I.M.
RESC	63	4	920400	2206 BLACKFORD,B.L.
ELNO	63	8	920800	33 SIMONTON,J.
COPR	21	5	810900	37 CARR,J.J.
QST	66	1	820100	18 MCINTIRE,G.
JONE	16	3	860500	191 GODDE,J.
HARA	20	9	870900	30 DOMANSKI,S.J.
EDN	31	7	860403	119 ZAVREL,R.J.
73AM	0	273	830600	99 SCHILLING,E.
MOEL	5	9	881000	36 FISCHER,C.R.
MEBI	26	2	880300	153 COWAN,D.
ELWI	95	1640	890600	628 ADAM,W.
EDN	37	9	920423	180 GOLDISH,D.
RAEL	55	10	841000	51 COTA,R.
RESC	53	3	820300	349 BOER,H.
RAEL	53	5	820500	49 BECKER,D.
BYTE	5	11	801100	266 CIARCIA,S.
ITPE	2	2	870400	149 HUDGINS,J.L.
ELWI	92	1603	860500	33 BOSMA,P.
JOPH	14	3	810300	291 CHUAQUI,H.
RFDE	11	7	880700	29 HELFRICK,A.
M002	13	146	870600	44
M084	1	1	880300	13 PAOLELLA,A.
EWWW	96	1655	900900	808
RESC	61	12	901200	3919 ROSS,K.A.
AUAM	22	1	910200	22 DANYK,D.
ANCH	51	7	790600	907 CARMACK,G.D.
M184	52	2	910900	489 BERNHARDT,P.A.
EEU	2	9	920700	48 KRAUS,K.
ITBR	23	1	770300	17 KLUGE,J.E.
RESC	51	3	800300	355 REIDER,G.A.
ELDE	34	23	861002	114 HARITON,D.I.
JOPH	18	6	850800	650 RAMAKRISHNAN,S.
EDN	31	10	860515	181 GRAEME,J.
M089	5	4	880800	148 JAIN,L.C.
HAEL	4	11	871100	59 YOUNG,R.A.
EUJO	5	2	840200	88 PARSLOW,K.
JONE	13	1	850300	65 MCBURNEY,R.N.
EDN	32	10	870514	242 HOSKINS,K.
MEBI	24	2	860300	193 TEICHTAHL,H.
ELEN	55	673	830100	32 HU,D.K.

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JEPT	12	2	850200	141 KLEMM,W.R.
EDN	31	10	860515	182 LAMBRECHTS,J.-P.
MOEL	5	5	880500	50 SHOEMAKER,C.
EEU	1	12	911000	32 ZANTIS,F.P.
ANIN	13	3	840300	241 HAAPAKKA,K.E.
COCH	11	3	870300	211 WIECHELMAN,K.
ELEN	60	743	881100	116 FILSETH,E.
M157	137	6	901100	436 SIDHU,T.S.
MIRF	25	3	860300	143 LAZARUS,M.J.
AMJO	60	1	920100	83 MARTIL,I.
EEU	2	9	920700	46 BARENDRECHT,J.
ITIM	35	3	860900	360 DASGUPTA,G.
POEL	19	11	811100	47 KAUFMAN,R.
COEL	21	7	830700	86 MIMS,F.M.,III
QST	72	6	880600	15 MILLER,T.
M077	26	1	760200	57 CHARLES,A.
JOPH	14	5	810500	541 HASSON,A.
MEBI	29	1	910100	94 BANKMAN,I.N.
RAEL	53	3	820300	59 PICHULO,R.
ANCH	52	13	801100	2116 OLDHAM,K.B.
M016	31	31	921101	6684 CABER,P.J.
NIMA	257	2	870615	97 HENDERSON,R.S.
JOCH	63	7	860700	648 TARDY,D.C.
RFDE	15	1	920100	63 HUBBARD,B.
HAEL	3	6	861100	71 GROSSBLATT,R.
ELDE	40	25	921203	68 GAGNON,J.M.
EDN	32	9	870430	228 SWEARINGEN,P.
ELEN	59	724	870400	45 HAASE,J.A.
EDN	29	4	840223	322 BRAUN,B.
EDN	30	27	851212	263 MIGUEL-LOPEZ,J.M.
JOCH	67	2	900200	164 GRAHAM,D.A.
CLEN	10	4	851000	317 SEVERNS,M.L.
ELEC	53	4	800214	132 BARNETT,T.G.
ITIM	40	4	910800	779 LAOPOULOS,T.L.
ELAU	52	12	901200	84 EADES,M.
RESC	58	10	871000	1871 CHAKRAPANI,G.
M046	14	6	880600	51
ELDE	32	18	840906	235 ANDERSON,T.
HAEL	2	4	850400	45 PATRICK,D.E.
JEPT	12	1	850100	1 FRANZ,G.N.
RESC	58	6	870600	928 BROWN,R.G.W.
ELWI	90	1578	840300	40
RFDE	8	10	851000	53 KAN,S.
ELEN	64	784	920400	34 FRANKS,E.C.
RESC	55	10	841000	1691 KOBAYASI,S.
RESC	50	6	790600	738 PRIMAK,W.
PE	10	12	931200	49
EDN	33	17	880818	222 HOSKINS,K.
MEBI	26	4	880700	360 NAKAO,M.

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RAEL	60	3	890300	43 SPIWAK,M.
JOPH	22	7	890700	515 CASTELLANO,A.
ELNO	64	3	930300	65 PETRUZZELLIS,T.L.
INJO	66	1	890100	93 OSOWSKI,S.
JONE	25	2	880900	97 GANDEVIA,S.C.
JOPH	19	9	860900	701 SCHUSTER,G.
ELWI	91	1591	850500	45 HOOD,J.L.L.
EDN	32	12	870611	207 TRUMP,B.C.E.
RAEL	53	7	820700	41 FELLHAUER,H.E.
JOPH	21	2	880200	233 MEIER,H.
JOPH	14	5	810500	561 RICKETTS,B.W.
JOCH	67	2	900200	163 FOX,J.N.
TALA	35	2	880200	89 POSCH,H.E.
PE	9	10	921000	49
CQ	47	1	910100	11 CEBIK,L.B.
MESC	3	11	921100	1072 ARMSTRONG,T.R.
JOPH	15	5	820500	508 FITZSIMONS,G.
ELWI	92	1606	860900	43 YPENBURG,F.
ELWI	93	1613	870300	342 HAIGH,D.J.
WW	88	1555	820400	68 THOMAS,D.J.
M038	263	2	900800	106 MIMS,F.M.,III
NUIN	166	0	791100	483 PINGLOT,J.F.
JOPH	17	12	841200	1224 MORIN,F.
M058	0	0	870000	10 CHUR,T.
AMJO	59	6	910600	569 WOLFSON,R.
ELEN	62	760	900400	47 FEWSTER,A.
ELEN	62	761	900500	61 FEWSTER,A.
WW	89	1569	830600	33 MORNINGTON-WEST,A.
EWWW	96	1649	900300	214 GOUGH,W.
ELEC	53	11	800508	171 CURCHACK,S.
ELDE	38	4	900222	149 GOODENOUGH,F.
EDN	33	3	880204	196 ARMIJOS,J.
EDN	27	18	820915	192 HEINZER,W.
ELDE	37	19	890914	93 ROSENFELD,P.
EWWW	98	1679	921100	959 MIRSKY,G.
EWWW	99	1687	930600	493
ELEN	59	729	870900	27 GOWRIPATHI,N.
EDN	31	5	860306	57 TRAVIS,B.
JONE	20	3	870700	249 VOIGT,H.F.
AUAM	22	2	910400	24 DIDDEN,J.M.
ELDE	28	16	800802	16 LINDBERG,C.R.
ELDE	31	17	830818	227 TOMINAGA,K.
M148	90	4	920615	193 FRESCHI,A.A.
EDN	35	22	901025	206 SALDINGER,B.
ESD	17	9	870900	53 WILSON,D.
ELLE	17	15	810723	548 ENNING,B.
ITIM	29	2	800600	89 YOULIN,L.
MADE	59	18	870806	111 CARLISLE,B.H.
EDN	38	20	930930	117 BURNSD,D.J.

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ELEC	51	11	780525	146 STETSON,R.J.
ITPS	6	3	780900	266 ROBERTSON,S.
EDN	33	6	880317	110
ELDE	30	23	821111	183 GROSSMAN,M.
APSP	33	6	791100	563 URBACH,F.L.
MEBI	19	5	810900	659 MCCLELLAN,A.D.
JOAU	34	9	860900	661 ALJUDI,A.A.R.
INJO	66	5	890500	741 HABIB,M.K.
ELDE	28	3	800201	23 ADLERSTEIN,S.
MEBI	20	1	820100	65 DEMJANENKO,V.
EDN	30	25	851114	317 FILSETH,E.
RESC	60	3	890300	358 WHALEY,D.R.
JJAP	28	10	891000	1997 OHE,K.
BYTE	2	8	770800	18 SWEER,L.
EDN	29	13	840628	81 TRAVIS,B.
EDN	30	11	850516	227 ANDELFINGER,R.
AUAM	16	4	851000	7 BORBELY,E.
RESC	51	2	800200	246 PASCO,R.W.
MEBI	19	5	810900	657 MCCLELLAN,A.D.
JOMA	81	1	890100	191 DYKSTRA,R.W.
ANCH	54	6	820500	1001 LANGHOFF,C.A.
BIIN	25	6	911100	461 WAITE,R.I.
TALA	31	2	840200	123 VALCHER,S.
RESC	57	9	860900	2361 BRUSCHI,L.
ELDE	33	21	850905	159 FLEMING,T.
ELDE	39	1	910110	181 GOODENOUGH,F.
EDN	29	25	841213	370 KOHL,D.A.
MIMI	8	9	841100	492 KARTHIKEYAN,T.V.
TRAS	28	3	850500	943 LAMB,J.A.
M013	15	8	830800	84 HALL,G.
EDN	35	10	900510	107 GRAEME,J.
EWWW	97	1667	911000	876
7ART	0	384	920900	74 COVINGTON,M.
COEL	21	10	831000	70 VIESCA,F.
TRAS	28	3	850500	949 MITCHELL,B.W.
COCR	2	3	930300	19 EDWARDS,S.
RESC	56	4	850400	563 RIVAUD,L.
PE	6	6	890600	33 BALL,C.R.,JR.
EEU	2	2	911200	47 RIGBY,A.
JOPH	20	6	870600	602 GREENHOW,R.C.
AMJO	55	12	871200	1150 BAPTISTA,R.P.
RESC	51	7	800700	988 HARRIS,J.M.
BYTE	2	10	771000	114 SMITH,W.D.
M023	49	8	910800	34 WILSON,B.
ELDE	37	26	891228	72 HYDE,C.
ELDE	38	10	900524	79 GAUEN,K.
BYTE	8	12	831200	554 CIARCIA,S.
EDN	36	17	910819	164 PING,S.Z.
NIM	192	0	820100	337 CARBONARA,F.

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CICE	0	21	910600	78 NISLEY,E.
RESC	63	1	920100	255 GOKMEN,A.
CQ	39	2	830200	48 SILVA,R.
COEL	21	10	831000	99 MIMS,F.M.,III
EWWW	97	1661	910300	251
RESC	56	5	850500	746 BESIO,G.J.
BYTE	7	10	821000	96 BARDEN,W.,JR.
M032	0	48	861100	29 BRILLIANT,L.S.
HARA	20	11	871100	26 STROM,K.W.
ELMU	4	5	880500	79 ORMAN,J.
PE	6	8	890800	29 VOLLANO,V.
ELWI	94	1623	880100	66 BECK,R.A.
EDN	34	10	890511	199 DEMICHELE,G.
POEL	10	5	761100	52 ARP,R.C.,JR.
ANCH	56	3	840300	379 DONOHUE,D.L.
BYTE	8	7	830700	498 CIARCIA,S.
RESC	58	10	871000	1852 WATANABE,A.
RESC	60	11	891100	3566 WILSON,A.R.
AUAM	17	4	861000	52 GORDON,M.
ELSE	9	1	890100	57 CLIFFORD,M.
RESC	53	2	820200	260 HERTL,W.
73AM	0	270	830300	110 MCKENNA,A.
7ART	0	392	930500	51 LEAVEY,M.I.
AUAM	16	3	850700	24 MARSH,R.N.
SCEL	21	3	810500	31 CARR,J.J.
ELDE	31	25	831208	169 ORR,S.R.
ELDE	31	21	831013	123 CURRAN,T.
NIM	187	0	810800	447 GIPPETTO,C.
EDN	29	6	840322	191 KINCAID,D.L.
BYTE	2	10	771000	140 SCHNEIDER,T.G.
ANCH	51	13	791100	2066 MANABE,R.M.
EDN	29	2	840126	179 CURRAN,T.
M113	11	4	920400	100 CHEEK,B.
M016	27	12	880615	2371 LAQUIDARA,A.P.
HAEL	2	5	850500	74 FRIEDMAN,H.
73AM	0	274	830700	103 ANDERSON,G.
NUIN	171	0	800400	5 GIPPETTO,C.
ELDE	34	19	860821	170 BEEDIE,M.
ELDE	37	10	890511	129 GOODENOUGH,F.
IDDE	39	18	910926	128 XIA,Y.
ANCH	50	13	781100	1796 MORRIS,M.D.
EWWW	97	1661	910300	250
EWWW	97	1672	920300	246
EDN	30	16	850711	282 TACCA,H.
CICE	0	29	921000	74 BACHIOCHI,J.
EWWW	97	1668	911100	948
MIMI	11	10	871200	545 HASELOFF,E.
ELWI	91	1593	850900	57 REFSUM,A.
INJO	58	3	850300	477 HIGASHIMURA,M.

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ELWI	93	1616	870600	574
MEBI	22	3	840500	275 MCGILLIVRAY,R.M.
ELWI	93	1617	870700	706 SELF,D.R.G.
NIM	204	0	821200	485 HOLLER,Y.
ELDE	36	6	880317	49 GOODENOUGH,F.
JOCH	66	5	890500	419 PAPADOPOULOS,N.
M140	1	3	820300	169 BOYD,R.K.
EWWW	96	1656	901000	888 YOUNG,S.
ELDE	39	4	910228	35 GOODENOUGH,F.
EWWW	97	1664	910600	467 LESURF,J.C.G.
EDN	37	14	920706	190 SEDAYAO,M.J.
RESC	61	3	900300	1018 LIN,H.-B.
COEL	21	3	830300	58 TENNY,R.
EDN	36	2	910121	166 ILIEV,L.M.
ELTO	9	2	850200	62 LATHAM,S.
EWWW	96	1656	901000	886 MANOV,T.M.
EWWW	96	1652	900600	505 HOOD,J.L.
68MI	5	2	830200	7 ANDERSON,R.W.
RESC	58	8	870800	1494 DHADWAL,H.S.
EDN	31	3	860206	153 POINDEXTER,R.
ANCH	53	14	811200	2383 SIU,K.W.M.
M160	53	1	820700	286 KIERS,A.
AMJO	59	11	911100	998 DUCHESNE,B.
EEU	2	9	920700	68 SCHAERER,T.
EWWW	98	1678	921000	860
EEU	2	9	920700	98 TIWANA,A.B.
QST	67	8	830800	40 BILOW,M.
COEL	21	7	830700	54 NICKLIN,R.C.
ELDE	36	17	880728	154 MAPLESTON,D.
EDN	37	23	921112	108 SWAGER,A.W.
POEL	17	5	800500	61 GONTOWSKI,W.,JR
ETT	13	12	891200	44 HOPWOOD,T.
7ART	0	385	921000	38 CURRY,D.F.
EDN	28	13	830623	277 DELAGRANGE,A.D.
NIMA	240	2	851015	311 BLANK,H.
EDN	31	20	861002	204 WHEELER,P.C.
AMJO	55	12	871200	1136 EDDY,J.K.
73AM	0	333	880600	54 MAGEE,J.
JONE	28	3	890600	209 BUZSAKI,G.
ELEN	63	770	910200	67 LAWDAY,G.
EWWW	96	1647	900100	16 HOOD,J.L.
EDN	37	15	920720	207 LOGAN,J.G.
EUJO	6	4	850400	295 SCONZA,A.
EDN	32	10	870514	175 HARVEY,B.
ELEN	59	725	870500	39 COX,N.R.
EDN	33	7	880331	181 SIEGEL,B.L.
ANCH	56	9	840800	1747 OLIVEIRA,J.P.
M064	7	2	850400	127 LATOUR,A.
73AM	0	263	820800	44 REID,F.S.

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NIMA	281	1	890820	192 KOBAYASHI,M.
CLEN	12	3	870500	209 WALD,R.W.
ITCS	22	11	751100	875 BOCTOR,S.A.
RAEL	59	8	880800	53 MARTIN,V.D.
ITBR	36	2	900600	162 COOPER,J.C.
ELLE	27	1	910103	53 VOSPER,J.V.
FAJO	5	6	771100	22 RALLAPALLI,K.
M002	13	146	870600	38 WEIGL,M.G.
EDN	36	19	910916	199 KLEIN,J.
RESC	56	12	851200	2243 KOCH,K.-P.
JOMA	63	2	850615	392 BOYD,J.
ELWI	93	1617	870700	704
ELWI	92	1605	860700	39 HOOD,J.L.L.
ELEN	57	707	851100	31 HICKMAN,I.
EDN	29	23	841115	344 ZINNIKER,R.
EDN	28	22	831027	215 DUVAL,J.
ELWI	95	1643	890900	918 HAWKER,P.
ELDE	39	21	911107	36 BURSKY,D.
AUAM	24	2	930600	26 DANBURY,M.
M160	54	4	830400	1141 HARRIS,D.J.
ELTO	11	2	870200	71 ARMSTRONG,A.
EDN	32	20	871001	196 WILSON,D.
EDN	29	8	840419	332 BRUNIQUEL,J.P.
ELDE	36	16	880714	107 DUTRA,J.A.
ANCH	60	14	880715	1387 KRAUS,P.R.
ELDE	39	11	910613	109 XIA,Y.
EWWW	97	1670	920100	46
EWWW	99	1687	930600	517 MEYER,J.J.
ELTO	9	1	850100	41 GILES,S.P.
NIMA	234	2	850201	294 BEER,A.
ITPS	7	1	790300	2 DOLLINGER,R.E.
NIMA	297	3	901210	534 GOTTSCHALK,B.
INJO	60	2	860200	161 ABUELMA'ATTI,M.
ITBE	33	5	860500	517 BARLOW,J.S.
ELWI	90	1577	840200	52 HOOD,J.L.L.
TRAS	28	1	850100	322 CHESSON,J.H.
JONE	30	3	891200	185 PAZO,J.H.
ELDE	38	10	900524	80 GALLUZZI,P.
ANCH	54	1	820100	43 SIMPSON,S.F.
WW	89	1568	830500	28 MILLER,J.R.
EDN	35	25	901206	226 SIEGEL,B.L.
DIDE	10	2	800200	78 AUSTIN,T.
EDN	36	22	911024	171 SCHUPAK,L.
RFDE	15	9	920900	87 KUSHNICK,E.
RESC	64	7	930700	1845 MARSHALL,A.G.
HAEL	4	4	870400	30 HAMPTON,R.
EDN	35	15	900719	186 JONES,H.T.
EWWW	97	1667	911000	824 DUNCAN,B.
73AM	22	9	820600	60 GIBSON,S.

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AUAM	18	3	870700	39 GLOECKLER,F.
INJO	60	6	860600	771 ABUELMA'ATTI,M.
ELEC	51	9	780427	148 RUMMEL,E.W.
JMET	11	1	870100	11 HORTENSIVS,P.
MESC	1	9	900900	845 HAWKINS,P.
QST	66	3	820300	38 STUMP,W.
RAEL	57	9	860900	54 SHEETS,W.
EDN	31	12	860612	214 HILL,N.M.
EDN	29	22	841031	210 BEINART,M.
HARA	23	2	900200	74 LOVELOCK,P.A.
ELDE	38	24	901227	63 NAGARAJ,M.S.
ELDE	28	7	800329	115 BARBIER,K.
BYTE	7	4	820400	158 BARDEN,W.,JR.
EWWW	97	1659	910100	28 YATES,D.
BYTE	7	5	820500	479 CALAWAY,J.L.
ELDE	34	2	860123	89 TAYLOR,D.
HARA	22	2	890200	67 CUPP,F.B.
POEL	12	4	771000	66 JONES,B.
ELDE	30	13	820624	162 BOOTH,G.R.
ELDE	30	13	820624	133 CHU,P.
ITIM	35	1	860300	7 WAGDY,M.F.
ELWI	91	1588	850200	45 HOWE,A.H.
CODE	21	1	820100	97 MCCRACKEN,D.
EDN	32	21	871015	194 GENT,J.
ITIE	34	4	871100	483 PRATT,J.A.
EDN	31	7	860403	206 LEE,M.
EDN	30	24	851031	252 BLEY,D.B.
EDN	30	3	850207	243 HOFFART,F.
EDN	29	18	840906	226 ROSS,S.
MIMI	10	1	860100	33 ROBERTSON,P.J.
73AM	0	335	880800	24 KUBICHEK,K.
TRAS	30	6	871100	1869 ALLISON,J.M.,JR.
INJO	65	6	881200	1203 SURAKAMPONTORN,W.
JOCH	61	9	840900	808 PEREZ-RODRIGUEZ,A.
RFDE	12	8	890800	35 VELLA-COLEIRO,G.P.
AMJO	57	9	890900	826 DUPUY,D.L.
ELDE	37	24	891123	114 CURRAN,L.
ETT	14	1	900100	21 KNIGHT,S.
PHED	25	3	900500	163 FRICKER,H.S.
IJPA	25	5	870500	245 SHAH,N.A.
ELEC	55	4	820224	143 SCHENKEL,J.
EDN	35	25	901206	224 DAHLIN,T.J.
EWWW	97	1660	910200	154
M030	24	5	790900	1030 RICHARDSON,R.L.
EWWW	97	1661	910300	251
ITPD	6	1	910100	85 HERMANTO,I.
EEU	2	9	920700	78 RUITERS,J.
EDN	37	16	920806	132 ST ANGEL,L.
EDN	38	10	930513	154 ST ANGEL,L.

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ELNO	64	11	931100	8 SWINDELL,G.
HAEL	3	2	860300	87 CROOKS,J.F.
EDN	29	25	841213	142
EDN	33	12	880609	63 PRYCE,D.
EWWW	99	1682	930100	78 HICKMAN,I.
RESC	53	5	820500	697 OREB,B.F.
CHBI	12	4	820400	253 BRUNGS,M.P.
73AM	0	327	871200	52 COLLINS,J.T.
MIAP	7	3	880300	217 THOMAS,H.
CEA	1	2	860400	151 MCCLERNON,P.F.
JOPH	13	8	800800	819 KOVACS,P.
ELEC	48	20	751002	105 MOORE,R.C.
INJO	71	4	911000	653 ALTAF,T.
PE	9	1	920100	42 CLARKE,J.
ELTO	10	10	861000	12 THOMAS,I.
ELDE	31	8	830414	143 WALLACE,J.
ELDE	30	23	821111	172 URSOLEO,R.J.T.
EDN	32	6	870318	208 GILES,M.
RAEL	53	1	820100	45 ROSETH,G.
ELWI	93	1616	870600	572
EDN	30	16	850711	114
AUAM	17	3	860800	14 CHILDRESS,H.
ELDE	37	5	890309	84 DIETZ,E.
MADE	54	28	821209	149 WALKER,N.
MADE	55	12	830526	68 HARNDEN,J.A.
RAEL	62	2	910200	14 BALDWIN,C.
ELDE	39	3	910214	102 NAGARAJ,M.S.
ELWI	95	1640	890600	575 LAKSHMINARAYANAN,V
RAEL	63	1	920100	12 JONES,C.
ELDE	40	11	920528	62 COVINGTON,M.A.
RESC	64	6	930600	1593 VARPULA,T.
SKTE	72	1	860700	80 HOLBROOK,J.
ELDE	33	27	851121	78
RAEL	55	8	840800	20 CHRISTY,S.
ELEC	55	26	821229	77 SHERMAN,L.
RESC	55	7	840700	1129 RAO,T.V.
ELWI	91	1597	851100	76 LOWMAN,R.
ELDE	27	17	790816	92 STETSON,R.J.
NIMA	239	3	850915	518 BIAN,Z.
ELEL	20	5	800900	37 CARISTI,A.
RAEL	57	2	860200	46 ROHER,C.C.
HARA	15	3	820300	65 TOLLE,D.V.
EDN	31	10	860515	117 WIDLAR,R.
HAEL	5	4	880400	32 POPE,D.E.
EDN	30	10	850502	213 CHIRAYIL,R.
EDN	29	11	840531	135 KOSTER,R.
EDN	27	19	820929	156 LEE,M.
EDN	34	11	890525	55 GALLANT,J.
73AM	0	269	830200	90 HUTTON,L.I.

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M115	22	8	891000	237 HENCKE,H.
EDN	35	3	900201	142 BARNETT,T.G.
ELEN	62	760	900400	30 YATES,D.
ITIA	26	1	900100	167 WILLIAMS,R.R.
ANCH	54	12	821000	1985 POWER,G.P.
M139	1	3	880300	133 MASTRANGELO,C.H.
RESC	61	7	900700	1988 VANDERSCHMIDT,G.F.
MOEL	7	12	901200	24 CARISTI,A.J.
MESC	1	11	901100	1257 VIAPPIANI,C.
ELEC	53	8	800410	113 WEINRICH,D.W.
RAEL	63	3	920300	46 TRIETLEY,H.L.
RAEL	63	4	920400	40 TRIETLEY,H.L.
7ART	0	383	920800	48 FLYNN,J.
MIMI	10	8	861000	442 RANGA,K.V.
ELTO	8	6	840600	35
ITNS	33	6	861200	1605 KOLASINSKI,W.A.
ELDE	32	9	840503	425 GOODENOUGH,F.
ELDE	31	14	830707	172 OHR,S.
ELEN	57	703	850700	29 VORA,H.S.
EDN	29	3	840209	228 RITTER,E.
73AM	0	335	880800	22 KUTNER,B.N.
ANCH	58	11	860900	2152 IMASAKA,T.
RESC	60	9	890900	2924 BARISAS,B.G.
EDN	35	9	900426	229 TOWERS,L.M.
WW	89	1567	830400	58 ANDERSEN,P.C.
CICE	0	18	901200	71 BACHIOCHI,J.
EWWW	96	1658	901200	1078 MCGLINCHY,M.
M076	5	5	851000	52 GOLDSTEIN,N.B.
ELEC	53	3	800131	101 MAIDA,M.
ELEC	53	5	800228	133 ANDREWS,T.J.
ELEN	64	783	920300	30 DHILLON,G.S.
HAEL	2	6	851100	4
M104	15	6	881100	874 ALLISON,J.D.
EWWW	95	1646	891200	1160 ISAACS,B.V.W.
SKTE	66	3	830900	257 HARNER,M.
ELDE	33	1	850110	289 SHERMAN,L.
POEL	11	4	770400	41 KOBYLARZ,C.
ETI	7	9	830900	17 RIMMER,S.
COPR	21	5	810900	63 NOLL,E.
HAEL	4	7	870700	32 FOX,T.
BYTE	6	11	811100	62 BENNETT,B.W.
HAEL	4	9	870900	24 FOX,T.
RAEL	53	11	821100	79 JARNAGIN,J.I.
RCM	14	11	771100	76 SPRENG,D.
HARA	20	11	871100	49 CARR,J.
EDN	31	3	860206	156 KLEINGELD,P.
EDN	30	22	851003	208 ROSS,S.
EDN	29	13	840628	275 PATTERSON,D.
JOPH	13	9	800900	1021 HORWITZ,C.M.

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PE	6	8	890800	59	GOEBEL, T.
JOEX	123	0	860700	441	HASAN, Z.
EWWW	95	1644	891000	1004	
IJPA	27	3	890300	115	AGRAWAL, S.L.
PE	9	6	920600	34	HOCKING, G.E.
ELDE	28	3	800201	96	MCCRACKEN, D.
ELDE	40	12	920611	85	LANPHER, L.S.
PE	10	1	930100	45	RAKES, C.D.
PE	10	2	930200	74	YACONO, J.J.
PE	10	5	930500	41	PENROSE, D.H.
EDN	37	23	921112	198	TOWERS, L.M.
PE	10	6	930600	47	YACONO, J.
PE	10	6	930600	57	COOPER, D.B.
7ART	0	394	930700	40	ROEHRIG, B.
PE	10	10	931000	64	SCHOPP, W.W.
73AM	0	272	830500	46	DAVIS, C.M.
ITIA	26	1	900100	73	OLIVIER, G.
CICE	0	37	930800	56	BACHIOCHI, J.
HAEL	4	8	870800	64	FRIEDMAN, H.
HAEL	4	11	871100	84	RAKES, C.D.
EDN	32	19	870917	254	HOOD, R.
EDN	31	21	861016	226	DENTON, S.
EDN	29	6	840322	203	COLEMAN, V.
EDN	28	25	831208	334	MUGIOIU, F.N.
RESC	49	12	781200	1732	SIMON, R.W.
NUIN	175	0	800900	112	DIXON, R.L.
WW	89	1568	830500	46	DREW, K.
PE	7	12	901200	60	TRIETLEY, H.L.
ELDE	39	20	911024	110	NORMET, H.
RAFU	0	9	920400	8	ELKINS, J., JR.
M196	1	10	930200	12	ROBERTS, R.H.
ELDE	32	7	840405	133	PROCTOR, J.
CONO	4	9	861200	18	RIMMER, S.
ELDE	31	6	830317	220	OHR, S.
ELDE	31	9	830428	225	MCKEON, R.J.
COPR	21	4	810700	55	LEITHAUSER, D.
73AM	0	299	850800	67	BALL, D.
ELDE	27	4	790215	146	KIRKHAM, H.
MEBI	21	3	830500	375	MCGILLIVRAY, R.V.
EDN	32	13	870625	83	SHEAR, D.
EDN	31	11	860529	229	BRAUNSTEIN, M.D.
ELEN	57	705	850900	30	PHILLIPS, G.J.
HAEL	5	6	880600	88	FRIEDMAN, H.
EDN	28	9	830428	221	POINT, R.
ELDE	36	25	881110	144	SJURSEN, W.P.
JOPH	13	10	801000	1050	NORSTROM, H.
RAEL	60	5	890500	41	HEIL, R.A.
HARA	22	4	890400	79	SCHREIBER, W.L.
73AM	0	271	830400	41	TORRES, A.

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AMJO	57	7	890700	646	PODOLEANU,A.G.
EDN	35	4	900215	185	DART,A.K.
M052	13	3	890900	444	QUISTORFF,B.
MADE	60	22	880922	124	SCHIFF,J.
ELDE	38	21	901108	159	GOODENOUGH,F.
ELDE	28	1	800104	154	TERRY,F.
ELEC	53	7	800327	138	SMEINS,L.G.
ELDE	28	15	800719	191	MEFFORD,J.P.
AJP	262	6	920600	1939	FREEMAN,G.L.
AMJO	60	9	920900	803	VAN BAAK,D.A.
INCO	9	4	910700	125	GARRARD,W.N.C.
CICE	0	31	930200	32	CIARCIA,S.
ELDE	41	6	930318	56	RAHIM,Z.
EWWW	99	1687	930600	519	HICKMAN,I.
PHED	28	4	930700	249	BOVING,R.
ELDE	32	24	841129	282	CHENG,F.
RAEL	56	6	850600	72	SAVAGE,E.
ELDE	35	2	870122	148	GOODENOUGH,F.
EDN	31	2	860123	165	TELLIER,J.
EDN	30	23	851017	175	SABERI,M.
EDN	29	13	840628	153	CUSHMAN,R.H.
EDN	33	6	880317	200	JACHOWSKI,M.
EDN	29	10	840517	218	ROWAN,P.
RAEL	59	6	880600	14	
HARA	21	7	880700	72	CARR,J.
AMJO	57	2	890200	154	CALKIN,M.G.
73AM	0	263	820800	84	CEBIK,L.B.
AUEL	9	11	761100	30	DANCE,B.
ELDE	38	2	900125	81	HANISKO,J.C.
EDN	35	9	900426	225	KOCH,J.K.
WW	89	1567	830400	51	GASCOYNE,P.
ELDE	38	19	901011	110	NAGARAJ,M.S.
EWWW	97	1664	910600	513	CATTO,C.J.D.
ELDE	28	1	800104	156	BOBREK,P.
JONE	39	3	911000	203	GALBRAITH,J.A.
ITBE	39	7	920700	752	COTE,G.L.
ELDE	40	22	921102	61	NORMET,H.
EDN	38	8	930415	198	BOLTON,C.
ELDE	32	9	840503	15	PEASE,R.A.
CODE	20	11	811100	233	ROEHR,B.
QST	65	8	810800	36	BAVIS,T.
HAEL	4	3	870300	65	HALA,L.
POEL	19	8	810800	55	LAHR,W.
ELEN	55	679	830700	27	MARCH,I.
ELWI	90	1577	840200	32	LABIB,G.A.M.
JOPH	14	9	810900	1099	UPHAUS,R.A.
EDN	34	2	890119	157	PEASE,R.A.
JOPH	13	10	801000	1071	FLOKSTRA,J.
MOEL	6	2	890200	46	SHOEMAKER,C.

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QEX	0	58	861200	10 PELISSIER,G.
EDN	34	19	890914	151 PEASE,R.A.
EDN	34	21	891012	177 PEASE,R.A.
WW	89	1564	830100	56 TULLY,J.E.
PE	8	11	911100	18 YACONO,J.J.
ELEC	53	2	800117	140 PEASE,R.
EDN	37	15	920720	212 ENG,I.
ELEN	55	677	830500	40 FITZGERALD,J.
EDN	30	19	850822	187 WITTE,K.
ELEN	55	682	831000	37 GALLERANI,A.
73AM	0	338	881100	27 EDRINGTON,J.
RAEL	52	11	811100	52 BYERS,T.J.
73AM	0	361	901000	59 BRYCE,M.
ELEC	53	10	800424	159 COLEMAN,V.
COCR	2	4	920400	44 FOX,T.
EDN	37	14	920706	187 DEMMA,N.
ELDE	40	16	920806	69 SHKARUPIN,V.
PE	10	5	930500	49
7ART	0	392	930500	30 REIMERS,F.
ELDE	31	10	830512	196 GRIMSBY,C.L.
ITIM	35	1	860300	46 MOLNAR,K.L.J.
JOMA	66	1	860100	164 QUINE,R.W.
ELEN	57	701	850500	31 BHANUMURTY,D.
ELEC	55	25	821215	160 RAMRAJ,P.R.
EDN	32	7	870331	212 TYDA,B.
EDN	32	12	870611	208 WALKER,S.
RAEL	53	2	820200	84 SCOTT,R.F.
ITBE	34	5	870500	391 PEYTON,A.J.
ITPE	2	3	870700	227 RAHMAN,M.A.
HARA	15	8	820800	12 LEFKOW,A.
EDN	31	9	860501	205 SINBERG,H.
EDN	30	20	850905	301 SCAGLIONE,M.
ELEN	55	684	831200	31 CATTO,C.J.D.
EDN	29	15	840727	370 MOLNAR,K.
73AM	0	275	830800	25 KALMUS,F.
EDN	28	20	830929	201 MUGIOIU,F.M.
EDN	32	1	870108	231 SOVACOOOL,R.M.
RESC	52	10	811000	1582 TWIST,J.R.
RAEL	60	4	890400	47 BECKER,D.
ETT	13	2	890200	24 MARSTON,R.
JOEX	108	0	840100	459 BENNET-CLARK,H.C.
7ART	0	364	910100	40 DOUBEK,E.R.
RESC	62	3	910300	821 JACKSON,A.
ELDE	28	2	800118	116 PEASE,R.A.
ELEN	64	785	920500	34 MARTIN,K.
EEU	2	9	920700	74
ELWI	93	1607	861000	43 CLEMENTS,A.
ELDE	33	24	851017	129 AGRAWAL,O.
ELEC	49	4	760219	131 BOCKSTAHLER,R.W

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ELWI	92	1611	870100	35 FAHME,K.
ANIN	15	2	860200	127 BIRCH,E.
POEL	20	1	820100	62 CARLSTROM,R.
ETT	11	12	871200	47 WRIGHT,H.
EDN	31	20	861002	187 KHU,A.
ELEN	55	683	831100	177 MCGLINCHEY,G.
EDN	28	17	830818	165 WILLIAMS,J.
M076	8	3	880600	39 ALBERS,T.M.
MOEL	5	9	881000	52 VIESCA,F.G.
EWWW	95	1645	891100	1103 CLEMENT,P.
ELDE	37	26	891228	56
MADE	54	23	821007	90 WALKER,N.
M038	238	3	780300	142 WALKER,J.
ELDE	38	20	901025	92 BERGER,H.S.
AUAM	21	4	901000	44 VIESCA,F.G.
PE	8	8	910800	25 CONNELL,J.
ELEC	59	30	860904	64 COLE,B.C.
ELWI	93	1602	860400	70 KEARLEY,S.J.
EDN	31	16	860807	85 WRIGHT,M.
ELDE	32	2	840126	158 AGRAWAL,V.K.
RAEL	57	10	861000	50 TERRIO,V.J.,JR.
QST	66	6	820600	20 NEWLAND,P.
ELDE	33	7	850321	143 HOSKINS,K.
RESC	54	3	830300	381 MALCORPS,H.
COPR	21	4	810700	63 CARISTI,A.
HAEL	2	4	850400	49 BAKER,W.
RAEL	56	3	850300	105
ITIM	34	1	850300	31 SRIDHARAN,G.
MEBI	25	2	870300	155 LEVKOV,C.L.
ETT	11	11	871100	18 LEIPERT,R.
ELDE	35	29	871210	85 GULICK,D.
QST	65	6	810500	14 PAGEL,P.K.
HARA	21	1	880100	17 SMITT,E.L.
MOEL	5	5	880500	42 CARISTI,A.J.
EDN	33	11	880526	212 PATTERSON,T.
QST	70	8	860800	38 RUSH,V.
ANCH	59	4	870215	687 KIM,Y.T.
EDN	27	18	820915	169 MACACHOR,E.
TRAS	26	1	830100	14 HYDE,G.M.
RESC	59	7	880700	1098 KAHLOW,M.A.
RESC	59	7	880700	1246 NIKI,S.
MOEL	5	9	881000	56 WRIGHT,H.
JOPH	21	11	881100	1099 REHMAN,M.
ITIA	24	1	880100	121 BISWAS,S.K.
RESC	52	12	811200	1847 FENGER,J.
RESC	52	10	811000	1586 BLACKBURN,J.A.
AUAM	17	1	860200	36 CURCIO,J.J.
RESC	60	3	890300	327 BURNS,M.J.
RESC	50	7	790700	917 GAY,J.G.

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LAPR	34	7	850700	88 WILSON,J.
BYTE	9	4	840400	412 CVETKOVIC,R.
AUEL	8	12	751200	41 DANCE,J.B.
73AM	0	266	821100	22 SLAUGHTER,G.
HARA	23	4	900400	14 ATKINS,B.
ELDE	38	5	900308	90 YAGER,C.
JEMT	2	2	850200	157 CACECI,T.
AMJO	48	1	800100	86 HIGBIE,J.
MBE	14	5	760900	589 HILLMAN,G.R.
ELEN	62	766	901000	25 BARNETT,T.G.
ITIM	30	2	810600	160 REHMAN,M.
RESC	61	12	901200	3722 HELLEN,E.H.
ELDE	29	25	811210	104 MILLER,M.J.
PE	8	9	910900	74 RAKES,C.D.
EEU	2	2	911200	36 TIWANA,A.B.
EEU	2	2	911200	46 EVANS,R.G.
IJEE	28	4	911000	350 COYLE,E.D.
RAEL	63	4	920400	72 GROSSBLATT,R.
EDN	37	10	920507	202 BARNETT,T.G.
ITED	35	2	920500	138 SCHREYER,R.K.
RESC	63	7	920700	3716 TRUC,A.
EWWW	97	1677	920800	685 BRETTLE,M.J.
CICE	0	29	921000	64 NISLEY,E.
ELTO	8	12	841200	27 WALKER,P.
ELEL	20	5	800900	25 HUGGARD,L.
EDN	28	23	831110	277 PEASE,R.
73AM	0	269	830200	20 BATIE,H.F.
QST	69	8	850800	32 TANNER,C.
EDN	32	22	871029	132 SHEAR,D.
73AM	0	273	830600	19 PULLEN,K.A.,JR.
ETT	13	1	890100	10 FLIND,A.
NIMA	281	1	890820	207 BHAT,C.L.
WW	88	1556	820500	50 SOMERVILLE,P.D.
ELEC	53	7	800327	139 WEBB,L.C.
ELEC	53	6	800313	122 DAVIS,T.
PHED	28	4	930700	252 RAMACHANDRAN,V.
RAEL	54	11	831100	101 SURGESON,W.T.
POEL	17	4	800400	46 MARCHAND,J.F.P.
ELDE	30	3	820204	148 LEFFERTS,P.
EDN	31	11	860529	65 EVERETT,C.
EDN	33	7	880331	197 PRITCHARD,N.E.
RFDE	6	6	831100	36 LEIGHTON,L.C.
RAEL	61	4	900400	12
ELDE	38	7	900412	45 GOODENOUGH,F.
JOCH	68	7	910700	619 MERCER,G.D.
EWWW	97	1666	910900	771
EDN	37	11	920521	176 ENG,I.
M120	10	8	890800	47 RUNYON,S.
EDN	38	12	930610	168 KOREN,V.

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RAEL	55	5	840500	21 MCLELLAN,G.
ETI	7	2	830200	31 LORD,M.
QST	67	3	830300	42 VOYLES,J.
73AM	0	280	840100	115 SIMONDS,T.
ELEC	56	5	830310	137 GARLAND,C.J.
73AM	0	264	820900	20 HALE,G.L.
ELDE	36	26	881123	126 STITT,R.M.
M052	9	2	890200	288 DODDRELL,D.M.
M125	2	3	890700	64 BROWN,L.
M158	15	3	800600	225 BUDENSTEIN,P.P.
RAEL	62	8	910800	77 GROSSBLATT,R.
ELEC	55	14	820714	155 HUNG,H.T.
INJO	58	2	850200	271 ROSENSTARK,S.
ELWI	90	1578	840300	42 BEET,S.W.
HARA	21	11	881100	98 WELLS,H.
EWWW	97	1675	920600	509 MICHELE,F.
CICE	0	33	930400	87 TWEED,D.
HARA	20	3	870300	87 MEAGHER,J.B.
POEL	19	9	810900	75 SUTTON,J.
QST	67	9	830900	31 BLAKESLEE,D.
QST	66	4	820400	52 REINKE,J.
QST	61	3	770300	29 MEYER,B.
HAEL	4	11	871100	77 FRENZEL,L.E.,JR.
EDN	31	13	860626	233 ZANNIS,J.
QST	72	3	880300	25 FLEAGLE,J.E.
ELEN	60	740	880800	17 MIRON,N.
RAEL	52	10	811000	94 SAVAGE,E.
M016	28	9	890501	1608 SASAKI,A.
PE	8	6	910600	76 CARR,J.J.
ELDE	39	20	911024	109 DUNN,J.
EEU	2	5	920300	34
MIPR	2	3	780600	139 STEWART,K.
JOMA	100	3	921200	571 DYKSTRA,R.W.
PE	10	12	931200	78 CARR,J.J.
RESC	53	2	820200	232 LEE,J.
QST	66	10	821000	15 JOHNSON,D.
QST	66	2	820200	50 DAY,G.
QST	68	9	840900	39 DION,W.E.
JONE	14	1	850600	65 EVANS,M.H.
BYTE	6	11	811100	84 COSGROVE,D.
BYTE	6	2	810200	138 HEIN,D.
ITIM	35	2	860600	207 SAFAR,J.A.
PHED	23	3	880500	191 SPRAGET,H.W.G.
HAEL	5	9	880900	41 SMALL,W.C.
ETT	12	8	880800	41 MOUNEIMNE,Z.
RESC	60	2	890200	265 LIM,W.B.
73AM	0	349	891000	13 GEIER,M.J.
WW	88	1556	820500	44 WHITE,J.D.H.
EWWW	97	1674	920500	412

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BYTE	7	3	820300	272 HALE,W.R.
ELEC	49	19	760916	119 OSTERLAND,E.
RAEL	53	6	820600	65 MILLER,S.B.
QST	61	4	770400	56 YOUNG,A.
HARA	15	5	820500	42 LILE,R.
QST	65	9	810900	27 SANDFORD,W.H.,JR.
M069	0	0	880700	10 MURPHY,G.
BYTE	9	11	841000	34
EDN	33	17	880818	222 TOMPOROWSKI,S.
M064	3	2	810400	140 ROBERTS,V.C.
JOMA	45	3	811200	503 INNERS,R.R.
SKTE	83	3	920300	329 DROBNOCK,G.J.
ETI	7	9	830900	76 HOPKINS,D.
POEL	19	6	810600	96 MIMS,F.M.
ELEC	49	20	760930	101 MATH,I.
QST	70	4	860400	39 WARNICK,D.E.
QST	68	8	840800	46 COOPER,W.
ELHA	0	0	861000	54
ETI	5	8	810800	47
HAEL	4	7	870700	83 RAKES,C.D.
ELEN	55	673	830100	23
ELEN	55	684	831200	32 WOLFENDEN,B.S.
MOEL	5	6	880600	16 MELHORN,W.
ETT	12	11	881100	48 BISHOP,O.
RFDE	8	1	850100	26 WALWORTH,J.H.
73AM	0	271	830400	106 BAKER,B.
HARA	23	2	900200	53 KOHL,D.A.
M136	5	3	780300	180 PEELE,G.L.
MOEL	7	9	900900	21 KOHL,D.A.
M182	34	2	850400	173 BRACH,E.J.
M030	38	2	930200	259 TESTA,L.
APSP	41	2	870200	330 SMITH,T.R.
RAEL	62	6	910600	8 SHEDLER,L.
JOPH	16	6	830600	549 ITSWEIRE,E.C.
ELDE	34	6	860313	147 CARLSON,P.J.
RAEL	58	8	870800	30 GROSSBLATT,R.
BYTE	6	2	810200	68 ZIMMERMANN,M.
RESC	58	11	871100	2197 FEI,X.
ELEN	55	680	830800	25 CHEER,A.P.
RESC	51	12	801200	1685 COLTON,R.J.
WW	88	1554	820300	59 ION,S.
RFDE	13	9	900900	35 KLEINBERG,L.L.
SCPR	1	3	910700	51 LICHTMAN,J.M.
RESC	63	1	920100	220 DHALI,S.K.
AMJO	60	12	921200	1153 GABRYS,C.
POEL	19	3	810300	85 ELKIN,H.I.
ELDI	7	1	860000	37 WALKER,P.
QST	69	8	850800	42 ENSANIAN,N.N.
QST	69	9	850900	17 DEMAW,D.

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CQ	40	11	841100	64 ELLIOT,J.A.
EDN	29	18	840906	228 PEASE,R.A.
HARA	22	1	890100	20 SCHREIBER,W.
PE	6	4	890400	39 SCHOPP,W.W.
AUAM	16	1	850100	38 BALLARD,R.J.
PE	6	6	890600	41 PAYOR,S.
RESC	60	4	890400	720 MISAKIAN,M.
PE	6	10	891000	67 MCINTIRE,G.R.
COEL	20	11	821100	53 KLOESZ,G.
PHTE	27	9	891200	687 CRANE,H.R.
PE	8	4	910400	55 RAKES,C.D.
ELEN	63	774	910600	30 BERGMAN,G.D.
ELEC	53	2	800117	41 IVERSEN,W.R.
EEU	1	12	911000	23 SWARTZENDRUBER,M.
RESC	58	2	870200	285 MUNGER,G.
CQ	45	6	890600	62 WELSH,B.
68MI	8	10	861000	37 WOLF,M.
RAEL	59	7	880700	69 LANCASTER,D.
JOPH	15	2	820200	213 WIDMER,A.E.
ELDE	33	27	851121	107 GRAEME,J.
ELDE	32	11	840531	294 FREEMAN,W.
RAEL	56	5	850500	87 FLYNN,D.M.
ELDE	31	23	831110	207 PEASE,R.A.
COEL	21	4	830400	104 MIMS,F.M.
ANIN	14	3	850300	225 ALCALA,J.R.
EDN	33	7	880331	198 SOUSA,J.L.
73AM	0	275	830800	48 WILSON,L.H.
73AM	0	343	890400	87 WELLS,H.
MOEL	6	12	891200	35 SOKOLOWSKI,S.
EWWW	96	1653	900700	614 CHANDLER,S.A.G.
TALA	35	2	880200	95 SMARDZEWSKI,R.R.
ELDE	39	2	910131	64 DUNN,J.
PE	9	10	921000	53 CARR,J.J.
POEL	19	7	810700	87 MIMS,F.M.
ELDE	31	24	831124	175 STEVENS,R.H.
MICR	0	73	840700	30 TENNY,R.
68MI	4	1	820100	40 PATTERSON,R.E.
QST	70	6	860600	24 DEMA,W,D.
PHED	19	6	841100	296 ASHWORTH,K.
CHBI	12	1	820100	1 GOLD,H.S.
JONE	13	3	850500	281 YAMAMOTO,T.
RAEL	58	5	870500	10
BYTE	6	7	810700	388 SOKOL,D.
NIMA	219	1	840101	117 DERENZO,S.E.
HARA	15	6	820600	69 MACCLUER,C.R.
HARA	15	1	820100	24 BROWN,F.
73AM	0	273	830600	99 GOUGE,W.
MOEL	5	9	881000	24 BARBARELLO,J.J.
RESC	52	12	811200	1865 MIGLIORI,A.

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JOPH	13	12	801200	1265 PRESTER,M.
MOEL	6	5	890500	50 EICHENBERG,D.
QST	63	11	791100	57 WATTERS,K.W.
LAPR	29	4	800400	385 EVANS,M.H.
M030	32	9	870900	1179 VOJNOVIC,B.
JONE	38	2	910700	193 BAADER,A.
EWWW	97	1677	920800	691
JOPH	16	5	830500	377 CLEMENT,R.M.
QST	65	10	811000	44 RUSGROVE,J.
COED	0	0	840300	36 MARSHALL,A.
CQ	39	8	830800	56 VOLPE,J.
CQ	43	7	870700	20 PLANT,D.F.
ELDE	35	20	870903	105 STITT,R.M.
EDN	30	24	851031	189 LEE,W.
ELEN	55	680	830800	29 ATTENBOROUGH,C.
73AM	0	273	830600	106 TRACY,J.
M082	0	56	841100	6 VANDERKOOY,J.
RAEL	60	10	891000	10 SHERWOOD,J.
RESC	61	4	900400	1327 WONG,H.K.
NUIN	171	0	800400	337 STEPHENSON,R.
ITCE	36	2	900500	66 OOI,T.H.
TALA	31	4	840400	275 LAMPUGNANI,L.
COCH	3	0	790000	65 BROPHY,J.J.
RESC	48	9	770900	1228 LINDSAY,S.M.
SCPR	2	1	920100	103 MIMS,F.M.,III
EDN	37	12	920604	185 FRASER,J.
ELEC	55	14	820714	153 LEFFERTS,P.
BYTE	8	10	831000	350 CANN,P.
QST	62	11	781100	22 BROWN,F.
ELWI	91	1589	850300	61 EVANS,N.E.
COEL	21	2	830200	85 MCCLELLAN,G.
TCA	14	7	860700	48 PIETTE,G.
ETT	12	10	881000	19 FLIND,A.
QST	63	11	791100	57 BARTELS,G.F.
AMJO	57	9	890900	840 MOSCA,E.P.
BYTE	3	3	780300	8 LEDERER,J.H.
EDN	35	26	901220	153 BAYERN,K.
M169	28	3	790300	273 FLEISCHHAMMER,W.
QST	62	5	780500	37 FITCH,J.
COPR	21	5	810900	53 BARBARELLO,J.
QST	65	9	810900	11 DEMAW,D.
EDN	29	7	840405	146 MAHABATSI,R.
73AM	0	267	821200	153 SANDEL,H.
JOMA	45	1	811000	108 DYKSTRA,R.W.
ELDE	39	10	910523	121 WYATT,M.
PE	9	1	920100	51
ELDE	31	6	830317	184 NGUYEN,N.-T.
RAEL	57	11	861100	23
ELDE	32	7	840405	162 STRINGFELLOW,J.

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JOPH	14	12	811200	1407 LOBEMEIER,P.
ELEN	58	714	860600	27 OLANIYAN,O.O.
ELEC	50	17	770818	116 GILMORE,M.E.
HARA	15	4	820400	38 ROHDE,U.L.
73AM	22	9	820600	30 GREINER,A.
HARA	14	7	810700	30 ORR,B.
EDN	30	18	850808	235 GRIFFIN,R.
EDN	30	11	850516	232 DORAISWAMY,T.S.
ELDE	24	8	760412	122 SALTVOLD,J.R.
QST	72	10	881000	26 DEMAW,D.
PE	6	4	890400	44 RAKES,C.D.
ELDE	29	18	810903	13 MORDAUNT,W.S.
EDN	35	13	900621	270 DVORAK,R.V.
ELTE	3	9	800900	28 CUFF,A.R.
ELDE	38	22	901122	135 WEBER,H.
7ART	0	364	910100	29 GARDINER,W.
ELDE	28	22	801025	176 BALLINGER,R.
PE	9	4	920400	70 YACONO,J.J.
RESC	63	11	921100	5454 HERMAN,J.R.
QST	62	7	780700	34 BRADSHAW,N.
ELDE	24	8	760412	98 BAJEU,G.
QST	67	2	830200	55 SEPULVEDA,B.
BYTE	8	3	830300	487 CIARCIA,S.
RAEL	58	4	870400	62 BYERS,T.J.
HAEL	2	6	851100	5
73AM	0	280	840100	115 LEE,R.C.
RAEL	58	5	870500	59 BYERS,T.J.
MEBI	19	4	810700	486 MASON,S.M.
RAEL	58	11	871100	115 BYERS,T.J.
EDN	30	26	851128	235 WILLIAMS,J.
ELEC	55	5	820310	152 STERN,D.
ELWI	94	1623	880100	37 WATT,J.
HARA	21	9	880900	39 CLARK,B.
MOEL	5	12	881200	26 CARR,J.J.
RAEL	51	12	801200	26 GILMOOR,J.R.
TCA	16	1	880100	42 FOLLINI,P.
RESC	49	6	780600	840 MURRAY,K.
RESC	61	4	900400	1267 MILLER,G.L.
EDN	37	4	920217	133 GRAEME,J.
EDN	37	9	920423	192 HANSCOM,B.
HAEL	2	2	840200	33 FRUITMAN,E.
HAEL	2	1	840100	91 FRUIRMAN,E.
ELTO	9	7	850700	45 MELLOR,G.C.
ELDE	28	26	801220	101 PIAZZA,F.
ELEN	58	716	860800	85
QST	68	5	840500	35 MONTICELLI,D.
QST	61	9	770900	45 MCGHE,J.
HAEL	3	3	860500	52 BYERS,T.J.
CAL	1	3	830300	179 TAYLOR,P.J.

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73AM	0	280	840100	115 CAMERON,W.B.
CQ	39	11	831100	48 ELLIOT,J.A.
ITBE	33	6	860600	610 SEEBAUGH,W.R.
ELLE	23	9	870423	9 FORSBERG,G.S.
M003	8	1	870700	46 BARBARELLO,J.J.
ELWI	94	1623	880100	73
ETT	12	9	880900	43 TOOLEY,M.
MIRF	22	9	830900	103 SPROUL,R.W.
HARA	22	2	890200	104 MCMULLEN,T.
RESC	60	3	890300	301 PELZ,J.P.
JOCH	59	5	820500	426 COOPER,J.W.
ETT	13	9	890900	16 DE VAUX-BALBIRNIE,
ELEN	61	752	890800	23 BORGMAN,G.D.
QEX	0	36	850200	2 ASCANI,B.
PE	6	12	891200	65 KELLY,T.
NUIN	147	0	771100	595 LUE,J.T.
MADE	54	5	820311	267 GROSS,T.A.O.
WW	89	1564	830100	30 MACIEJEWSKI,A.
7ART	0	367	910400	10 BRUMBAUGH,J.F.
ELDE	28	9	800426	216 NACHAZEL,R.J.
ELDE	41	12	930610	74 BOLTON,C.
ETI	7	7	830700	21 SINCLAIR,I.
ELEC	50	23	771110	119 DAWSON,R.W.
POEL	20	1	820100	76 SOLOMON,L.
CQ	42	1	860100	13 JACKSON,A.H.
MEBI	20	5	820900	595 CURNOW,J.S.H.
RAEL	53	4	820400	46 GARTMAN,J.
ELWI	94	1625	880300	242 WELLS,J.N.
M115	18	1	850200	22 MCCURDY,C.N.
73AM	0	267	821200	153 TAYLOR,J.A.
WW	89	1565	830200	71 DI MARIO,D.
AUAM	23	1	920300	56 ROCHELEAU,G.
INJO	55	6	831200	865 IBRAHIM,K.M.
EDN	30	4	850221	317 LOPES,C.
ITBE	36	4	890400	487 PFISTER,C.J.
CE	14	3	900300	239 TURNER,J.D.
TRAS	21	1	780100	6 LENKER,D.H.
NIMA	245	2	860501	328 ADERHOLZ,M.
POEL	13	2	780200	65 MCCORMICK,E.M.
M003	8	3	871100	49 MOSSMAN,M.R.
CQ	40	12	841200	56 BERKMAN,R.
HARA	21	1	880100	25 WELLS,H.
EDN	30	20	850905	114 TRAVIS,B.
QST	71	7	870700	30 DEMAW,D.
M038	266	1	920100	144 SMITH,D.
COEL	21	2	830200	25 SOLOMON,L.
RAEL	54	1	830100	20 STRUVE,B.
QST	61	8	770800	49 LONNEKE,M.
RFDE	6	3	830500	62 MATTHYS,R.J.

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HAEL	3	4	860700	81 STEPHENS,J.
COCH	11	2	870200	97 TONG,W.F.
ELDE	35	9	870416	35 TUNICK,D.
73AM	0	335	880800	57 KRIEGER,R.P.,JR.
M003	5	5	850300	67 EVERS,T.
EDN	29	2	840126	212 VINARUB,E.
BYTE	5	1	800100	56 GIBSON,J.H.
ELDE	35	14	870611	159 SARKISSIAN,H.A.
ELDE	37	18	890824	43 SARKISSIAN,H.
RAEL	55	5	840500	38 DUBINSKY,S.
ELEC	55	25	821215	163 HAINES,R.
ETI	7	1	830100	82 DUNCAN,H.
73AM	0	362	901100	18 BROWN,B.
ELTO	11	2	870200	13 DE VAUX BALBIRNIE,
ELEC	55	2	820127	104 EICHENBERG,D.J.
EDN	33	9	880428	75 PRYCE,D.
M080	26	276	891200	52
JEMT	3	1	860100	135 PINNA,H.
EWWW	98	1679	921100	959 MEUNIER,P.C.
RESC	57	9	860900	2303 NILSSON,O.
PE	6	7	890700	73 COVINGTON,M.A.
ELWI	92	1605	860700	38 TURNER,R.C.
QST	70	7	860500	21 DEMAW,D.
ITIM	33	2	840600	78 LANDECKER,T.L.
NIMA	224	3	840715	547 NORDELL,B.
EDN	30	4	850221	363 GALLUZZI,P.
AMJO	56	7	880700	620 FOX,J.N.
RAEL	60	7	890700	45 SHEETS,W.
ELDE	37	22	891026	111 SHERMAN,D.
INJO	68	5	900500	803 ROBINSON,F.N.H.
EDN	36	19	910916	181 GRAEME,J.
RESC	63	12	921200	5806 NAQVI,K.R.
ELEC	55	26	821229	76 AMARANDOS,M.
ELDE	34	14	860619	129 PROCTOR,J.J.
RESC	61	12	901200	3866 GUPTA,S.P.
MESC	4	2	930200	231 KATH,G.S.
RFDE	16	3	930300	43 SABIN,W.E.
QST	70	3	860300	40 DEMAW,D.
EDN	32	10	870514	161 HENRY,P.
EDN	32	15	870723	311 WOLF,T.R.
HAEL	5	1	880100	29 BECKER,D.
HARA	21	4	880400	33 SCHMIESKORS,D.,JR.
EDN	33	7	880331	112 PRYCE,D.
73AM	0	342	890300	43 STRINGER,W.R.
RFDE	8	2	850200	64 RYNONE,W.
ITIA	26	1	900100	171 LANSBERRY,T.A.
RFDE	13	9	900900	50 MACCONNELL,J.W.
M162	5	1	800100	28 DAUPHINEE,T.M.
EWWW	97	1661	910300	252

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ELDE	41	12	930610	74	SIMPSON,C.
RESC	57	10	861000	2499	LAKOWICZ,J.R.
POEL	11	2	770200	49	MATTIS,D.L.
EDN	32	9	870430	149	STACEY,C.
ELDE	40	4	920220	93	STITT,R.M.
ELEN	59	726	870600	76	
EDN	37	4	920217	36	WYATT,M.A.
JONE	40	2	911200	181	HENTALL,I.D.
M113	11	4	920400	98	DEMAW,D.
73AM	0	327	871200	50	BRADDY,J.
QST	62	11	781100	25	BARTLETT,J.
EDN	33	4	880218	183	KNAPP,R.
EDN	29	1	840112	257	ANDERSON,T.
ITNS	32	5	851000	1953	CHEHAB,R.
BIJO	57	3	900300	633	TASAKI,I.
RESC	63	6	920600	3298	BREWE,D.L.
JOPH	17	12	841200	1220	HAYAKAWA,M.
JOCH	62	9	850900	814	STOCK,J.T.
QEX	0	81	881100	11	BECKER,D.
PE	7	3	900300	72	COVINGTON,M.A.
ELDE	38	7	900412	85	STITT,R.M.
ELEN	64	791	921100	38	BARNETT,T.G.
ELDE	32	3	840209	97	MILLAWAY,S.
ELDE	30	3	820204	119	EVANS,M.
EDN	31	12	860612	209	MITCHELL,C.
EDN	30	18	850808	147	GRAEME,J.
ELDE	36	12	880526	115	GRAEME,J.
EWWW	97	1667	911000	875	
ELDE	31	9	830428	207	ASSARPOUR,H.
JONE	16	1	860300	29	FAHR,A.
JONE	10	4	840400	267	PATBERG,W.R.
INJO	57	3	840900	415	ROSENSTARK,S.
73AM	0	358	900700	16	LYSTER,C.
EDN	37	7	920330	135	WYATT,M.A.
RESC	53	1	820100	59	LANGE,R.E.
ELLE	22	3	860130	153	GREEN,R.J.
RESC	59	10	881000	2269	HAKANSSON,B.
PE	6	3	890300	69	CZARNIK,S.
MOEL	6	2	890200	65	MIMS,F.M.,III
BIJO	55	6	890600	1033	TASAKI,I.
ELDE	39	6	910328	118	GRAEME,J.
AMJO	53	9	850900	911	BOBST,R.L.
ITIM	31	2	820600	139	UNO,M.
ETT	11	11	871100	50	CHAPPELL,P.
EDN	33	1	880107	198	LAKSHMINARAYANAN,V
EDN	33	5	880303	168	MICHELE,F.
EDN	34	8	890413	210	AUDY,J.
NIMA	279	3	890715	503	YOUNG,G.R.
RESC	61	9	900900	2296	MCCLELLAND,G.M.

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ELDE	39	7	910411	81 BUXTON,J.
ITIM	42	1	930200	44 VYROUBAL,D.
JOMA	57	3	840500	394 HOULT,D.I.
ELDE	35	10	870430	81 ALLAN,R.
RFDE	13	3	900300	47 APTE,D.R.
INJO	68	4	900400	525 YOSHIDA,S.
ELDE	38	15	900809	105 NAGARAJ,M.S.
RAEL	55	1	840100	97 SCOTT,R.F.
JOPH	19	9	860900	695 HOLLAND,W.P.J.
RAEL	54	6	830600	109 SCOTT,R.F.
JOPH	16	1	830100	26 FIUKOWSKI,E.
HAEL	4	1	870100	105 KENNEDY,D.
QST	66	5	820500	35 NOLAN,T.
RESC	56	8	850800	1623 CONSTABILE,G.
ELEC	55	2	820127	107 HERBST,L.J.
RESC	58	6	870600	1104 GRUBIC,M.
HAEL	4	10	871000	75 WHITBY,D.
M013	19	1	870100	24 HAMILTON,J.A.
ITIM	36	2	870600	362 PETERSONS,O.
EDN	32	22	871029	205 GRAEME,J.
RFDE	4	3	810500	38 ROHDE,U.L.
ELEN	61	748	890400	32 BARNETT,T.G.
ELDE	30	1	820107	305 JESPERSEN,N.
EDN	33	15	880721	334 KOPINSKI,C.J.
M159	23	1	840200	109 CHUANG,K.T.-T.
EDN	36	1	910103	123 STOCHINO,G.
7ART	0	365	910200	32 MILLER,D.C.
ITIM	40	1	910200	2 NERI,B.
RESC	48	5	770500	569 CHOU,N.J.
EEU	2	2	911200	86 RUFFELL,J.
RESC	63	4	920400	2157 AFZAL,R.S.
EDN	37	11	920521	174 GUY,J.
EDN	33	23	881110	304 SOUSA,J.L.
M016	30	22	910801	3091 EPELDAUER,G.
PHTE	23	7	851000	426 GUERCIO,G.
M111	30	1	880100	77 VIGNEAULT,C.
POEL	17	6	800600	69 KRONENWETTER,T.
NIMA	222	3	840501	479 SANDORFI,A.M.
EDN	32	1	870108	185 BOWERS,D.F.
M177	1	6	900600	408 NIGHTINGALE,N.S.
EWWW	98	1681	921200	1036
EDN	30	1	850110	51 TRAVIS,B.
ESD	18	12	881200	28 WILSON,A.
CICE	0	37	930800	70 DYBOWSKI,J.
MIRF	28	2	890200	111 TAYLOR,S.
BYTE	8	5	830500	42 DEMAUW,D.
IEEB	140	1	930100	7 LIAW,C.M.
MIAP	9	4	861000	27 KAKATSIOS,B.
HAEL	4	12	871200	79 FRENZEL,L.E.,JR.

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EDN	29	20	841004	249 MARTIN,R.L.
EDN	35	10	900510	154 BAKER,R.J.
QST	74	3	900300	41 PINCKNEY,J.C.
EWWW	97	1671	920200	102 BRIDGEN,D.
ITNS	29	6	821200	1559 SEEHRA,S.S.
EWWW	97	1661	910300	240 BRIDGEN,D.M.
ELEC	49	18	760902	109 CROWLEY,B.
RAEL	56	9	850900	90 ROBILLARD,M.J.
ELDE	36	18	880811	125 HELFRICK,A.
EWWW	96	1650	900400	305 LAKSHMINARAYANAN,V
DIDE	12	5	820500	44
RESC	58	6	870600	1014 ELDRIDGE,B.N.
EDN	28	11	830526	211 WILLIAMS,J.
RESC	60	10	891000	3171 POLLARD,J.E.
RESC	49	8	780800	1206 CAHEN,D.
EDN	31	19	860918	315 DOUGLAS,P.N.
73AM	0	299	850800	48 MORROW,R.K.,JR.
EDN	31	13	860626	108 TRAVIS,B.
ELDE	38	11	900614	77 PEASE,R.A.
ELEN	59	730	871000	41 SAGE,L.
EDN	33	2	880121	207 PAETAU,J.G.
EDN	29	15	840726	366 GEORGOPOULOS,V.
RAEL	59	5	880500	39 WANNAMAHER,J.
MOEL	6	9	890900	20 CARISTI,A.J.
EWWW	99	1689	930800	643 KRAUS,K.
QST	61	10	771000	22 OLSEN,R.K.
EDN	32	14	870709	263 VENDITTI,C.
EDN	33	1	880107	202 MOWRY,S.
EDN	29	17	840823	236 LARSON,R.
AUAM	20	2	890400	46 CHATER,W.
JOMA	49	3	821001	411 WADE,C.G.
EDN	31	23	861113	215 YOUNG,S.
EWWW	96	1658	901200	1074 LAKSHMINARAYANAN,V
HARA	20	1	870100	89 CARR,J.
RAEL	53	6	820600	34 SCOTT,R.F.
ELTO	10	2	860200	17 MARKWICK,B.
ELDE	31	8	830414	166 BUCHANAN,J.E.
RESC	52	3	810300	408 COVA,S.
7ART	0	389	930200	60 BRYCE,M.
MIAP	10	3	870700	245 TEH,H.C.
ELDE	31	11	830526	139 NIEHAUS,J.
ELWI	94	1626	880400	344 COOKE,J.
ELEN	57	697	850100	37 PODZIMEK,O.
JOPH	21	6	880600	550 OVERTOOM,F.
EDN	27	19	820929	115 FREEMAN,W.
APSP	42	3	880300	460 SOMMER,A.J.
RAEL	60	5	890500	61 LANCASTER,D.
ELDE	38	1	900111	191 FREEMAN,W.
ITIM	39	5	901000	711 YOSHIDA,H.

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EDN	30	19	850822	133 LONGDEN,L.
EDN	32	10	870514	241 PAYNE,W.H.
ITIE	34	1	870200	50 HARASHIMA,F.
M005	13	6	870600	14 CHOURNOS,K.R.
CICE	0	16	900800	34 DYBOWSKI,J.
ELWI	95	1640	890600	591
EDN	28	14	830707	115
ELCH	278	1	900125	161 BLOOR,L.J.
CICE	0	16	900800	65 BACHIOCHI,J.
WW	89	1564	830100	55 HOOPER,M.J.
JOPH	18	5	850500	399 POLLAND,H.J.
EDN	29	16	840809	274 FREEMAN,W.
AUAM	18	3	870700	54 VIKAN,R.K.
RAEL	54	1	830100	90 SCOTT,R.F.
ELDE	30	7	820331	95 GREER,W.T.,JR.
ELDE	34	17	860724	109 WOLFF,A.
NIMA	240	2	851015	333 MEIJER,R.J.
EDN	29	15	840726	361 SCHNEIDER,D.J.
EDN	33	15	880721	332 BONETTI,R.A.
PE	8	2	910200	39 AXELSON,J.
PE	8	4	910400	29 CZARNIK,S.A.
M043	10	11	910700	48 DISTEFANO,T.
ELDE	39	18	910926	149 LEONARD,M.
7ART	0	387	921200	30 HOLMES,P.
ELDE	41	6	930318	67 JOHNSTON,J.
ELWI	93	1607	861000	62 SMITH,A.
DIDE	10	5	800500	126 SMITH,L.
BYTE	8	2	830200	442 CIARCIA,S.
M120	11	5	900500	74 APTE,R.
EWWW	96	1647	900100	76
ELDE	28	6	800315	298 THOMAS,J.W.
ELDE	30	13	820624	101 LINDBERG,J.E.
ELEN	59	727	870700	71 CLARKE,P.
EDN	31	21	861016	233 LIN,L.-Y.
EDN	31	23	861113	134 TRAVIS,B.
EDN	27	22	821110	185 GILLOOLY,D.
RESC	52	12	811200	1860 MATSUSHIMA,I.
EDN	34	23	891109	268 KVINGE,T.
EWWW	98	1679	921100	955 HICKMAN,I.
ELDE	32	19	840920	351 BURSKY,D.
NIMA	241	2	851201	572 BROOKE,G.
ELDE	35	18	870806	61 GOODENOUGH,F.
ELEC	56	19	830922	155 BARON,M.
RAEL	53	9	820900	66 DAVIDSON,H.L.
M095	17	1	890100	71 TOKUNAGA,R.
EWWW	99	1687	930600	472 MALINOVSKY,D.
M027	76	9	880900	1187 MAKINO,H.
RESC	61	4	900400	1277 HOULT,D.I.
EWWW	99	1683	930200	155 DUNCAN,B.

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ELDE	33	26	851114	184 FREEMAN,W.
EDN	32	3	870205	194 SABAT,T.
JOPH	20	6	870600	693 TAM,K.C.
HAEL	4	10	871000	67 DAVIDSON,H.L.
EDN	30	15	850627	246 JENG,J.-C.
AUAM	16	2	850300	49 PICCIONE,M.L.
AUAM	16	1	850100	54 BORBELY,E.
ELEC	55	18	820908	135 MILLER,D.
MOEL	8	1	910100	72 DESPOSITO,J.
EDN	37	15	920720	214 O'MALLEY,K.
RAEL	57	4	860400	81 ROBILLARD,M.J.
ELEN	57	703	850700	55 HUDSON,M.
ITNS	34	1	870200	119 NAGAI,S.
MIMI	15	2	910300	97 SLATTERY,B.
EWWW	97	1664	910700	596 FINNEGAN,T.
AUAM	23	3	920900	14 MILLER,K.P.
EWWW	99	1687	930600	490 OGDEN,F.
ELDE	34	20	860904	101 CROTEAU,J.
ELDE	32	11	840531	166 MILNE,B.
EDN	33	6	880317	197 MILBERG,M.
ELDE	36	9	880414	101 BURT,R.
ELEN	62	768	901200	33 WILSON,J.
ELLE	27	19	910912	1758 NG,T.-B.
RESC	58	4	870400	584 GRADER,G.S.
ELEN	60	734	880200	36 CHENGALVARAYAN,V.
ITCS	33	8	860800	828 MATSUMOTO,T.
7ART	0	366	910300	30 MOSER,D.
ITIM	34	4	851200	676 PALLOTTINO,G.V.
EEU	2	2	911200	30 PELTZ,G.
EWWW	98	1679	921100	910 DARRINGTON,P.
EDN	33	14	880707	135
PE	9	6	920600	41 ANTONUK,L.R.
JOPH	16	12	831200	1134 WILLIAMS,P.
M060	17	1	880100	35 TIHANYI,J.
EDN	36	17	910819	153 WILLIAMS,J.
STV	4	9	860900	24 BARR,B.
RAEL	61	5	900500	70 LANCASTER,D.
EDN	35	19	900917	79 PRYCE,D.
EDN	29	12	840614	242 HAVER,R.
ELDE	38	20	901025	71 JUNG,W.
EDN	36	23	911107	280 WILLIAMS,J.
JOPH	17	6	840600	451 DIMOV,S.S.
EDN	33	6	880317	198 BLOMBERG,E.
EDN	33	13	880623	222
M088	9	11	881100	16 WILLIAMS,J.
ELDE	40	23	921112	75 WILLIAMS,J.
ELDE	36	27	881208	105 HUFFMAN,B.
EDN	30	1	850110	201 WILLIAMS,J.
EDN	33	22	881027	329 DOBKIN,R.

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EDN	30	13	850613	129 WILLIAMS,J.
EDN	37	4	920217	156 LEE,M.
EDN	32	17	870820	203 BONOMI,M.
EDN	30	22	851003	187 HODGE,S.
ELDE	35	9	870416	49 GOODENOUGH,F.
ELDE	33	17	850725	129 REDFERN,T.
RAEL	58	11	871100	124 SCOTT,R.F.
ETT	12	1	880100	35 BISHOP,O.
EDN	36	6	910314	82 CONNER,D.
EDN	37	2	920120	134 WILLIAMS,J.
EDN	37	11	920521	170 ENGLE,J.L.
ELDE	40	26	921217	68 WILLIAMS,J.
ELDE	30	19	820916	99 HAYNES,D.R.
ELDE	33	17	850725	139 JAFFE,H.
APSP	42	5	880700	872 MASAMBA,W.R.
ELDE	38	24	901227	26 GOODENOUGH,F.
EVEL	15	11	861100	596 BISHOP,O.
EDN	32	22	871029	249 MOMII,S.
EDN	30	26	851128	279 ARCHER,W.R.
EDN	29	24	841129	183 WILLIAMS,J.
ELEN	58	719	861100	34 KARNAL,A.
ELEN	58	713	860500	113
EDN	31	1	860109	127 WILLIAMS,J.
EDN	30	7	850404	264 TRAVIS,B.
TRAS	29	3	860500	707 REICHARD,D.L.
ELDE	36	26	881123	123 HAGEMAN,S.C.
EDN	34	22	891026	203 MARKELL,R.
ELDE	37	26	891228	42
ELDE	38	9	900510	85 BOULAY,P.
ELDE	38	12	900628	101 GOODENOUGH,F.
ELDE	39	14	910725	53 GOODENOUGH,F.
ELDE	34	20	860904	139 TEZA,J.
JOPH	15	1	820100	114 COLLINGS,N.
ELEN	58	711	860300	33 GAUKRODGER,D.M.
ELDE	34	10	860501	213 HILDEBRANDT,E.
EDN	29	4	840223	249 GAUEN,K.
AUAM	18	3	870700	49
MESC	1	8	900800	687 SPREADBURY,P.J.
EDN	35	25	901206	217 RICH,A.
ITIM	40	2	910400	343 SPREADBURY,P.J.
EDN	38	6	930318	103 KERRIDGE,B.
ELDE	36	26	881123	107 GRAEME,J.
ELDE	40	4	920220	103 LEE,M.
ETT	12	4	880400	21
RAEL	59	11	881100	87 BALL,C.R.,JR.
RESC	51	9	800900	1267 KARKIEWICZ,L.M.
HARA	22	11	891100	80 LOMBARDI,B.
MOEL	7	9	900900	61 DESPOSITO,J.
EDN	36	2	910121	170 HUFFMAN,B.

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EDN	38	21	931014	102 MISZCZAK,J.
RESC	61	2	900200	917 SA,C.J.
HAEL	2	4	850400	35 SCOTT,R.F.
IJEE	23	4	861200	349 SZUBA,S.
ELDE	33	21	850905	169 METCALF,M.
ELDE	37	9	890427	101 GOODMAN,R.
ELDE	31	10	830512	151 SHACKLE,P.W.
ITNS	36	1	890200	377 ZIOULAS,G.
ELDE	32	7	840405	119 POHLMAN,J.
HARA	22	4	890400	100 MCMULLEN,T.
EEU	1	11	910900	34
ELDE	39	17	910912	111 MILLER,R.S.
M148	82	1	910401	51 SAID,J.
ITED	34	1	910200	123 LONNGREN,K.E.
EDN	27	21	821027	241 FREEMAN,W.
73AM	0	258	820300	58 CHRISTIAN,J.R.
ITPE	5	3	900700	314 CARPENTER,G.
M038	233	4	751000	120 STONG,C.L.
PHED	21	2	860300	94 BRUCE,P.J.
EWWW	97	1665	910800	674 SCOLIO,J.
EDN	36	19	910916	204 OCHI,S.
CODE	23	2	840200	203 CHAY,J.K.
CODE	20	9	810900	86 EIDSMORE,D.
NIMA	281	3	890915	462 HEMMI,Y.
ELDE	33	12	850530	127 GOODHUE,G.
M008	8	1	870100	32 GOODHUE,G.
RESC	59	2	880200	328 CHOI,P.
ELDE	36	29	881222	34
AUEL	10	3	770300	19 HOFFMAN,H.
EUNE	3	3	770403	53 HOFFMAN,H.
NUIN	169	0	800200	373 HENDRICKS,R.W.
ELDE	40	15	920723	59 THURBER,C.
ELEN	64	788	920800	27 THURBER,C.
ITCE	33	3	870800	405 ROBINSON,J.M.
ELWI	92	1611	870100	35 SAUNDERS,M.
EDN	38	8	930415	200 NAKAMURA,W.S.
NUIN	180	0	810200	615 CIPOLLA,S.
BYTE	5	6	800600	42 CIARCIA,S.
RAEL	51	9	800900	66 CHEAIRS,L.S.
JONE	35	2	901100	157 TOURTELLOTTE,W.G.
NIM	214	2	830901	385 SMITH,P.
BYTE	5	8	800800	238 HOBSON,J.
COEL	21	10	831000	85 HARDING,S.E.
EDN	28	18	830901	147 POPE,K.W.
ELTO	9	5	850500	61 MICHAEL,J.
RAEL	59	1	880100	51 LINDELL,K.
HAEL	2	1	840100	80 HUBIN,W.N.
HAEL	2	6	851100	49 COOPER,J.
POEL	20	7	820700	66 RAICH,K.

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BYTE	5	1	800100	122	JOYCE,E.
RAEL	55	8	840800	76	SAVAGE,E.
M054	39	3	900800	205	CASAS,E.
NIMA	259	3	870915	466	ABE,F.
JOPH	14	10	811000	1143	FOWLES,M.
RAEL	60	12	891200	55	MARSTON,R.M.
COCR	1	4	910700	60	MEYER,M.
7ART	0	380	920500	20	RAKES,C.D.
PE	9	7	920700	70	RAKES,C.D.
MIMI	9	6	850700	300	ABDEL-FATTAH,A.
ELTO	11	2	870200	48	
ELTO	10	5	860500	47	HARDING,P.
ELEC	50	21	771013	94	TSAO,S.H.
RAEL	58	6	870600	40	TUPUE,E.B.
INJO	66	6	890500	725	MAHMOOD,M.K.
ELEN	63	776	910800	24	QING,H.Y.
EEU	2	9	920700	77	EVANS,R.
RESC	48	5	770500	574	DEFREES,D.J.
REW	0	0	840600	27	LOCKE,D.R.
RESC	48	10	771000	1256	OERTEL,F.H.,JR.
ELTO	9	11	851100	10	SCHMIDT,R.
ELDE	38	5	900308	59	GAUVIN,J.J.
ELDE	31	4	830217	153	RAO,V.
HARA	21	4	880400	56	MORK,B.J.
ELEC	51	13	780622	148	SIX,R.E.
EDN	34	25	891207	258	DREIER,B.
M043	8	11	890600	98	DISTEFANO, T.
PE	7	12	901200	71	YOUNG,R.A.
COCR	3	6	930600	16	AVRITCH,S.
COEL	21	5	830500	57	HARTKOPF,R.
INJO	53	1	820700	83	RAHMAN,A.
MIAP	11	4	881000	337	ROUSE,I.E.
RESC	58	10	871000	1833	VITERBINI,M.
JOPH	14	5	810500	615	WAUGH,A.R.
ETI	7	5	830500	71	SINCLAIR,I.
RESC	56	7	850700	1468	VISWANATHAN,R.
AMJO	43	9	750900	801	TEMPLE,P.A.
WW	89	1566	830300	36	CARACAUSI,F.P.
POEL	7	2	750200	50	GLICK,J.
ELTO	8	10	841000	20	BOYCE,G.
HAEL	3	4	860700	33	MCGLINCHY,M.
ELDE	28	16	800802	100	DECLERCQ,M.J.
EDN	37	26	921224	121	BAI,S.-S.
ELDE	38	22	901122	136	MEKHIEL,N.
EDN	36	12	910606	174	ZIA,Y.
ELTO	9	3	850300	14	SILVESTER,D.J.
INJO	65	5	881100	1039	LEISTEN,J.
M076	3	4	830800	7	NELSON,P.J.
ELDE	30	23	821111	145	ROTHMULLER,K.

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CODE	19	7	800700	85 GUPTA,B.K.
RAEL	59	3	880300	49 ROBERTS,H.E.
ELWI	93	1617	870700	739 MARGAN,E.
73AM	0	257	820200	34 BROWN,D.J.
ELDE	41	15	930722	87 KATZNELSON,D.
MIMI	16	8	920800	403 ALLINSON,N.M.
ETI	6	5	820500	65 SINCLAIR,I.
ELHA	0	0	861000	19
POEL	20	1	820100	90 MIMS,F.M.
LAPR	33	7	840700	76 COFRE,P.
BYTE	7	7	820700	60 CIARCIA,S.
EDN	29	24	841129	139 MCMAHAN,S.R.
PHTE	28	1	900100	12 WINTERS,L.M.
EDN	31	1	860109	216 KOGA,B.
COCH	14	1	900100	1 JORDE,C.
RAEL	61	6	900600	31 RAFAELS,R.
AMJO	55	11	871100	1050 HUANG,W.F.
CICE	1	4	880700	21 VOORHEES,M.
COEL	22	4	840400	22 MIMS,F.M.,III
MIAP	8	4	851000	359 RANDALL,E.W.
WW	89	1567	830400	34 BACON,M.D.
JOPH	22	2	890200	129 LIU,Z.
ELDE	41	9	930503	101 GUENTHER,E.
PE	6	2	890200	36 CLARKE,J.
HARA	22	3	890300	23 BUELOW,B.
M008	8	1	870100	21 ROBERTS,M.
CAL	1	3	830300	199 CROOKES,J.N.
M150	31	1	850100	67 BOWMAN,G.E.
EEU	2	2	911200	28 GEMBRIS,D.
ITIA	26	4	900700	756 ERDMAN,W.L.
CICE	0	30	921200	24 BROPHY,R.
QST	71	6	870600	15 POWELL,S.
NIM	197	0	820600	507 TOMITANI,T.
SKTE	72	3	860900	295 SIMONS,D.
DIDE	8	10	781000	60 FERGUSON,B.
EDN	32	18	870903	227 ARTUSI,D.
73AM	0	341	890200	42 RADER,C.
MADE	57	4	850221	241 VALENTINE,R.J.
COCR	2	7	920700	14 BEARD,B.B.
RESC	54	12	831200	1638 MOESLE,D.
ESD	17	2	870200	49 GOODMAN,R.
TRAS	23	1	800100	57 SUMMERS,J.D.
COCR	2	9	920900	46 GOSS,N.
M119	15	5	860500	56 HOWE,G.S.
PE	8	11	911100	27 VOLLONO,V.
TRIN	8	5	861000	241 BIRCH,M.R.
BYTE	13	4	880400	263 CIARCIA,S.
QST	66	7	820700	17 CARTER,F.E.H.
ELEC	56	15	830728	130 HOWELL,J.D.

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CICE	0	11	891000	40 CANTRELL, T.
JMET	10	2	860300	67 KIRSNER, R.L.G.
JOPH	16	4	830400	278 NEELAKANTAN, K.
AUAM	21	2	900400	8 MARCHESE, P.
NIMA	269	1	880601	33 BHADRA, S.
MOEL	6	2	890200	18 HALA, L.
NIM	189	0	811000	503 JONES, A.R.
ANCH	55	9	830800	1509 LAST, T.A.
PE	6	9	890900	88 RAKES, C.D.
ELEN	63	772	910400	26 SHKARUPIN, V.
ELDE	31	21	831013	78
73AM	0	269	830200	72 PHARR, D.
ELWI	91	1593	850900	55 BENNETT, P.G.
EWWW	97	1678	920900	764 KORTE, T.
ANIN	15	2	860200	171 PIHLAJAMAKI, S.V
PE	6	6	890600	88 RAKES, C.D.
LAPR	34	2	850200	80 WILSON, J.
ELEC	56	12	830616	126 PSHAENICH, A.
NIMA	279	3	890715	599 ROBERTSON, S.H.
M179	27	9	910900	57 ARMSTRONG, A.
EEU	2	9	920700	54 SCHONHOFF, K.
ELTO	11	2	870200	57 TILBROOK, D.
EDN	34	4	890216	156 KOCH, J.K.
HARA	14	6	810600	72 HRESKO, S.
EEU	2	9	920700	69 RUITERS, J.
ITPE	6	2	910400	179 THOTTUVELIL, V.J.
RAEL	55	6	840600	92 SCOTT, R.F.
AUAM	21	4	901000	39 SCHUBERT, A.
ELWI	93	1618	870800	823 FINCH, P.
ELTO	9	5	850500	24 WALKER, P.
POEL	17	1	800100	67 PEPPER, C.S.
ELWI	93	1612	870200	185 CLARKE, D.E.A.
ELDE	33	9	850418	193 FRANK, R.
PE	6	8	890800	80 RAKES, C.D.
INJO	63	6	871200	905 AGRAWAL, S.L.
POEL	15	4	790400	35 METZGER, D.
EWWW	98	1679	921100	948
EUJO	8	1	870100	34 SCONZA, A.
ITED	31	2	880500	85 MORGAN, S.M.
PE	6	10	891000	84 RAKES, C.D.
ELEN	64	782	920200	26 PANG, T.
CICE	0	33	930400	24 HUBERT, J.C.
HARA	5	9	880900	84 RAKES, C.D.
RAEL	59	12	881200	49 PENCE, S.
CQ	47	7	910700	22 BASILETTI, D.
ETI	7	1	830100	28
ETI	7	4	830400	25 ELAM, A.
POEL	20	5	820500	69 ULEVICH, N.
CODE	25	6	860315	75 OLSON, T.

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HAEL	5	9	880900	29 FOX,T.
ANCH	59	2	870115	244 MIKKELSEN,S.R.
ELLE	25	12	890608	803 GHIGGINO,P.
M046	14	9	880900	36 GAUEN,K.
PE	6	2	890200	24 WELS,B.G.
RESC	49	10	781000	1477 KREHL,P.
M004	2	1	830300	17 JEUTTER,D.C.
ITIE	31	2	840500	152 ALLOS,J.E.
73AM	0	360	900900	48 COVINGTON,M.A.
RFDE	11	3	880300	47 BROWN,F.
ELDE	32	13	840628	281 ALEXANDER,M.
M126	0	148	891100	22 CRONK,J.
HAEL	4	6	870600	61 GROSSBLATT,R.
HAEL	2	4	850400	82 GORDON,H.
EWWW	95	1645	891100	1099 BARROW,E.
ITC1	39	4	920400	312 FILANOVSKY,I.M.
POEL	16	6	791200	60 BARBARELLO,J.
EEU	2	4	920200	60 SCHOENHOFF,K.
ETI	7	9	830900	61
ELDE	31	25	831208	215 DECESARI,R.J.
73AM	0	274	830700	12
ELCH	296	2	901224	537 MARECEK,V.
RESC	61	3	900300	1004 COVA,S.
EEU	2	3	920100	42 HUEBER,F.
RESC	62	9	910900	2125 JUNG,K.-H.
RAEL	60	11	891100	43 BLACK,T.E.
EDN	30	5	850307	224 NEWMAN,A.L.
NIMA	321	1	920915	271 BLAGUS,S.
M119	15	5	860500	33 BORREBAEK,O.
HAEL	4	12	871200	64 LOVELOCK,P.A.
INJO	60	1	860100	23 BIMBERG,D.
ITIM	35	3	860900	249 SMALL,G.W.
AUAM	17	3	860800	56 MASTEL,W.J.
PE	6	11	891100	39 GIAMPORTONE,M.
7ART	0	376	920100	58 BROWN,B.
ELWI	93	1618	870800	806 LOVEDAY,G.C.
EWWW	99	1683	930200	140 HICKMAN,I.
JONE	7	2	830200	157 MILLAR,J.
PE	8	3	910300	24 WELS,B.G.
TRIN	7	5	851200	228 LINKENS,D.A.
PHED	22	3	870500	182 GRIFFITHS,I.W.
EWWW	96	1652	900600	527 BENNETT,P.
ELEN	57	702	850600	33 TAVORA,J.
ELNO	64	5	930500	81 GROSSBLATT,R.
ELTO	8	12	841200	28 WALKER,P.
ELEC	51	20	780928	126 DUGAN,K.
7ART	0	382	920700	60 SALAS,P.
EPD	12	9	910900	20 MORRIS,H.
NIMA	317	1	920615	315 HOBSON,P.

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JOPH	18	11	851100	930	KAPOOR,R.
ELDE	41	1	930107	6	
ELWI	90	1578	840300	42	HOJLEV,P.
RESC	53	11	821100	1786	HALPERN,J.B.
ELEC	53	2	800117	127	LESER,B.
PHED	24	3	890500	177	DANCE,G.P.
EDN	30	17	850725	307	DATTORRO,J.
ELEN	60	737	880500	25	CYBULSKI,G.
M064	3	3	810700	239	BASON,P.T.
ELEN	62	764	900800	9	
ELDE	39	10	910523	120	FADUL,F.
ELDE	30	4	820218	206	MORLEY,M.
ITCS	22	7	750700	603	BASS,S.C.
EUJO	13	1	920100	32	GOUGH,W.
ELEC	49	2	760122	96	SCOTT,C.
ELEC	51	6	780316	151	LIESKE,S.
INJO	56	2	840200	211	CHEUNG,W.N.
AJP	240	3	810300	250	MOLIMARD,R.
AUAM	17	4	861000	46	FOSTER,A.
EWWW	97	1660	910200	118	BENNETT,P.
ELWI	94	1623	880100	50	FRIZELL,C.
HAEL	5	4	880400	37	
NIMA	224	1	840701	173	MATOBA,M.
WW	89	1567	830400	51	ASHBY,J.
AJP	232	4	770400	437	SHEPHERD,A.P.
ELDE	36	10	880428	122	EICHENBERG,D.
ELTO	10	9	860900	44	MOXHAM,J.
QST	67	1	830100	45	GULATSI,D.
NIMA	269	1	880601	63	ASCOLI,G.
NIMA	302	2	910415	339	BRENDLE,M.
ELDE	38	2	900125	81	BARNETT,T.G.
CQ	48	6	920600	80	MATH,I.
73AM	0	285	840600	70	KOLTHOFF,K.
JOAU	36	1	880100	3	BAXANDALL,P.J.
73AM	0	287	840800	11	ENGLE,B.
PE	6	9	890900	79	YACONO,J.
HARA	20	3	870300	99	CARR,J.
COCR	1	9	911200	52	AXELSON,J.
ELTO	10	12	861200	14	NALTY,G.
RAEL	52	2	810200	51	LANDFEAR,D.
M043	10	11	910700	10	GOODMAN,M.H.
QST	66	11	821100	30	CHAPMAN,C.P.
COCR	1	3	910600	44	MEYER,M.
NIM	197	0	820600	379	BALDWIN,A.R.
JOPH	20	6	870600	662	HALAS,S.
RFDE	12	10	891000	35	HOFFERT,W.J.
NIMA	236	1	850501	206	REGAN,T.
ELDE	31	6	830317	143	NAYLOR,J.R.
ELEN	62	767	901100	26	SHARROCK,P.

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RESC	53	8	820800	1270	RAEV,N.
ELEC	51	5	780302	129	VOGEL,R.
EDN3	6	2	910121	77	PRYCE,D.
CICE	0	12	891200	69	CANTRELL,T.
7ART	0	378	920300	22	MILLER,D.C.
JOPH	13	4	800400	387	TRACA,A.
ELEC	55	4	820224	123	KONGABLE,L.S.
MESC	2	1	910100	75	POLISCHUK,B.
ELDE	31	18	830901	145	DAVIS,W.F.
RFDE	13	8	900800	55	RANDALL,M.
AUAM	19	3	880800	45	HENRICHSEN,A.L.
EDN	27	22	821110	131	JUNG,W.G.
EWWW	97	1671	920200	114	COOK,L.
RCM	15	7	780700	66	ODDINO,J.
JOCH	62	8	850800	717	AYMES,D.J.M.
HARA	11	1	780100	94	STONE,K.
ELDE	40	2	920123	69	ORENSE,L.R.
ETI	6	8	820800	60	SINCLAIR,I.
RESC	49	5	780500	629	OHISHI,T.
AUAM	23	4	921200	24	WILLIAMS,L.R.
NIMA	247	1	860601	231	BEECHY,D.G.
RFDE	9	9	860900	76	VIZMULLER,P.
ELEC	56	15	830728	131	HENRY,T.
M077	27	2	770500	91	STEVENSON,R.A.
AJP	234	3	780300	312	HONDEGHEM,L.M.
JEPT	14	2	870200	121	SUZUKI,H.
ITNS	33	1	860200	399	LANDIS,D.A.
ITNS	37	3	900600	1478	TAKAHASHI,T.
ANCH	51	8	790700	1267	HOFFMAN,R.M.
POEL	19	3	810300	79	ROBERTS,J.
NIMA	307	2	911001	254	RAY,R.
POEL	14	6	781200	78	GARNER, L.
M002	17	190	910600	46	LEMON,L.
RESC	56	2	850200	268	AUBEL,J.L.
JOPH	20	11	871100	1426	MIKHAILOV,M.A.
ITCS	38	2	910200	202	AVITABILE,G.
73AM	0	273	830600	42	CEBIK,L.B.
M093	17	11	851100	16	GUPTON,J.A.,JR.
ELDE	28	15	800719	163	COLEMAN,V.
ELWI	93	1601	860300	64	BARR,W.E.
HAEL	5	7	880700	69	GUPTON,J.A.,JR.
ELDE	34	17	860724	101	AGRAWAL,O.
ELEC	49	4	760219	128	SHERROD,P.
73AM	0	276	830900	40	BISCHOFF,G.
M049	57	2	900200	116	ATKINSON,J.S.
INJO	59	2	850800	129	KHAN,A.A.
RAEL	63	3	920300	65	MARSTON,R.
EDN	31	21	861016	211	KHU,A.
ANCH	57	13	851100	2481	NARASAKI,H.

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RFDE	9	8	860800	45 APTE,D.
PE	6	7	890700	80 RAKES,C.D.
RESC	57	10	861000	2627 ZHOU-JING,Y.
ELWI	91	1591	850500	55 KRAUS,K.
73AM	0	342	890300	66 KUBICHEK,D.R.
EWWW	96	1654	900800	725
ITIM	40	6	911200	919 KHAN,A.A.
CQ	40	7	840700	62 SULLIVANT,E.
QST	70	3	860300	82 ATKINS,B.
QST	69	4	850400	32 ANGLE,E.R.
RFDE	10	3	870300	54 BROWN,F.
ETT	13	12	891200	8 KNIGHT,S.
QST	67	9	830900	33 DEMAW,D.
EDN	30	19	850822	163 ROBINSON,K.
EDN	30	19	850822	110 CORMIER,D.
POEL	16	2	790800	31 WINDOLPH,P.
ELEC	53	3	800131	98 KULARATNA,A.D.V.N.
JOCH	59	8	820800	674 UPHAUS,R.A.
ELEC	55	15	820728	110 BURNS,S.H.
73AM	0	275	830800	8 OLIVER,D.L.
RESC	54	6	830600	759 SRINIVASAN,K.
INJO	74	4	930400	643 KHAN,A.A.
RAEL	59	1	880100	45 PERKINS,D.M.
AUAM	23	1	920300	58 STAGGS,D.E.
EDN	34	2	890119	131 GRAEME,J.G.
RESC	54	6	830600	701 ERICKSON,L.E.
M064	12	2	900300	172 JAMIESON,M.
EDN	28	11	830526	236 BERKBIGLER,L.
MIRF	30	7	910700	101 MAYLE,E.E.
73AM	0	258	820300	20 VANDER RYD,J.
ELLE	23	11	870521	549 HINCHCLIFFE,S.
ELEN	59	727	870700	48
RESC	63	3	920300	2044 KIRKUP,L.
ITPE	6	1	910100	118 JAHNS,T.M.
CICE	0	9	890600	44 BACHIOCHI,J.
MEBI	25	4	870700	467 GLERUM,J.J.
RFDE	15	2	920200	27 BREED,G.A.
MOEL	5	3	880300	54 GILDER,J.H.
EDN	29	15	840726	362 JOCHEM,W.
NIMA	224	1	840701	161 GILMORE,R.S.
QST	66	6	820600	26 THEROUX,T.
ELLE	24	16	880804	1041 DELAVARI,A.
MESC	3	9	920900	815 HANSEN,C.H.
RAEL	55	9	840900	80 GROSSBLATT,R.
JMET	5	3	810500	138 LUNT,M.J.
QST	67	7	830700	73 ATKINS,B.
ELDE	30	7	820331	117 SIEBERT,B.
ETI	7	8	830800	70 FOOTE,G.
WW	87	1551	811200	58 MAXWELL,J.

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BYTE	8	12	831200	36 CIARCIA,S.
IEEB	139	1	920100	26 LOW,T.S.
COEL	21	5	830500	96 MIMS,F.M.,II
AUAM	23	1	920300	32 GRAHAM,P.W.
73AM	0	287	840800	70 SCHMIDT,R.W.
ELEC	49	3	760205	90 JUNG,W.G.
MIMI	10	7	860900	386 RAO,P.P.
AUAM	18	4	871100	48 EDGAR,B.
NIMA	295	1	901001	86 ANDERSON,E.W.
NIM	192	0	820100	375 GOSWAMI,G.C.
RFDE	10	1	870100	39 MUELLER,O.
INAG	5	4	800400	108 MACDOUGALL,J.
MEBI	20	4	820700	523 MOORE,T.W.
EDN	32	18	870903	239 RUMMEL,E.W.
BYTE	7	5	820500	457 FOSTER,C.C.
ELEC	50	16	770804	108 WRIGHT,G.O.
ELTO	11	6	870600	33 TOOLEY,M.
MISY	5	4	840400	62 MOSKOWITZ,L.
POEL	11	1	770100	59 LANG,D.R.
ELDE	38	9	900510	103 MULTER,G.
7ART	0	391	930400	42 CARR,J.J.
RAEL	61	2	900200	67 LANCASTER,D.
ITIM	33	3	840900	218 CHEN,C.F.
RAEL	60	9	890900	65 LANCASTER,D.
POEL	11	1	770100	71 FREEMAN,S.M.
COCR	2	2	920200	72 MIMS,F.M.,III
MOEL	6	5	890500	72 MIMS,F.M.,III
ELTO	9	8	850800	35 HEANEY,L.
RAEL	57	10	861000	61 SAWKIW,L.B.
EDN	29	14	840712	342 NICHOLS,C.
ELTO	11	6	870600	18 TOOLEY,M.
EDN	31	14	860710	256 RICKMAN,S.
ITC1	39	2	920200	152 FABRE,A.
ELDE	30	18	820902	143 JOHNSON,D.
ELDE	38	4	900222	140 WYATT,M.A.
ETT	12	7	880700	25 PAYNE,R.G.
RAEL	54	7	830700	74 ULMER,D.
INJO	60	5	860500	587 BERGMAN,G.D.
ELEC	50	25	771208	118 JIRAPHASRA,P.
RAEL	53	12	821200	84 RICKLIES,D.F.
POEL	18	3	800900	120 TOWLE,R.
EDN	30	16	850711	281 COLOTTI,J.
EDN	33	2	880121	210 YIU,H.
73AM	0	333	880600	64 PUTMAN,P.
PE	8	2	910200	67 HAMPTON,R.
EDN	30	3	850207	233 BARNETT,T.G.
RAEL	59	12	881200	57 NERY,T.A.
RESC	59	7	880700	1248 KEEN,G.R.
M064	3	2	810400	107 FORSTER,I.C.

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ETT	14	5	900500	16 RAVEN,M.
POEL	19	6	810600	67 BRESNICK,H.L.
COCR	2	11	921100	58 KERR,J.
RAEL	53	4	820400	44 KRAENGEL,W.D.JR.
RESC	55	5	840500	812 SMITH,S.W.
POEL	14	3	780900	78 PENNY,J.B.
MOEL	7	9	900900	56 MIMS,F.M.,III
EWWW	97	1675	920600	507 HARTSUIKER,H.
ELDE	39	21	911107	106 SALVATI,M.J.
BYTE	2	10	771000	11 WEISSIG,F.A.
ITIM	35	4	861200	521 KATZMANN,F.L.
CQ	40	1	840100	20 SOLOV,E.
HARA	22	12	891200	30 LYSTER,C.
BYTE	5	12	801200	120 BOOCH,E.G.
73AM	0	331	880400	25 MCLANAHAN,D.
73AM	0	354	900300	14 WITMER,J.R.
RAEL	54	5	830500	57 GLINSKI,L.
EDN	37	4	920217	155 JOHNSON,D.A.
PE	7	7	900700	37 VAUGHT,M.A.
7ART	0	397	931000	54 BRYCE,M.
IJEE	27	1	900100	13 SHELLEY,R.B.
QEX	0	38	850400	3 SUNDSTROM,J.L.
CICE	0	21	910600	86 BACHIOCHI,J.
M016	29	13	900501	1901 DE MAZIERE,M.
RAEL	61	7	900700	56 MARSTON,R.
POEL	18	1	800700	53 ROBERTS,J.
ITED	26	1	830200	39 AHMED,M.T.
EDN	31	10	860515	184 HAASE,J.A.
NIMA	323	1	921201	97 MYALITSIN,V.K.
ELDE	36	8	880331	126 SALERNO,C.
BYTE	5	11	801100	86 OLSON,H.
RESC	59	9	880900	1924 HADENER,K.
ITNS	33	1	860200	862 SANDERS,H.
ITIM	36	1	870300	77 RIZKALLA,M.E.
EDN	36	12	910606	182 LEONG,P.
ETI	7	9	830900	44
NIMA	268	1	880510	190 GONG,W.G.
RESC	53	11	821100	1749 PURSHOTHAM,M.
QST	61	8	770800	40 BERG,T.
ELDE	39	12	910627	106 VANDANA,J.
RAEL	54	12	831200	58 GROSSBLATT,R.
ELEN	63	776	910800	24 SENGUPTA,R.N.
RAEL	61	4	900400	53 MARSTON,R.
RESC	63	11	921100	5426 SHYAMSUNDER,E.
ELNO	63	9	920900	79 SHEETS,W.
EDN	35	12	900607	138 SCHNEIDERMAN,I.
POEL	20	2	820200	59 BERGAN,M.
SICH	4	10	911000	12 CLARKE,J.
ELDE	37	16	890727	69 LAKSMINARAYANAN,V.

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MIMI	13	5	890600	328 DUNLOP,J.
EDN	32	4	870219	204 STEFENEL,R.
JOPH	16	8	830800	747 KUMASHIRO,Y.
ETT	13	8	890800	34 DE VAUX-BALBIRNE,T
ELDE	35	28	871127	97 ANTONIAZZI,P.
ELEC	55	19	820922	155 BARNETT,D.M.
ITIM	37	2	880600	296 YANG,J.-R.
ELEN	56	692	840800	79
ELWI	92	1604	860600	61
CICE	1	3	880500	4 DAVIDSON,K.
RAEL	59	11	881100	55 MCLELLAN,G.
BYTE	5	9	800900	326 DEGLER,R.L.
EWWW	96	1654	900800	726
RFDE	14	2	910200	106 GRANBERG,H.O.
COCR	2	4	920400	61 AXELSON,J.
BYTE	4	9	790900	10 CIARCIA,S.
ELDE	36	24	881027	135 JIMENEZ-GARCIA,R.
ELWI	93	1600	860200	34 NALTY,G.
EDN	28	1	830106	138 MEIN,J.C.
ELDE	40	19	920917	90 ORENSE,L.R.
RESC	53	12	821200	1894 MUREDDA,L.
LAPR	33	10	841000	116 EWEN,G.J.
JOAU	30	5	820500	282 CHERRY,E.M.
QST	70	12	861200	32 WILLIAMS,F.
MESC	4	6	930600	665 MIZUMOTO,I.
PE	8	7	910700	41 YOUNG,R.A.
ELNO	63	11	921100	57 SWEENEY,D.J.
BYTE	10	4	850400	120 HAWLEY,J.
EDN	36	10	910509	175 GERSTENHABER,M.
HAEL	3	4	860700	57 GIFFORD,J.D.
POEL	14	1	780700	72 GARNER,L.
AUAM	23	2	920600	10 GALO,G.
AUAM	23	3	920900	34 GALO,G.
ITIM	31	3	820900	198 FANG,R.C.Y.
MOEL	5	6	880600	56 SHOEMAKER,C.
JOPH	19	9	860900	686 HUGHES,J.R.
RESC	57	5	860500	983 LEE,H.E.
JOAU	30	5	820500	295 CHERRY,E.M.
ELDE	32	10	840517	151 DINTERSMITH,T.
TRIN	8	2	860400	76 ABBAS,H.J.
RESC	62	2	910200	516 IMAINO,W.
JOCH	61	9	840900	788 WAGNER,W.S.
NIMA	13	3	920315	506 HUNTER,S.D.
ELDE	28	4	800215	156 RUBINSTEIN,M.
EDN	37	15	920720	207 ZINNIKER,R.
POEL	7	2	750200	17
ELEC	49	7	760401	104 GRAF,C.R.
RAEL	57	6	860600	63 SIMPSON,L.
RESC	61	9	900900	2439 GERSTEIN,B.C.

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QEX	0	64	870600	11 OLSON,B.
EWWW	96	1649	900300	250
MOEL	6	3	890300	57 MIGA,D.
RESC	49	12	781200	1716 GUALTIERI,D.M.
RFDE	11	9	880900	41 MIYAGAKI,K.
ITNS	39	5	921000	1292 DAM,P.
ELWI	93	1617	870700	704
ANCH	58	8	860700	1900 BASS,D.A.
M046	14	9	880900	84
JOPH	20	10	871000	1223 GREGG,J.F.
ITPE	3	4	881000	484 MIDDLEBROOK,R.D.
COEL	21	4	830400	76 MANGIERI,A.
ITNS	36	1	890200	680 DELCHAMPS,S.W.
AUDI	67	6	830600	64 SALVATI,M.J.
RAEL	61	8	900800	45 RAFAELS,R.
73AM	0	271	830400	106 FERRANTI,R.
NIMA	226	1	840915	72 BOETTCHER,H.
RESC	57	7	860700	1440 SMITH,S.W.
AUAM	19	2	880500	7 CHATER,W.T.
AUAM	19	3	880800	35 CHATER,W.T.
AUAM	15	4	840900	49 EDGAR,B.C.
ITCS	37	1	900100	54 SINGER,S.
NIMA	226	2	841001	560 JACKSON,H.G.
EWWW	96	1649	900300	214 FORTE,A.
RESC	64	5	930500	1296 MEINERS,L.G.
RESC	60	5	890500	951 SULKES,M.S.
ELEC	51	15	780720	145 BARNETT,T.G.
RAEL	53	10	821000	148 SCOTT,R.F.
AUEL	9	12	761200	18 DANCE,J.B.
ELEC	49	25	761209	96 PENN,T.C.
RFDE	5	2	820300	12 ASH,D.L.
RESC	53	1	820100	38 CROSS,J.B.
ELEC	56	3	830210	155 CONWAY,D.W.
POEL	14	4	781000	69 BEENE,G.
ELTO	11	2	870200	66 CHERRY,E.M.
ETI	7	8	830800	17 CHERRY,E.M.
HAEL	5	7	880700	73 ALLEN,S.
CICE	0	22	910800	81 BACHIOCHI,J.
NIMA	242	1	851215	75 BATLEY,R.
ELDE	28	22	801025	163 WURZBURG,H.
ELEC	53	4	800214	154 HAVER,R.J.
ETT	13	2	890200	30
M193	2	7	920900	12 BRICE,R.
ELTO	8	9	840900	14 HOOD,L.
POEL	13	3	780300	47 SIKONOWIZ,W.
POEL	16	3	790900	47 ROBERTS,J.H.
ELWI	94	1623	880100	74
EVEL	16	1	870100	44 SMITH,T.
ELTO	11	4	870400	16 SMITH,T.

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M007	20	6	861100	30 GAINES,J.
73AM	0	272	830500	14 CLOWER,P.
POEL	19	6	810600	76 VALESCU,M.T.
M119	15	5	860500	43 HOOD,J.L.
ELWI	93	1616	870600	573
EWWW	97	1674	920500	402 MCCORMICK,T.
RAEL	55	10	841000	100 SCOTT,R.F.
HAEL	2	4	850400	36 SCOTT,R.F.
PE	9	4	920400	67 RAKES,C.D.
ELTO	9	12	851200	43 PHILLIPS,G.
MIAP	8	2	850400	181 ATHANI,V.V.
ELDE	38	2	900125	84 HAASE,J.A.
RAEL	55	3	840300	43 ROSETH,G.
RAEL	61	2	900200	54 MARSTON,R.M.
PRIR	41	3	800900	101 DONAGHY,F.A.
PE	7	10	901000	80 RAKES,C.D.
ITIM	30	4	811200	292 VAN DER WALT,P.W.
MESC	2	8	910800	818 WARD,G.
ELEC	50	11	770526	129 KRAENGEL,W.D.
M051	0	0	850100	27 DOBBS,G.
ELEC	56	14	830714	135 CEREIJO,M.
EDN	30	7	850404	261 SHERMAN,L.
PHTE	29	7	911000	468 STREET,J.G.
ELNO	63	11	921100	38 KITCHIN,C.
ELWI	93	1607	861000	62 KUBER,V.B.
73AM	0	332	880500	38 ROBERTS,S.K.
RAEL	62	4	910400	43 CUTHBERT,D.
ELEC	49	3	760205	91 SALVATI,M.J.
ELEC	53	10	800424	130 VALONE,T.
RESC	63	1	920100	90 GUSH,H.P.
EDN	28	2	830120	85 PEASE,R.A.
7ART	0	378	920300	52 KASSEL,B.
EDN	27	17	820901	169 WILLIAMS,J.
EDN	30	11	850516	215 SEGAL,M.
MOEL	6	3	890300	40 CARISTI,A.J.
JOCH	58	7	810700	595 OLESEN,B.
EDN	38	6	930318	238 SCHLICHTING,H.V.
JMET	13	4	890700	215 SYLVAN,K.
EWWW	97	1666	910900	726 NOBLE,R.
ITNS	35	1	880200	231 SPENCER,E.
ELTO	8	6	840600	53
POEL	13	4	780400	41 CARR,J.
POEL	11	2	770200	77 MCVEIGH,J.
POEL	18	2	800800	81 SHAKIR,S.A.
ITBE	30	4	830400	215 WIKSWO,J.P.
NIMA	226	2	841001	405 BROWN,D.
73AM	0	332	880500	90 CANTRELL,D.
NATE	0	0	890100	10 MCLYMAN,W.T.
EDN	36	4	910218	183 SIMOPOULOS,A.

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ELEC	53	6	800313	123 TENNY,R.
EEU	2	9	920700	55 RUITERS,J.
RAEL	58	4	870400	67 LOWELL,C.
NIMA	261	3	871115	527 MANFREDOTTI,C.
QST	69	3	850300	43 NEBEN,H.
M030	33	3	880300	367 RAYMOND,D.M.
ELDE	24	8	760412	124 BLACK,M.F.
POEL	19	2	810200	60
POEL	11	5	770500	61 LEWART,C.R.
POEL	15	1	790100	65 WEISBERG,B.
RESC	17	5	840600	504 LEKKALA,J.O.
CQ	41	12	851200	13 BATTISHILL,D.I.
ETI	7	9	830900	28 RIDOUT,I.
RESC	48	4	770400	389 GOEBEL,J.H.
ITIM	34	4	851200	620 SHVARTSMAN,V.A.
QST	66	1	820100	22 BRAY,E.
ELHA	0	0	861000	52
NIMA	275	1	890201	112 MURAKAMI,T.
RESC	57	11	861100	2691 PRICE,J.C.
QST	66	4	820400	37 COLLINS,G.
68MI	8	2	860200	29 VAN DEN BUSSCHE,E.
HARA	14	12	811200	52 CORNELL,T.
RAEL	60	11	891100	22 PARSONS,J.
RESC	48	8	770800	967 SWEGLE,J.W.
BYTE	3	1	780100	161 BRYANT,J.
MIRF	24	8	850800	87 ISKII,T.K.
ELEC	48	18	750904	118 BUTLER,T.K.
ELWI	93	1600	860200	34 BACON,M.D.
CHBI	12	3	820300	151 UTHMAN,A.P.
NIMA	227	3	841201	499 NORELL,K.E.
ELEN	57	707	851100	36 FOORD,A.
JOMA	37	3	800215	547 ENGLE,J.L.
RESC	48	4	770400	383 KOPP,M.K.
RFDE	13	1	900100	35 GROSJEAN,J.P.
EWWW	97	1677	920800	685 WILKES,A.M.
CHIN	8	1	770100	31 VASSOS,B.H.
POEL	17	2	800200	67 PFEIFER,J.E.
ANIN	19	1	900100	1 VOIGTMAN,E.
ELDE	40	15	920723	62 CARLOSENA,A.
EWWW	97	1668	911100	932 FINNEGAN,T.
ANCH	58	13	861100	2889 HUANG,H.-J.
M016	31	31	921101	6610 ALSOP,D.C.
RAEL	57	5	860500	89 SCOTT,R.F.
RESC	58	12	871200	2334 RUGGIERO,S.T.
RESC	61	9	900900	2436 PALLOTTINO,G.V.
JOCH	63	11	861100	981 RUSSO,T.
QST	67	3	830300	25 DEMAUW,D.
NIM	215	1	830915	183 LINDBLAD,T.
RFDE	4	5	810900	18 DUFOUR,K.

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M125	2	3	890700	6 BILL
RFDE	11	2	880200	32 CRACOVSKI,J.I.
ITPE	2	1	870100	62 LU,K.-H.
ELDE	36	3	880204	79 PAETAU,J.
ELMA	17	1	890700	53 PAHALAWATHTHA,N.C.
ITPE	5	3	900700	276 BARBI,I.
RAEL	61	2	900200	37 AYER,J.B.
ITPE	6	1	910100	39 SABATE,J.A.
ITPE	3	1	880100	72 CASEY,L.F.
BYTE	8	8	830800	36 CIARCIA,S.
ITPE	6	1	910100	151 MAKSIMOVIC,D.
QST	66	5	820500	11 TAMMARU,T.
QST	68	8	840800	18 DEMAW,D.
WW	88	1555	820400	56 WILSON,P.
ITIE	38	4	910800	260 CHO,J.G.
ITPE	6	1	910100	2 MIWA,B.A.
7ART	0	398	931100	10 VALDES,J.R.
EDN	32	3	870205	188 MIZUNO,T.
73AM	0	362	901100	36 HEISHMAN,B.
RFDE	9	10	861000	43 GRANBERG,H.O.
AUEL	8	12	751200	19 DANCE,B.
CLEN	11	1	860100	33 LOVELY,D.F.
NATE	0	0	870800	10 PRAVER,G.A.
M148	71	1	890501	6 GUENA,J.
HARA	20	3	870300	17 HINSHAW,J.
EDN	33	19	880915	191 VISEL,T.
NIMA	295	3	901101	400 GUNJI,S.
MIRF	30	7	910700	116 WAUGH,R.W.
BYTE	9	3	840300	28 CIARCIA,S.
COEL	21	12	831200	82 MEIN,J.C.
EDN	32	12	870611	210 SHAH,M.J.
AUAM	17	2	860500	7 LANG,K.
NIMA	252	1	861115	29 ENGLER,J.
ITCS	34	5	870500	575 POORNAIAH,D.V.
ITNS	32	5	851000	2897 FUJISAWA,T.
NIMA	311	1	920201	57 SAKUDA,J.
ELLE	21	10	850509	417 BROWN,E.R.
ELWI	95	1640	890600	597 DAWES,A.
RESC	58	7	870700	1312 BABA,S.A.
POEL	18	6	801200	45 BOHN,D.
IEEB	139	5	920900	449 KAZIMIERCZUK,M.K.
DIDE	16	2	860200	57 WILSON,A.C.
ELDE	39	10	910523	120 WILLIAMS,J.
ELDE	33	10	850502	107 WILLIAMS,J.
EDN	32	18	870903	118 FLEMING,T.
EDN	36	5	910301	135 WILLIAMS,J.
EWWW	98	1678	921000	811 PICKERING,A.
EDN	28	19	830915	228 VALENTINE,R.J.
RESC	59	11	881100	2380 HOCHULI,U.E.

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EWWW	97	1659	910100	29 VLEMINCQ,L.
MADE	62	23	901108	128 FURY,A.
POEL	17	5	800500	71 CLARK,A.V.
QST	69	11	851100	16 DEMAW,D.
ELDE	40	3	920206	82 RAILESHA,M.
BYTE	8	12	831200	286 HAAS,M.
M002	12	0	860300	55
EEU	2	2	911200	34 EVANS,R.G.
ELEC	50	16	770804	99 LUMIA,R.
ELTO	9	8	850800	36 FOOTE,G.
POEL	14	6	781200	86
68MI	7	3	850300	29 WOLF,M.
EDN	31	11	860529	232 TRAN,T.
RAEL	57	11	861100	55 SAWKIW,L.
PE	10	12	931200	72 YACONO,J.J.
EDN	35	8	900412	184 WATTS,M.
MEBI	19	5	810900	553 JOBLING,D.T.
COCR	1	7	911000	72 MIMS,F.M.,III
ELDE	32	4	840223	274 JORDAN,T.D.
ELEC	49	1	760108	111 GUALTIERI,D.M.
AJP	242	2	820200	288 BATTAGIN,R.L.
POEL	19	9	810900	79 LEWART,C.
ELWI	93	1617	870700	696 MASON,T.
BYTE	13	2	880200	259 CIARCIA,S.
CLEN	15	3	900500	205 SALVADOR,C.H.
BYTE	13	12	881100	158 THOMPSON,T.
CODE	27	22	881200	27 WILLIAMS,T.
M095	8	1	800100	65 MOSCHYTZ,G.S.
TALA	34	6	870600	586 PARCZEWSKI,A.
POEL	20	9	820900	98 MIMS,F.M.
MOEL	7	4	900400	32 AXELSON,J.
73AM	0	298	850700	30 MANN,S.E.
DIDE	10	3	800300	56 FARRELL,J.J.,III
EEU	2	3	920100	36 GIFFARD,T.
MIMI	8	4	840500	189 SMITH,M.
EDN	31	5	860306	239 BRAMBLETT,S.
RESC	57	2	860200	271 KASHIWAGI,J.
JOPH	21	12	881200	1195 KASAP,S.O.
EWWW	97	1664	910600	491
ELDE	32	1	840112	397 DACKOW,P.
EDN	28	11	830526	243 PAL,A.
M004	2	1	830300	11 MACKAY,R.S.
POEL	12	1	770700	41 WEISBECKER,J.A.
EDN	31	23	861113	269 DEVITO,L.
POEL	14	3	780900	61 ROBERTS,J.
M008	9	1	890100	19 VOLGERS,R.
RESC	58	10	871000	1945 BANO,S.S.
ELDE	37	8	890413	77 GOODENOUGH,F.
ELWI	91	1588	850200	44 LAWSON,J.

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QST	73	2	890200	33	DEMAW,D.
RFDE	3	6	800600	20	CHADWICK,P.E.
EDN	33	11	880526	61	GALLANT,J.
ELDE	37	6	890323	65	ESTEP,A.
LAPR	32	6	830600	88	WALL,P.
EWWW	95	1645	891100	1100	YATES,D.
BYTE	9	11	841000	112	CIARCIA,S.
QST	71	1	870100	27	DEMAW,D.
ITCS	37	1	900100	110	MARRIAN,C.R.K.
ELDE	28	19	800913	103	PEASE,R.A.
EDN	32	20	871001	177	RANDALL,J.
BYTE	7	12	821200	42	CIARCIA,S.
ITIE	31	1	840200	99	LEE,H.
ELDE	40	19	920917	89	RAILESHA,M.
ELNO	64	1	930100	31	PIVNICHNY,J.
QEX	0	61	870300	9	NEWLAND,P.
ELDE	30	19	820916	176	KAVAYA,M.J.
73AM	0	283	840400	42	FRANKE,J.M.
COEL	21	2	830200	52	SOUDER,L.G.
QST	66	7	820700	20	MORROW,R.K.
M154	101	12	821200	4527	AKATSU,T.
HAEL	5	10	881000	30	MILES,J.
AUAM	16	4	851000	39	MARSH,R.N.
HAEL	4	9	870900	94	CARR,J.J.
ITIE	31	4	841100	371	KALAITZAKIS,K.C.
MIRF	25	6	860600	179	OHKE,H.
RAEL	60	10	891000	33	PLANT,D.F.
ELDE	31	22	831027	209	POHLMAN,J.T.
M110	4	1	890100	3	WILSON,B.
HRH	4	3	800300	31	JONES,W.
COCR	2	7	920700	38	AXELSON,J.
PE	9	10	921000	65	ELLIS,M.
JOPH	22	3	890300	189	VERMA,R.L.
ELEN	57	702	850600	56	TAYLOR,B.
EWWW	99	1684	930300	205	OLEINIK,V.B.
QST	72	4	880400	26	HUTCHINSON,C.
RAEL	54	2	830200	82	GROSSBLATT,R.
73AM	0	262	820700	60	MARCELLINO,F.T.
M181	165	3881	900921	344	SERVICE,J.M.
EWWW	96	1650	900400	304	RITCHIE,J.D.
RFDE	9	7	860700	41	BAKER,D.
ELDE	32	5	840308	115	COLLINS,W.
RESC	51	7	800700	992	GRABBE,P.
ITIM	35	3	860900	287	MORGAN,F.D.
SKTE	50	2	750800	125	WEST,J.B.
COED	0	0	840300	36	FRANKLIN,G.
ELWI	90	1577	840200	33	GOODCHILD,E.
AGEN	59	6	780600	14	MCCLURE,W.F.
BYTE	10	9	850900	263	HANSLIP,M.

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BYTE	5	9	800900	86 WEXLER,S.
ETI	7	10	831000	74 FRANKLIN,G.
HAEL	2	3	850300	71 BAKER,W.
MIPR	2	2	780400	67 MUNT,R.
MEBI	23	5	850900	482 TAMURA,T.
WW	88	1554	820300	45 NEWSTEAD,S.O.
JOPH	16	7	830700	649 VEENENDAAL,E.J.
BYTE	11	9	860900	97 CIARCIA,S.
EDN	28	22	831027	30 AHMED,S.M.
AJP	244	1	830100	162 MICHAEL,R.
JOPH	14	11	811100	1308 MCENANEY,B.
ELWI	91	1597	851100	51 COATES,R.F.
QST	72	12	881200	24 OSCARSON,E.
ELDE	30	4	820218	204 KLIMEK,J.
MOEL	8	1	910100	56 MIMS,F.M.,III
RESC	49	3	780300	374 RAMADAN,B.
7ART	0	373	911000	78 BRYCE,M.
RFDE	12	8	890800	28 KLEINBERG,L.L.
POEL	19	4	810400	65 MCCLELLAN,G.
MEBI	25	1	870100	112 RILEY,J.L.
ANCH	55	11	830900	1821 EATON,D.K.
INJO	65	6	881200	1181 DAMLJANOVIC,D.
EEU	1	11	910900	46 NELSON,D.
COEL	22	8	840800	18 MIMS,F.M.,III
RESC	64	6	930600	1530 KOMPLIN,G.C.
INJO	70	6	910600	1167 KOSMATOPOULOS,C.A.
RESC	61	5	900500	1436 LIN,M.Z.
REW	0	0	830300	28 BARKE,M.
ITNS	31	1	840200	474 LO,C.C.
POEL	10	5	761100	47 JARRETT,J.
73AM	0	320	870500	62 BRYCE,M.
EDN	28	19	830915	197 SCHUMAN,D.K.
M020	31	1	910100	48 DOWNEY,C.H.
M161	57	6	841200	1913 PRESTWICH,K.N.
EEU	1	11	910900	31 ELLER,M.
73AM	0	333	880600	20 BECKER,D.R.
POEL	14	4	781000	72 MARTIN,V.
ELEC	51	9	780427	150 BROWN,D.D.
HARA	21	11	881100	67 LARSON,J.M.
BYTE	6	12	811200	134 BARDEN,W.,JR.
HAEL	3	7	861200	46 DAVIDSON,H.L.
POEL	19	12	811200	97 MIMS,F.M.
7ART	0	376	920100	22 LEDFORD,L.G.
POEL	12	1	770700	70 SMITH,C.F.
NIMA	234	3	850215	512 SANDBERG,V.D.
APSP	37	4	830700	375 SEYMOUR,R.J.
RAEL	58	11	871100	77 MIMS,F.M.,III
MESC	3	7	920700	651 ROSS,J.N.
ITED	35	3	920800	217 SASAKI,S.K.

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RAEL	52	12	811200	69 DARR,J.
PE	9	11	921100	49
NATE	0	0	890800	7 KLEINBERG,L.E.
AMJO	49	12	811200	1149 NUNN,W.M.,JR.
QST	62	2	780200	15 BROWN,F.
QST	55	12	811200	11 DEMAW,D.
QST	70	2	860200	33 DEMAW,D.
RAEL	54	4	830400	142 GROSSBLATT,R.
PE	6	10	891000	33 CZARNIK,S.A.
M125	2	4	891000	20 SPAETH,J.P.
RESC	57	4	860400	539 DONG,S.
QST	68	11	841100	40 DEMAW,D.
ELTO	9	10	851000	50 PENFOLD,R.A.
RAEL	57	11	861100	63 CARR,J.J.
QST	68	10	841000	30 DEMAW,D.
ELTO	8	10	841000	52 CAPEL,V.
QST	68	5	840500	11 NOBLE,F.
POEL	11	2	770200	77 MCVEIGH,J.
QST	61	11	771100	45 BRUNNER,R.G.
WW	89	1566	830300	63 GRINDROD,D.C.
QST	70	3	860100	40 DEMAW,D.
EDN	32	14	870709	94 PRYCE,D.
QST	66	2	820200	40 COLLINS,G.
ELWI	94	1626	880400	410
INJO	67	6	891200	869 AVANIC,B.
QST	66	7	820700	34 MONTICELLI,D.
ELWI	95	1641	890700	730
ELDE	32	2	840126	157 RENDE,V.N.
ITCE	34	4	881100	917 ZHU,Z.
ITMA	26	2	900300	666 MOHAMMED,O.A.
QST	66	1	820100	46 NOEDING,J.M.
M030	27	3	820300	431 PUTNEY,R.
RESC	60	9	890900	2893 LIN,C.E.
RESC	60	5	890500	825 MILLS,A.P.,JR.
CODE	19	4	800400	154 BOISVERT,C.J.
COCR	1	4	910700	7 JOHNSON,C.
MESC	3	9	920900	922 GALLERANI,A.
ITCE	35	4	891100	901 YUNG,W.F.
HAEL	6	1	890100	59 AMAN,P.
MOEL	6	5	890500	54 MARSHINO,J.
M110	4	1	890100	63 PELED,A.
BYTE	7	8	820800	57 CIARCIA,S.
ELHA	0	0	861000	52
ELDE	32	20	841004	276 WILLIAMS,J.M.
ELWI	91	1593	850900	58 WILLIAMS,K.
BIIN	23	3	890500	199 WICKENS,C.D.
AMJO	57	10	891000	954 ALVAREZ,M.
ANCH	57	4	850400	890 MCEWEN,C.N.

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K1ZJH, 20 PATSUN ROAD, SOMERS, CT 06071
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Sheet1

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G6UTN, DELTEST SYSTEMS
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N1FB
SIGNETICS CORP., SUNNYVALE, CA

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ABX CO., TROY, MI 48099

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GENRAD INC., PRODUCTION TEST DIV., 300 BAKER AVE., CONCORD, MA 01742

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RCA LABORATORIES, PRINCETON, NJ 08540
MAXIM INTEGRATED PRODUCTS, SUNNYVALE, CA
ANALOG DEVICES INC., SANTA CLARA, CA
ANALOGUE PRODUCTS GROUP, MARCONI ELECTRONIC DEVICES LTD., LINCOLN, UK
ANALOG DEVICES, PRECISION MONOLITHICS DIV., 1500 SPACE PARK DR., PO BOX 58020, SANTA CLARA, CA 95052
DEPT. OF APPLIED PHYSICS, U. OF HULL, HULL HU6 7RX, UK
MICROFUTURE INC.

DEPT. OF ELECTRICAL ENGINEERING, PLYMOUTH POLYTECHNIC, DRAKE CIRCUS, PLYMOUTH, DEVON PL4 8AA, UK
ADVANCED INSTRUMENTATION CORP., 7433 HUBBARD, MIDDLETON, WI 53562
DEPT. OF ELECTRICAL AND ELECTRONIC ENGINEERING, U. OF WESTERN AUSTRALIA, NEDLANDS, 6009 AUSTRALIA

DEPT. OF CHEMISTRY, U. OF TEXAS, AUSTIN, TX 78712
SCHOOL OF PHYSICAL AND MOLECULAR SCIENCES, U. OF WALES, BANGOR LL57 2UW, UK
BROOKHAVEN NATIONAL LABORATORY, UPTON, NY 11973
U. OF SAUDI ARABIA, RIYADH, SAUDI ARABIA
DEPT. OF ELECTRICAL, COMPUTER, AND SYSTEMS ENGINEERING, RENSSELAER POLYTECHNIC INST., TROY, NY 12180
DEPT. OF ELECTRONIC AND ELECTRICAL ENGINEERING, U. OF SURREY, GUILDFORD, SURREY GU2 5XH, UK

Sheet1

K4IPV
CARLISLE, UK

INFN, MILAN, ITALY
NATIONAL INST. FOR FUSION SCIENCE, NAGOYA 464-01, JAPAN

TEXTILE SCIENCE DIV., U. OF GUELPH, GUELPH, ONTARIO, CANADA
MAXIM INTEGRATED PRODUCTS, SUNNYVALE, CA
PRECISION MONOLITHICS INC., 1500 SPACE PARK DR., P.O. BOX 58120, SANTA CLARA, CA 95052-8020
U. OF SAUDI ARABIA
U. OF IDAHO, PHYSICS DEPT., MOSCOW, ID 83843
MAXIM INTEGRATED PRODUCTS

MILITARY TECHNICAL COLLEGE, DEPT. OF ELECTRICAL AND ELECTRONIC ENGINEERING, P.O. BOX 478, BAGHDAD, IRAQ
CENTRE FOR COMMUNICATIONS RESEARCH, QUEEN'S BUILDING, U. OF BRISTOL, BRISTOL BS8 1TR, UK
TATA INST. OF FUNDAMENTAL RESEARCH, BOMBAY 400005, INDIA
TATA INST. OF FUNDAMENTAL RESEARCH, HOMI BHABHA ROAD, COLABA, BOMBAY, 400 005, INDIA
DEPT. OF CHEMISTRY, U. OF THE WITWATERSRAND, JOHANNESBURG, SOUTH AFRICA
APEX MICROTECHNOLOGY CORP., 5980 N. SHANNON RD., TUCSON, AZ 85741
THIN FILM-SOLID STATE TECHNOLOGY CELL, PHYSICS DEPT., INDIAN INST. OF TECHNOLOGY, DELHI, NEW DELHI 110016, INDIA
HB9ABO, IM RIEDTLI 1, CH-8154 OBERGLATT, SWITZERLAND
O A SYSTEMS INC., CULVER CITY, CA
DEPT. OF CHEMISTRY, U. OF ILLINOIS, 1209 WEST CALIFORNIA STREET, URBANA, IL 61801
IBM RESEARCH LABORATORY, SAUMERSTR. 4, CH 8803-SWITZERLAND
PRECISION MONOLITHICS INC., SANTA CLARA, CA
MAXIM INTEGRATED PRODUCTS, SUNNYVALE, CA
ALBERTA MICROELECTRONIC CENTRE, CALGARY, ALTA., CANADA T2L 2K7

APEX MICROTECHNOLOGY CORP., 5980 NORTH SHANNON RD., TUCSON, AZ 85741
FORD NEW HOLLAND INC., TROY, MI
CHEMISTRY DEPT., VIRGINIA POLYTECHNIC INST. AND STATE U., BLACKSBURG, VA 24061
MOTOROLA, INC., MOSIC DIV., AUSTIN, TX

VE2DUB, 988 HUDSON, ST. BRUNO, QUEBEC J3V 3Y2, CANADA

G4IXT
DEPT. OF CHEMISTRY, EAST CHINA U. OF CHEMICAL TECHNOLOGY, SHANGHAI 200237 (CHINA)

NEUTRONICS INC., KING OF PRUSSIA, PA
U. OF NEW BRUNSWICK, AUDIO VISUAL SERVICES, KIERSTEAD HALL, FREDERICTON, NEW BRUNSWICK, CANADA

UNIVERSITE DE PROVENCE, CENTRE DE ST-JEROME, DEPARTMENT D'ELECTRONIQUE, RUE HENRI POINCARÉ, 13400, FRANCE
FLORIDA STATE U., TALLAHASSEE, FL 32306

DEPT. OF ELECTRONICS AND ELECTRICAL ENGINEERING, U. OF IFE, ILE-IFE, NIGERIA
W6EMD, VARIAN EIMAC, 301 INDUSTRIAL WAY, SAN CARLOS, CA 94070

OAK RIDGE NATIONAL LABORATORY, P.O. BOX X, OAK RIDGE, TN 37830
MTA-SZTAKI, BUDAPEST, HUNGARY
DEPT. OF NUCLEAR ENGINEERING AND ENGINEERING PHYSICS, U. OF VIRGINIA, CHARLOTTESVILLE, VA 22901

5518 16TH PLACE, LUBBOCK, TX 79416
PHYSICS DEPT., THE U., LEICESTER, LE1 7RH, ENGLAND
NATIONAL SEMICONDUCTOR, FURSTENFELDBRUCK

DEPT. OF CHEMISTRY, U. OF WISCONSIN, 1101 UNIVERSITY AVENUE, MADISON, WI 53706
FISONS INSTRUMENTS, MANCHESTER, UK
SEMICONDUCTOR SECTOR, MOTOROLA INC., AUSTIN, TX
67 CUESTA VISTA DRIVE, MONTEREY, CA 93940
WARSAW U. OF TECHNOLOGY, WARSZAWA, POLAND

MOTOROLA INC., PHOENIX, AZ
JOZEF STEFAN INST., LJUBLJANA, YUGOSLAVIA
K0YQX, 803 SOUTH AVE., NORTH MANKATO, MN 56001

GEORGE GOODE & ASSOCIATES, DALLAS, TX

UNITRODE CORP., WATERTOWN, MA
MOTOROLA SEMICONDUCTOR PRODUCTS, INC., BOX 20912, PHOENIX, AZ 85036
1001A DICKERSON SE, ALBUQUERQUE, NM 87106
ISRO SATELLITE CENTRE, BANGALORE, INDIA

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DEPT. OF ELECTRICAL ENGINEERING, U. OF KENTUCKY, 453 ANDERSON HALL, LEXINGTON, KY 40506
DEPT. OF PHYSICS, KYOTO U., KYOTO, JAPAN 606
DEPT. OF ELECTRICAL ENGINEERING, NATIONAL TSING HUA U., HSINCHU, TAIWAN, R.O.C.

MINISTRY OF AGRICULTURE, FISHERIES AND FOOD, DIRECTORATE OF FISHERIES RESEARCH, FISHERIES LABOR

NATIONAL LAB. FOR HIGH ENERGY PHYSICS, 1-1, OHO, TSUKUBA-CITY, IBARAKI-KEN, 305 JAPAN
ISRO SATELLITE CENTRE, BANGALORE, INDIA
NATIONAL SEMICONDUCTOR, SANTA CLARA, CA
ALLEN TESTPRODUCTS, KALAMAZOO, MI
W3RMD
OTIC INC., WESTLAKE, CA
TRW INC., ELECTRONICS COMPONENTS GROUP, LSI PRODUCTS DIV., P.O. BOX 2473, LA JOLLA, CA 92038
USDA-ARS, SOUTHEAST POULTRY LABORATORY, ATHENS, GA
DEPT. OF PHYSICS, BOWDOIN COLLEGE, BRUNSWICK, ME 04011
DEPT. OF PHYSIOLOGY, U. OF MAINZ, MAINZ (F.R.G.)
ALLEN TESTPRODUCTS, KALAMAZOO, MI

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SILICONIX INC., SANTA CLARA, CA

THE AUDICHRON CO., ATLANTA, GA

DEPT. OF PHYSICS, U. OF EXETER, STOCKER ROAD, EXETER, DEVON EX4 4QL, ENGLAND

COHERENT COMMUNICATIONS SYSTEMS CORP., HAUPPAUGE, NY

TRW LSI PRODUCTS DIV.

FOOD AND DRUG ADMINISTRATION, WINCHESTER ENGINEERING AND ANALYTICAL CENTER, 109 HOLTEN STREET

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DEPT. OF ELECTRICAL AND ELECTRONIC ENGINEERING, MUSASHI INST. OF TECHNOLOGY, 1-28-1 TAMAZUTSUMI

SAN LUIS U., SAN LUIS, ARGENTINE

ANALOG DEVICES INC., P.O. BOX 9106, NORWOOD, MA 02026

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ANALOG DEVICES SEMICONDUCTOR DIV., WILMINGTON, MA

BUREAU INTERNATIONAL DES POIDS ET MESURES, PAVILLON DE BRETEUIL, F-92310 SEVRES, FRANCE

PRECISION MONOLITHICS INC., SANTA CLARA, CA

GUELPH-WATERLOO PROGRAM FOR GRADUATE WORK IN PHYSICS, WATERLOO CAMPUS, U. OF WATERLOO, WA

PLESSEY SEMICONDUCTORS INC., 9 PARKER, IRVINE, CA 92717

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INDIAN INST. OF TECHNOLOGY, MADRAS, INDIA

USTAV AUTOMATIZACIE A KOMUNIKACIE, SEVERNA, CESKOSLOVENSKO

DEPT. OF PHYSIOLOGY, U. OF KANSAS MEDICAL CENTER, KANSAS CITY, KS 66103

ANALYSIS BRANCH, PHILLIPS PETROLEUM CO., BARTLESVILLE, OK 74004

ELECTRICAL ENGINEERING DEPT., TUFTS U., MEDFORD, MA

COLLINS DEFENSE COMMUNICATIONS, ROCKWELL INTERNATIONAL CORP., 350 COLLINS RD. N.E., CEDAR RAPIDS

CATEDRA DE FISICA ATOMICA EXPERIMENTAL, LABORATORIO DE FISICA ATOMICA JEN, CIUDAD UNIVERSITARIA,

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402 N. LASALLE, INDIANAPOLIS, IN 46201

RCA SOLID STATE DIV., SOMERVILLE, NJ

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KC1V, QST

LTX CORP., LTX PARK AT UNIVERSITY AVENUE, WESTWOOD, MA 02090-2306

KR8L, LESLIE, MI

U. OF WYOMING, WY

ETUDES ET FABRICATION DOWELL-SCHLUMBERGER, ZI MOLINA LA CHAZOTTE, BP 90, 42003 ST ETIENNE CEDEX, FRANCE

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JERROLD DIV., GENERAL INSTRUMENT CORP.

U. OF SIEGEN, SIEGEN, FRG

SCHOOL OF PHYSICS AND ASTRONOMY, U. OF MINNESOTA, MINNEAPOLIS, MN 55455

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MAXIM INTEGRATED PRODUCTS, SUNNYVALE, CA

ENGINEERING DIV., LAWRENCE BERKELEY LABORATORY, 1 CYCLOTRON ROAD, BERKELEY, CA 94720

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CSIRO INST. OF ENERGY AND EARTH RESOURCES, DIV. OF MINERAL CHEMISTRY, P.O. BOX 124, PORT MELBOURNE, VIC 3207, AUSTRALIA

Sheet1

RADIO-ELECTRONICS

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DUKE U. AND TRIANGLE UNIVERSITIES NUCLEAR LABORATORY, DURHAM, NC 27706
69 WHITE POND ROAD, WALDWICK, NJ 07463
RAGEN DATA SYSTEMS INC., 3 OVAL DR., CENTRAL ISLIP, NY 11722
ROGUE ENGINEERING, ARVADA, CO

DEPT. OF CHEMISTRY AND BIOCHEMISTRY, U. OF CALIFORNIA, LOS ANGELES, CA 90024

W00GX, 218 W. 2ND STREET, CHASKA, MN 55318

DEPT. OF PHYSICS, BROOKHAVEN NATIONAL LABORATORY, UPTON, NY 11973
DATA CONVERSION GROUP, COMLINEAR CORP., 4800 WHEATON DRIVE, FORT COLLINS, CO 80525
EDN
DEPT. OF PHYSICS, MICHIGAN STATE U., EAST LANSING, MI 48824

P.O. BOX 134, FRENCH'S FOREST, NSW 2086, AUSTRALIA
OXFORD ORTHOPAEDIC ENGINEERING CENTRE, U. OF OXFORD, NUFFIELD ORTHOPAEDIC CENTRE, OXFORD OX
DEPT. OF CHEMISTRY, INDIANA U., BLOOMINGTON, IN 47405
WOODSIDE CROFT, LADYBRIDGE LANE, BOLTON BL1 5ED, UK

SIEMENS COMPONENTS INC., INTEGRATED CIRCUIT DIV., 2191 LAURELWOOD ROAD, SANTA CLARA, CA 95054
ELANTEC INC., 1996 TAROB CT., MILPITAS, CA 95035

FACULTY OF ENGINEERING, U. OF BELGRADE, BELGRADE, YUGOSLAVIA

GMI INC., SANTA BARBARA, CA
CAVENDISH LABORATORY, U. OF CAMBRIDGE, MADINGLEY ROAD, CAMBRIDGE CB3 0HE, UK
DEPARTMENTS OF ENGINEERING AND CHEMISTRY, U. OF DENVER, DENVER, CO 80208
SPRAGUE ELECTRIC CO., WORCESTER, MA
DYTEL CORP., SCHAUMBURG, IL
RECOGNITION EQUIPMENT CO., P.O. BOX 660204, DALLAS, TX 75266-0204
JESMOND, NEWCASTLE-UPON-TYNE, UK
CANYON COUNTRY, CA
DEPT. OF COMPUTER SCIENCE AND ELECTRICAL ENGINEERING, PACKARD LAB NO. 19, LEHIGH U., BETHLEHEM, PA

CALEX MANUFACTURING CO., PLEASANT HILL, CA
C/O ANTIQUE RADIO, POPULAR ELECTRONICS, 500-B BI-COUNTY BLVD., FARMINGDALE, NY 11735
DEPT. OF AGRICULTURE, MERREDIN, WESTERN AUSTRALIA
WB6IGP, SAN DIEGO MICROWAVE GROUP, 6345 BADGER LAKE AVE., SAN DIEGO, CA 92119
WA2ANU, ARRL, RD 2, BOX 787, SNOWDEN HILL RD., NEW HARTFORD, NY 13413
SHEFFIELD U. AND AREA HEALTH AUTHORITY (TEACHING), DEPT. OF MEDICAL PHYSICS AND CLINICAL ENGINEERING

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NORA ECCLES HARRISON CARDIOVASCULAR RESEARCH AND TRAINING INST., U. OF UTAH, SALT LAKE CITY, UT 84143
WB9YBM

Sheet1

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DEPT. OF CHEMISTRY, U. OF CINCINNATI, CINCINNATI, OH 45221
SCHOOL OF PHYSICS, U. OF NEWCASTLE-UPON-TYNE, UK

USDA FOREST SERVICE, PACIFIC NORTHWEST FOREST AND RANGE EXPERIMENT STATION, PORTLAND, OR
NATIONAL SEMICONDUCTOR, SANTA CLARA, CA
ANALOG DESIGN TOOLS INC., 66 WILLOW PL., MENLO PARK, CA 94025

NATIONAL SEMICONDUCTOR CORP., SANTA CLARA, CA

AA4AB, 7903 N.W. 69TH AVE., TAMARAC, FL 33319

DEPT. OF ELECTRONIC ENGINEERING, TIANJIN U., TIANJIN, CHINA
ADVANCED MICRO DEVICES, SUNNYVALE, CA

THE TOLEDO HOSPITAL, BIO-MEDICAL ENGINEERING, 1211 WINGHAVEN, MAUMEE, OH 43537
KARLOVAC, YUGOSLAVIA

ABC CIRCUIT DESIGN, 19705 SW JOHNSON, ALOHA, OR 97006
N7APE
SCIENTIFIC ATLANTA

243 ACALANES DR., #3, SUNNYVALE, CA 94086
NATIONAL INST. FOR HIGHER EDUCATION, LIMERICK, IRELAND

2261 W. SKYVIEW, CEDAR CITY, UT 84720-2233

KA3GCQ, EDGEWOOD, MD
HEWLETT-PACKARD CO., ROCKAWAY, NJ
DEPT. OF BIOMEDICAL AND HUMAN FACTORS ENGINEERING, WRIGHT STATE U., DAYTON, OH 45435

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WB0NQM, 412 CATTLEMAN CT., LAWRENCE, KS 66049

Sheet1

DEPT. OF PHYSICS, COCHIN U. OF SCIENCE AND TECHNOLOGY, COCHIN 682 022, INDIA

ELECTRONICS

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IMPERIAL COLLEGE, LONDON, UK

FACULTY OF ENGINEERING, KING MONGKUT'S INST. OF TECHNOLOGY LADKRABANG, LADKRABANG, BANGKOK, THAILAND
MACHINE DESIGN

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HARRIS MICROWAVE SEMICONDUCTOR, 1530 MCCARTHY BLVD., MILPITAS, CA 95035

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NATIONAL SEMICONDUCTOR, 2900 SEMICONDUCTOR DR., SANTA CLARA, CA 95051

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SOLID STATE SCIENCE DIV., ARGONNE NATIONAL LABORATORY, ARGONNE, IL 60439

ALAN CARR, INC., P.O. BOX 3629, HIGH MAR STATION, BOULDER, CO 80307

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Sheet1

CINCINNATI, OH

UNITED TELECOMMUNICATIONS INC., SHAWNEE MISSION, KS

INST. FOR COSMIC RAY RESEARCH, U. OF TOKYO, TANASHI, TOKYO 188, JAPAN

TRANSPORTATION AND MARKETING RESEARCH UNIT, USDA-SEA-AR, COLLEGE STATION, TX

MG-EL CONSULTANTS, COPENHAGEN, DENMARK

DIPARTIMENTO DI CHIMICA E CENTRO PER LA TERMODINAMICA ED ELETTROCHIMICA DEI SISTEMI SALINI FUSI E

W6BCX, 2117 ELDEN AVENUE, APT. 20, COSTA MESA, CA 92627

N8PTG

BUENOS AIRES, ARGENTINA

WEST OF SCOTLAND HEALTH BOARDS, DEPT. OF CLINICAL PHYSICS AND BIO-ENGINEERING, 11 WEST GRAHAM S

CAVENDISH LABORATORY, MADINGLEY ROAD, CAMBRIDGE, UK

BELL LABORATORIES, MURRAY HILL, NJ 07974

DEPT. OF FINE MEASUREMENTS, NAGOYA INST. OF TECHNOLOGY, GOKISO-CHO, SHOWA-KU, NAGOYA 466, JAPAN

JESSE BEAMS LABORATORY OF PHYSICS, U. OF VIRGINIA, CHARLOTTESVILLE, VA 22901

K2AVB

K4TWJ, EASTWOOD VILLAGE NO. 1201 SO., RT. 11, BOX 499, BIRMINGHAM, AL 35210

BRNO, CZECHOSLOVAKIA

ANALOG DESIGN ENGINEERING DIV., BURR-BROWN CORP., TUCSON, AZ

VTT TECHNICAL RESEARCH CENTRE OF FINLAND, ESPOO, FINLAND

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BHABHA ATOMIC RESEARCH CENTRE, NUCLEAR RESEARCH LABORATORY, ZAKURA, SRINAGAR 190006, INDIA

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SASKATCHEWAN ACCELERATOR LABORATORY, U. OF SASKATCHEWAN SASKATOON, SASKATCHEWAN, S7N 0W0

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Sheet1

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INST. OF COMPUTER SCIENCE, WARSAW U. OF TECHNOLOGY, WARSAW, POLAND

MAXIM INTEGRATED PRODUCTS, 510 N. PASTORIA AVE., SUNNYVALE, CA 94086

NATIONAL SEMICONDUCTOR CORP., 2900 SEMICONDUCTOR DR., SANTA CLARA, CA 95051

CENTRE FOR ELECTRONICS DESIGN TECHNOLOGY, INDIA INST. FOR SCIENCE, BANGALORE-560012, INDIA

DEPT. OF PHYSIOLOGY, SCHOOL OF MEDICINE, U. OF NORTH CAROLINA, CHAPEL HILL, NC 27514

EDN

DEPT. OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCE, FACULTY OF ENGINEERING, U. OF BAHRAIN, P.O. BOX 13030, MANAMA, BAHRAIN
RTRONICS INC., PENSACOLA, FL

DEPT. OF PHYSICS, THE U. OF NORTH CAROLINA AT CHARLOTTE, CHARLOTTE, NC 28223

B-25 STAFF COLONY, M.N.R. ENGINEERING COLLEGE, ALLAHABAD, 211004, INDIA

ROKYCANY, CZECHOSLOVAKIA

INST. OF ATOMIC PHYSICS, BUCHAREST, ROMANIA

DATTEL INTERSIL, 11 CABOT BLVD., MANSFIELD, MA 02048

LABORATORIO DE MAGNETISMO, UNIVERSIDAD COMPLUTENSE, FACULTAD DE FISICA, MADRID-3, SPAIN

DEPARTAMENTO DE CIENCIA DE LOS MATERIALES AND LABORATORIO "E", UNIVERSIDAD SIMON BOLIVAR, APARTADO 896, CARACAS, VENEZUELA

INSTITUT FUR ARBEITSWISSENSCHAFT, TECHNISCHE HOCHSCHULE DARMSTADT, PETERSENSTRASSE 30, 6100 DARMSTADT, GERMANY

DEPT. OF CHEMISTRY, EMORY U., ATLANTA, GA 30322

K4COF/AFA2KQ, DORAVILLE, GA

INST. OF MOLECULAR BIOLOGY, FACULTY OF SCIENCE, NAGOYA U., CHIKUSA-KU, NAGOYA 464, JAPAN

GODDARD SPACE FLIGHT CENTER, GREENBELT, MD

E.O. HULBURT CENTER FOR SPACE RESEARCH, NANAL RESEARCH LABORATORY, WASHINGTON, DC 20375

MAXIM INTEGRATED PRODUCTS, SUNNYVALE, CA

RESEARCH INST. OF DATA COMMUNICATION, 42 XUE YUAN RD., BEIJING, 100083, PEOPLE'S REPUBLIC OF CHINA

DYNAMICS RESEARCH CORP., WILMINGTON, MA

AJAX MAGNETHERMIC CORP., WARREN, OH

K4IPV, POB 1099, FALLS CHURCH, VA 22041

DEPT. OF CHEMISTRY, MONTANA STATE U., BOZEMAN, MT 59717

DORKING, SURREY, UK

HARRIS SEMICONDUCTOR, P.O. BOX 976, SOLLENTUNA, SWEDEN 19129

MAXIM INTEGRATED PRODUCTS, SUNNYVALE, CA
HAJJAR & ASSOCIATES INC., SATELLITE BEACH, FL
DEPT. OF NUCLEAR ENGINEERING AND ENGINEERING PHYSICS, U. OF WISCONSIN-MADISON, MADISON, WI 53706
DEPT. OF CHEMISTRY, THE U., DUNDEE DD1 4HN, UK
BOLOGNA, ITALY
PLESSEY AVIONICS AND COMMUNICATIONS, ROKE MANOR, ROMSEY, HAMPSHIRE SO5 0ZN, UK
SCHOOL OF PHYSICS, U. OF NEW SOUTH WALES, P.O. BOX 1, KENSINGTON 2033, AUSTRALIA
DEPT. OF CHEMISTRY, MONTANA STATE U., BOZEMAN, MT 59717
LABORATORY FOR HUMAN PERFORMANCE RESEARCH, INTERCOLLEGE RESEARCH PROGRAMS, THE PENNSYLVANIA STATE U., UNIVERSITY PARK, PA 16802
MAXIM INTEGRATED PRODUCTS
U. OF COLORADO, DEPT. OF ELECTRICAL ENGINEERING, BOULDER, CO 80309
MAXIM INTEGRATED PRODUCTS, 120 SAN GABRIEL DR., SUNNYVALE, CA 94086
CENTRAL LABORATORY FOR SOLAR ENERGY AND NEW ENERGY SOURCES, BULGARIAN ACADEMY OF SCIENCES
BURR-BROWN RESEARCH CORP., PO BOX 11400, TUCSON, AZ 85734
BIOLOGY DEPT., U. OF MASSACHUSETTS BOSTON, BOSTON, MA 02125
103 ELLIOTT CIRCLE, OAK RIDGE, TN 37830

RADIO-ELECTRONICS

DEPT. OF ELECTRICITY AND ELECTRONICS, U. OF SANTIAGO, SANTIAGO, SPAIN
DEPT. OF ELECTRICAL ENGINEERING, MOTILAL NEHRU REGIONAL MNR ENGINEERING COLLEGE, ALLAHABAD 201002, INDIA
ESD
DEPT. OF PHYSICS AND ASTRONOMY, EASTERN KENTUCKY U., RICHMOND, KY 40475
DEPT. OF ELECTRICAL AND COMPUTER ENGINEERING, BEN-GURION U. OF THE NEGEV, BEER-SHEVA, ISRAEL
CENTRAL LABORATORY FOR SOLAR ENERGY AND NEW ENERGY SOURCES, BULGARIAN ACADEMY OF SCIENCES

ADA (ISRAEL), P.O. BOX 2250, HAIFA, ISRAEL

Y-12 DEVELOPMENT DIV., INSTRUMENTATION AND CHARACTERIZATION DEPT., MARTIN MARIETTA ENERGY SYSTEMS, BIRMINGHAM U., ENGLAND
VIRGINIA POLYTECHNIC INST. AND STATE U., BLACKSBURG, VA 24061
DEPT. OF ELECTRICAL ENGINEERING, THE NATIONAL DEFENSE ACADEMY, HASHIRIMIZU, YOKOSUKA 239 JAPAN
TELEDYNE SEMICONDUCTOR, 1300 TERRA BELLA AVE., MOUNTAIN VIEW, CA 94043
LABORATORIO DI TECNOLOGIE BIOMEDICHE, ISTITUTO SUPERIORE DI SANITA, ROMA, ITALY
BIOENGINEERING PROGRAM, PENNSYLVANIA STATE U., UNIVERSITY PARK, PA 16802

SAIC, KAILUA, HI

BENDIX ADVANCED PRODUCTS DIV., 900 W. MAPLE RD., TROY, MI 48084
HARTMAN SYSTEMS, HUNTINGTON STATION, NY

GEO-CENTERS, INC., 10903 INDIAN HEAD HIGHWAY, FORT WASHINGTON, MD 20744
M/S 4-2-639, RAYTHEON CO., 528 BOSTON POST ROAD, SUDBURY, MA 01776
EBT INC., TORRANCE, CA

SIPEX, BILLERICA, MA
COMPUTER APPLICATIONS JOURNAL (CIRCUIT CELLAR INK)
CIRCUIT CELLAR INK (COMPUTER APPLICATIONS JOURNAL)
APEX MICROTECHNOLOGY CORP., TUCSON, AZ

Sheet1

INSTITUTO DE FISICA, UNICAMP, CAMPINAS, SP, 13081 BRASIL
SIGNETICS CORP., SUNNYVALE, CA
DEPT. OF ELECTRICAL ENGINEERING, U. OF MARYLAND, COLLEGE PARK, MD 20742
MILDRED-SCHEEL-LABOR FUR KREBSZELLFORSCHUNG, MAX-PLANCK-INSTITUT FUR BIOCHEMIE, D-8033 MARTIN
LABORATORIO DI RICERCA E TECNOLOGIA PER LO STUDIO DEL PLASMA NELLO SPAZIO, CONSIGLIO NAZIONALE
2720 VANLOESEN, DENMARK
APEX MICROTECHNOLOGY CORP., 1130 E. PENNSYLVANIA ST., TUCSON, AZ 85714

MAXIM INTEGRATED PRODUCTS, PANGBOURNE, BERKSHIRE, UK
TEKTRONIX INC., 625 S.E. SALMON AVE., REDMOND, OR 97756
NF2B, 1157 LINCOLN AVE., UTICA, NY 13502-4511

MAXIM INTEGRATED PRODUCTS, SUNNYVALE, CA
ELECTRONIC PRODUCTS, MT. VIEW, CA
SPACE DIV., LOCKHEED SPACE AND MISSILE CORP., SUNNYVALE, CA
CENTRAL RESEARCH, BUILDING 1712, THE DOW CHEMICAL CO., MIDLAND, MI 48640
RAYTHEON CO., MISSILE SYSTEMS DIV., M/S M17-72, HARTWELL RD., BEDFORD, MA 01730
W6XM, 528 COLIMA ST., LA JOLLA, CA 92037

AA1C, STAMFORD, CT
III. PHYSIKALISCHES INSTITUT, RWTH AACHEN, GERMANY
K4IPV, P.O. BOX 1099, FALLS CHURCH, VA 22041
ANALOGIC CORP., DANVERS, MA 01923
SUNOL SYSTEMS, PLEASANTON, CA
MOORLAND SCHOOL, CLITHEROE, UK
MANCHESTER, NH
MOTOROLA, PHOENIX, AZ
COMPUTER DESIGN

INST. OF NUCLEAR SCIENCES, PRIVATE BAG, LOWER HUTT, NEW ZEALAND
EDN
ARRL, 6800 FLEETWOOD RD., MCLEAN, VA 22101
EJPOVICE 96, 337 01 ROKYCANY, CZECHOSLOVAKIA

ALLEN ORGAN CO., MACUNGIE, PA
433 CHERRY LN., LEWISTON, NY 14092
CALEX MANUFACTURING CO. INC., 3355 VINCENT RD., PLEASANT HILL, CA 94523

EG&G INC., P.O. BOX 809, LOS ALAMOS, NM 87544

POB 582, GLASTONBURY, CT 06033

GOODYEAR TIRE & RUBBER CO., AKRON, OH
PO BOX 38386, HOLLYWOOD, CA 90038

SURBITON, SURREY, UK
MICROFUTURE, INC.
UNITRODE INTEGRATED CIRCUITS CORP., LEXINGTON, MA

SIGNETICS CORP., PO BOX 409, SUNYVALE, CA 94086
NEWMONT EXPLORATION LTD., 200 W. DESERT SKY RD., TUCSON, AZ 85704
WIMBORNE, DORSET, UK

MULLARD
GA TECHNOLOGIES, SAN DIEGO, CA 92138
CAMBRIDGE, UK
POB 582, GLASTONBURY, CT 06033
DOWTY RFL INDUSTRIES, BOONTON, NJ
AMBLESIDE, CUMBRIA, UK
MELBOURNE COLLEGE OF ADVANCED EDUCATION, AUSTRALIA
DESIGN AUTOMATION DIV., TEXAS INSTRUMENTS, DALLAS, TX
ISRO SATELLITE CENTRE, DIGITAL SYSTEMS DIV., AIRPORT RD., VIMANAPURA P.O., BANGALORE 560017 INDIA
MOTOROLA, INC., SPS, 5005 E. MCDOWELL RD., PHOENIX, AZ 85008
INSTITUTO NACIONAL DE TECNOLOGIA, RIO, BRAZIL
TATA INST. OF FUNDAMENTAL RESEARCH, BOMBAY, INDIA
MOTOROLA INC., MS OE216, 6501 WILLIAM CANNON DR. WEST, AUSTIN, TX 78735-8598

77 RIDGEWAY AVENUE, ROCHESTER, NY 14615
PHYSICS DEPT., UNIVERSITY COLLEGE, CORK, IRELAND
MOUNT ELIZA, VICTORIA, AUSTRALIA

OXFORD, UK
DEPT. OF PHYSICS, DUBLIN INST. OF TECHNOLOGY, KEVIN STREET, DUBLIN 8, EIRE

NATIONAL RESEARCH COUNCIL OF CANADA, OTTAWA, ONTARIO, K1A 0R6, CANADA
GEORGE W. WOODRUFF SCHOOL OF MECHANICAL ENGINEERING, GEORGIA INST. OF TECHNOLOGY, ATLANTA, GA
DEPT. OF CHEMISTRY, TECHNION - ISRAEL INST. OF TECHNOLOGY, HAIFA, ISRAEL 32000

MOTOROLA, INC., 3501 ED BLUESTEIN BLVD., AUSTIN, TX 78721
DEPT. OF APPLIED PHYSICS, U. COLLEGE OF TECHNOLOGY, CALCUTTA U., 92. A.P.C. ROAD, CALCUTTA 700 009, INDIA
MOSTEK CORP., CARROLLTON, TX
DEPT. OF PHYSICS, ELECTRONICS AND ELECTRICAL ENGINEERING, UWIST, KING EDWARD VII AVENUE, CARDIFF, WALES
W5UY

G8JNJ
RICHARD LARRATT AND ASSOCIATES INC.

DEPT. OF PHYSICAL SCIENCES, TRENT POLYTECHNIC, UK
NATIONAL SEMICONDUCTOR, MESA, AZ
SEMICONDUCTOR PRODUCTS SECTOR, MOTOROLA INC., PHOENIX, AZ

Sheet1

DATEL INC., MANSFIELD, MA
DEPT. OF CHEMISTRY, INDIANA U., BLOOMINGTON, IN 47405
CALEX MANUFACTURING CO. INC., 3355 VINCENT RD., PLEASANT HILL, CA 94523
BHARAT HEAVY ELECTRICALS LTD., TAMIL NADU, INDIA

RUBIN ACADEMY OF MUSIC, TEL-AVIV U., ISRAEL
LOS ALAMOS NATIONAL LABORATORY, LOS ALAMOS, NM 87545

DONCASTER, YORKSHIRE, UK

DATA-GUIDER OY INC., VISAKOIVUNKUJA 12 D 25, 02130 ESPOO, FINLAND

U. OF WISCONSIN, MADISON, WI 53706
BERKELEY, CA 94720
AMOCO TECHNOLOGY CO., P.O. BOX 3011, NAPERVILLE, IL 60566-7011

BELL LABORATORIES, PISCATAWAY, NJ 08854
OCEAN TECHNICAL SYSTEMS, SURREY, UK
UNITRODE IC CORP., MERRIMACK, NH
MILLIDYNE, RALEIGH, NC
INTERSIL DATEL (UK) LTD., BASINGSTOKE, HANTS., ENGLAND
POB 742, PORT ARANSAS, TX 78373
W6NRW, 936 AZALEA DRIVE, SUNNYVALE, CA 94086
HULL, NORTH HUMBERSIDE, UK
MAXIM INTEGRATED PRODUCTS, SUNNYVALE, CA
DEPT. OF ELECTRICAL ENGINEERING, U. OF CALGARY, ALTA. T2N 1N4, CANADA
POB 582, GLASTONBURY, CT 06033

VATIC SYSTEMS, PHOENIX, AZ
DEPT. OF ELECTRICAL ENGINEERING, U. OF IBADAN, NIGERIA
W5JG, 5646 BELLAIRE DRIVE, NEW ORLEANS, LA 70124
BHARAT ELECTRONICS LTD., BANGALORE, INDIA
U. OF CONNECTICUT, STORRS, CT 06268
MOTOROLA, EAST KILBRIDE, UK

AG6K, 6455 LA CUMBRE ROAD, SOMIS, CA 93066
28361 PLAINFIELD DR., RANCHO PALOS VERDES, CA 90274

PHYSICS DEPT., U. OF CALGARY, CALGARY, ALBERTA, CANADA T2N 1N4
DEPT. OF PHYSICS, NATIONAL U. OF SINGAPORE, KENT RIDGE, SINGAPORE 0511

RADIO-ELECTRONICS
DEPT. OF PHYSICS, UNIVERSITY COLLEGE, CORK, IRELAND

Sheet1

EDN

MICROPROCESSOR DIV., SIGNETICS CORP., SUNNYVALE, CA
3M CORP., ST. PAUL, MN
RAY DAHLBY ELECTRONICS, BOX 7600, VANCOUVER, B.C. V6B 4X9, CANADA
PHYSICS DEPT., U. OF BIRMINGHAM, ENGLAND
ELECTRONIC DESIGN
MOTOROLA INC., BIPOLAR ANALOG IC DIV., 2100 EAST ELLIOT RD., MD EL340, TEMPE, AZ 85284
ALIGARH

APT. 912 - 3001 S. KING DR., CHICAGO, IL 60616
ALIGARH, INDIA
DEPT. OF CHEMICAL ENGINEERING, MCGILL U., MONTREAL, CANADA
N. KRISHNAM RAJU, INDIA

U. OF CALIFORNIA AT SAN DIEGO, ELECTRICAL ENGINEERING AND COMPUTER SCIENCES DEPT., LA JOLLA, CA 9
DEPT. OF CHEMISTRY, WILLARD HALL, KANSAS STATE U., MANHATTAN, KS 66506
DEPARTAMENTO QUIMICA DE REACTORES, GERENCIA DE INVESTIGACIONES, COMISION NACIONAL DE ENERGIA

PHYSICS DEPT., ALMA COLLEGE, ALMA, MI 48801
PHYSICS DEPT., ALMA COLLEGE, ALMA, MI
MAXIM INTEGRATED PRODUCTS, 120 SAN GABRIEL DR., SUNNYVALE, CA 94037
MOTOROLA INC., AUSTIN, TX
FACULTY OF PHARMACY, MEDICAL ACADEMY, 15 EKZ. JOSIF STREET, SOFIA, BULGARIA
INST. OF PHYSICS, U. OF TSUKUBA, TSUKUBA, IBARAKI 305, JAPAN
FRENCH'S FORREST, AUSTRALIA
MOTOROLA, INC.
COMPUTER APPLICATIONS JOURNAL (CIRCUIT CELLAR INK)
MOTOROLA INC., SEMICONDUCTOR PRODUCTS SECTOR, 7402 S. PRICE ROAD, TEMPE, AZ 85283
DATEL-INTERSIL, INC., 11 CABOT BLVD., MANSFIELD, MA 02048
MATERIALS RESEARCH CENTER AND DEPT. OF MATERIALS SCIENCE AND ENGINEERING, NORTHWESTERN U., EV
HANDS-ON ELECTRONICS, 500-B BI-COUNTY BLVD., FARMINGDALE, NY 11735
DUNFERMLINE, FIFE, UK

DEPT. OF ELECTRICAL ENGINEERING, U. OF WITWATERSRAND, WITS, JOHANNESBURG, 2050 REPUBLIC OF SOUT
RIFA POWER PRODUCTS, STOCKHOLM, SWEDEN
DEPT. OF BIOENGINEERING, FACULTY OF ENGINEERING, HOKKAIDO U., SAPPORO, 060, JAPAN
DEPT. OF PHYSICS AND ASTRONOMY, U. OF SOUTH CAROLINA, COLUMBUS, SC 29208
POB 339, MENLO PARK, CA 94025
POB 582, GLASTONBURY, CT 06033
TECHNION - ISRAEL INST. OF TECHNOLOGY, HAIFA 32000, ISRAEL
MAX PLANCK INSTITUT FUR STROMUNGSFORSCHUNG, GOTTINGEN, W. GERMANY
AUSCOM, INC.
NATEL ENGINEERING CO., INC., 8954 MASON AVE., CANOGA PARK, CA 91306

WINCHESTER, MA
SOUTH YARRA, VIC., AUSTRALIA

I2CAB
MOTOROLA INC., SEMICONDUCTOR PRODUCTS SECTOR, 5005 E. MCDOWELL ROAD, PHOENIX, AZ 85008

Sheet1

CAMBRIDGE, UK
WB000D, 715 16TH AVE., SOUTH ST. PAUL, MN 55075
U. OF SINGAPORE, SINGAPORE
XILINX INC., SAN JOSE, CA
TOYOMA PREFECTURAL REHABILITATION HOSPITAL, TOYOMA, JAPAN
DEPT. OF ELECTRICAL AND ELECTRONIC ENGINEERING, MILITARY TECHNICAL COLLEGE, PO BOX 478, BAGHDAD
MOTOROLA SEMICONDUCTOR PRODUCTS SECTOR, PHOENIX, AZ
ECOLE POLYTECHNIQUE, PALAISEAU, FRANCE
FRAUHOFFER INSTITUT, FINKENSTRASSE 61 41 DUISBURG, WEST GERMANY
INST. FOR THE STUDY OF RADIUM AND NUCLEAR PHYSICS, U. OF VIENNA, AUSTRIA

BIO-ENGINEERING INST., U. OF NEW BRUNSWICK, FREDERICTON, NEW BRUNSWICK, CANADA E3B 5A3
SERVICE MACHINE CO., HUNTINGTON, WV
RESEARCH AND DESIGNS DEPARTMENTS, BBC, UK
CALEX MANUFACTURING CO. INC., PLEASANT HILL, CA
LINDOS ELECTRONICS, WOODBRIDGE, SUFFOLK, UK
DEPT. OF PHARMACOLOGY, THE JOHNS HOPKINS U., BALTIMORE, MD 21205
UNIVERSITE DE SHERBROOKE, SHERBROOKE, QUEBEC, CANADA, J1K 2R1
N6ARE
SIGNETICS CORP., MICROPROCESSOR DIV., 811 E. ARQUES AVE., SUNNYVALE, CA 94086
W1JF, READING, MA
COMPUTER SOLUTIONS, BYFLEET, SURREY, UK
ST. SUPLJIKCA 105/8.26000 PANCEVO, YUGOSLAVIA
MOTOROLA INC., STANDARD LOGIC AND ANALOG INTEGRATED CIRCUITS GROUP, TEMPE, AZ
SKP ELECTRONICS, SANTA ANA, CA
W2GN, 35 HIGHLAND DRIVE, EAST GREENBUSH, NY 12061
DJ2LR, 52 HILLCREST DRIVE, UPPER SADDLE RIVER, NJ 07458
MOTOROLA INC., AUSTIN, TX
UNITRODE CORP., MERRIMACK, NH
3M CO., ST. PAUL, MN
P.O. BOX 375, PIETERMARITZBURG 3200, SOUTH AFRICA
DEPT. OF AGRONOMY, PURDUE U., WEST LAFAYETTE, IN 47907
EG&G INC., EM DIV., P.O. BOX 809, MS E-1, LOS ALAMOS, NM 87544
MUSKEGON HIGH SCHOOL, POB 2007, HOLLAND, MI 49423
INTER-TEL, CHANDLER, AZ
KEMPSTON, BEDS, UK
MOTOROLA MICROPROCESSOR DIV., AUSTIN, TX
ALCATEL AUSTRIA AG, DEP. GTC, SCHEYDGASSE 41 A1210, VIENNA, AUSTRIA

BANG & OLUFSEN, HARBOORE, DENMARK
STEWART HUGHES LTD, HAMPSHIRE, UK
K7ES/OH2ZE, MOTOROLA SEMICONDUCTOR PRODUCTS, INC., PHOENIX, AZ 85062

OXON., UK
MOTOROLA LTD., INSIGHT TERMINALS LTD., WOOTON, BEDFORD, UK

RESEARCH AND PRODUCTIVITY COUNCIL, FREDERICTON, NEW BRUNSWICK, CANADA
DIPARTIMENTO FI FISICA AND SEZIONE I.N.F.N. DI PISA, PISA, ITALIA

Sheet1

INTERSIL INC., CUPERTINO, CA

OFFICE OF SCIENCE AND TECHNOLOGY, NATIONAL CENTER FOR DEVICES AND RADIOLOGICAL HEALTH, 5600 FIS

U. OF NEW ORLEANS, NEW ORLEANS, LA

MOTOROLA INTEGRATED CIRCUIT DIV., 3501 ED BLUESTEIN BLVD., AUSTIN, TX 78721

DEPT. OF BIOENGINEERING, CRAWFORD W. LONG MEMORIAL HOSPITAL, ATLANTA, GA 30308

69 WHITE POND RD., WALDWICK, NJ 07463

GENERAL RADIO CO., CONCORD, MA

UNITRODE CORP., MANCHESTER, NH

MOTOROLA SEMICONDUCTOR, PHOENIX, AZ

N9CLX

DEPT. OF MEDICAL PHYSICS, CHRISTCHURCH HOSPITAL, CHRISTCHURCH, NEW ZEALAND

NATIONAL RESEARCH COUNCIL OF CANADA, OTTAWA, ONTARIO K1A 0R6 (CANADA)

INTER-TEL, CHANDLER, AZ

W1ICP, CQ, 200 IDAHO ST., SILVER CITY, NM 88061

DEPT. OF BIOLOGY, YALE U., NEW HAVEN, CT 06520

DEPT. OF STRENGTH OF MATERIALS AND SOLID MECHANICS, THE ROYAL INST. OF TECHNOLOGY, STOCKHOLM,

DISCRETE & SPECIAL TECHNOLOGIES GROUP, SEMICONDUCTOR PRODUCTS SECTOR, MOTOROLA INC., PHOENIX,

WB9YBM, 8502 N. OKETO AVE., NILES, IL 60648

DEPT. OF ELECTRICAL ENGINEERING, U. OF SASKATCHEWAN, SASKATOON, S7N 0W0 CANADA

MOTOROLA, INC., AUSTIN, TX

HARRIS SEMICONDUCTOR, 1101 PERIMETER DR., SUITE 600, SCHAUMBURG, IL 60195

DEPT. OF PHYSICS AND INSTRUMENTATION SERVICES, AMES LABORATORY - ERDA, IOWA STATE U., AMES, IA 500

UNIVERSIDAD DE MURCIA, 30071 MURCIA, SPAIN

SOFIA, BULGARIA

WB6FZN/4, 3505 SUGAR CANE CIRCLE, FAYETTEVILLE, NC 28303

MOORE PRODUCTS CO., SPRING HOUSE, PA

K4IPV, HAM RADIO, POPULAR ELECTRONICS, 500-B BI-COUNTY, FARMINGDALE, NY 11735

DEPT. OF COMPUTING SCIENCE, U. OF WOLLONGONG, PO BOX 1144, WOLLONGONG NSW 2500, AUSTRALIA

INSTITUTO DE QUIMICA, UNIVERSIDADE ESTADUAL DE CAMPINAS, C.P. 6154, 13081-CAMPINAS, SAO PAULO (BRAZIL)

DEFENCE RESEARCH ESTABLISHMENT VALCARTIER, 2459 PIE XI BLVD NORTH, P.O. BOX 8800, COURCELETTE, QUEBEC

MOTOROLA INC., 3501 ED BLUESTEIN BLVD., AUSTIN, TX 78721

ISTITUTO DI FISILOGIA, FACOLTA DI MEDICINA, UNIVERSITA DI TRIESTE, VIA FLEMING, 22, I-34127 TRIESTE, ITALY

LABORATOIRE D'ULTRASONS ET GROUPE DE METALLURGIE PHYSIQUE ET PHYSIQUE DES MATERIAUX, INSA, BORDO, FRANCE

DEPT. OF ELECTRICAL AND ELECTRONIC ENGINEERING, U. OF ULSTER, NEWTOWN ABBEY, CO ANTRIM, N. IRELAND

MOTOROLA INC., AUSTIN, TX

DAVENTRY, UK

U. OF THE BALEARIC ISLANDS, E-07071 PALMA DE MALLORCA, SPAIN

BOSTON, MA

K4ABT, 1584 OXFORD COURT, GALLATIN, TN 37066

Sheet1

XILINX UK

NATIONAL SEMICONDUCTOR CORP., SANTA CLARA, CA
WENTWORTH INST. OF TECHNOLOGY, 550 HUNTINGTON AVE., BOSTON, MA 02115
WENTWORTH INST. OF TECHNOLOGY, 550 HUNTINGTON AVE., BOSTON, MA 02115
NATIONAL SEMICONDUCTOR CORP., SANTA ANA, CA
ANALOG DEVICES SEMICONDUCTOR, 829 WOBURN ST., WILMINGTON, MA 01887

WB9LYH, 1624 BURGANDY LANE, STEVENS POINT, WI 54481
THINK TANK, POPULAR ELECTRONICS, 500-B BI-COUNTY BLVD., FARMINGDALE, NY 11735
ANALOG DEVICES INC., SEMICONDUCTOR DIV., WILMINGTON, MA
LASH MILLER CHEMICAL LABORATORIES, U. OF TORONTO, 80 SAINT GEORGE STREET, TORONTO, ONTARIO M5S
EDWARD L. GINZTON LABORATORY, STANFORD U., STANFORD, CA 94305
ANALOG DEVICES INC., INTERFACE PRODUCTS DIV., ONE TECHNOLOGY WAY, P.O. BOX 9106, NORWOOD, MA 020
DIV. OF ELECTRICAL AND ELECTRONIC ENGINEERING, GLASGOW COLLEGE OF TECHNOLOGY, COWCADDENS RO
SCHOOL OF COMPUTING STUDIES, U. OF EAST ANGLIA, NORWICH NR4 7TJ, UK
DEPT. OF CHEMISTRY, MEMPHIS STATE U., MEMPHIS, TN 38152
ANALOG DEVICES INC., WILMINGTON, MA

INTEGRATED DEVICE TECHNOLOGY INC., 3236 SCOTT BLVD., SANTA CLARA, CA 95054-3090
FERMI NATIONAL ACCELERATOR LABORATORY, BATAVIA, IL 60510
COMPUTER LABS DIV., ANALOG DEVICES
DEPT. OF PHYSICS, HIROSHIMA U., HIROSHIMA, JAPAN
ROYAL INST. OF TECHNOLOGY, S-10044 STOCKHOLM 70, SWEDEN

DEPT. OF CHEMISTRY, U. OF ARKANSAS, FAYETTEVILLE, AR 72701
ELECTRICAL AND COMPUTER ENGINEERING, U. OF KANSAS, LAWRENCE, KS 66045
PRITZKER INST. OF TECHNOLOGY, CHICAGO, IL 60616
ANALOG DEVICES SEMICONDUCTOR, 804 WOBURN ST., WILMINGTON, MA 01887
DEPT. OF PHYSICS, UNIVERSITY COLLEGE, ABERYSTWYTH SY23 3BZ, UK
PHYSICS DEPT., U. OF NORTH DAKOTA, GRAND FORKS, ND 58202
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BURR-BROWN RESEARCH CORP., P.O. BOX 11400, TUCSON, AZ 85734
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KA8PHO, 3185 BRADY LAKE RD., RAVENNA, OH 44266
RF/SS & PACIFIC MONOLITHICS, INC., 245 SANTA ANA COURT, SUNNYVALE, CA 94086
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WA4PQD, BARRINGTON, NH
AEP/ASEA UHV RESEARCH PROJECT, AMERICAN ELECTRIC POWER SERVICE CORP., 24707 QUINN RD., NORTH LEBANON, OH 45156
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GILESGATE, DURHAM, UK

INSA, LYON, FRANCE
BASE TEN SYSTEMS INC., ONE ELECTRONICS DR., TRENTON, NJ 08619
ELECTRONICS DEPT., INST. OF TECHNOLOGY, U. OF UPPSALA, UPPSALA, SWEDEN

NH6N, 73-4327 IMO STREET, KAILUA-KONA, HI 96740
KP4AQI, 4850 HOLLYWREATH COURT, DAYTON, OH 45424

Sheet1

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HEWLETT-PACKARD CO., LOVELAND INDUSTRIAL DIV., LOVELAND, CO
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K4SDS, RADIO-ELECTRONICS

MATRA-HARRIS SEMICONDUCTEURS, NANTES, FRANCE
MASSCOMP, WESTFORD, MA
EDN
PRECISION MONOLITHICS INC., SANTA CLARA, CA
MARCOM, SCOTTS VALLEY, CA

K4IPV, POB 1099, FALLS CHURCH, VA 22041
DEPT. OF PHYSICS, DALHOUSIE U., HALIFAX, NOVA SCOTIA B3H 2J5, CANADA
W4RNL, 5105 HOLSTON HILLS ROAD, KNOXVILLE, TN 37914
PHYSICS DEPT., U. OF BIRMINGHAM, ENGLAND
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CAMBRIDGE, UK
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MAIL STOP C2500A, NATIONAL SEMICONDUCTOR CORP., BOX 58090, SANTA CLARA, CA 95052
TWENTE U. OF TECHNOLOGY, PO BOX 217, 7500 AE ENSCHEDE, THE NETHERLANDS

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CIPRICO INC., PLYMOUTH, MN
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UNIVERSAL ENERGY SYSTEMS, 3195 PLAINFIELD ROAD, DAYTON, OH 45432

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69 WHITE POND RD., WALDWICK, NJ 07463
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BOISE STATE U., BOISE, ID 83725

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MERSEYSIDE, UK

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BRNO, CZECHOSLOVAKIA

W2EHD, 27 FOURTH STREET, CLOSTER, NJ 07624

N1RM, 4 MAPLE LA., BROOKFIELD, CT 06804

AB6I, CASSELBERRY, FL

RENISHAW METROLOGY LTD., NEW MILLS, GLOUCESTERSHIRE, UK

W0FY, 320 GREENTRAILS DR. SOUTH, CHESTERFIELD, MO 63017

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K4SDS, RADIO-ELECTRONICS

SHIZUOKA U., FACULTY OF ENGINEERING, HAMAMATSU 432, JAPAN

K4IPV

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DEPT. OF PHYSICAL METHODOLOGY, SEARLE, 4901 SEARLE PARKWAY, SKOKIE, IL 60077

K4IPV, P.O. BOX 1099, FALLS CHURCH, VA 22041

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W6AAQ, 809 CAPAY ST., BOX 595, ESPARTO, CA 95627

AB8W, GAMBIER, OH

N1BBH, TERRYVILLE, CT

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W2TMF

K0RL

K3EQ, P.O. BOX 395, WARRINGTON, PA 18976

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GREAT NECK, NY

WA3MKB, SPRING COVE, PA

AG4R, MIAMI SHORES, FL

RUISLIP, MIDDX., UK

WB8ZFF, CINCINNATI, OH

W0THM, 417 6TH AVENUE, N.E., OSSEO, MN 55369

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W6WTU, MANHATTAN BEACH, CA
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13, LANSDOWNE PLACE, CLIFTON, BRISTOL BS8 3AF, ENGLAND
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W8MQW

W6HPH, 1169 LOS CORDEROS, LAKE SAN MARCOS, CA 92069

WB9ALH, PLAINFIELD, IN

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1822 9TH STREET W., KIRKLAND, WA 98033

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WB1CPM

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W8EEF
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N5EIF, SAN ANTONIO, TX

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NTI, 355 N SHERIDAN ST., #114, CORONA, CA 91720

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AE6C, 48617 TONOPAH CT., FREMONT, CA 94539
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Sheet1

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K0WVN, 607 WABASH ST., TOPEKA, KS 66616
SCIENCE AND ENGINEERING ASSOCIATES, ALEXANDRIA, VA 22314
ERICSSON FIBER OPTICS AB, BOX 42036, S-12612 STOCKHOLM, SWEDEN
ENGLISHTOWN, NJ

LORCH ELECTRONICS, 105 CEDAR LA., ENGLEWOOD, NJ 07631
W1SL
IBM RESEARCH DIV., T.J. WATSON RESEARCH CENTER, YORKTOWN HEIGHTS, NY 10598
TUFTS U., MEDFORD, MA 02155

DEPT. OF ELECTRONIC & ELECTRICAL ENGINEERING, KING'S COLLEGE LONDON, U. OF LONDON, UK
WA7NAP, AZ

DEPT. OF PHYSICS, NATIONAL TSING HUA U., HSINCHU, 300 TAIWAN
T.A.O. GROSS & ASSOCIATES, LINCOLN, MA

KB4ZGC, 82 LIDDELL ST., BUFFALO, NY 14212-1824
VISTA ELECTRONICS, 8266 VISTA DR., LA MESA, CA 92041
BOLTON ENGINEERING INC., 37 WASHINGTON ST., MELROSE, MA 02176

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VE3QQ, 215 BROCK STREET, BOX 994, STAYNER, ONTARIO, CANADA L0M 1S0
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W1FB

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SONY CORP. RESEARCH CENTER, FUJITSUKA-CHO, HODOGAYA-KU, YOKOHAMA 240, JAPAN
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WA4EWI, 101 HIGHLAND DR., CHAPEL HILL, NC 27514

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N6NR, 4292 QUAPAW AVE., SAN DIEGO, CA 92117
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WESTINGHOUSE ELECTRIC CORP., DEFENSE AND ELECTRONICS SYSTEMS CENTER, SYSTEMS DEVELOPMENT D
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WB8VGE, 2225 MAYFLOWER NW, MASSILLON, OH 44646
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TEXAS INSTRUMENTS INC., P.O. BOX 225621, MS 909, DALLAS, TX 75265
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GENERAL ATE, SEATTLE, WA
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KA5RZI
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POB 582, GLASTONBURY, CT 06033
VALID LOGIC SYSTEMS INC., SAN JOSE, CA

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AA7Y

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LINEAR TECHNOLOGY CORP., 1630 MCCARTHY BLVD., MILPITAS, CA 95035
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COGENT DESIGN INC., BROOKLINE, MA

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LINEAR TECHNOLOGY CORP., 1630 MCCARTHY BLVD., MILPITAS, CA 95035
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WEITEK CORP., SUNNYVALE, CA
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RADIO-ELECTRONICS

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GENERAL ELECTRIC CO., FORT WAYNE, IN
LINEAR TECHNOLOGY CORP., MILPITAS, CA
KASHMIR, INDIA

LINEAR TECHNOLOGY CORP.
SICKENING CIRCUITS INC., SLEAZONIA, WV
USDA-ARS, AGRICULTURAL ENGINEERING RESEARCH UNIT, WOOSTER, OH
CALEX MFG. CO. INC., 3355 VINCENT RD., PLEASANT HILL, CA 94523
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LASER MAGNETIC STORAGE INTERNATIONAL CO., 4425 ARROWS WEST DR., COLORADO SPRINGS, CO 80907

BROOKTREE CORP., 9950 BARNES CANYON RD., SAN DIEGO, CA 92121
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HARLOW, ESSEX, UK
WEITEK CORP., 1060 E. ARQUES AVE., SUNNYVALE, CA 94086
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BURR-BROWN CORP., P.O. BOX 11400, TUCSON, AZ 85734
LINEAR TECHNOLOGY CORP., 1630 MCCARTHY BLVD., MILPITAS, CA 95053-7487

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WB4EHS, 1874 PALMER DRIVE, MELBOURNE, FL 32935

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TEKTRONIX INC., INTEGRATED CIRCUITS OPERATION, BEAVERTON, OR

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SUPERTEX INC., 1225 BORDEAUX DRIVE, SUNNYVALE, CA 94089

W1SL

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WA4CVP, RTE. 1, BOX 209W, CREOLA, AL 36525

VIRGINIA POLYTECHNIC INST. AND STATE U., DEPT. OF ELECTRICAL ENGINEERING, BLACKSBURG, VA 24061

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SIGNETICS CORP., BIPOLAR LSI DIV., 290 N. WOLFE, SUNNYVALE, CA 94086

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PHILIPS ELCOMA DIV., EINDHOVEN, HOLLAND

N.V. PHILIPS GLOEILAMPENFABRIEKEN, ELCOMA DIV., EINDHOVEN, NETHERLANDS

METALS AND CERAMICS DIV. AND NATIONAL CENTER FOR SMALL-ANGLE SCATTERING RESEARCH, OAK RIDGE N

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MAXIM INTEGRATED PRODUCTS, SUNNYVALE, CA

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LEICESTER, UK

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	2 8085/8755/8205/74126/2N4004/2N4002/1N914/	5
	1 2016/6116/74LS245/7486/7474/7404/7420/74LS138/7400/7427/	9
	2 4143/4856/7400/7413/7421/7402/555/74138/7473/7404/IN914/	7
DEID	4 82C82/7400/	1
	1 L200/7805/SKB2-02L5A/	2
AIANCH	1 324/	1
	7 L296/SGSP321/LM358/BC377/2N5038/BDW23C/VHE2401/BYW80/TYP512/	3
DESIGN FEA	2 F2002/1N753/MSA0104/1N4004/MRA0500-19L/	2
	1 S3030/1N914/	1
AIANCH	1 733/686/LF357/470501/	3
DAACSYCI	1 J309/2N3906/2N3904/J555/J557/	5
COMPUTER F	3 L35OV5/MC1469R/2N3771/HEPS7000/2N706/LM340K12/LAS1905/	3
	1 741/2N3047/2N3055/2N3054/BC177/BC109/317/1N4002/	8
BUILD THIS	1 74LS85/74LS00/2N2222/	4
HARDWARE	1 1458/2N2222/	2
PROJECT 80	4 74LS157/74LS283/74LS195/74LS95/74LS74/74LS73/74LS00/74LS32/	9
LEED	1 74192/7440/7408/2N2368/7400/	7
	2 74154/7493/7400/74150/SL100/1N914/7476/	8
NOTES	1 3446/81LS96/9324/74133/74174/74LS05/7485/74164/74175/	9
MEASUREME	1 74HC14/2N4403/2N4401/2N3904/BAT41/	5
	4 741/NE5534/AD536A/LM313/	3
REPA	1 74150/74104/7411/7408/2102/	7
CIID	1 74125/	1
	1 4538/4511/4522/4093/4071/4024/2N2222/	7
FEATURES	1 555/74HC04/2N3904/	4
HIKI	1 555/741/2N4400/1N914/	3
ARTICLES	2 8631/1007/2SK134/MJ15004/1N4006/1N914/	3
APID	5 87C51/DPS128/MAX232/74C373/74C08/	5
BILA	1 276-1705/CP33/	1
APPLIED ID	1 7812/2N6781/ZTX751/1N4006/7805/	4
PAPERS	1 6850/4702B/1489/1488/7414/ZTX300/	6
	1 7805/	1
INCO	1 7805/	1
	3 Z80C/27C32/TMS5220C/74HC244/741/7660/HC139/HC374/HC08/HC04/	9
NOTES	1 1802/	1
BUILD THIS	3 MAX233/Z80/75499/75498/DS1230-104/75500/74LS373/NE591/NE590/	9
IDDE	1 MAX738/MAX667/1N5817/	2
COAR	2 MAN51A/Z80CPU/Z80PIO/2716/6116/CG526/DL1414/LM317LZ/7805/	9
ARTICLES	1 UA741/2N6080/SK3188/SDP8403-301/1N5240A/SK3314/	3
BUILD THIS	8 CA3162E/CA3161E/CA3136E/LN514RA/LN0202RP/LM324/LM340T5/	7
FEATURES	2 UA723/2N3567/2N3055/2N2222/1N4002/1N4001/	3
	2 CA3240/340P/	1
DENO	5 CA3140E/VN66AF/BC177/VN10KM/4011/BC109/2SK134/2SJ49/CA3140E/	5
PRODUCT LI	1 TA8609P/TA8607P/TA8604N/TA8605N/TA8606N/TA8708P/	6
INCO	4 CA3240/MC1458/LM207/741/2N3055/2N2905/2N2219/BD137/	5

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READOUT	2 MAX131/MAX406/MAX408/BP104/	2
HOBBS DEPA	2 MCT2/4N27/TIL111/1N4001/7805/2N2222/7805/276-1770/TIP31/	4
	1 ICL8211CPA/NE544N/SN74C00N/2N4126/2N4124/RS74C00/276-2301/	5
TENO	3 ICL7660/AD537/2N5459/AD515/741/LM324/PXO1000/NE555/301/	7
	1 RCA8575/	1
PROJECT	6 MC3423/748/7474/741/NE558/NE555/2N3904/1N4148/1N4001/	3
DEAP	1 MC68030/MCM4180/MCM62350/MCM6290/	8
	3 4CX250B/C106B1/ECG5455/OC3/	1
	1 MC3357/TC9122/35K40/2SK125/4560/3K540/MFE131/BB122/BC548/	9
PROJECT	1 ADC0808/ADC0809/74LS245/74LS138/BC184/BC109/74LS30/74LS04/	9
	4 AD647KH/AD567KD/6821/2N5135/ADC1210HCD/4520/4051/TL084/4011/	7
FEAR	4 AD624/555/AD538/OP400/LF356/14584/7493/7474/1N4004/ECG123A/	4
RATECO	2 TDA7052/NE604AN/NE612/L4885CV/BF981/BF256A/BB204/1N4148/	7
FEATURES	2 TDA7000/LM386/ECG618/1N4001/	2
HARDWARE	2 ADC0816/74LS74/555/74LS30/74LS04/1N914/74LS367/74LS02/	8
	1 AD7502/3606AG/AD582/AD574AJD/SN74LS273/SN74LS245/SN74LS138/	9
HIENNUPHRA	1 AD558/OP7/LM224/2N2222/2N6039/1N758A/	5
HARDWARE	2 ADC0817/8304/4001/74LS30/74LS04/74LS00/74LS123/74LS241/	7
	1 ADC-HZ12B/	1
	1 NE5560N/TIP41A/2N3638A/BYW29/	3
	2 WE44B/2N4401/2N4013/WE51F/1N3666/	4
HANO	1 NE73437/1N914/	1
	3 BF961/3SK88/MRF237/2N2369A/2N3866/TP2320/BF241/BF274/1N4001/	6
BUILD THIS	1 LF347N/LM324N/LM13700/1N458/2N3906/2N3904/LM340L15/LM320L15/	9
CISYLE	1 LF347/CD4066/3DJ7/	7
QRP	1 MFP102/2N2222/2N3906/2N3866/	4
FACTCARD	3 LF381/LF351/LM331/LM317HV/2N2222/1N3880/	3
TRBR	1 LF356/4066/	9
TECHNOLOG`	4 SG3525A/SG3524/UC3842/SGSP369/IRFZ20/2N2907/BYW29-100/VM68/	5
DESIGN	1 SG3525/BUZ11/BYT01-400/BZX88C15/BZX85C33/	4
	1 MGF1202/MGF1402/NE72089/1N914/	1
	1 MJ5416/2N3439/2N6547/2N3904/2N5859/1N4007/	8
	1 6JB6A/1N914/	2
CIRCUIT ID	1 TL072/	1
ENNO	1 TL084/	2
COAR	1 TLC555CP/LM393N/IRF521/IRFZ12/LM358BZ1.2/1N4148/1N4001/	3
APNO	1 TLC549/8051/8052/	2
NEW PRODU	1 LM117/	1
	2 LM1800A/747/2N5232/H43020436/H43020483/4016/H4151/	4
EXPERIMENT	2 LM309/	2
	1 HM6264P15/74HC00/	3
TEAR	2 AM286ZX-LX/AM80C287/8042/AM27C512/ICD2024/82077/VL82C106/	8
DEID	1 LM358/LM385B/TIP36/	2
FEATURES	2 YM7109/2072D/AS28/PST523/JS8/HC00/78L05/2SC945/2SC1815/FAP20	6
DEID	1 LM2576ADJ/LMC6081/VN01A/1N914/	4
	9 LM3524/LM10/MF10/LM393/LM391N100/LM311/LF412/LF441/LM331/	9
PCEN	1 TMS320C30/SN74ACT8990/TLC32044/	3
BUILD THIS	1 HM6116P3/2N3904/74LS139/1N4148/	9
FACTCARD	3 LM301A/LM350/LM387/CA3140T/MJ4502/1N457/	3

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DEID	3 LM11/IRF521/IRF541/IN5400/1N4148/	3
	1 LM318/LM310/LM301A/TIP32A/TIP31A/	6
	2 LM11/LM10/TL084/S2386-5K/TIP120/	4
FEATURES	3 LM317T/MPF102/MPS3866/2N3565/2N3563/2N3055/MRF630/MRF559/	9
	1 LM317/276-1778/276-1001/276-034/276-1102/276-1561/276-563/	2
PAPERS	1 2N5943/HSCH1001/	3
DEID	1 2N690/1N4001/1N1206/	0
	3 2N5485/40673/2N918/2N3563/2N4221/2N3866/DV1210S/DU1240T/	7
	3 SN74LS373/SN74LS283/SN74LS221/SN74LS193/SN74LS174/SN74LS148/	8
	1 2N3904/HEPS0015/2N3906/HEPS0019/	2
	2 2N2222A/2N3866/1N914/1N198/1N3063/1N34/	4
DEID	1 OP177FP/MAT04FP/2N2222/	3
	4 UPD858/40673/2SC1675/HEPS9120/HEPS0011/2SC537/2SC1674/LM309/	9
	4 OPA27/REF10/INA105/OPA111/	3
BEGINNER'S	1 MPF102/40673/	3
	2 MRF449A/1N270/1N34A/	1
FEATURES	1 MRF517/2N3866/MRF476/TIP125/	3
FEATURES	1 MRF137/1N4148/276-1122/	1
PAPERS	4 IRF540/IRFZ40/UES0945/UES1303/	2
	1 MRF966/78L12/78L05/2N2222/	6
	2 MRF901/276-2044/MPS222A/276-2009/IC4011/	2
IDDE	1 2SA1077/MPSA06/TL431I/	3
	2 MSA0304/1N4002/2N4124/78L08/	4
	1 1S1555/V11-00-76-05/	0
	1 2SK682/ESAC92M03/	0
APPLICATIO	3 ZTX652/ZTX650/ZTX449/ZTX300/IN4148/BY206GP/ZS170/	2
APPLICATIO	3 ZTX652/ZTX650/ZTX449/ZTX300/BY206GP/ZS170/IN4148/	2
IDDE	1 LT1158/LT1431/IRFZ34/1N4148/	4
DESIGN ENT	2 LT1070/	1
PRHI	1 LT1123/2N6489/MJE1123/	2
SOSTDE	3 LT1070/1N914/1N4001/	1
OTCO	1 CX1685/	0
	1 A-D429B/	1
	5 HCT4066/HC139/HC22106/HCU04/HC373/	4
DESIGNER'S	1 555/	1
SPRE32BIMI	1 WE32106/WE32104/WE32100/WE32101/WE32103/	5
	2 SN74154/74C154/NE556/SN7493/74C93/74C76/74C73/74C02/74C00/	9
	3 CX1157/CX1180/1N5402/IRF430/VNO440/2N6661/2N918/15KP280/	6
COAR	1 50C5/12BE6/12BA6/12AV6/	2
STATE OF S	1 MAX600/	1
CICICE	3 UA78S40/2N4398/MR821/	2
PROJECT	1 TIP31C/2N6385/MC1466/1N4007/	3
HOME-BREW	1 3N204/40673/BS170/IRF511/276-2072/MPF102/276-2062/2N2222/	7
FEATURES	1 MPF102/MRF630/MRF559/MPS3866/2N3565/2N3563/MJE180/2N3906/	9
CIID	1 4029/TL071/4011/	5
	1 4047B/4017B/4011B/4070B/2N3905/2N3094/ICM7211AIPL/BC307/	9
DEID	1 4029/4042/4013/4081/4030/4071/4009/	9
	3 4018/318/310/9305/4518/4520/74LS126/3140/K1100A/4049/4049/	7
PRUP	1 80386/82C301/82A303/82A304/82B305/8042/82C206/	3

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FEAR	1 8051/75176/	2
	2 10198/10101/10115/2N5770/2N3906/2N3904/1N4148/HP2835/MR502/	9
CODI	1 80386SX/82C215/82C211/82C206/82C212/82C605/WD37C65/	5
APNO	2 80386/ADMA32/SAB82258A/5C060/SAB82288/SAB8286/SAB82284/	8
	3 L296/L4960/BYW80/BYV28-50/IN5822/	2
SOLID STAT	4 8240/8250/8260/741/111/5402/7402/276-1096/7208/	4
	3 F245/	1
RFDEAW	1 U310/5082-3168/1N4454/	1
ENRE	4 F410/D28C18/AD744/5532/74AC374/74HC04/LM317L/2N3906/1N5718/	9
	7 741/MC14050B/LM339/XR2206/8T47/MC1458/	1
ELNO	3 7489/74193/555/7414/7400/TIL32/	5
FEATURES	1 7438/7406/276-012/	2
DESIGNER'S	1 7473/7408/7406/	7
APID	1 14538/LF353/LM393/J177/IN4148/	5
IDDE	1 74HC74/1N4148/	1
	1 74181/7400/74182/	6
	1 74121/2SC1723/2SD724/RD5A/10D10/	6
	3 1496/LM741/	5
IDDE	1 74HC165/74HC14/	5
	3 74LS245/7404/7400/LM340T5/MC14411/	3
	5 74S04/7493/74S153/7402/4050/04/7408/7432/7805/7905/	9
NOTES	2 741/2N3904/SN76477/SN74192/SN7476/1N914/	5
	2 74LS367/74LS04/74LS00/74LS02/TIL220/7805/CD4050/	5
DEID	1 741/1N4148/	1
IDDE	2 74C164/CD4024/CD4078B/CD4073B/74C86/CD4069/	8
	4 74192/555/2N1308/309K/276-116/7404/1N4001/	6
	1 74197/74154/	2
	1 T414/T800/74HC592/74HC273/74HC74/74HC32/74HC14/	8
IDDE	1 74HCT14/1N914/	0
	1 74LS393/74LS74/74LS132/74LS241/74LS20/	5
MICROPROCE	1 74174/74S287/74S200/74157/MMI5701/MMI6701/	8
	1 74LS373/7400/74LS30/74LS27/	4
	2 4515/4040B/373C/4027/4047/4081/4001/	9
	1 555/1N914/	5
	1 555/4027/1N4148/	2
TEST CASE	1 55108/	1
	2 M50110P/CD4051/2N2222/2SC1815Y/2SC2334/EL-IL2/1S2075/	5
	1 R6522/ADC80/MXD807/	3
TECHNOLOG`	3 87C64/CD4543/4516/LCD004/MOC3010/7808/CD4093/CD4030/	6
SHOWCASE	5 7868/7199/6GF7A/5BC3/LM337T/LM317T/7912/7812/SK9339/1N4001/	4
PRUP	1 Z80B/8237/2793/8259/8255/2681/	6
CICICE	2 Z8671/Z6132/74LS373/74LS244/74LS10/MC1488/MC1489/	3
BARGAIN CO	3 6845/2716/74157/6116/74165/74LS245/74LS138/74174/74LS244/	9
HOBBY CORN	2 7805/	1
	1 7812/1N5404/1N4002/	1
	1 6845/6116/2732/Z80A/	5
ARTICLES	1 R955/LH0063/LM306/9602LS/IRFF9220/VN100M/VN0308N/VP0300M/	9
APPLIED ID	2 DAC0800/RS309-458/RS283-306/	3
	1 CA3010/2N3565/2N3638A/1N661/2N2714/	5

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FEATURES	1 3A4/555/7805/MJE3055/2N3904/1N4004/NE2/	5
IDDE	1 MAC92-3/VM08/	2
	1 DAC71/DAC72/	4
DESIGN ENT	5 HA5147/HA5002/HI5811/HT506A/HA5320/HD80C86/	9
	1 UA741/SL100/2N3055/	4
IDEAS FOR	1 DAC1201/74151/LM339/7474/74191/74174/7404/	9
	3 CA3140/CA3247/CA3240/LM741/TL074/CD4046/CD4520/CD4098/CD4047	9
NEW PRODUCT	1 MAX232/	1
IDDE	1 PAL16R8/82S105B/74ALS6301/74AS632/74BCT2828/	4
SHPA	1 CA3080/	4
APPLICATION	1 KA2223/	2
HAHA	1 MAX232/	1
IDDE	1 MAX232/DS8921/LS08/1N4732A/	4
TECO	1 MAX232/	1
PRACTICAL	1 CA3140/	1
NOTES	1 GAT1-010/2N3904/	2
DESIGN ENG	2 SBC517/2716/TL505/XC3417/LM358/LM386/8748/1N914/	7
DEID	1 MC1468705G2/MC1776/MPSA12/2N3906/	4
	1 MC14528/MC14013/1N914/	7
	2 MC1488/7660/MC1489/1N4001/	2
BUILD THIS	2 MC68HC705C8S/MAX232/MC1489A/MC7806CT/1N4148/	3
DEAP	1 AC373/	2
	2 ICL7109CPL/DAC1231LCD/LF356N/CD4051/74LS04/	2
	1 MC1027/AM685/UA201A/UA725/2N708/5082-2835/9502/2N3906/	9
COSE	1 MC14447/	1
	3 MC1408L8/TLC555/TLC374A/LF353/74HC373/74HC02/7812/7905/7805/	7
CICICE	9 MC6525/MC14422/74LS151/74121/74LS95/74LS93/LM741/NE555/	9
CIID	1 BC337/	1
RTTY LOOP	1 MC1489/MC1488/	2
DENO	1 AD565/741/AD574/6821/74245/7400/	7
	2 AD561/LM311/7474/74121/74193/AD509/R6522/MC6844/74125/74174/	9
	1 ADC-HZ12B/AM6012ADC/74LS393/74LS93/TL081/2N3638A/74LS221/	9
HIENNUPHRA	2 SD5000/HA5320/74F524/LM6361/EL2033/HA19209/HC138/HC161/LS109	5
AIANCH	1 AD571JD/1458/74174/74123/7432/	7
BUILD THIS	2 TDA7000/LM386/555/NE5514/2N2222/7810/7805/ME351-261/1N5226B/	5
PROJECT 80	1 HDSP6300/AC5947/8748/8250/74LS14/74LS245/1489A/NE590/	9
	1 WDTR1602B/BR194IL/74LS367/74LS244/74LS174/	7
	2 AD515K/Z80PIO/ILB3-8003/74LS32/	3
	9 AD7541A/LT1018/LTC1044/LT1017/2N3809/LT1022/LT1010/LT1006/	9
STATE OF S	1 TDA1034/LM324/NE570/	3
SOSTDE	2 TDA7000/	1
BUILD THIS	1 AE013/1N4001/	4
BUILD THIS	1 LF374N/LM13700N/LM324/LM340L15/78L15/LM320L15/79L15/2N3906/	9
	1 LF351/LF355/1N4148/	6
COAR	1 MFE201/3N204/SK3991/2SC2570/2N5179/SK9139/	2
	1 LF356/LM311/MC14052/AD558/	4
	5 LF411CN/NE5534/LM317T/LM337T/2SD786/2SK146GR/2SJ73GR/2SB737/	9
APSU	1 DG404/DG536/	9
APPLICATION	1 DG536/	2

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LEED	1 PGA200/2661/8048/IMS6402/	6
	1 LH2902/LM2902N/2SC458/HZ6L/	2
	1 ULN2803/4099/74HCT574/74HCT138/	9
	1 TL173C/	1
	2 TL072/LM7915/LM7815/1N4148/1N4003/	2
	1 TL074/4066B/LF357/TIS75/2N3906/1N5282/	6
DENO	1 MM74C192/74C86/74C74/SN7447/DH0034/CD4049/SN7405/CD4002/	9
AUHIFI	1 LM741/4013/BC547B/BD139/1N4148/	6
IMGR	1 TMS34020/VDO1024/SDP1024/ADR1024/	3
MOBILE SOU	3 DM79/DM96/DM88/DM87/4001/	2
FEAR	1 LM339/TL082/1N34A/	2
	3 RMDAC6012/REF01/2504/74LS374/74LS00/5805A/74S04/74S00/2502/	6
	1 AM2904/AM29203/AM2918/	6
BABU	1 LM3900/	1
CICI	5 LM386/4001/LM317/7805/2N3906/2N3904/1N4002/1N914/	3
	5 AM6012/AM2504/LT1011A/LT1016/LT1021-7/LT318A/SD210/74S74/	9
CIRCUITS	7 LM3914/	2
DEBR	2 MM5437/CD4070/CD4006/	2
MATH'S NOT	2 LM741/1N4002/	1
CQ REVIEWS	1 TMP47C40N/TC9123/MC3357P/3SK74/SC1005/2SC2458/3SK121/4028/	9
	1 LM324/1N4148/MV50/	1
DEID	2 AMD2910/ADM2910A/2732/74LS244/74LS374/74LS393/	9
COMO	1 LM3915/1N4148/	1
	3 LM380/3N205/J309/4040/3N206/11C90/LS168/74LS90/4532/4046/	9
	1 LM311N/LM555/	2
	2 LM319/LF356/74HC04/BC547B/1N4148/	4
COAUMECO	2 TMS320C25/AD7226/AM6012/ADC85/ADCHX12BGC/TIBPAL16L8-15/TL081	9
ENGINEER'S	1 1N4004/FLV117/	0
	3 ZN425E/4052/4051/324/555/TIS151/2N2905/CQX10-4/CQX11-4/OA47/	9
	1 VN10KM/2N3906/1N4148/2N2369A/	4
	1 SN74S112/SN74197/SN74S194/	9
BEGINNER'S	1 2N4427/3SK51/MC3403P/1S1555/SN76514/2SC1815Y/74LS123/2SB616/	9
BENCHMARK:	1 1N914/	0
FIFU	1 2N2907A/	1
MATH'S NOT	5 2N3904/1N4148/1N4004/	1
	1 2N3904/1N4148/	1
RTTY LOOP	1 4N33/2N2222A/MJE3055/1N4004/	3
	1 2N5657/1N4006/	1
CICI	6 MOC3010/74154/1N4001/2N3906/2N2222/2N3055/TIP31/LM3914/	3
	3 SPO256A-AL2/LM386/TIP31/TIP32/6821/2716/6802/2N5135/74LS14/	9
DEAP	1 MPS5501/LM393/PN5434/3053/4053/AD542/74HC74/4075/4040B/	9
DEFE	2 OP275/AD1879/AD741/2N3906/2N3904/1N825/1N5712/	4
TEUP	2 TP3051/TP3120/INS8048/INS8049/TP3400/TP3500/TP3504/TP3130/	7
NUEL	2 XP2008/74LS221/74LS123/74LS74/	3
	1 XR2206/CA3080/LM380/CA3140/4066/LM317/555/741/1N4148/1N4002/	9
PAPERS	1 IRF540/	2
DEID	1 LT1072/LT1006/LT1004/MUR120/IN755/1N914/	2
APPLIED ID	1 ZT2300/2TX300/L293/	3
APPLICATIO	1 GTD201/GTD101/2N3958/BF870/BF869/BC456/BC184/BC182/BC456/	9

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	9 LTC1044/LM10/LTC1013/LTC1010/LT1011/74C74/74190/7445/74C04/	9
DESIGN	1 8T36/8X300/8X330/8X350/8X320/8219/DTC900/	6
FEAR	1 LT1072/2N3904/MUR120/	2
CIRCUIT CE	2 MUX08/ADC1205/74LS373/74LS245/74LS04/1N4732/74LS02/74LS20/	8
	2 DV1008/2N4400/	3
STATE OF S	1 IVN5200KNF/2N5400/2N4401/U402/J113/1N914/1N4002/	9
	4 4-1000A/1N5614/1N5618/SCHS7500/1N5620/	1
PROJECT	1 8038/741/	2
RATECO	2 80C32/27C256/6264/NJ8821/SP8795/74HC573/74HC245/TL081/BC547/	9
APPARATUS	1 8085A/8253/8255/8279/	4
	2 8085A/8279/8155/8253/8259/8255/2716/74LS138/8212/8216/7404/	7
COAPNO	1 8085A/	1
	1 8085A2/8253/2716/8255/2114/8295/8251/1488/1489/	9
	1 8085/2716/2114/74L138/8212/74121/	4
COMMUNICA	1 8085/2716/6116/8255/8279/	6
	3 8073/8255/2732/6116/UJN2003/74LS139/74LS138/7447/7438/307913	6
REPA	3 8088/8253/7400/741/7432/7490/	3
REPA	2 8088/8255/8253/7404/741/7490/	4
COMMUNICA	1 8085A/8259/8212/8155/2716/74LS138/	6
PROJECT	1 8038CC/LF351/LF441/2N5818/2N3702/MDA202/W005/78L12/79L12/	8
CIID	1 4013B/3046/	2
	1 8085/8212/2716/AM9511/2114/8155/8253/8251/	9
REPA	3 308/741/	7
INNO	1 8085/8156/2532/74373/74C922/7402/1414/	5
COPR	1 5082-2800/	0
	1 8085A/8155/ADC0804/2716/AD558/6116/	3
FIFU	1 80C31/74LS164/74LS74/LM311/TIL413/	4
	1 100113/	1
	1 4011/2N3819/MPS3904/	3
	1 8031/373/2732/6264/9637/9636/	6
	7 80C31/DS1232/GTE8870/GTE8912/4558/358/H11AA1/H11G3/555/7905/	3
	1 4027/2N2222/	2
BUILD THIS	1 4010/SY32PT/	1
EXPERIMENT	3 308/567/4528/4027/555/2N2222/2N2907/VN10KM/1N914/	5
	1 703HC/	1
DESIGNER'S	2 4049/1N4001/2N2222/4011/	2
FIFU	1 80C31/74LS156/74LS373/74LS240/74LS32/	5
COAPNO	1 8085/0809/8255/8279/	3
DEPCBASY	1 8088/8087/8048/8259/8255/8253/8237/8284/8288/	9
	1 8035/8243/2716/2732/74LS373/4040/SN75188/SN75189/2N3904/	9
	1 8085/8253/8255/	3
	1 4066/TL082CP/LM386/2N3904/	6
FEAR	9 80386SX/80387SX/82335/82231-12/82230-12/8042/74F646/74LS573/	9
BUILD THIS	9 80C31/MC146818A/82C55A/HM62256LP15/27C64-2/74HCT373/75T204/	8
APPLIED ID	1 4017/4016/4011/	4
	2 4046/LM308/4N25/BC107/	4
PROJECT	3 4013/555/MOC3010/CD4093/7805/2N2222/1N4001/	3
PAPERS	2 8031/1210/2764/74F170/74F161A/74F125/74F20/74F14/	9
FEATURES	1 K1160AA/XO600/74LS90/7490/74LS74/7474/7805/	6

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CQ REVIEWS	4 411-245/3-500Z/56-26/56-24/ 1 8155/8085/2717/	1 4
APPARATUS	1 3140/92AV/ 2 C159P/2N2222/78L05/1N4007/	1 2
MODULATOR:	1 F187/71W30100/ED2212/	2
DESIGNER'S	1 311/2N2386/2N3638/1N4007/1N825/ 1 8156-2/8085A2/8755A2/	7 3
PROJECT	1 C106B1/276-1662/NE2/1N4004/ 3 81LS95/Z80/CNY17/CA3130E/BC184L/TAG225600/MV2109/BF244C/	1 6
IDEAS FOR	1 C106B/1N4006/V130LA10A/	2
REPA	1 C1148/	1
AIANCH	3 3160/308/7805/2N2222/1N914/4001/ 2 C15/7812/710/74LS193/74LS00/74LS30/ 1 4136/LM380/741/1458/1N4148/	4 7 5
INMEHIENPH	1 H11D2/ZTX653/BYW54/	4
SERVICE CL	1 511-515/S1349/S1403/S1348/	4
CICI	2 S28006/2N2222/2N3638/2N3055/555/1N4003/1N756/ 2 8255/ADC0809/74LS14/74LS245/74LS93/LM567/4020/LM324N/74121/ 4 8255A5/74LS138/7430/4050/8038/741/7406/ADC0804/4136/7404/	4 9 6
GEINPR	1 8255/8253/PAL16L8/ESS6011/74LS245/BC517/	7
FEAR	1 82C55/74HC04/	1
COMPUTERS	1 8255/74LS138/ 1 723/741/2N5296/2N6109/ 1 52K/460L/74LS221/2N4275/2N5055/1336BQ/	2 6 5
ENGINEER'S	1 8255/SL100/2N3055/ 1 8255/AD7574/CD4066/DAC0800/Z80/8T20/ 2 8255A/AD574AKD/HAS802/HDS820/8253A/7490A/2N2484/	9 4 7
DRBO	2 8284/4040/7490/7474A/4093/4081/ 2 634552/741/ 1 531/741/74154/74123/7493/BFW11/BC107/1N34/CA40/ 1 J309/BFX89/BCY71/BC214L/BC184L/SMV201/ 2 E300/XR13600/TL022C/1N4148/LM324/	6 3 9 9 2
DESIGNER'S	1 741/LM311/CD4016UB/555/2322640/	4
TECHNICAL	2 741/1N914/	2
PROJECT	2 74LS273/74LS244/74LS32/74LS00/1N4148/MPS6515/	4
FEATURE	1 74LS245/74LS244/74LS138/74LS77/74LS21/74LS02/74LS04/74LS08/	9
FEATURE	1 74LS245/74LS244/74LS138/74LS77/74LS21/74LS04/74LS08/74LS02/	9
FEAR	1 74LS393/74LS266/74LS244/74LS138/74LS00/	8
DEID	1 74F374/	1
REPA	1 7490/7475/7447/MAN72/	4
ENNO	1 7492/7490/7400/MC6800/MC6820/7404/1N914/ 2 747A/723A/2N5306/556/2N5232/C106B1/1N4148/1N4002/ 2 9400/276-1790/1N914/	4 9 1
EXPERIMENT	3 741C/	1
DENO	1 8491BJ/RS220/OP07/ 2 74C86/74C74/74C00/ 1 74283/74161/74178/7474/74373/74244/	7 2 9
ARTICLES	1 741/2N1711/ 1 74193/74121/BC108/BPX25/IN4148/	2 9

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	4 74LS374/74LS132/2758/2708/	3
BEGINNER'S	2 741/	3
	1 74LS138/74LS136/	5
DESIGNER'S	1 741/	1
	2 F4128/HS1001/	1
TENO	1 741/74121/2N5355/2N2926/	9
COAR	1 74190/ECG8368/555/MOC3010/7400/7805/SK3665/2N3904/1N4001/	9
IDEAS FOR	2 741/MM4003/MM3003/1N4448/1N754A/	5
	3 74121/MJE340/4N27/MPS3704/S5015/S5020/2N3391/USSIH-ICP3/	7
TRBR	2 741/BF494/BCY70/1N4148/	7
ELCOCI	2 74LS574/PVR3301/317H/	7
PROJECT	9 74LS244/ECG3047/ECG3044/74LS04/7805/ECG5400/H21A1GE/ECG123AP	4
CICI	5 741/4049/4N25/4N26/IRF511/2N2646/2N3904/2N2222/1N4007/6A6/	5
BUILD THIS	1 D40D5/2N2646/2N2222/HX200ED/2N4443/1N4007/1N4001/	4
	3 7407/LS221/75182/2N4416/2N6661/MJE12007/IRF822/S1190/2N5305/	7
WEEKENDER	1 74C14/2N2907/2N2222/	4
HARDWARE	3 74154/74151/339/1458/7493/7400/1N914/	5
PROJECT 80	1 74LS161A/74LS138/7416/74LS02/74LS00/74LS139/74LS04/2732A/	9
	3 9400CJ/DG303/ZN428/4040B/LM319/	4
CITEAN	2 741/BF245B/1N4151/NTC110/	5
ENHANCING	2 74HC4046/82C54-2/74HC390/74HC151/74HC75/74HC04/LM7805/2N4401	8
	1 747E/LH0042CD/GEH11G2/IN914/2N4401/LM329BZ/IN757A/IN4739/	4
ASK R-E	1 741/2N3391/	2
COCOAL	2 741C/2N3906/	2
PROJECT OF	1 741C/	1
	7 74373/74189/74100/74381/74154/74155/	9
RENO	1 741/	2
LETTERS	1 3467/276-142/276-145/	1
PASOSTDEPT	1 74AS804/2N3567/	2
	1 741/	2
NEW IDEAS	1 D44H11/4049/1N4003/2N5323/1N4148/ECG558/	5
TRDEVI	1 741/2N5194/2N5191/2N3645/2N3643/	7
	1 74124/74121/	2
APPLICATIO	3 74HCT374/74HCT244/74LS26/74HCT03/74HCT02/75452/4N35/74HC4050	5
DEID	1 74LS155/74LS374/74LS138/	7
	7 74S240/74LS640/28S42/74LS240/74LS645/74LS30/74LS125/74LS27/	7
	1 741/74121/2N2906/2N4093/BC107/W10/1N4002/	8
FOREGROUN	1 7413/2N4402/	2
DEID	1 74HC14/1N914/	1
	2 741/TIP110/EDIPB60/1N6001/TIP140/MDA200/	4
BUILD THIS	1 74C90/74LS90/CD4049/78L05/1N4002/	5
	2 555/566/2N3906/2N2222A/2N5457/1N270/1N914/	5
HANO	1 556/	1
	1 556/MCT2/2N2222/4011/ECG3042/1N914/MPS-A42/276-2411/276-562/	5
	1 556/276-1728/741/276-007/MPS2222A/276-2009/MPS3904/1N914/	4
IDEAS FOR	1 4518/4520/	1
	3 555/4001/BD437/1N5404/1N4002/	3
	1 556/TIL414/SEP8703-001/	1
REPA	1 1595/LM324/	5

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FEATURES	2 555/LM339/714/ATF13135/TIP3055/PN2907/PN2222/1N4001/1N914/	6
HIENPHIN	2 351/ZTX302/BAY74/	2
	2 356/74LS06/CD4066/7905/4N25/MJE340/BC237/BU208/BC178/1N4007/	6
	2 3554/1461/	1
	1 6522/40103/4015/4013/4030/4078/4093/	7
BUILD THIS	7 7555/74C193/74C922/TIL414/TL092/4098/74C14/4047/4514/74C74/	4
DESIGNER'S	1 4528B/LF398/741N/	6
REPA	2 4584/2N3954A/725/776/2N5087/2N5088/2N4126/2N4124/1N914/	7
IC TESTBEN	1 555/	1
	1 555/4N27/TIP120/4N32/	3
CONFERENCI	1 358/	1
CCT CELLAR	6 6502/2016/CD4040/74LS139/2716/2732/2764/8255/6850/SC01A/	9
BUILD THIS	1 555/2N2222/TIP146/1N5234/1N4148/	3
DEID	1 7555/1N914/	1
CICI	4 555/2N2222/2N3904/2N3906/1N4003/1N914/	3
	1 3554/1N4148/	1
FEAR	4 555/LM311/CA3140/1N914/	2
BUILD THIS	8 255A/27C64/Z80/SPO256AL2/ADC0809CCN/M956/4066/4N32A/TLC271/	9
	2 4528/4011/2N3707/1N914/	3
BUILD THIS	1 555/4066/	2
SYEL	1 555/7400/7408/2N2222/TIL906-1/TIL414/1N914/1N4148/276-1723/	7
THINK TANK	5 555/40429/ECG6405/ECG5609/HEP802/2N3904/2N2222/903/TIL414/	2
TECHNOLOG`	9 555/UA741/2N3704/2N3702/TIP42A/TIP41A/1N756A/1N752A/1N4148/	4
NEW IDEAS	2 555/741C/	1
PRSP	2 555/ECG222/1N914/1N4148/1N60/	3
	1 556/276-1728/7805/276-1770/276-143/276-137/	3
CIID	1 K561/KT817/KT814/KT363/KT301/	7
SYDEINCI	2 M68008/68681/SN74LS175/SN74LS164/SN74LS148/SN74LS05/PAL16L8/	7
	4 566/OA91/1N4006/BF259/CA3140/	2
RAFU	3 56/47/46/	9
	5 9646/MM5280/9643/9644/9645/74S10/74S08/74S175/74LS139/F464/	9
	1 8613/5C22/	2
ARTICLES	2 4621/KN22/	3
BUILD THIS	2 27C256/CD4040/CD4056B/CD4022/CD4054B/LM311/CD4520/CD4046/	9
CODI	1 2764/74LS123/74LS30/74LS04/2N2222/	5
FEATURES	1 8748/8749/78L05/2N2222A/1N4148/	4
SPSE	6 87C054N42/LM1889/LM1886/CA3126/MAX232/TDA4820T/JRC334/LM339/	6
	1 276-2035/1N34A/1N914/	2
BEGINNER'S	1 276-041/276-022/276-1101/	0
	1 S7310/MR1386/	2
TECHNICAL	2 8749H/SSI202/4098/LM358/7407/7805/2N2222/	5
	1 276-145/276-143/	0
LEED	1 2716/8155/8085/8212/74LS138/96LS488/DAC80/	4
ARTICLES	1 U741C/	2
PROJECT	1 Z80APIO/7805/7408/7447/1N4148/1N4001/BD131/	5
PRIN	1 E88C312/E88C311/80386/80387/WTL3167/82C206/8042/8742/	6
PAPERS	2 D87C51/LM324/D74A5D/	2
	3 78L12/79L12/7805/ZN435/RS262551/RS301678/	3
	1 1822/CDP1802/1853/7570/7524/741/MPY8HJ/40109/6654/4059/	9

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PAPERS	1 Z80PIO/307-979/BTV58/7407/	4
POEL	1 Z80/Z80CTC/Z80PIO/	3
BUILD THIS	1 7812K/7805K/7905T/1N4001/1N914/	3
	2 Z80ACPU/Z80APIO/Z80ASIO2/138/CY512/7474/74LS245/ULN2068B/	4
ASTAREQU	1 7812/1N4005/12X4/VR105/VR150/	2
BEGINNER'S	4 7812/LM383/TL084/741/2N2222/4528B/4013B/4001B/2N3906/1N914/	9
COAR	1 7805CK/78M12CP/79M05CH/1N4001/1N5400/	3
	5 6802/6821/ADC0801/LM324/74LS154/74LS541/7447/74LS75/2708/	9
COMPUTERS	5 1802/74HC373/74HC299/74HC238/74HC164/74HC138/74HC02/2764/555	9
LAEX	1 7805/HEP175/	2
TENO	3 6802/2716/6821/6850/MC14411/MC1488/74LS132/74LS02/ZTX302/	8
	1 Z80CPU/Z80CTC/741/MC1408/2708/8212/74LS32/74LS74/74LS04/	9
BUILD THIS	2 68HC705C8S/68705C8S/MC145041/MAX690/LM741/UA741/ICL7660/4N35	9
	1 7812/	1
CIRCUITS	1 7805/	1
	1 6809/68052/6840/2732/3486/3487/IDT7130/	7
CIRCUIT ID	1 78S40/4007/BYS21-45/	2
SOFTWARE N	1 6802/74LS138/2532/74LS75/CD4049/74LS14/7805/1N752A/1N759A/	7
ARIC	2 78L05/79L12/40106/4011/	2
	1 7812/7805/276-1151/	3
ELNO	1 386/741/	2
	2 Z80/2764/74HCT574/74HCT245/74HCT02/74HCT04/	5
	1 6850/6821/6844/	3
	2 8877/SCHS10000/1N5550/BZY91C15/1N5614/	1
	1 6802/6821/2732/6116/74LS138/	6
	1 Z80CPU/Z80CTC/Z80PIO/6116/2716/	9
FOREGROUN	2 6820/8835/723/8T97/7400/7805/LM320/2N770A/2N5191/2N3055/	9
BYTE'S BUG	1 7905/7805/1N4002/	2
LOAR	1 7912/7812/7805/	3
NOTES	1 2902/AD580J/ICL7106EV/LM324/	3
SOLID STAT	5 CA3085A/CA3085B/CA555S/2N6180/SG1010/2N5416/2N4036/2N2101/	6
COAUMECO	1 UA747/SN74221/2N2905/2N2219/BC209/BUX47/SN7407/1N4937/1AV50/	6
BUILD THIS	1 BA1404/2N5210/	2
DEID	1 MAX709/SI9433DY/MTD3055EL/2N2905A/2N2222A/EC10QS64/	6
PAREEN	6 PA02/AM9513APC/LF353/LF351N/74HC4052/74LS245/74LS244/74LS154	9
DEID	1 UA78S40/2N3904/2N2222A/1N746/	3
	1 6AL5/6C4/	3
APNO	2 MAX743/	1
	2 CA3140/MC6821/MC6850/MC6800/	6
	1 CA3130/	1
FEATURES	1 MAR4/2N3563/7805/	4
	3 CA3086/LM3086/2N5818/TIL220R/LM7805/LM7905/LM345T5.0/	9
	7 CA3028A/	3
CQ REVIEWS	3 TA7060P/2SK19GR/3SK51-03/J310/2SC380Y/14024P/2SC1815GR/	9
DENO	1 UA723/UA741/UA7815/2N3055/BF458/BC393/BC313/	9
AIANCH	1 DAC169-16B/74LS175/	7
NENE	1 UA741/	3
IDDE	1 MAX635/MAX626/MTP8P08/IN5817/	3
APPLIED ID	1 CA3160/CA3290/R5587-822/	2

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TEMEPR	4 PAL16L8/74HCT574/74HCT377/74HCT245/74HCT138/74HCT03/74HCT02/	7
	1 CA3080/CA3140/1N4148/	9
	1 CA3207/CA3208/4516/4082/4013/4073/	7
INMEHIENPH	1 CA3083/1N4447/	1
NEPRPO	1 MAX743/1N5817/	1
PRBU	2 DAC0800LCN/555/TL074/7905/7805/BC548/1N4004/1N914/	3
FEATURES	2 CA3028/ECG724/MC1496/MC1350/MPF102/NTE746/ECG746/2N2222/	4
DEEN	4 CA3162E/CA3161E/CA3140/CA082/CA083/CA081/1N914/	4
IDDE	1 CA3260/1N914/	1
APPLICATIO	1 TA7641BP/TC8202AF/	2
DEID	1 MAX671/MAX633/2N3054/	3
SPSE	1 DAC0830/LM628/LM675/LM356/REF02/	6
CIID	1 CA3189E/	1
IDDE	1 MAX610/MAX639/	2
VIDEO	2 CA3139E/CA3139Q/CA3153G/	1
	1 CA3065/CA3028/2N4258/2N5245/BA102/	5
	4 CA3100/CA3140A/DAC349-12/CA3080/741/CD4027/CD4029/CD4069/	9
TENO	1 CA3140/	1
	1 CA3065/LM3065/MC1358/	1
	1 UA739/2N4484/BF817/2N6550/C413N/	9
HAHA	1 MAX655/1N5818/	1
NEW PRODU	1 TA8101N/TC9201F/TLCS47/TD6710N/TD6709N/TA8102P/TC9200F/	5
TEUP	2 HA2720/LM324/	1
AIANCH	1 CA3130/CA3140/4066/7555/LM336/4070B/1N4148/	8
INNUSP	1 UA741/UA725/BD433/2N3772/D818E/D245A/	4
ARTICLES	1 PA12A/LM339/LF356/TL084/LM555/4081/4013/SW01/2N3904/	9
	5 CA3080A/CA3140/1N914/2N2222/MM74C925/CD4022/1N4001/2N6385/	5
BUILD THES	4 CA3240/CA3140/2N3906/2N3904/MJE370/2N4919/1N914/	8
NODI	1 CA3020A/555/BFW11/	3
HAHA	3 KA2223/TGS822/R2868/1N4005/	1
MANO	3 MAX656/MAX654/IRF541/1N5818/	2
SHNO	1 UA741/1N34/	3
	1 CA3162E/CA3161E/2N3906/7805/LM317T/1N4002/	8
PRPR	1 LAS6320P/VSK340/	1
	1 2B50B/IH5051/1140/8748/8749/	7
SPFE	1 MB8877A/MK3801N6/SMC9216B/74LS541/74LS393/74LS273/74LS245/	9
	1 TBA231/UA796/UA741/LM1302/BC114/	9
CODI	1 KBPC1005/78L12ACZ/79L12ACZ/	3
	2 TBA120S/40841/TBA790/741/BF240/2N2222/BF258/1N60/BA794/	9
FEAR	2 BB3420L/BU108/BU225/IN643/IN4148/	1
PRIN	2 PB50/PA04/LF156/	2
ARTICLES	1 BB3584/	1
NOTES	1 BBP624/HJ17/	1
SEMGMAPH	1 BB3522/	3
COMMUNICA	1 MC1358/	1
COMMUNICA	1 MC1349/MC1330/LM3064/LM319/SD6000/MV3140/1N959/	4
CIID	1 BC237/1N4153/	2
CIID	1 MC109/MPSA06/BC212/MPSA56/	3
RFFETE	3 MC145170/MC1658/MC1648/LF351/MC74HCU04/2N7002/MV2115/MV1404/	4

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APNO	6 MC68230L8/MC68681/MC68881/MC68020/MC68851/82S153A/74F157/	9
DESIGNER'S	1 MC3456/MC1558/MJ8505/MC14001/2N2905/MJE210/MJE200/1N5360/	8
MICROPROCE	1 MC6800/6820/MP6912/MP3020/LM1489A/75189A/75451A/MCM6605-1/	7
SPT	1 MC1747/LF157A/1N916/	4
MICROPROCE	3 MCS6504/1702A/NE555/74L74/74L42/MCS6530-005/74L04/2111/	9
TEBR	1 MC146805E2/MCM2716/MC14433/MC74HC373/MC74HC245/MC74HC138/	7
PLUS	1 MC1408/MC1403/MC1747/MC1741/2N2222/2N4401/1N4148/	8
	2 BC307/BC237/BC337-25/BC337/LD271/	4
	1 MC68881/MC68230/MC6840/	4
ELCOCI	1 ICH8500A/LM108A/2N5909/	3
FEAR	9 MC1350P/NE602N/78L05/7805/	3
	1 MC14457/CD4011/XC880A/2N3904/2N2222A/1N914/276-143/	8
PAPERS	7 ICL8038/NE531/LM144/CD4047/4052/4027/74175/74123/74121/LM358	7
	3 MC1545/RCA829B/3N200/1N914/V47/	2
	2 ICM7218AIJI/MAN72/ECG123A/BC237/8035/8212/2716/7407/LM318N/	9
	8 MC68705P3/MC145155/LM358/MD108/MCM2716/MC146918/MC6805T2/	5
	1 MC6191/MC2801/MC74LS47/MPS6560/MPSU10/2N4402/1N4001/	8
COPA	1 ICL7605/79L05/78L05/	3
	6 MC14461/MC14462/LM1801/NF5301/MFE825/NSL5020/MDS-D05/1N4004/	4
	1 BC237/74LS138/BB82/LF356/HI201HS/LH350/BDX53/R6522VIA/	9
	2 MC1590/2N3251A/	2
REVIEW	2 ICL8211/8048/MCS48/8212/MP20/MP10/9602/	5
NEAPTE	2 MC6809/MCM2832/MC6840/MC6821/MC6850/74LS74/7406/2N2222/26A05	8
PEREPA	1 MC68000/	1
	1 MC6802/MCM145101/MC14011B/MC14520B/74LS367A/MM74C922/MC1449	9
	1 MC6802/MCM145101/MC14011B/MC14520B/74LS367A/MM74C922/MC1449	9
HOBBY DEPA	2 MC7805/1N4001/1N4002/1N4003/	1
	1 4CX350A/	2
	3 ECG708/2111/2N3904/2N3906/1N4148/	3
	3 HC123/HC74/HC943/TP5088/HC688/NSC858/4N27/D4206/HC14/HC00/	8
	2 MCP3022/H11J1/H11J5/2N5445/2N2222/LM339/7824/V130LA10A/P7074	4
WEEKENDER	2 MC1350P/LM340T-12/7812T/1N34A/	3
FOREGROUN	2 MC1408/LM301A/MC4024/741/MC1403U/H11A1/2N2219A/2N2905A/	7
DEAP	1 SC47820/COP472-3/DAC0800/LM675/MTS10050/1N4001/1N4454/	5
DEID	1 MC10116/BFW10/2N4080/	5
DEAP	2 MC1408N8/LF398/TL084/AD584/MC68HC11/LM1458/74LS121/	7
IDEAS FOR	1 SC108/SC158/BDX54/BA100/	4
	1 MC5157/74S197/	6
REPA	3 MC1648/CA3130/MM74C221/MM74C74/MM74C00/CD4047/CA3600/CD4016/	9
	3 ICM7240/SN7493/SN7490/SN74123/SN7408/74121/DS0026/VNT008A/	9
	6 MCR1000-4/MC14001/MDA970A2/MFOD404F/MFOE106F/MC1741/MR502/	3
	6 MC68008/68764/MCM6664-20/74LS175/74LS148/74LS161/556/MC68230	6
	3 RC4131/NE5534/NE555/AD582KD/CD4001/2N2219/IN484/	3
INMEHIENPH	1 MC10116/HP5082-4484/1N3605/	1
	7 MC1350P/LF353/MC1496N/4093BE/40673/3N211/MPF102/MRF476/	5
ACBEHATA	1 4CW50000E/8874/2C39A/	3
COFE	1 TC4803/TC4401/MTP2P50/MTP2N50/	4
	1 MC7808CT/276-1067/1N4740A/1N4001/	2
	1 MC1596/MC14051B/MC14532B/MWA120/2N6661/1N4153/	5

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BUILD THIS	2 MC1496L/MPF102/2N3563/1N914/	4
FEATURES	1 4CX1000A/GC25-933S/1N473/1N4148/1N914/	1
CITEAN	1 MC1595/LM324/	4
APPLICATIO	1 MC3367DW/MC34119D.	2
	2 ICL7660/1N34/324/2SA733/MPS2907/2N2222/2N3859/	3
	1 MC4044/74LS324/54LS324/74S169/54S169/74128/74132/74123/7490/	9
APPLICATIO	1 AD7549BD/8051/ADOP27/AD584/AD544/TL311/	7
BUILD THIS	1 CD4046B/NE555/CD40103B/CD4017B/CD4069B/CD4001B/MV834/2N3646/	9
DEID	1 ADC80/OPA201/74123/	3
POSYINMECC	3 AD521/LM311/74C221/4046/MF10/7555/4013/1N5347/1.5KE10CA/	4
DECA	1 CD4046/CD4001/2N3370/1N3064/	3
PRIN	3 TDA3810/TDA1578/TDA1576/TCA240/TL081/BC550/BC548C/BC547/7815	9
BUILD THIS	1 HD440072/MC1377/74HC04/2N3906/2N3904/1N4001/	7
R&EW DATA	2 TDA2002A/	2
RF DESIGN	4 TDA11902/NE592/NE564/MSA0685/AFT20135/7805/BC547/BFR96/BFY90	6
APID	2 AD7525/AD522/OP27/AD2710/2N3921/	5
SPOPDE	1 PD49PI/	0
CIID	1 AD9685/	1
PAPERS	1 AD840/2951/BSS125/BSS135/	8
BUILD THIS	4 CD4046/MC34119/NE555/LM311/2N3904/MPS918/SHF205/OP293A/	6
	8 CD4046/MM5369A/CD4522/CD4017/CA3130/2N2222/CD4001/1N4148/	4
	3 CD4046/MC14560/11C90/74LS190/74LS74/UA1723G/LM340/2N5590/	9
	5 AD7110/TDA1074/TDA1029/ML922/SL490/SL480/40175/4515/4558/	9
	2 CD4066/7905/7805/1P28/CL1830/MRD3056/2N5845/1N5388/1N5227/	4
	1 AD521/AD536/WE502A/	3
	2 ADC0809/8259/8253/8255/741/MCT2/2N2369/	5
	9 AD7578/AD7582/AD7548/AD538/AD584/AD585/AD544/MSM5218RS/7400/	9
DEID	1 CD4071/CD4028/	2
DEID	3 TDA1060/IRF230/2N4044/BSW68/2N2222/2N2907/A114B/1N3051A/	6
ASSPIN	1 AD630/OP27/NJ132H/LM129/	9
	3 CD4040/CD4012/CD4071B/CD4013/CD4069/1N270/NE555/TIL32/1N914/	9
DEID	1 ADC1205/8255/74HC4051/74LS688/AD580/74LS04/78L05/	7
	1 AD204/MUX28/MC68230L8/LF398/74LS123/AD574/OP07/AD7226/74LS14	7
ARTICLES	2 AD544/OP16/A4V12PL/	5
RFDEAW	1 SD1460/	2
NOTES	1 AD507/CA3140/5082-2810/	3
BUILD THIS	2 TDA7000/MC145436/MC14082/LM324N/L7812CV/78L05/MPSA13/MV209/	5
TENO	1 AD7506/SN74393/LF357AH/2505/IS921/RD4A/	8
FEATURES	1 TDA4060/CD4584BC/TIP120/MPSA13/78L05/SFH205/1N5819/	5
REPA	1 ADC0800/AD390/8255/8086/	3
	2 AD456J/UA747/SN7490/SN7400/GP59F1000/2N2222/RS4735/1N757/	7
IDDE	1 CD4093B/301TI150A/	2
	2 NE5532/LF353/	1
CIRCUITS	1 NE567/MPSA10/1N914/	3
TEBR	1 NE5050/	1
ARTICLES	1 NE555/276-137/LM317/IRF511/2N4403/2N4400/1N4001/	9
	2 NE555/741/LM386/2N3904/2N3906/1N914/MPS2907/	8
RATECO	9 NE602/	1
PAPERS	4 NE531/NE566/DM74121/JH131/MD140/HJ50/FSC2-1/2N3866/3019/2905	5

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ARTICLES	7 NE565/ICL8038/AD453/DG300A/INA105/LM6325/LF356/LM311/7474/	5
	1 FEX2500/UA9706/FEX2600/FEX2730/3870/FCM6020/11C82/	6
	4 REF101/OPA100/VN89AB/VN46AF/DG188/	3
	1 NE565N/	1
LETTERS	1 NE5532/12AT7/ECC81/7812/	3
TENO	1 HEF4013BT/BP104/	1
COPA	1 NE5534A/	6
PROJECT	2 NE555P/BC549/BC559/TIL100/LD242/1N4148/OA91/2N3904/2N3906/	3
	1 NE900175/FSCIIIF/	3
	1 NE602N/2N4691/	1
CACO	9 NE602N/78L05/	2
LETTERS	1 NE5534/LM317/TIP50/LM324/1N4007/	4
CIRCUITS	1 NE555/1N4001/	1
DEID	1 NE556/2N3055/1N4001/	4
	2 NE71000/	1
DEID	1 NE567/2N3906/BC559/ZTX500/TIL149/TIL139/	3
BUILD THIS	1 NE602N/MC34119/78L05/2N3904/MV209/1N4148/	7
	1 FEU84-3/1N914/1N4151/	1
IDDE	2 NE5537/LF398/MC1488/SD214/1N457/1N914/	3
FACTCARD	3 NE555V/4047/BC179/BC169C/BPW34/LD242/	3
BUILD THIS	3 NE566/NE565/LM386N/2N3565/2N3906/2N3904/IR155/PD600/1N4002/	6
RFFETE	4 NE604A/NE602/BFG67/	3
	2 GE106C1/1N4148/	5
TEBR	1 NE604/NE602/NE532/	3
TEME	1 NE555/BUZ10/1N4148/1N4007/	2
	3 LF356/8097/LM2935/3715DB/74LS245/8282/1N52B3/	3
	1 LF356/2N5885/2N5883/2N3906/2N2222/	8
DENO	1 LF398N/7805/1N914/	2
	1 LF353N/276-035/	1
BUILD THIS	1 LF357A/LM317HVK/LM323K/MJ15023/2N3700/MB102/DB103/1N4744A/	9
DEWO	1 BF991/MRF901/2N2857/	1
ER=	1 LF398/TIL117/BU208/ZPD27/1N4148/741/	5
	1 LF356/	1
	6 LF444/LF442/LM3915/ADC0832/LM3900/LF347/LM2878/LM363-100/	8
	4 LF356N/LF398/429B/MC1590G/AH0143CN/LH0033/LH0032/50J/FDH600/	9
	1 LF357/	1
	9 LF356/LM747/ADLH0032G/LF13333/74123/2N1711/741/ADSH5/LM361/	6
NOTES	1 LF356/VN66AF/1N4007/	5
	1 SG1524/	1
	1 SG2525/IRFZ30/MCT271/MCS2400/MPS8099/MR751/TL431/MUR1520/	9
	2 DG211/AD583/OP20/	3
APID	1 SHM-IC1/DAC-IC-10B/LF156/AM452/9400/741/74123/IN821/	9
MEPR	2 LH0032/7805/W005/	3
	4 SHM5/MX808/HZ12BMR1/EH1283/AM500GC/AM102B/710/33511/74155/	9
NOTES	1 LH0062/	1
	1 LH0002/2N5416/2N3439/	4
APNO	1 LH0023CG/	1
AROUND THE	1 SHM-HU/LH0033/ADCHU3B/	3
PART II	2 TH2095/ML8495/ECGGP81B/ECGOGP76-45/	3

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	1 SHM-LM2/	1
APID	1 SHC298AM/UA741/	2
DEEN	1 VI261/VI260/VIB60/	4
ELNO	5 DIV100/TLC274/741/2N2222/1N914/	2
APPLIED ID	1 HI201HS/BUF03/2N2369A/	3
APPLICATIO	1 SI9120/SMP4N60/2N7000/2N4403/DB105/1N5822/MUR110/1N4148/	5
	1 TIP41C/MJ802/MB-PTC205/1N971B/1N4744/1N963A/1N5373B/1N4002/	3
CIRCUITS	9 TIL112/2N3904/2N3906/2N2646/CA3059/TDA1024/S566B/7555/1N4004	4
NOTES	2 TIL116/7404/	2
BUILD THIS	1 MJ8501/D40D5/2N2222/2N2646/1N914/1N4007/1N4749/1N5234/	4
	1 MJE5742/2N3904/NE23/1N914/	3
	1 MJE350/MPSA92/1N4004/	4
ARTICLES	1 MJE15031/MJE15030/MPSA92/MPSA42/Q6040J7/1N5401/1N4004/P7092/	8
	1 MJE34/TIP3055/273-1366/276-1151/	3
AUDIO, SPE	1 SK3506/UA741/1N914/	2
	1 SK3441-292/SK344-292/LM340-12/	2
	2 TL071/HP2826/TL074/4013/4016/1N4148/	5
	3 TL081/TIP29/IN4148/TIP30/	3
TETRBO	1 VL82C100/VL82C101/VL82C102/VL82C104/80286/80287/8042/LS244/	7
ANALOG SPE	3 CLC103/IN4150/	1
BUILD THIS	5 TL497/LM393/2681/WD1770/MM58274/74LS540/74LS645/80188/8259/	9
DEAP	2 ML2111/LM318/	4
READOUT	1 TLC254/	1
DEFE	8 EL2018/EL2019/EHA2500/EHA2600/74LS74/DG243/REF05/EL2015/	4
	2 ULN2204A/	1
BUILD THIS	1 TL497/ULN2003/7400/LM340-5/LM320-5/2N3906/2N3904/1N4001/	7
NUEL	2 MLM301/SN7474/SN74S02/2N6497/BC214/BC184/2N3904/2N2219A/	9
COMPONENT	2 TLC251/TIS193/TIP31/TL431/	4
	2 TL084/LM324/CA3080/1N34/1N914/	4
TENO	4 TL082/LM555CN/MC14027BCP/MC14011BCP/2N3906/OP804/OP295A/	6
COMMUNICA	1 TL071/	1
	4 TL084/CD4046/4066/LM555/4013/4024/LM3915/LM3914/LM556/4030/	7
	1 TL064/4050/	1
SUPA	2 NL1036/850PK120/C137P8/1N4443/1N4009/1N4007/1N4005/	5
PROGRAMMI	2 ULN2803A/8255/1N4001/	1
HAHA	2 IL252/H11AA1/MOC3010/2N6154/74HC14/	2
RFDEAW	1 CLC406/	3
SPISPA	1 TLC2201/LT1028/	2
FEATURES	4 TLO84C/LM324/LM380N/	1
DEID	1 LM747/LM339/MOC3031/2N6348/1N4148/	5
HIKI	1 LM317T/	1
DEID	1 LM144/2N5745/2N3868/	3
AUHIFI	1 LM339/4538/BD240/	4
RATECO	1 LM317T/7805/1N4004/	2
FEATURES	1 LM324/276-1711/2N2222/MC3357/1N914/	2
BUILD THIS	1 LM3089/LM377/LF356N/TIP31/TIP32/LM1877/1N4002/	5
	2 LM1863/LM1981/2N5089/J309/	3
CIID	1 LM311/741/1N914/	3
FACTCARD	1 MM53126/MM53226/TIP30/2N2222/NSL5752/XC880B/GEF5D1/	3

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FEATURES	1 LM311/LM339/2N3904/2N2222/	2
	1 LM3914/LM1458/MV50164/1N5230/1N914/1N34/276-1707/276-038/	4
	5 LM317/74LS10/MPF102/74LS90/74LS93/74LS47/74LS75/74LS196/	9
CIRCUIT SP	1 LM317/7905/301/1N4002/	3
ENGINEER'S	1 LM307/NF510/2N4917/	4
STATE OF S	1 LM334/LM389/LF347/PCRC55/LF353/1N703/2N2222A/LM329/	8
BUILD THIS	2 LM3189N/LM565/LM386/LM1310N/40673/2N3563/2N3565/MV2107/1N757	8
SHPA	1 LM725/	2
	1 LM565C/	1
IDDE	1 LM339/74HC86/2N2222/1N4148/	3
IDDE	1 LM339/74HC74/74HC14/2N2222/1N4148/	4
FEATURES	1 LM340-5/7805/RS276-1770/LM317K/RS276-1778/ECG956/1N4001/	3
FEATURES	6 LM393/072/3CX800A7/7824/2N3819/TICP106M/2N2646/2N4444/2N2219	5
GLSH	1 LM339N/MC14538B/LM336Z2.5/	3
	1 LM317/7812/1N4007/	2
APPLIED ID	1 LM10C/	1
	1 LM567/276-1721/MPS3904/276-2016/276-026/276-037/276-562/	3
RFTR	1 2M189A/2M226A/6JE6/6LQ6/VN66AF/LF357/7805/1N4001/1N4760/	5
	1 LM317T/44212/1N4007/	1
ARTICLES	2 LM308/LM301/74365/74148/7476/7407/7404/2N3890/2N3055/2N3053/	6
COMMUNICA	4 LM301/MC14528B/2N3904/2N3906/2N3096/2N3095/2N3094/1N4745/	8
	2 LM317/1N914/	1
COAR	1 LM386/	2
NUEL	3 LM324/416/1N2071/	1
CIRCUITS	1 LM386/	1
NOTES	1 LM13080/TIL147/E500/LM324/CD4538/CD4032/CD4070/1N4148/	8
	1 LM109/SG1010A/C30808/	1
	1 LM3900/	1
	6 LM318/LM4250/LM311/CD4538/CD4098/CD4066/BPW83/TSHA5503/OP298	7
SECURITY F	6 LM324N/1N4454/2N3643/555/VTT1013/741/2N3641/D40D2/7812/7805/	4
	2 LM1496/MC1648/MC12000/MC4040/2N5109/MHW591/	4
DEID	1 LM324/BUZ50/2N3904/1N4001/	8
	1 LM565C/	1
BUILD THIS	2 LM3915N/MAR6/LM317T/FH1100/	3
	2 LM311/LM566C/LM339/DH0006/74148/74113/7476/4N25/BUY71/	6
CIID	1 LM358/CA3280E/IRF612/	5
APPLICATIO	1 YM3623/DF1700P/PCM67P/OPA2604AP/NE5532/	5
CCT CELLAR	3 LM324/ICL7660/7805/CD4047/TL066/2N2222/TIL111/74LS74/TIL220/	7
	1 LM324N/1N914/JB31J1/	4
NEW PRODU	1 LM2984C/	1
FEATURE	2 LM324/4040/4093/4016/74L05/BC184/BC212/BFY51/BZY88C4V7/	8
	1 LM324/2N3904/2N3906/1N34/2N2222/2N3638/	0
PROJECT	9 LM324/7812/7912/741/TIP115/TIP110/ZN423/MP5010GN/4066/BC183L	3
COAR	6 LM567/555/MOC3010/4013/GP1U52X/7805/2N2222/SEP8703-1/	8
COAR	4 LM324/BS170/2SC2570/2N3906/2N3904/TIP30/2N3055/TIP29/MJE800/	5
BUILD THIS	1 LM1800N/LF347/74C74/MR901/MR911/1N914/	5
IDDE	1 LM324/LP324/	1
COMPONENT	2 LM2574N3.3/LM2577ADJ/1N5820/	1
	1 LM324/6809/6840/74LS244/2716/2114/	9

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DEFE	1 PM119/OP44/	2
BUILD THIS	1 LM340T12/LM340T5/BR31/	4
BUILD THIS	2 LM567/LM741/LM555/7474/7404/TIL414/SEP8703-1/2N3906/2N2222/	6
HOME-BREW	2 LM555/NE555/MV2105/1N914/	1
IDDE	1 LM339/IN748/	1
DEID	1 LM324/ZN435/CD4538BC/CD4043BC/	5
THINK TANK	2 LM386/741/TIL414/276-145/GPIU52X/276-137/	2
COMPUTERS	3 LM358N/74HCT14/LM2931-5/PS2502-1/W005M/1N4148/1N4003/	4
	1 LM317T/1N5400/276-1141/276-022/276-1778/	3
	1 PM2034/	1
	3 LM3900/CD4066B/74LS629/74LS123/	2
	3 LM567/4060/4013/LM317T/2N2219A/NE555V/2N918/2N2222A/1N4148/	7
TENO	2 LM309K/LH0071/1N4752/1N4001/2N2222A/LM358N/BPM15-100D12/	7
CIRCUITS	9 LM3900/2N3904/2N3906/	2
SUPA	1 LM318/SN7400N/MJ205/2N3906/2N3904/2N3439/1N4740/320359/	8
	1 LM386/276-1731/NE555/276-1723/276-026/	2
	3 LM324/2N2222/276-1161/	2
	3 LM2935/3715DB/371515DB/1N5283/LF356/8097/8282/74LS245/	3
	6 LM1889/NE564/LM318/CD4066B/74LS73/2N2907/2N3906/2N3904/	9
NOTES	1 LM393/TLP908/2SD1543/1S1588/	4
FEATURES	1 LM567/276-561/276-021/	1
DEID	1 LM317/MBR360/	1
TENO	2 LM324/UA7915/UA7815/BY164/BD697/BD680/	4
CICI	4 LM741/H11C3GE/CNY17GE/CNY171GE/2N3904/2N3055/LM224/1N914/	6
	1 AM2901/AM2910/AM25S08/AM29825/AM25LS2520/AM2923/	8
ARTICLES	6 LM565/881/741/LM301AN/MC790P/MC725P/SN7490N/MPS6519/MPSA42/	6
ELPOPRSE	1 LM311D/OPB730/ECG116/	2
ENGINEER'S	8 LM3900/D4008/2N5051/1N1613/2N5138/MPSA70/2N3235/MPS5172/	6
REPA	1 LM1800/CA3189E/CA3189N/741/MFE209/MRF502/2N3904/MV104/	9
SHPA	1 LM741/	5
	1 LM339/2N5061/2N3055/1N914/	3
TENO	2 LM346/LM4250/LM394/	5
APID	2 LM358/MC14046/IN4148/	2
LETTERS	1 LM10/2N3439/2N6513/1N457/IN914/TIP50/	3
HINTS AND	1 2N2222/	1
HANO	1 1N914/	0
CIRCUITS	1 1N34A/	0
CIRCUITS	1 1N4764A/1N4007/	0
TECHNOLOG`	1 2N2222A/1N4148/1N4001/	2
DECA	2 2N3585/2N3019/1N2071/	5
	1 2N2219/2N3055/AD590/HA1-5135-5/	3
QRP	1 1N34A/1N914/	0
	2 2N6015/MJ3001/2N5551/2N3904/MJ2501/BC448/BC640/BC182/BC447/	8
WEATHERSA`	2 2N4401/NE567/NE555/2N4403/	3
	2 2N3866/4027/4538/BFR30/BCW60C/BCW61C/	9
QRP	1 1N34A/	0
FEATURES	2 1N5408/1N4007/	0
	1 2N3700/GA301A/IN4153/	9
HINTS AND	1 1N4148/MC1350/	1

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BEGINNER'S	2 2N2222/1N914/	1
COAUMECO	1 SN74LS33/TIL113/1N4007/	4
FEATURES	1 1N34A/	0
	1 2N2222/1N914/	5
	1 2N4416/U311/NE5534/2N6550/357/	4
COAR	1 2N2222/2N3904/	1
BEGINNER'S	8 1N914/2N2222/2N3904/2N3866/2N4036/2N3553/2N2222A/	6
	1 1N4145BD/1N4004/	2
NOTES	2 INA101/OP07/LM399/2N3456/2N2222/	5
CIRCUIT CI	3 2N2222/2N5249/276-142/1N914/	4
	1 2N4351/2N4352/74121/	3
	1 2N5551/	1
HINTS AND	2 2N3904/2N2222/	2
	4 2N2222A/5082-2835/MRF901/276-2009/276-2044/276-1124/	5
WEEKENDER	1 2N3409/	1
COAR	1 1N4001/	0
BUILD THIS	4 INS8048L/87C64/DS1267/MC14049/MC14017/IRFZ22/PN2222/GP1U52X/	5
	6 2N3819/MPS918/MRF901/3N211/276-1124/276-2033/276-2044/	3
	2 1N60/ECG109/	0
	4 2N2222A/1N4531/MVAM2/P8000/BA182/RAY3/	6
ELNO	1 1N4001/	0
DESIGNER'S	1 2N1613/OA202/MV5023/	1
MOBILE SOU	1 1N34A/	0
DESIGNER'S	1 2N3819/LVA368A/2N5139/	2
HINTS AND	1 1N4007/	0
APPLICATIO	1 2N3904/2N3906/	2
DEID	1 1N964B/	0
APTE	1 2N425/531/741/LM201/2N3053/2N3055/1N4148/MRD3054/	7
COAR	1 1N4001/NE2/	0
SCID	1 IN5290/UZ8756/YS1144004/	0
	1 2N5416/2N3439/6035/	4
	1 2N3564/	1
APNO	3 SN54LS630/SN74LS630/SN54LS631/SN74LS631/LS367A/TMS9900/	4
ABBE	1 VN10KM/	1
RAMA	1 1N34A/	0
HINTS AND	3 1N34A/	0
	1 1N914/	0
RTTY LOOP	2 4N33/MJE3055/2N2222/1N4004/1N4003/	3
FEATURES	2 2N2222/MFOD72/HP-HLMP-D155LED/	1
BEGINNER'S	1 2N2222A/2N4036/MF475/2SC2092/2N2222/2N3866/	6
	1 2N5551/2N5700/	4
PRSP	1 2N3904/NTE614/	1
	9 1N4720/1N5234B/EP470/2N5191/MPS-U52/2N3906/2N3053/2N2222/	3
	1 2N2222A/741/TIP3055/7812/7912/276-1161/276-007/276-1774/	7
	1 2N918/	1
CIRCUITS	1 1N914/	0
HANO	1 2N706/	1
ELEN	1 2N1308/BD501/	1
ARTICLES	1 VNS10KM/MJ8503/MBR1535/	5

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CICI	5 ZN414/MPF102/2N2222/2N1305/1N34A/IN4001/	4
	1 MOC8205/LM741/LM308A/1N914/2N3906/	2
ALL ABOUT	3 MOC3031/MOC3030/4N37/	2
FEATURE	1 MOC3010/2N6347/2N2646/1N4001/	3
DESIGNER'S	6 MOC3020/7413/4N33/741/4250/BC109/2N930/	2
DESIGN	7 OP37/OP27/	3
BEGINNER'S	3 MPF102/MPS-U02/2N4037/2N3866/MPS-U05/40106/NE555/2N4036/	6
APPLICATIO	1 MPM3004/MC14504B/MPSA05/	4
	2 MPSA14/1N914/1N34A/4X150A/	1
	1 MPF102/LM386/	3
DEID	1 OPA103/FOT114/FOR110/4011/4040B/74C373/ICM7207/VN35AB/LM129B	9
	9 OPA2111/OPA111/UDTFILS2D/DIV100/OPA404/MPY634/INA105/1N4154/	3
DEID	1 OPA2111/	1
	1 MPSU06/V4148/	3
FEAR	7 MPF102/2N3904/2N2222/1N60/1N34/	3
PROJECT	1 OP177/LM2931/LMC7660/LM336-2.5/79L05/LM335Z/1N914/	7
DEID	1 OP27/2N3439/2N5416/1N914/	5
	1 MPSA42/2N5401/1N4007/	5
	1 OP07/	3
	1 OP37/	1
COAR	1 GPIU52X/LM7805/1N4001/	2
DEFE	2 OPA627/1N4148/	1
NEW IDEAS	1 MPF102/2N3906/2N3904/	3
	1 OP07/SRA3H/	4
RFEMCO	8 OP37/OP27/LM337/LM317/IRF540/J105/2N3904/LM399/1N4007/	2
DEAP	2 OP27/	1
DEID	1 OP27A/	1
	3 MPF102/2N4274/2N3563/MV3102/	5
ARTICLES	1 OP27/X-UV35/X-UV100C/	1
ARTICLES	2 OP27/MGF4303A/GC51113-30/	3
PAPERS	1 HPA5082-5516/	0
	1 UPTB550/NE558/NE5538/IL15/	4
	1 OP37/	1
	1 MPSA42/MJE802/MJE702/MPS-A92/1N4742/1N4002/	5
	1 OP07/IN914/	3
FEATURES	1 OPA501/	2
	1 XR2206/1N34/2N2222/XR2211/LM567/4N33/276-1721/	9
	3 MRF317/LM556/LM741/LM311/2N6386/IJO280-3/2N2222/1N751/1N67A/	7
	4 MR2525/1N3311A/LM2930/LM342P5.0/1N4750/1N5361A/1N963A/	1
	1 IR31DQ06/IRF510/	0
WEEKENDER	1 6RS20SP5B5/HEP170/	0
	1 IRF620/31DQ06/	1
BUILD THIS	1 XR2206/74C926/4518/4013/NSB5881/MPF102/LM307/4584/7492/	9
RFDEFE	1 MRF233/	1
HIKI	1 MR756/ECG5815/	0
ARTICLES	1 MRF891/MRF559/	2
	6 ER201M/741/IN914/	1
REPA	1 IRF620/MBR140P/	1
CIID	1 XR13600/TL072/	2

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REPA	1 IRF640/	2
	2 XR2211/XR2206/1N914/2N2222/2N3906/555/1N4005/	5
ARTICLES	1 IRF840/IRF510/BUZ50/IN6263/	9
	1 IRFP460/BYV72/MUR150/	4
FEATURES	1 RS276-564/	0
	3 2SA/2N5458/MPF102/2SA53/	2
POEL	2 2SK183/K428/K346/J122/06/07/30JH11/	4
CIID	1 SSM2141/TL071/	2
RATECO	1 BS170/BC547B/LD271/	2
RATECO	1 BS170/BPW41N/BP104/	1
NEW PRODUK	1 TSC7660/	1
DEEN	2 NSC800/NSC830/NSC810/ADC0816/MM58167/MM74PC32/MM74PC04/	9
	1 2SK682/	0
CQ REVIEWS	1 2SK19/MB3756/TA7124P/2SK241Y/2SC945/2SK30A-Y/UPC1037H/	9
HOBBY SCEN	2 RS2007/2N3394/2N708/1N4817/	3
DEID	1 LT1072/MPS650/1N5818/1N4148/	3
DEGU	5 LT1054/LT1006/LT1013/LT1010/LT1021/LT1020/LT1070/LT1018/4N46	9
DEGU	9 LT1020/LT1011/LT1006/LT1072/LT1083/LT1070/LT1018/IRFZ44/	9
STATE OF S	3 STI605/2N2219/	5
DEID	1 LT1074/MUR410/MBR360/	1
	1 MTP3N100/	1
WIUN	2 MTM5N100/74221/H21A1/	2
ARTICLES	1 MTP1N100/2N5416/2N3439/BC177/BC107A/ZPY9.1/	9
	2 NTE276/2N2222/78L05/1N4007/	2
	1 BU208D/	1
	2 MV104/MV1104/BB204/7400/MC1458/558/5558/1N914/	2
DEID	1 PVI5100/LF355N/MTP1N100/1N4150/1N758A/	7
PRODUCT TE	1 MWA130/2N5179/BB505B/BFR90/	3
HOME-BREW	1 MWA120/MWA110/	0
DEFE	1 MX2223/CLC200/	7
ARTICLES	1 IXPT2N100A/MOC3011/7404/	9
DEID	1 MX7545/MAX163/MAX400/	3
	1 HXTR2102/	1
HITERE	2 CXD1135Q/HA13468/	1
	2 AY3-8112/CA3081/MPF102/DS8629N/NSL5053/FND510/SN7400N/	9
	1 5Y3/	1
	1 HY5301/	1
	1 EZ81/5V4/	2
	1 3-500Z/	2
FEATURES	2 3-500Z/1N4001/1N34A/	3
TECO	3 8044/MPF102/2N3904/1N34A/LM340-5/	2
ONE NIGHT'	1 4011/PB2720/	1
CIID	2 4050/4049/LM317/78L05/BF981/40822/BC548/OA90/	6
HINTS & KI	1 4018/	2
AIANCH	2 8038/741KN/MONO-OP05C/T41A28/1N4448/	4
CIID	1 4040B/LS00/LS32/	3
	1 S042P/LM3089/LM386/	3
	1 11C90/SL952/FH1100/	2
	2 715/733/710/OP07/LH0042/2N4391/74121/CA3028/2N4416/2N2905/	9

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	1 311/TL084/M58725P/SN74242/SN74123/MN7100/SN7493/SN7486/	9
	1 8224/8253/8259/8279/8255/	5
	1 8216/8T97/S153/LS175/LS260/LS107/LS74/S32/LS02/93410/8097/	9
	1 733/OP17GP/AM686CN1/1N4448/	3
COMPUTERS	3 74LS688D/74LS573D/74LS541D/74LS245D/74HCT221D/74LS138D/	9
COMPUTERS	6 74HCT4040D/74HCT573D/74HCT151D/74HCT138D/74LS123D/74HCT86D/	9
HINTS AND	1 7473/NE555/LM7805/2N3055/2N173/LM317T/276-1180/276-1770/	8
NEW FRONTI	1 64535/1N4735/1N914/	1
PAPERS	2 741/TIP36/TIP35/TIP32/TIP31/1N4004/	9
	1 74F269/74F74/74F02/	6
HINTS & KI	1 741/	1
PROJECT OF	4 4553/4511/5082-7433/2N3906/MRD100/FPT100/	6
	1 6522/6502/2716/2114/74123/7430/7400/	8
BUILD THIS	2 7555/4001B/78L05/1N914/1N4148/	3
	1 M6809/2764/16L8/14H4/74LS193/MCM6665/	9
FEATURES	1 27C64/2N3905/1N914/	3
	2 8748/8035/8155/74LS74/2102/74LS373/2708/2716/6116/	7
FOREGROUN	4 2708/8212/8T97/2716/7427/7408/7404/7812/7805/2N3904/	9
CICICE	1 2708/74121/74125/7407/2N2222A/	6
	1 276-2036/1N914/	1
NEW FRONTI	1 7806/MGF1412-11-09/MGF1412-11-10/1N4007/	3
DENO	1 6800/74LS367/74LS245/74LS232/74LS259/74LS266/2716/74LS30/	9
DENO	1 6810/6875/6800/6802/	4
APID	1 Z80CPU/25LS2521/74LS161/74LS138/74LS00/TIL311/	9
	3 6850/6821/MAX232/6809/62256/2764/PE21212/AM2960/	9
	4 Z80CPU/8212/74367/2716/2114/74LS273/74LS244/74121/7474/7414/	9
TEST CASE	1 6852/6851/6821/	4
DESIGN ENT	1 6809/2764/74LS157/4164/74LS00/74LS02/1N4148/74LS393/	9
CODI	1 68000/74LS10/74LS148/74LS04/	3
	2 Z80/U LN2803/74LS374/74LS174/2N2906/LS259/	7
BIT BUCKET	1 6821/555/	2
COMI	2 Z80B-CPU/Z80B-CTC/Z80B-PIO/43256/27512/27256/27128/AD7569/	9
TEAR	1 Z8001/8259A/8253/AM9511/	3
CISO	2 6821/74LS138/74LS30/74LS02/74LS21/74LS00/	4
APID	1 Z80B/Z80A/TBP18522/TBP18S22/74LS240/LS04/	4
	3 HA2065/BC107/741/CA3140/BC177/1N4148/	9
MANO	3 MAX667/LT1123/7805/2N6489/	2
PROJECT	1 TBP24S10/TMS4164-15/74LS245/74LS74/74LS14/74LS04/74LS02/	9
	1 MC4558/ECG40/BF871/2SK135/2SJ50/1N4148/1N4005/C4V7/C5V6/C6V8	9
	1 ICM7216A/11C90/74S00/ECG3068RED/MPF102/2N709/2N2222/1N914/	8
	2 CCD321/2N3014/	3
RFDEFE	1 MC1733/VTO8090/2N3904/DCB15/6219/	5
COMMUNICA	1 4CX250B/	8
DESIGN ENT	2 MC68020/MC68851/MC68881/	3
DEID	1 BC214C/BC184C/1N4148/	2
	1 MCM51L01/LT532R/ZTX108/1N4148/	5
TEBR	2 UC2842A/MTD10N10E1/MTH5N100/4N26/TL431/MJH16006/MDA206/	6
NEW PRODU	1 MC145445/MC145440/1N914/	2
CIRCUITS	1 ICL8069/	0

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STATE OF S	1 ICL8063/741/2N3791/2N3055/VH447/	6
	3 3CX800A7/2N2222/K2AWHV14-1/SKMV130J/1N4007/276-568/	1
	1 ADC0808/DAC0808/RS0042/741/74LS175/74LS374/LS90/LS92/7805/	9
	1 CD4020B/CD4049UB/CD4556B/	3
DEID	1 AD630/AD708/AD707/AD581/	6
	3 CDP1852/CD4042/CD4011/2716/TIL220/2732/LM340-5/LM340-24/	6
DEAP	2 SDA8800/SDA8010/SDA8020/8286/	8
TENO	1 AD537/CD4020/CD4518/CD40106/CD4056/CD4055/VTP9413/65050-4RDA	9
APID	1 NE5534/	2
RFFETE	1 NE46134/	1
	3 NEC645-35/MRF309/UT5105/MC1563R/LM350/MC1463R/2N6439/	3
ENNO	1 NE555/CA3079/MCT2/1N4744/1N34/	3
IDDE	1 REF102/OPA27/	2
DEID	1 NE5205/851500/UA78L05/	3
APID	2 NE562B/7413/74390/	3
	1 BF115/	1
PRUP	1 LH4200/	1
RFFETE	6 NJ8820/SL523/SL521/UA741/HXTR3615/HXTR3102/BFG34/1N5767/	5
POSUBACH	1 TLC271/LM324/4081/4060/4013/BPY62/7808/BD679/2N3771/TIP3055/	9
	2 TL074/TL072/CA3280/1N4002/2N3904/2N3906/LM320LZ15/	9
	1 TL084/LM339/74LS00/74HC00/1N914/14551/	6
DEID	1 TLC272/74HC132/MMBT4403/MMBT4401/MMBD201/LM385M2.5/BAS16/	5
POSU	2 LM741/TIC263D/7912/7812/TIL111/CNY17/TIC206D-P/BC557B/BDV65B	9
COMPUTERS	1 LM555/CD4013BE/CD4050BE/IRFZ30/1N4751/1N4001/1N914/	9
	3 LM741/2N2905/BC107/BD139/2N3053/BFY55/BD140/2N3055/AD522B/	7
	9 LM324/1N4733/LM334/276-116/276-143/276-145/	1
TECHNICAL	3 VMP4/CR100/VN46AF/DG300/VN66AF/VN84GA/VN83GA/L161/74C14/	3
CCT CELLAR	1 TMS99532/MC1458/MC1488/MC1489/1N914/TIL220/	4
PROJECT 80	2 MM74HC943J/ICL7660/LM1488/LM1489A/276-041/276-2335/	2
APPARATUS	1 LM311/TIL139/	2
CIRCUITRY	5 LM301/CA3600E/	2
DEEN	1 LM111/UA741/54LS123/54LS74/54LS03/	5
	3 LM311/LM309K/75452/TIL306/74LS90/74LAS123/74LS74/74LS132/	9
	5 LM10/555/MAR8/10116/2N4416/SRA1/BFR91/NE72084/NE71084/	8
	1 2N4126/2N5130/2N3866/6939/1N3015/	9
	1 2N3904/	2
ABBE	1 2N930/	2
	3 1N2999B/1N914/8930/4CX250/B2B470/1N4007/1N3005B/	1
DESIGN FEA	1 2N918/	1
BUILD THIS	1 2N2646/C107D/HX200ED/2N2222/1N4007/1N4002/	4
WOID	2 2N2222/245/	2
IDDE	1 INA105/REF102/	2
	3 2N3570/	1
REPA	3 VN98AJ/BC184L/BC214L/BF224/BC264LC/1N4150/IN914/	7
	1 2N3563/	1
	1 2N2857/	1
DEFE	2 2N5108/	2
TEBR	1 4N26/TL431/	2
	1 SPO256AL2/	1

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NODI	1 MPF161/2N3392/2N2480/2N404A/2N1358A/2N2158A/1N2175/1N5061/	7
	1 MPF102/HEP-F0015/	1
DEID	1 SP16F60DC/	1
ELCOCI	1 OP32/	1
	2 SP9685/2N2894/2N2219/BFR95/ZX3,9/1N4007/1N4148/	6
	1 IRF450/MUR1560/	4
RFFETE	1 MRF141G/	1
	1 XR2240/4013/555/7805T/IRFDZ13/IRFD1Z3/276-2073/1N914/	9
ARTICLES	3 IRF9510/IRF9231/IRFD9110/IRF610/IRF610/IRFD110/IRF230/2N5248	9
PRODUCT TE	1 MRF454/2N4401/1N4997/1N4001/	4
PRODUCT TE	3 MRF448/MRF427/1N5357/MRF136/	2
	1 BS250/BS170/BC337/1N914/	3
DEEN	2 DS0026/LM555/2N5330/2N5328/2N5262/FF05/	4
	1 DS0026/MTM565/BD512/BD522/1N4244/	4
CIRCUITS	1 SSI202P/CD4099/CD4028/74LS54/74LS54/CD4017/4093/74L04/CD4514/	6
STMETHPRC	1 2SK241GR/	2
	1 TT21/	2
	8 LT338A/LT350A/LT1005/LT317A/LM301A/LT1001/LM311/2N6667/LM111	5
DESIGN FEA	1 MTM564/MTM5N35/1N4148/	2
	1 DU1260T/F1202/78L12/	3
	1 BUF410A/BYT11-1000/BYW100/IRFD9113/IRFD1Z3/BS250/	4
	1 DV1008/	2
CITHDE	1 IXGH20N50A/MUR3020PT/	4
DEID	1 LXP600A/LXP601/HCT4046A/74HCT74/74HCT00/	5
ASK BYTE	2 AY3-1015/DM8820/CD4049/MC1489/NE555/1N914/	4
XY PLOTTER	2 AY3-1015/74LS163/74LS157/74LS123/74LS74/74LS88/BD131/2N3053/	9
IDEAS FOR	1 8155-2/2716/2N1711/1N4004/7407/7404/	4
	2 6264/27128/74LS00/74LS32/	6
	2 74LS139/HD64B180P/2764/HM50256P15/74LS157/74LS245/MC1488P/	9
CIRCUIT CE	5 74LS139/BT450/74HC595/74LS245/74HC74/74S241/74HC266/7406/	7
	4 74LS175/LM340T5/1N4742/555/74LS74/74LS27/74LS00/8T97/74LS14/	9
BUILD THIS	1 74HC163/74HC688/74HC573/74HC161/74HC245/74HC14/	9
TENO	2 74C164/4040/TC084/BC3072/BC239/74C14/	3
CIARCIA'S	5 74LS374/74L139/74ALS574/74LS541/74LS574/74LS138/74LS74/	9
PROJECT	1 741S/2N3055/2N3771/BFY50/2N2219/VS247/S005/1N4001/	4
	2 2716/8255/74LS156/LM340T24/	5
APNO	2 8748/74LS374/74LS244/74LS138/74LS86/74LS32/74LS20/7406/	9
DEID	1 2817/74HC374/74HC273/74HC244/74HC132/	6
	9 MAX632/MAX636/MAX642/MAX631/MAX641/4N28/IRF640/IRF530/IRF513	5
IDDE	1 MAX630/1N5817/	1
	1 CA3086/CA3130/MC3423/2N3772/TIP3055/2N2102/FBL00-061/	9
DEAP	1 MC68302/MC145475/MC145554/MC1455/MC145407/74LS244/LS05/	7
BUILD THIS	2 TDA1029/LH0002CN/MAX454/CD4011/7805/79L05/1N4002/1N4148/	5
	2 SD305/UA7812/1N4007/	4
CCT CELLAR	5 HD64180/FDC9266/ICL7660/74LS374/74LS158/74LS157/2764/74LS74/	9
BUILD THIS	1 OE10/20L8/74HCT245/74HCT244/74HCT125/74LS86/PN2369/	9
	3 BFR91/BFR96/1N139/2N5179/BB1D5/2N4209/LM317/LM338/	4
	1 MJ12002/	2
CQ REVIEWS	4 LM358/LM3909/1N6263/1N235/1N4002/1N270/1N4154/LM3901/	2

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INMEHIENPH	1 2N4416/MPS3640/MPS3563/2N2369/BFR99/BFY84/BFY82/BFX81/2N918/	9
FOREGROUN	1 UPD8255/DS8833/DM8131/74LS04/74LS00/	6
DEID	1 LT1086/LT1011/2N6667/NTE167/MBR360/LT1004-2.5/1N4002/	8
	2 VT32/2N3702/	2
	1 80286/74ALS138/82786/74ALS245/	4
	1 4049UB/	1
	5 80386SX/82335/82231/82230/82706/MSG171-50/HM5046P12/LM339	9
APPLIED ID	1 6402/40106/	2
	4 75189/75188/4051B/6402/4047/4702B/BC477/BC107/	5
LETTERS	1 555/IRF511/	2
	3 Z80DART/74LS688/MC1488/MC1489/74HC4060/NE555/IN4148/	4
FRCOPR	1 PCD8584/74HCT688/74HCT107/74HCT00/	4
COMI	1 PCF8591/PCF8574/TL431CLP/1N4148/	3
EMTE	2 PCF8591/PCF8583/PCF8574/NM24C09/LM34/LM385/1N914/	5
DEAP	1 AD9901/AD711/MC1648/MV1404/	4
CONSTRUCTI	1 SDA4212/74HC390/74HC02/74LS00/7805/HP2800/1N4001/	6
	1 NE564/MC1496/MC10116/	3
	1 NE28/RS2020/ECG157/1488/1N4001/2N2222/	5
TEUP	1 CH1760/CH1760E/	1
PROJECT	1 TL082/BZY88C3V0/1N4148/	1
CIID	1 EL84/LM317/	2
	3 3N201/MRF911/2N5179/SRA2CM/MGF1402/1N5227/DXL2501/3N204/	6
	4 2N3819/ECG128/ECG129/741/2N5175/2N404A/2N2222/1N416B/1N82A/	8
QRP	1 MPS6514/2N3866/NTE278/2N3906/MRF476/1N914/	5
RFDEFE	1 MRF317/	1
PRTE	1 DRFS2254/DRFS2250/TDC1012/DRFS2252/	3
OPCO	1 MSA0910/AT41485/CG6070/	3
TEUP	2 VSC7104/VSC7103/VSC7102/VSC7101/	4
EMTE	2 DS1387/74LS139/4069/4040/74LS32/	3
ARTICLES	1 2SB250A/2SB107/2SB103/2SA495/MK10/RD4A/1S1585/	9
APPLIED IDE	2 ZTX500/TIL111/BC182/1N916/	3
	1 AY3-1015/74LS398/7490/2N2222/2N907/74LS04/1N914/	7
TEELCO	1 AY3-1015D/4020B/4040B/74HC02/7805/BC547/BC548/1N914/	6
PROJECT	2 AY3-1015/74177/4702B/7660/1488/74LS32/74LS00/7805/1N4148/	8
	2 AY3-1015D/8212/74LS139/74LS244/74LS32/7475/556/MC1488/	9
PAPERS	2 HY1102/BUZ50A/UGE3126AY4/	1
DEID	2 8032/8155/6264/2716/74HCT373/74HCT244/74LS174/74LS138/74LS32	9
APNO	4 80386/82288/82289/74ALS580/8205/8259A/74F544/74F373/74S30/	7
FIFU	1 8031/6264/2764/74LS373/	3
HARATE	2 210/250/50/10/27/81/46/	7
ENGINEER'S	3 R1135A/8031/74LS245/8251A/6116/2732/74LS138/74HC4060/	9
PERSONAL C	2 S3530/S7508/S6551/	2
WOID	2 245/210/T20/30/	2
TEME	1 U664B/SDA4211/74LS132/74LS90/2N918/BF324/BA70-02/1N4148/	8
VHUH	1 78L05/MGF1402/MGF1301/NE72019/1N4001/1N751/	2
CLCI	1 2A3/-56/-83/-26/	7
COAR	1 CD4024B/CD4011/1N4003/	2
PROJECT	2 NE5534N/TL074/TIL220R/7812/7912/1N4001/	9
PAPERS	1 NE5539/RA53/1N914/	2

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IDEAS FOR	1 LM319/1N4148/	1
	2 LM317T/1N4002/	1
ANDIINCI	1 LM360/HC221/HC112/	4
	2 MRF150/MC1723/MDA100A/MDA3501/	2
DEFE	1 MRF150/MC1723CP/IN4148/IN5362/	5
	1 MSA03/1N4002/U822/U824/78L05/LM340S/	4
RFDEAW	2 2SC2351/1SV153/HSM88S/	2
	2 LS245/LS174/LS00/LS125/LS244/LS04/LS138/L800/2N2222/LS02/	9
NOTES	2 74123/74126/HFBR1500/HFBR2500/HFBR2501/2N2904/BC109/BSX21/	9
REPA	2 555/741/2N3019/2N3055/	5
DEID	1 8748/AM9511/SN74LS373/8212/9602/	5
	1 373/448/425/4047/092/4515/	6
	1 8748/1488/1489/	3
	1 MC146805E3/MC68681/MCM68764/MCM6116/HC373/74S471/HC08/HC245/	9
HARATE	2 6F6/807/838/	2
ARTICLES	6 TMS5220/6502/6520/2532/4556/2716/2114/MC14516B/MC14514B/4047	9
DESIGNER'S	1 2N4036/2N4919/	2
COAR	1 4N28/2N6509/2N3791/2N2907/2N2222/MR752/1N4007/1N4004/	6
CLCI	1 6SK7GT/6J5GT/6V66/6SJ7GT/5Y3G/	9
G5YN	2 AT50/SG215/PEN220/	3
	4 8031/8155/6264/2716/2141/74HCT74/74LS373/LM3914/74LS147/1488	9
APPARATUS	3 4049/4020/	1
	2 7106/LX5700/4001/	3
	1 8251A/MC1488/MC1489/74LS32/	4
BUILD THIS	6 733/592/2N4959/2N4416/2N3906/2N3904/2N2905/2N2369/2N2219/	6
	1 5309/555/TIL313/2N3905/2N3903/HP5082-7740/1N4001/	6
	2 74LS00/	1
APPLIED ID	1 555/LM394/ZN5461/ZTX302/ZTX300/HP5082-2301/1N4148/	5
DEID	1 555/	2
CQ REVIEWS	1 4558/SM8G41/2SC1815/2SA1015/	8
FEAR	1 555/7490/7476/7448/	4
IDDE	1 555/2N5129/MJE3440/2N2907/1N1220A/	5
	1 555/4016/	2
	2 555/7400/2N3819/2N4393/1N914/	4
THINK TANK	4 555/7555/LM386/4017/2N3904/2N2222/	4
	1 96LS488/AD7555/AD7506/MC3441/AD542/AD517/AD301/LM399/6331/	9
TENO	1 276-1141/	0
	1 7805/2N3904/1N4739/1N4005/	4
	4 78542C/UPD1373H(HA)/27128/74LS163/MM74C922/LM555/74LS74/	9
	4 78S40/LT1070/LM2940-12/TIP42A/TIP32/1N5288/SR504/SB840/6A2/	3
	1 29501/29516/29540/29520/2950/2951/	3
ARTICLES	2 DAC73K/LM11/AH0014/3521L/LM399A/TP4743/4735/7476/MC14163B/	5
BEGINNER'S	1 ICL7106/1N5231B/1N5228B/1N4007/	1
PROJECT	3 MC1436/LM7912/LM7812/LM324/MJ15004/MJ15003/TIP32C/TIP31C/	9
IDDE	1 ICL7116/LCD004/YSI44202/UA741/LM308/4070/	8
	2 ICL7106/4070/LM329BH/	2
PROJECT	1 ICL7107/4069/1N4148/	2
	1 MC13176D/	1
BUILD THIS	1 ICL7129ACPL/BS170/353R3R03GHZ1/ICL8069CCZR/	3

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IDDE	2 ICM72241PL/4051/4066/4017/CD4071/7555/4538/2N2907/7806/IN914	6
RFDEAW	2 MC1648P/MC1374P/LH0002C/MV209/	2
ASK BYTE	5 CD4066/2N3904/NE567/XR2211/LM741/7805/7905/7400/LM386/ 2 IDT7132/CTI1606/CTI1487D/LS00/8031/LS373/ 2 AD521/LM334Z/LX1801DZ/1N914/1813/ 1 NE555/1N914/ 1 BF981/78L08/ 1 MGF1302/1N4730/1N4004/	9 4 2 1 2 1
DEBR	3 TL084/1N4148/	1
ENGINEER'S	4 LM3900/556/5082-7730/7474/7400/1N914/BZY88C2V4/7404/74121/ 5 AM3705D/LM725CH/LM301/1N4148/NE555/SN7490/9301/SN7404/7805/	9 8
MICROWAVE:	2 LM741/RS276-038/LM317/7805/2N2222A/	3
FEAR	3 LM555/4049/4011/2N2222/	2
DEFE	1 MMBR941L/	1
WOID	4 LM386/40673/2SC2458/2N3906/2N3904/2N3553/2N2222A/1N914/ 1 2N2222/	3 1
HIKI	1 3N211/ 1 2N2222/1N914/1N60/	1 2
QRP	1 2N4895/2N3866/2N4037/2N3053/2N2222A/1N4739/	5
DEFE	1 HP5082-310/ 1 MPF102/1N914/ 1 XR2206CP/MC1436CP/MJ1000/MJ900/LM317/LM337/ECG1258441/	0 1 8
RFDEAW	1 MRF905/1SV216/	1
INCO	1 MRD300/276-1770/276-041/276-022/	1
PRTE	3 MRF174/1N5925A/MRF134/ 1 RS2038/	1 1
RFDEFE	1 MSA0204/ 1 2149/74LS138/74LS244/74LS139/74LS74/556/74LS73/74LS32/74LS08	4 9
ELNO	4 2101/555/74193/7404/7400/566/2N2222/1458/5558/4046/	6
TUSC	1 41256/74LS393/74LS374/74LS244/74LS174/74LS138/74LS125/74LS32	9
ABBE	1 U310/MGF1302/78L05/5082-2711/5082-2794/6-5827-00/	4
BIT BUCKET	2 74S157/74LS640/74LS283/74S138/74LS393/74S08/74S04/74S241/ 1 74LS25/68764/74LS00/ 2 68000G8/6850/6116/2716/74154/7432/74161/7400/1488/14411/7404 1 78L12/NE555/1N914/ 3 BB3583/LM311/TL084/TL081/74121/7474/7438/2N6228/2N5760/1N914	9 3 9 4 9
COMPONENT	1 MC3480/MCM6664A/LS157/74LS90/8T97/LS74/S08/ 4 AD693/	8 1
68000 MACH	1 HM50464P15/	8
DESIGN ENT	1 TMS34061/TMS4161/TMS34070/	4
HOMING IN	2 LM324/LM3914/7805/ 1 PN5130/	3 2
ARTICLES	1 2N5461/2N3954/2N3904/1N756A/	7
BUILD THIS	1 TSM3915/MC12009P/74S196/UPB582C/MSA0104/LM317T/7805/MPN3401/ 6 M57762/SC1043/SP5060/2N3904/2N2907/2N2222/BLU98/MV2101/	8 2
DESIGN ENT	1 AM8530/AM7960/ 1 2N5134/2N3053/RS2009/RS2030/ 2 TSC7109/SY6522/TSC7660/	3 3 3
FOREGROUN	2 8088/8755A2/8185-2/8284/8283/8282/8205/74LS139/74LS20/74LS04	9

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TECHNICAL	4 8080A/TMS5501/8224/74109/8048/8355/8755/8155/8228/8085/8555/	7
DENO	3 8085AH2/52832/52864/6502C/74HCT374/2N3904/8282/8205/	7
APPLICATIO	1 8085A/8282/27916/8206/	5
APNO	3 80386SL/82360SL/28F001BX-T/LT1072/74F74/74F125/MTD4P05/	4
DENO	2 8085/8080A/8156/8355/8755/8228/8238/8224/	3
	1 8154/2716/74138/2114/8212/	6
	1 8255/74139/74123/7474/7430/7404/	9
SYSTEM TEC	1 74LS273/74LS175/4080/	4
DEAP	2 R8070/R6556/74HC163/74HC589/74HC595/825212/R65C22/PAL16R8/	8
HARDWARE	4 Z80/2114/2708/INS8154/74LS154/74LS32/CD4049/741/2N3904/7912/	9
	1 MC3340P/MC1385P/MJE2050/MJE2150/	4
APSE	1 AD583/AD574J/74LS04/	1
	1 AM6082/LF198/	3
	1 1N34/1N4148/	0
	1 NSC800/74LS240/74LS08/	3
PROJECT 80	3 NSC800/6514/2716/NSC810/6402/MC14411/74HC138/74LS244/74HC04/	9
DEFE	1 8097/80C197/8155.2/62256/2764/MAX232/6287/PAL16L8/373/245/	9
	1 S9900/S9901/TIM9904/	3
CITEAN	1 MC10116/	1
FEATURES	1 CD4059B/CD4046B/CD40106B/CD40103B/	4
	1 NEL130681-12/NEL132081-12/1N4007/	1
WEEKENDER	2 NEC70083/7660/78L12/2N2369A/1N754/1N749/	4
DAACSY	1 NE5539/AM685/10192/SD5001/AM500/	3
	1 BF115/BSX20/1N914/HEPS0004/HEP50/	2
ASK R-E	1 1N4001/	0
	2 1N914/2N4401/	1
LETTER BOX	1 1N4001/	0
	2 MRF901/	1
	1 ATF10235/78L05/MAR6/	2
CIRCUITS	1 3-500Z/	1
	1 3-500Z/1N459/1N295/	2
	1 301/	1
COMI	2 80C451/62256/27C64/74HC373/MAX232/74HCT86/74HCT32/74HCT08/	9
	5 8044/40673/CD4093/2N3904/2N4036/2N222A/2N3866/2N2102/	6
CIRCUIT ID	1 4016/TL081/4093/	4
PROJECT	1 40106B/H11C4/MOC3020/4053B/4093B/2N3905/2N3904/1N4148/	9
CCT SUPPLE	1 4047AE/4020BE/BD139/4011BE/1N4001/	4
TEST CASE	1 4027/4049/	7
TECH TIPS	1 4077/	1
	2 4040/MC3403/NE555/2SC372/2SC2500/1S1588/	5
	1 4066/LM324/1N4001/333-1N4001/35BL501/2N3904/2N3906/	6
	1 4046/4507/4027/4551/4574/4013/2N3819/4001/	9
	1 4020/4017/723/339/4011/4044/4069/4071/2N3904/2N3055/1N4001/	9
COMMUNICA	1 4017/4013/4027/	4
NEW IDEAS	1 4011/	1
SONO	1 8086/8087/8288/PAL16R4/74LS04/	5
	1 8085A/LS374/2114/F245/	4
LEED	2 8038/CA3140/741/4001/7915/7815/2N3819/2N3055/2N2219/2N1711/	9
INPR	3 4046B/CA3130/4030B/7805/1N4148/1N4001/	3

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COMPONENT	2 80186/82720/27128/2186/8279/8274/LS139/LS32/	8
ENGINEER'S	1 4016/CA3080/AD7520/4009/	6
	1 8044/2N2222/	2
	4 8035/8243/M917/4066/LM307/2716/81LS95/74LS165/74LS368/7406/	9
DENO	2 40636/BFX85/BZY88/	3
	1 8080A/AD582/ADC-HX12BGC/LH0032C/	4
	1 8085/8155/ADC0808/	4
DEIN	1 8051/AC6250/AIC011/AIC301/AIC6225/	3
	3 703E/SG3402/2N3014/2N3638/2N3640/2N3646/2N918/2N697/1N756/	9
CQ REVIEWS	1 8044/2SC1815Y/1N60/	2
	1 S0010/	1
BENCH	3 8031/80C52-BASIC/AD7226/ADC0808/8255/6242B/MAX633/MAX232/	8
	3 4059/4060AE/DV610/4024/4023/4049/2N6387/7805/914/	9
FEAR	7 8031/MC145030/CD4538/CD4047/27256/CD4081/CD4030/MAX232/LM317	7
IDEAS FOR	1 10101/PSC2/	2
REPA	2 102701/UA741/LM318/DG187/4705/7473/74121/NE556/7401/7490/	9
INMEHIENPH	1 8054/	1
	4 8044/LM317/2N3643/2N2712/2N2222A/1N4001/	3
CICE	4 8031/MC145406/74LS373/2764/74LS244/55257/62256/8254/TML1852/	7
CICICE	5 8031/MC145406/74LS191/74LS257/55257/62256/CA3306/74LS221/	7
	6 4001/LM7805/2N2222/2N3055/CD4514/SSI202/1N4001/1N914/	4
DRBO	1 4017/	1
	1 4040/4014/BF594/BC212/OA47/	7
:	1 4001/UA741/BA221/1N4148/BD241/	9
	2 8038/LF356/MJE340/LM337/7808/	3
DECA	1 4085BM/AD521/74160/AD7511/7400/7404/	6
FEAR	3 8031/6264/2764/74LS373/74LS244/MAX232/LM7805/Q6025L6/MOC3020	6
	1 9026/74HCT245/74HCT367/82C82/74HCT373/74HCT00/74LS02/	7
	2 8031/8749/8255/DAC0832/ADC0809/ADC0808/74LS373/LM324/7474/	5
DEID	1 4049/IN4001/IN914/	1
HAHA	1 4066/	1
NEW IDEAS	1 4093/2N5496/2N2907/1N4148/	3
PROJECT	1 4001/2N2222/2N3904/276-1662/276-036/1N4148/	8
	4 1024S/LM310/2716/LM318N/TDC1044/A101/7432/DM74365N/CD4052BC/	9
	1 40105/4051/4013/555/4068/4510/4071/4070/4046/4001/4011/4049/	9
	3 3078/ZN414/741/4013/4011/4001/2N4072/2N4058/D26E1/MPS6521/	9
	3 10116/10125/74LS373/74LS283/74S140/2732/2N6451C/MPSH81/	9
	2 10138/2N5179/2N2222/	3
SMALL COMP	4 8088/8288/PAL12L6/IMS2630/80186/PAL16R4/2630/Z8/Z80/74LS374/	7
LETTERS	1 60J3/	2
COPA	1 4011/	1
TEUPINCI	1 80386SL/82360SL/386/74LS612/8X42/82077/80C51SL/82760SL/8254/	7
FEATURE	8 60/74F827/74F821/74F646/	9
	5 4069/1N914/4011/4024/2N2222/4017/	4
	2 4046/4093/4081/4049/4098/MPS6568/2N2222A/1N914/LM3900/	9
APTE	1 4016/4136/LF355/	4
PAPERS	7 8052/ADC1210/DAC1210/8255/LF412/LF256/OP77/74HC901/CD4051/	9
HARDWARE	3 4066B/4073B/4075B/4011B/4049B/LM324/LM340T5/2N2222/1N914/	9
DECA	1 H11AA1/DG387CJ/747/1N914/	4

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HIENPHIN	1 41137/72084/	4
PROJECT	1 3140/555/1N4148/	2
	2 9195/2SK133/MJE2955/7815/4069/	3
	1 B110/	1
	1 41137/	1
CQ REVIEWS	1 4148/	0
DEID	1 111CS8/SI9956DY/2N7002/MBRS120T3/	6
PAINELCI	1 11QD03/	0
AIANCH	2 310K/460L/902/	3
COAUMECO	3 715/318/311/310/LM2/4051/8283/74LS466/74LS465/74LS348/2016/	9
RESEARCH N	1 710/7474/7486/531/741/7408/	7
DEAP	3 L1A1743/LIA1744/68000/NEC7220/MMI63S081A/PLS159/74F175/74F74	9
CIRCUIT ID	1 6116LP3/6116LP4/	1
AIANCH	1 3160/AD581/7815/40410/2N3904/1N4004/	7
	3 715/8007/5596/741/IN914/	5
	3 6116/2764/74LS541/74HC154/74LS75/74LS76/74LS32/74LS125/	9
LETTERS	1 C106D/TIL78/BC109/	3
NEAPTE	1 N1168/PCD3340/PCD3312/PCD3360/PCE2111/BZW03/	4
RADEDEAP	1 311/741/74LS123/2N5087/2N3904/2N3251/2N2369/MPSH10/BFR38/	9
FACTCARD	9 4136/3403/2N2222/LM103/1N457/1N914/	5
ELPA	1 715/311/A1015/	3
APPLIED ID	1 3140/1N4148/	2
	2 4156/311/AS0140/	4
	1 311/7404/7410/317/	5
CIID	1 L165V/1N5401/	1
LIRESE	1 3100/4538/	3
DEID	1 723/741/2N3636/2N3055/BFW10/BC177/HP5082-2800/	6
CLCI	1 12AY7/12AU7/	2
CLCI	1 12AU7/12AX7/12BH7/6550/	5
AIANCH	1 8242/74266/7490/7474/7402/	9
	1 L2656/L2690/	0
COMPUTER C	2 82720/LS32/LS139/80186/8272A/27128/2186/8279/8274/	8
	3 725/LM311/741/NF357/NF356/4066/4049/SL100/SK100/	6
SPCO	1 D26G1/D26E1/	4
ARTICLES	3 426A/741/AM685/233J/118A/2N4258/2N4416/FD700/1N914/	5
	2 32KP/2N4080/2N5771/2N2219A/4N30/2N5657/MV5253/	6
READOUT	1 82C312/82C316/82C315/82C452/82C480/82C601/82C765/	3
FEATURES	1 723/TIP35/	2
CODE	3 8255/43256-10/74LS245/74LS244/74LS138/74LS85/74LS08/74LS04/	9
DENO	1 723/BD139/	2
DEID	1 8251A/74LS393/74LS86/1489/	3
	1 S2800D/1N4008/	3
CLLO	1 4200/	1
MILITARY E	2 8255A/74C165/HD15531/74C164/82C82/7485/	7
	1 8253/8255/8259/8086/8087/8251/	3
	1 320/LM318/NE536/LF357/429B/741/2N4124/1N757A/1N914/	9
NOTES	1 72810/741/7474/2N3906/2N3904/	5
	2 42K/	1
	1 82586/74S30/74S174/8205/82501/8283/2148/2149/2114/8282/	9

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DRBO	1 8284/	1
APTEPH	1 536/	1
LEED	2 13741/741/1458/LM379S/AD537KD/BC550C/1N4148/	9
BUILD THIS	2 43256-15/MP7682JN/LM1881N/LF398N/74HC4075/74HC688/LF353N/	9
MENUSP	1 C31005C/	1
	4 6360/6939/5894/1N34/6EA8/6907/2N5245/2N5486/MPF107/TIS88/	8
ARTICLES	1 13741/741/1N914/	5
	2 741/1N4002/	1
PROJECT 80	1 74LS138/	1
	3 741/LM301A/LM312/HP2800/2N2222A/2N5179/	2
APPLICATIO	1 74F157/74LS165/MC3456/74LS00/74LS05/	7
DESIGNER'S	1 7474/7400/2N3906/2N3904/7408/1N4148/	7
	2 74LS08/74LS79/74LS02/74LS164/MC68B10/LS245/LS244/	9
NEW IDEAS	1 741/	1
	1 74C374/74C244/MSM2128/74C157/74C221/4030/74C10/74C04/74C02/	9
APPARATUS	1 7474/74122/	2
CIRCUIT ID	1 741/1N4001/	2
	3 74LS374/74LS192/74LS132/74LS85/74LS20/7404/547-2003/	9
CCT IDEAS	1 7483/7485/	3
DEID	1 74HC04/2N3906/2N3904/	3
APTE	1 741/	1
RFDEFE	1 74LS74/555/	2
NOTES	1 7490/74S90/74S74/74123/	6
	1 741/1N914/	4
PROJECT	2 54S472/74S472/CD4584/CD4503/CD4077/CD4043/CD4017/7805-5/	7
BUILD THIS	1 74HCT4040/74HCT257/16L8B2/16R4A4/LM7805/LM317LZ/1N4004/	8
INMENUSP	1 U430/S172308/S3590-06/	1
EXWO	1 74HC4066/74HC123A/	2
GAME CORNE	1 7402/7430/74125/	5
IDEAS FOR	1 74150/74193/74138/7164/74374/7485/7400/	9
	3 741/BC453/2N3772/79L05/78L05/2N3053/BD135/2N3055/1N4001/	3
APSP	2 741/2N3906/2N3904/TIP32/TIP31/	4
IDDE	2 74123/7474/7432/7408/75107/7404/	4
	2 74175/74160/74154/74123/7406/7404/1N914/	5
IDEAS FOR	1 74184/7486/7430/	5
APNO	1 741/723/SL100/ECN055/6SM16/2N3055/	5
DESIGNER'S	1 74LS273/25LS2521/74LS74/74LS08/	5
INSTRUMENT	2 8410/AD7502/4066/4053/75451/HPT1501/HPR2501/INA102/	9
	1 74123/7472/7404/1N4734/	3
SHCO	1 741/2N3819/BC109/1N4148/	4
NOTES	1 741/7912/7812/2N5655/2N5631/	9
CIID	2 741/BC108/	3
	1 7470/74121/2N2222/1N4001/	3
	1 74LS163/XR2211/555/MC1488/MC1489/4013B/74LS157/LM358/	9
	2 442-18/56-26/6EA8/	4
	2 74194/TIP122/7493/555/7407/H11A2/2N3094/2N2222/1N4003/	7
IDDE	1 74HCT193/74HCT4002/74HCT10/74HCT30/74HCT74/74HCT32/74HCT04/	9
COAR	1 74HC164/74HC74/XRL555/CD4017/2N4401/LN28CAL/1N914/	9
CICI	4 1496/567/555/386/741/2N3904/	5

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COAR	2 741/2N4401/	2
COAR	1 74LS374/74S260/74LS20/TIL311/	5
	1 741/BC148/	2
	2 741/MC14575/BS250/BS250/HEF4050/BS170/1N4148/	3
EXPERIMENT	1 7400/UA741C/	3
	1 F4129/	1
CIID	1 74LS85/74LS00/74LS02/74LS08/BC108/	8
IDDE	1 74148/74136/7445/	5
NOTES	1 741/2N2270/1N914/	2
	1 149B/AD580K/IH5042/	4
	1 740T12/2N1307/	3
	1 74LS221/CD4016/	3
	5 74S471/74C174/74C20/4050/LM3900/1852/1853/2N5306/2N5232/	5
	2 74LS221/UA7805/SN74AS20/SN74LS240/SN74AS00/BFR38/4021/	9
	1 74HC132/78L05/1N4148/	2
APNO	1 7490/7473/ECG5457/SK3020/2N3055/RS1146/SK3081/	8
ELTE	1 74C14/74C08/VN10LM/IXTH10N60/1N4148/	7
CICI	5 741/555/7912/7908/7905/7812/7808/7805/2N5061/2N5062/1N914/	6
	1 74273/ADC-HZ12B/74107/74373/1606/	5
	1 74LS125/74LS240/74LS244/74LS245/74LS373/74LS00/1N4148/	8
	1 74C221/74C76/CD4511/74C192/74C150/	5
	1 74191/74123/7402/	6
	2 74LS00/79L05/78L12/78L05/2N3906/2N3904/2708/8255/	7
PAPERS	1 741/2N3055/2N1711/BPW34/	4
ENGINNER'S	1 7448/74151/CA3080/7473/	7
	1 741/BC182L/BC212L/2N3055/PNP3055/	5
	1 74273/74LS161/7485/7474/	8
DEAP	1 94C18/81C17/74LS245/74LS174/74F521/74F373/	6
TUSC	1 74LS190/74LS48/7448/74LS04/	5
LAEX	1 74192/555/74121/324/7447/7805/TIP33/MPS2222A/276-130/	9
	2 741/SN7408/SN7410/SN7475/SN7497/ADC-G8B/	9
	1 1458/	4
APTE	2 741/UA710/7486/7402/74132/1N4148/	6
	2 74151/CD4052/74LS33/7404/	3
ENHANCING	3 74LS645/74LS367/74HC4040/74HC74/74HC04/74HC00/78L05/VN0300/	9
GEIN	2 74HCT164/555/LM7805/BC547B/1N4001/	4
	1 74150/74154/7493/555/2N2222/7400/276-041/7805/	9
PAPERS	1 741/BZY88/1S550/	3
GEIN	2 741/BC560C/BC547B/BP103/1N4001/	2
	2 4423/MC1536G/2N3705/2N3054/SGA402/LH0042CD/1N4004/1N827/	4
	2 741/	1
CORRESPON	1 741/	2
PAPERS	1 74LS221/SN7437/SN74LS31/DS0026/ZVP2110B/ZVN2110B/2N6847/	9
REPAMETE	1 741/	1
	1 555/1N4001/	5
HOCO	1 555/3909/NE2/	2
CIRCUITS	1 555/2N706/	3
	2 555/7493/7400/TIL209/	3
	1 555/ECG5402/SK3083/ECG5850/1N914/	4

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SUPA	3 2505-5/SN7490N/SN7447N/LM555/2N3904/ 1 555/CD4047A/CD4016A/CD4011A/2N3568/	7 8
POSUBACH	1 555/1N4001/	1
CIID	1 555/4066B/4017B/ 3 555/LM317T/78L12/NE21889/1N914/	5 3
INMEHIENPH	1 H5033/2N3906/2N3904/ 1 6522/	5 1
TECH TIPS	1 555/TCA280A/1N4007/ 1 555/2N2907/LM324/2N2222/276-2009/276-2023/276-1711/276-1723/ 1 555/LM317/	2 5 2
PROJECT	2 555/LM741/4093/40103/4026/TIL100/1N4148/TIL38/TIP41A/	6
CIID	2 555/TL072/4013/ZTX504/ZTX304/BD136/TSIP5200/BPW41N/1N4148/ 9 75451/LM317/SD4324/LM34/LM331/CD4046/MC14457/MC14458/CD4028/ 2 555/CA3140/AD741/AD507/1N4448/	6 6 8
NUEL	4 356/3080/319/OP97/685/96LS02/96S02/10125/7486/317T/78L05/	9
COAR	2 4538B/4046B/GP1U52X/555/78L05/2N2907/2N2222/	7
DESIGNER'S	1 556/531/	1
APPARATUS	3 7555/4520BE/4017BCN/IN4148/317/IN4004/	3
ARTICLES	3 356/BSX19/30908E/LCW10F/1N4148/	2
COSC	1 556/276-1728/TL084CN/271-110/	2
ELELSYSE	1 3522K/741/1N4739/	2
INNE	1 555/2N3393/ 2 555/ 3 451/LM308/OPA111/741/MJE3440/CD4047/CD4029/AD7541/2N2219/	4 1 9
PAPERS	1 S52R34A/	4
FEATURES	2 555/74HC73/74HC32/7805/2N2222A/1N914/	5
TATI	3 4518B/4520B/CD4511B/CD4510B/ICM7217C/CD4071B/CD4081B/4093B/	9
ENRE	3 5532/TL071/2SC2547/LM394/LM337T/LM317T/2SA1085/1N914/	9
POSUBACH	1 555C/TLC272/4066/TIP142/1N4148/ 3 4514/4011/4520/4028/4512/4042/IN4148/ 3 353/CM860/J307/2N3904/2N3906/6534/6531/6521/3704/1N914/3406/ 1 555/7405/LF13331/LF356/AD521/ 2 7555/78L05/LM358/LM567/MPSH11/2N3904/	4 4 9 7 6
FEAR	1 45/ 1 558/ 2 555/CMD5777C/2N3904/2N3906/741/IN4001/CEN1220/ 8 555/741/4013/4053/4022/4049/4503/LM317T/LM337T/2N3906/2N2222	2 1 6 7
ARTICLES	2 9528/9503/LF326/SN74221/SN74191/SN74122/SN7474/SN7442/BB109/	9
CONSTRUCTI	4 556A/553B/7400/8251B/74192/8241A/LM309DB/MV5253/MV5053/1N914 1 6502A/'LS604/2716/6522A/4164-12/ 8 45J/40J/LM711C/741/74123/74121/7474/7430/7416/7404/7402/ 1 7683/7703/ 1 169-16B/HP2630/DAC-MA12B/704C-L/	5 9 9 2 1
TEUPINCI	1 L64802/L64801/TI8847/L64803/ 1 9602/74367/74128/7474/	3 4
NOTES	1 565/TL084/4066/	3
COAR	3 567/555/LM386/2N3904/2N1595/1N4002/1N4001/ 1 7611/	4 2
COMPUTER E	2 567/4016/	2

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	1 2625/AD7512/308/2055/2N4416/1N751A/	7
	1 276-2034/276-2059/	2
PRODUCT RE	1 57-27/	0
CIRCUITS	1 276-069/	0
	1 1701/4558/1458/	5
	2 57-27/1N5408/	0
NOTES	1 8749H/SN7416/SN7400/HPLD1414/1N914/	6
	2 M710/TDA2320/M2870/BPW41/BC377/BS237/IN4148/	3
APTE	1 8703/8255A/RS308-045/74LS00/2N3704/	7
DEFE	2 27512/74LS244/74LS138/	8
FEAR	2 87C51/74HC244/74HC157/74HC151/74HC74/74HC04/LM317/DR1000/	9
ARTICLES	1 27512/TMX27C512/AM3341/LM555/74LS123/7408/	8
	1 4722B/4046B/1N914/	5
HIENPHIN	2 U733/HQV810/MVL406/IO354/	2
NOTES	1 8751/ICM7217JI/MC3486P/2N3906/MAN72A/IEE1373A/	6
	1 58725-15/LS245/LS244/LS151/LS00/	6
CODI	1 68705/SN84281/5082-7730/7805/2N3906/1N4148/	9
APPLIED ID	1 1802/4514/4021/4013/	6
PRMO	1 7805/7905/276-1161/	3
DEID	1 68030/68020/PAL16R48/74F543S/74F74/74S15/74F00/	9
CICICE	1 6821/74LS14/	2
	2 687/11C70/MRF914/	5
DEID	1 6845/LM1881/74LS221/74LS163/MC4024/MC4044/BC107/	7
CLCI	1 485/484/C586/C281/	9
CCT CELLAR	4 7812/LM338K/LM308/2N2905/MDA980-2/LM338/	6
	2 6802/6847/2114/2716/MC1372/74LS138/74LS244/74LS273/74LS367/	9
DESIGN ENG	3 Z80CPU/MK36000/74LS10/6800/MK4816/3T8D/74LS74/74LS139/8085/	5
BENCH	1 Z8671/74HCT32/74HCT04/	3
ARTICLES	3 1802/Y540/7855/HY60/556/XR320/CD4024AE/CD4009/MJE340/2N5551/	9
	2 6844/7474/74374/74161/7409/74138/	5
	4 6809/6264/27120/6821/6850/4024/MC14433/4051/LM741/LM336/1489	9
FEATURES	1 7805/2N3563/2N5179/TUF3H/TUF2H/TUF1H0/MAV11/MAR4/1N4005/	3
NOTES	3 6821/7407/7476/7402/7805/	8
AIANCH	1 08CQ/OP16GJ/UA741CP/SHM2E/OP27CJ/IH5041CPE/	9
PROJECT	1 7812/555/1N4159/	2
DESIGN ENT	1 68000/HD63484/68450/	3
DEID	1 6809/74LS393/74LS244/74LS245/74LS74/74LS175/74LS27/74LS32/	9
BENCH	1 68HC705K/MAX232/	2
VHUHWO	1 78L05/1N4001/1N751/	1
	1 791/741/	5
	1 7924/7915/7912/7905/7824/7815/7812/7805/BY126/	8
	1 6907/	2
HOCO	7 3909/555/2N2646/2N2647/LM386/2N3904/2N2222/74132/2N5060/	2
	1 L9U/1N4002/	2
SUPA	1 R928/AD650/	0
IDDE	2 CA3450/BB204/	1
IDDE	2 MAX232/	1
APPLICATIO	1 MAX743/	1
	1 CA3100/SL541B/2219A/BC107/2N2219A/BSX29/BF256B/BAW62/2N2905/	9

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	2 CA741CT/	3
	1 CA3127E/1N3062/	1
DEID	2 CA3060E/CA3160E/CA3086/CA3440/1N914/	3
	1 HA2425/74C221/HI201/HI5712/	5
DEFE	5 DAC811CBIV/HI508A/OPA2111/OPA445/OPA404/2N3822/PWS740-3/	3
DEID	1 PAL16R8/4164/74LS590/74LS04/	5
NOTES	1 UA741/TL071/TL74121/BC147C/BC109/BC107/1N4001/	9
NUEL	1 HA5330-5/HA5033/HA2541/LT1016/BAS40/	5
LETTERS	1 UA79L15AWC/UA78L15AWC/ZTX752/ZTX652/TIP34A/TIP33A/1N916/	8
CITEAN	1 CA3080/CA3280/LF355/CD4053/	4
	1 CA3100/CA3130/2N3711/2N4062/1N914/	4
CIDE	5 BA695/BA685/BA222/2SD947/2SC1740/1S2473/1SR34-100/	5
DEID	1 SAA1027/LM309/4013/7406/2N2955/1N752A/	8
CITEAN	1 CA3080/	1
VIRA	2 6A8G/6F6G/6G8G/6U7G/5Y3G/	5
DEID	1 MAX435/	1
	1 GAV20/GAV80/GAT1-010/	1
	9 PAL20R4/SCN2681/DP8419-09/74HCT374/68881/68020/145406/74F74/	8
	9 CA3028A/2N4124/SRA1/40673/2N2219/1N2069/D506-9/MPSA14/	7
PROJECT	3 CA3140/ICM7555/SFH205/2N2904/1N4148/MPS6566/LD271/1N4001/	8
DAACSYCI	1 CA3102E/MPS3640/TL082ACP/SD215/1N914/MPS3563/	9
SPPHAS	1 CA3310/LM111/LM348/74C74/74C02/74C04/1N4148/	9
ANDIINCI	1 HA5002/LF345/LF400/75451/MAT01/2N4416/2N4917/2N3646/2N2484/	9
CCT CELLAR	9 OAC5/MOC3011/2N3859/TIL111/2N6071B/4N35/H11C1/C122B/D45H2/	4
APID	1 CA3140/BC441/BC461/	4
APPLICATIO	1 MAX232/LM386/78L08/78L05/VN0300/MPSA56/	6
COAR	2 CA3237E/NTE1682/CD4046B/LM386/FIL3C/2N2222A/RS276-143/	3
DEID	1 CA3080/	4
NOTES	1 CA555/2N2222/BF115/	7
	6 CA080E/CA081/CA082/	1
	4 SAA1027/LM555/4584B/4001B/BC547/1N4001/W04/	9
ABBE	1 MAR6/5082-2835/	0
REPA	1 CA3140/2N3819/	3
AIANCH	4 HA2650/HA2625/HA2400/HA2311/IN995/IN758A/IN750A/	3
NOEX	1 UA741/	1
CYCH	1 PA02/	0
DESIGNER'S	1 HA2905/	5
CORRESPON	2 CA3179/MC12071/LM386/2N4923/2N3906/1N914/	2
DEAP	4 PA12/PA04/2N6045/2N6042/2N2907/2N2222/PA21/	4
APID	1 MAX675/MAX543/MAX482/MAX250/76250/6N136/1N4148/	6
DEID	1 MAX232/CD40106/74HC165/	3
TENO	1 CA3240/AD2026/CD4098/LM741/1N914/CD4066/	6
	1 GA45J1/	0
HIENNUPHRA	1 HA2625/NE856/	5
HAM RADIO	1 CA3140/LM386/276-225/2N2222/	4
CLCI	3 7A4/7F7/2A3/5U4G/8SN7/KT66/5V4/7C7/7N7/6L6/	9
PROJECT	1 CA3140/555/4011/2N2222/1N4002/	5
	3 DAC0800/SHC5320/ADC674A/74LS373/74161/LM747/CD4052/NE555/	9
INMEHIENPH	2 UA715/2N4416/2N3906/2N3904/1N914/	5

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INSTRUMENT	2 CA3280/LM334/	2
	1 CA3130/	3
	1 CA3096/LM3046/CA3048/	4
APTE	4 MAA504/UCY74121/7472/SN7474/UCY7420/UCY7410/SN7400/BC211/	9
	1 DAC6912B/UA776/HA2425/CMP01/96L02/NE556/CD4516B/74H01/	9
HAHA	1 MAX457/	1
	3 CA741/LM723/UA723/LF356N/LM319/4053/74LS193/74LS132/74LS00/	6
	1 HA2420/ZN447/74123/ZN428/OA47/TL082/	9
RENO	1 UA709/UA747/MC14066/MC14011/	5
	1 CA3140/4115-04/	7
	1 CA3028/BC548/BC558/	5
NOTES	1 CA3140/LM313/	1
NUEL	2 MAX420/LF398/AMP01/4538/4046/ADC0820/74688/4520/4040/	8
SHPA	1 CA3080/	2
	9 CA3080/2N4351/2N3819/741/CD4049/MC1408-8/CD4016/74284/74285/	3
RFCOST	3 MB1501/UMA1005/NE702/	2
CIID	1 BB139/	0
	3 TBA920Q/BD234/BC147/BC158/BC337/BD233/BU105/BC148/BT106/537/	8
	1 BB3630N/	1
	1 BB3528/LF357/UA741/	3
	2 MC1723CP/MRF150/MRF148/	3
	1 UC3906/LM339/TIP32B/1N4001/	3
SHPA	1 MC1494/	6
IDDE	1 ICL7612/VP0610L/1N914/	2
SPSE	5 MC68HC11F1/62256/27256/27128/2018/CRT9153/MAX232/74LS322/	6
TEME	3 ICL7109/4051/74HC166/74HC161/LM324/74HC02/BF245B/BC560B/	9
ANDIINCI	4 MC34082/LM13600/HA5320/LM311/74HC123/74HC74/NJ903/MMBTH81L/	7
	5 MC1408/741/555/4009/4015/7493/74367/MJE2955T/MJE3055T/	6
	1 AC132/	1
	1 2C39/7289/	1
DEID	2 MC14081/MC14538/MC14512/MC14040/T2301PB/IN4001/MC7812CT/	9
CLCI	2 ECC40/EF36/ECC33/KT66/GZ32/	5
	3 MC1458/TL082/5532/OA47/BC108/BC109/AA116/	2
BRCO	2 SC01/CA3130/2716/820/74123/74121/7490/7475/7474/7448/BC547/	9
INMEHIENPH	1 MC1733L/	1
OPINIOBE	1 MC1692L/MC12040/NE529A/UA311/UA741A/SD5000/SD211/1N6263/	8
QRP	1 6C4/6AQ5/	2
NUEL	1 MC10116/MC10105/LM320K/2N4258/2N4275/HPA2800/	8
TENO	1 ICL7611/G1126/	1
	3 RC556/IP28A/2N3644/2N3439/2N2326/2N1849/1N4004/	5
AUHIFI	1 BC556C/BC546C/1N4007/1N4148/	5
DEID	3 ICM7555/MAX406/MAX403/2N3906/2N3904/1N914/	2
	1 ICL7650/CD4051/8031/AD574/DAC0832/3DU80A/	3
	3 MC6805S2P1/MC34499/74LS123/MC8T97/BC337/74LS08/MPQ2222/	7
IDEAS FOR	2 ICL7109CPL/LF353/2N5116/4040/4011/DG515/	5
	1 BC147/AC128/	2
	1 MC14017B/276-2417/2N3904/276-1603/	7
	1 MC68120/6821/MC6840/2732/74138/74LS373/	6
SHPA	1 MC14066/MC14046/MC14528/	1

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TENO	3 MC1489/MC14512/MC14161/14528B/SN75114/CD4060/LM309H/HCPL2602	9
IDDE	1 MC10115/MC10H115/	1
DENO	1 MC1496/741/2N3819/	4
UPGRADING	1 MC68705P3/MAX232/7805/1N4148/	3
ARTICLES	3 6CL6/6AU6/6X4/40408/2N5210/	3
NOEX	1 ICL7650/RS303-854/741/	2
REPA	1 MC1650L/MC1662L/MC10102L/MC1668L/SP8636BE/SN49705N/MC10125L/	9
NUMEIM	1 MC10116/MC10231/LM360N/CA3127E/2N4303/MPS3640/2N2369/1N4447/	9
APSU	1 MC14575/14066/VP0300L/VN0300L/MTP12P10/MTP12N10/1N5242B/	8
BUILD THIS	1 MC68705R3/X24C00/74ABT541/74ALS541/MC78M05/LB203VB/LB202VB/	8
COAR	1 MC14040/LM339N/LM556/MC14011/MC14049/LM78M05/LM317T/TIP30/	9
	3 MC1458/276-038/1N4739/276-1171/1N914/	2
	1 MC3431/74HC165T/74HCT32T/BAV99/	3
FOREGROUN	1 MCM6571/74157/74145/74150/2708/	6
CICICE	6 MC14553/MC14543/HP5082-7433/9667/MC14040/MPQ2222/SAA1027/	9
FEAR	2 MC3359/MC1306/MC1376/LM158/MC7812/MC14013/MC78L12/MPSA20/	7
	1 MC3362P/MC34119P/LP2951CN/	3
DEID	3 MC14497P/MC3373/MPS5172/1N4001/1N914/MPS6562/	3
SHCO	1 ICL8049/LF357/ULY7701/M1/	3
	1 ICL7650/	1
	1 MC6800/MC6810/MC6850/2716/74LS138/	5
AUDIO AIDS	1 BC182/	2
FEATURES	1 MC6821/AD570/AD5712/AD7524/	3
	3 KC2346P1/7490/555/741/LM3900/747/7492/7805/7815/7915/FW300/	9
	1 MC10116/MPS6523/MPS3819/	4
DEID	1 MC14001/2N3904/1N914/	4
VHTE	2 2C39/3CX1500A7/8877/MJ2500/2N3053/276-2034/ECG128/1N4758/1N4	2
	1 MC1458/CA3040/IN3825/IN914/IN294/	2
	9 ECG5518/LM311/7812/7555/1N4001/2N2222A/2N3904/7805/276-1000/	6
	3 MC14011/MC14049/NE555/IRF530/LM317/50J/IRF130/BU208/MC14528/	9
	4 HCPL2601/7406/1VN6000KNT/74LS194/74LS13/74LS08/2N2222/	6
	3 MC3403/LM339/7815/1N5711/1N5242/1N4153/276-1366/	4
TENO	1 BC200/BC146/BFS20/YSI44015/	3
PROJECT 80	1 SC2681AC1N40/1488/1489A/1N914/74LS04/74LS32/	7
CIARCIA'S	4 ICM7555/ADC0809/6821/74HC00/74LS245/74HCT00/74LS09/2N3904/	4
	1 ECG123A/ECG159/	4
	2 MC3430/74LS126/2N3906/10125/IN4446/74LS74/MC10124/74LS161/	9
	1 MC14024/MC14070/MC14021/3N169/1N914/1N914/	5
REPA	1 BC307/	2
RFFETE	3 MC13020D-P/ULN3820A-LW/	1
NODI	2 MC1445G/CA3020A/BF194/2N918/2N3866/	4
REPA	1 MC68000/8203/TMS4161/26T016/	5
	3 ICL7650/9400/CD4017B/ICM2240/MC14017B/	4
	1 MC1461G/MC1430G/UA723/ZLD709/2N5457/	6
READOUT	1 AC241/	0
DESIGNER'S	1 MC14451/4001/	2
DEID	1 ICL7667/1N4105/1N962/	1
	1 UC3906/UC2906/TIP42/276-2027/276-1171/276-062/	3
REEL	1 MC34083P/BFT46/BFT93/SNJ903L/SNJ3600L/BFR92/	6

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APID	1 MC1723/TL084/PNP3055/BC108/IN4001/	6
	1 AD533/TL071/S3528/AD536/	4
	1 CD4017/CD4070/CD4093/2N3904/2N3906/1N4148/2N2222/2N2907/	4
	1 HD146818P/74LS14/	2
10 SHORT P	1 CD4001/	1
IDEAS FOR	1 CD4076B/CD4063B/CD4098B/CD4013B/	4
CIRCUITS	4 RD5106/4046/4001/3140/	1
	1 AD833A/	1
	1 CD4040/CD4046/BD159/BU111/	8
	2 AD574A/AD582KD/6116/MC6522/74LS374/74LS30/74LS74/74LS365/	9
	1 AD532KH/UA747CN/MC14538B/	5
	1 AD506/741LH/AD756N/	6
	3 CD4511/LM317T/LM7818/LM7812/2N2222/2N3906/TIP30/1N4001/1N914	5
DEID	1 AD534/4046/LM211/LM148/1N4148/1N752/	5
WEEKENDER	5 CD4013/MC14013/CD4093/MC14093/78L05/	2
TENO	1 CD4066/IN4148/	1
	2 AD310J/TL074CP/TL072CP/BC213L/BC183L/IN4148/	6
	2 BD5/	0
INSTRUMENT	1 AD534/741/2N3819/	9
DAACCOSY	1 AD843/LT1029/	1
	1 AD7545/AD544/LM361/LF351/LM318/LS74/RD7592/D7592/7805/	9
CIID	1 AD844/	1
	3 AD570/AD559/AD518/LM348/AD582/74164/74151/7475/7490/7476/	9
ARTICLES	2 AD184J/AD40J/741/CD4016A/SN7413/2N3820/2N3704/2N2659/TIL77/	5
BUILD THIS	1 UDN2952W/DAC0832/LM324/74LS138/1N914/	4
CIID	1 CD4027/BC109/	3
COPA	1 AD630/XR2206/OP27/AD580/BD649/	5
NUEL	3 AD574J/LF357N/LF356N/LM311/SD5002N/74C161/CD4051B/74C10N/	9
	1 ADC0809/LM317/741/7430/7402/7404/LM311/	7
DENO	2 AD524AD/S8333A/ZTX451/SE4352-003/BZX51/BZX81/LM311/BZY88/	4
	2 SD5000/MC34081/MC34082/2SC3356/2SC2405/2SC2404/2SC2295/	9
COMMUNICA	5 ADD3701/MM3569/LM2917N/1458/386/741/75492/74C901/4017/4093/	6
	1 AD642/AD9611/AD9016/F100151/	5
	1 SDA9058/SDA9057/SDA9055/SDA9050/SDA7509/TDA9080/	6
NOTES	1 MD100/JH133/DS318/HDS1025/GPD404/	6
SPCO	2 AD521/311/308/741/74C193/74192/74C173/74123/74121/7476/8T95/	9
	7 CD4508/LM318/CD4528/CD4585/74LS164/74LS93/CD4013/74LS123/	9
	4 AD507/AD539/AD611K/AD509/	6
	1 CD4060/121/73/55/451/37/	7
DEAB	1 TDA7260/SGSP321/	5
DEFE	6 AD7547/AD7821/AD588/HM6264P/AD713/TL311/8052/8237/ADG528A/	9
STATE OF S	1 AD637/	1
	1 AD7110/MC14052/ADC0804/XR2206/NE5018/8255A/8085A/2716/2114/	3
	1 CD4046/CD4520/CD4020/CD4007/TLC27L4/LM334/LM385/CD4016/	9
	1 AD521/54240/555/7581/542/	9
	1 3DG6C/	1
DEID	1 AD539/AD827/	2
	2 AD515J/LM308A/7103A/8052A/7447/ICL8069/	4
IDDE	1 CD4093/7812/TIP120/	3

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	1 TDC1005/TDC1021/LH0033/LM741/74LS132/74S32/74S74/74C93/	9
	1 AD515L/	1
CIID	1 CD4584/	1
RFFETE	1 AD9713A/	1
RFFETE	1 AD9713A/	1
INDE	2 AD7528/8085/AD644/8212/	3
DESIGN	3 HD6301VA00/HD63A03P/HD63A01P/HN613128/HM613128P/HM6264/LS373	6
	1 AD574AK/741/308/LF398/6522/	6
	1 CD4001BC/7805/2N4400/	5
RFCADE	1 CD4046B/MC3458/MC14538/LM393/IN4154/	4
COAUMECO	3 AD7628/HI508/AD644/TDC1049/TDC1014/2716/CA3018/2N3904/SD5002	9
PAPERS	1 AD7592/CD4066/CD4046/AD652/AD625/LM311/LM301/TL081/74123/	9
	2 AD7545K/741/AD584/TL071/LS221/LS86/OP07/2SK310/ILD74/ILQ74/	9
	2 AD572/6522/AD518/74121/7414/7408/74LS04/54LS22/54LS27/	5
	1 AD522B/AD517K/776/	3
APID	1 CD4093/2N3906/2N2907/LM3046/CA3046/1N6263/	3
TENO	1 AD624/741/	2
ARTICLES	4 ADC82AG/IM6402A/DAC90/CA3140/CA3100/74123/7407/MC14050/7404/	9
COAR	1 CD4006/RC4136/LM358/CD4070/1N5239/1N960/1N4148/	4
SUPA	1 AD515/	5
APPLICATIO	1 TDA5142T/BDT64/	2
POSYCOCO	2 CD4046/DI16V8/2N2907/2N2222/HFBR1404/LM285/	3
DESIGNER'S	1 CD4052/LM348/	2
CITHDE	1 AD655/AD652/TL081/AD7592/LM709/LM301/CD4046/CD4066/74123/	9
SUPA	1 AD538/AD515ALH/IN4148/	3
IDEAS FOR	2 AD637/AD581/AD7590D1/AD7591D1/	2
	1 AD515L/	1
ORAR	1 AD540/	1
	1 AD574/MC6800/AD565/AM9511A/	4
BUILD THIS	1 CD4017/CD4001/IRF511/IRFZ10/7808/1N4002/	4
INNUSP	3 HD6402/8212/74LS138/74123/7474/7410/7402/7400/9615/9614/	9
NEW FRONTI	2 NE720/	1
	1 NE51/2N3905/	1
BUILD THIS	1 NE5512/TDA1022/NE5532/NE5517/VN46AF/NE556-1/UA78MG/4013/	9
DEFE	1 NE527/HCT107/74HC688/4040/S124/	7
CIID	1 NE5534/UA79M1/UA78MI/ZTX750/ZTX652/TIP34A/TIP33A/IN916/	9
NOTES	1 NE521/LF356/2N3300/LH0063/DM2N200/	8
INDUSTRY N	4 NE5212/NE5230/	2
	1 NE5534/VN66AF/	9
BUILD THIS	2 NE5532/NE5534/PF5102/A7937/2N4410/2N4248/HLMP8103/BPW33/	5
CIRCUIT ID	2 NE567/VN67AF/SFH205/555/BC239C/TIL209/BFY51/TIL38/	5
	1 NE556/MC14049/IRF721/IN914/	5
COSE	2 NE555/7400/1N4148/1N4194/1N4001/200/	3
	1 NE536/4705-01/	1
	1 NE556/	1
	1 NE021/BFT25/	2
	2 NE5212/MRF581A/2N4124/LM317H/HFBR1404/HFBR2208/	3
	1 LF356/MC1741S/BPX61/	2
APID	1 LF351/1N914/	1

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	1 LF353/2N3905/2N3904/	7
	1 LF347/1N914/	3
	2 LF356N/3080/4518/4027/4040/4001/2716/AD7523/1N4148/2N3642/	9
NOTES	1 LF311/LM399/TL081/74HC221/74HC76/74HC74/CD4066/	9
SPISPA	2 LF356/2N3439/	4
ANDICI	1 LF411/	2
REPA	2 LF351/1N60/LM3046/LM394/	8
	1 LF353/2SK146/	3
	1 LF355/AM685/MC10198/MC10131/MC10105/2N5770/MC10125/AD7513/	9
	2 LF353N/LM317T/1N914/1N751/1N4001/	1
AUDIO	5 LF351/7918/7815/7915/2N5457/BC184/1N4003/	2
PROJECT	1 LF356N/TL071/BAS45/BC214/2N6003/1N34/1N60/1N4001/	6
	9 LF311/LM339/LF353/LF13331/LM361/LM311/LM393/LM319/LM160/	6
	2 LF356/LM733/7805/7812/7905/7912/BZX70C7V5/IN4148/	7
SUPA	2 VFC32KP/LM339N/LM383/741/	3
	1 BF214/	1
TECHNOLOG`	7 VFC32/VFC320/RC4151/RC4152/LM131/AD650/AD652/AD537/TSC9400/	4
CIID	1 BF199/	5
	1 LF351N/OP77/TIS74L/2N3703/ZTX653/F256A/	6
INSTRUMENT	1 LF356/	5
REPA	3 LF347/	1
UPEN	3 LF353N/TL082/MPS2907/MPS2222A/1N914/	7
COMMUNICA`	2 MF10/LM565/HEF4059B/MC1496/TL074/4001/	4
	3 LF356/OP07/AD7512/OP02/7915/7493/7815/7805/3329-03/1N3064/	7
IDDE	1 MF5/CD4046/4069/	3
	1 BFR92/BFT92/NE856/	9
TENO	1 LF356/LM311/OP77/74HC221/74HC74/LM310/HC04/BAY20/	9
CALORIMETE	2 LF353/TL081/LH0033/SD211/2N5771/2N5770/J554/1N914/	9
ARTICLES	4 LF444/LF411/VP1310N3/IRFD9210/VN1310N3/IRFD1Z0/J270/2SK147/	9
COMAPH	5 LF356/LM308A/CA3140/74LS374/74154/74LS150/74LS138/LH0023/	9
SCOR	2 LF356/CD4082/MM74C221/MM74C00/HCPL2531/MM74C244/	6
	1 LF356/NE5537/	5
DEID	2 LF353/2N2219A/LD271/1N4148/TIL413/	1
DETECTORS	1 LF356/	1
ANTENNAS	1 BFR90A/BAR28/	1
	1 LF356/2SK68A/2SA493/	6
SHPA	1 LF356/	2
NOTES	1 LF356/SE592/SHM-IC1/	0
APPLIED ID	1 LF351/LM339/BZY88C/1N914/	2
ARTICLES	4 LF411CN/LM337T/LM317T/79L15/78L15/2SJ79/2SK216/2SK146GR/	9
ABBE	1 MGF1402/	2
	5 DG508/AD536/TL084/DM8544N/4085/LM393/ZN451/DG211/TL011/741/	7
BUILD THIS	2 SG3526N/LF357N/IRF9640/IRF640/IRF510/IRFZ40/MPS8598/MPS8098/	9
ARTICLES	1 TG1457/KN6/	2
	1 DG201/	1
PAPERS	1 DG151/OP01/AD561/AD571/NE555/2114/SN74123/SN7493/SN7474/	9
	2 DG307/LM310/LF357/2N2222A/LM566/AD741/7476/	9
	1 PGIABB3606B/AD561/DAC71/460L/	6
APSU	1 UGN5275/	1

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	1 LH0024/	3
	1 IH6116CPI/CA3140AS/1N914/	2
APNO	1 SHM1/ADC-M12B/DAC69-12B/	3
APPARATUS	1 LH0032/UA771/4856/2N4392/1S1588/	3
AIANCH	1 LH0042C/AD521/AD581/78-0012-0120/	3
APPARATUS	1 SHMIC1/	3
	1 LH0041/2N6284/	2
	1 SH50J13A/SH50112/SH50J11/OR06YXZ31/ERZ-C10DK-112/45MLA80/	4
	2 LH0032/LH0053/DG201/7485/7404/NE521/7476/74123/7445/FJT1100/	9
AIANCH	1 AH00014/4115104/3291-14/1538A/	4
	1 LH2111D/GE-C106/GE380A/TIP34C/LM309K/2N3906/MDA804/1N4735/	7
PROJECT	1 TICP106D/	2
COAR	1 TIC106D/T6N400/ZD33/BY127/1N4148/	1
	1 TIL138/	1
DEFE	1 TIS93/1N914/	1
	2 HI506A/HI201-5/HA2425-5/6522/AD584/AD7574/74LS138/74LS04/	8
	1 CIL973/2N2905/2N2440/2N2219/	5
	6 TIP33/ECG390/2N2222/1N4001/TIL14/1N4004/	9
DEAP	1 TIBPSG507/74ALS6301/74ALS6300/ALS6310/	4
DESIGN SOL	1 TIL111/741/	4
	1 SI3052V/	1
CIRCUITS	5 TIL413/14458/14457/XC880A/2N2222A/1N4001/1N914/	2
NUEL	2 HI674A/HI565A/OP27/LH0033/LH0032/OP16/SMP11/AD7512/74221/	9
CICI	3 TIP31/2N2222/2N3055/LM324/C205A/	4
	2 TI75752/HFBR2201/5473/54HCT04/HFBR1201/	2
LETTERS	1 MJE11033/MJE10032/	2
ELECTRONIC	1 NJ26/2N3906/2N3904/MPSH81/1N4446/	5
	2 MJE223/1N5231B/SA40A/HC86/HC04/	5
	3 NJM4558D/UPC2002V/2SC945/3SK74/2SA1015/2SD468/1N749A/1N34A/	9
HINTS & KI	1 SK3012/1N4002/LM34OK24/MDA980-3/	4
HINTS AND	1 SK3627/SK3063/1N4002/2N3055/LM317K/276-1185/	7
ELDERE	1 MLC351/FB300/	3
	1 TL075/LM311/SHM-LM2/74LS107/74LS123/74LS08/	9
TENO	1 TL082/IN4148/	3
PROJECT	3 TL072/TL074/LM3914N/78L15/79L15/BC107/1N4148/1N4002/	8
	1 TLC555/276-1718/IRF511/MPF102/BS170/M3819/2N2222A/1N914/	7
PAPERS	6 TL074/TL072/TL071/2SC2547/2SA1085/MJ11016/MJ11015/J511/	9
	1 TL084/4013/1N4148/1N914/	2
AUHIFI	1 TL084/4093/1N4148/	2
	2 TL081/DAC08/	4
	3 TL084/TL081/TIP33/	2
	4 TL072/TL071/BC107/	3
DEID	1 TL084/4516/HEF4060/4053/4013/BC557B/BC547B/1N4148/	9
SENE	1 TL052/TLC3702/TLC4066/74HC109/	4
PROJECT	1 TL071/LF356N/BC214/2N3906/BAS45/OA90/1N4001/	6
IDDE	1 IL71/74HC14/	1
REEN	2 SL6270/UA759/LM555/TIL38/ZN459/TL084/DG303/TL082/	4
RFCOST	2 CLC401/CLC400/	1
THINK TANK	5 TL430C/7805/2N3055H/TIP31/R099/1N4007/1N5408/1N4002/	3

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WORLD OF I	1 6L6G/6V6G/	1
NEAP	2 TL074/LM339/	1
TENO	1 TL074/TL072/LM318/4051/	6
DESIGNER'S	2 TL081AC/3N160/TL087C/TL081C/2N4856A/1N4148/	4
BUILD THIS	2 TLC555/BC640/4013/UPC1373/74C14/BPW50/567/1N5526A/XC880A/	5
BENCH	2 TL084/	1
	1 TL489/	6
DEID	3 CLC505/	2
DEID	1 TLO74CN/	1
	4 TL074CN/LH0021/071/072/AD204/AD206/3656/	4
	5 SL6600/LM380/4016/SL1612/TL081/SAA1058/78L08/2N6083/BD132/	8
COMMUNICA	4 CLC505/LF444/TLC556/MAX641/CD4528/78L06/LM334Z/IRFD220/	9
	1 TL072CP/NE555/CD4066B/CD4069B/	5
NUEL	3 SL717C/CX1157/MC10101/A114B/1N5059/IN916/	2
APNO	1 TL081/	1
	1 TLC251/	1
DEID	1 ULN2805A/27LS19/	2
REPA	4 TL074CN/TL072/356/4538/CD5428BC/DG303ACJ/HI200/CD4018BC/	6
REPA	1 TL074CN/CD4016BE/74LS86/	3
DESIGN ENT	2 CLC231/TDC1012/	2
	1 TL080/7414/TIL115/1N4148/	3
	1 TL074/LM339/	2
DEENELDEE	1 ML2200/80C51/	2
ENRE	2 TL072/NE5532/OP27/2S8737/	5
	4 TL081/TL091/LF353/TL084/7555/4066/4013/79GU1/78GU1/7915/7815	6
	3 TL071/1N4744A/1N4003/	1
SIDACO	1 TL084/1N60/	1
COSC	2 TL084CN/556/276-1728/	2
	2 TLC1079ID/2N3904/MMST3904/1N4148/RLS4148/	2
	1 LM324/1N914/276-2034/276-2059/276-1711/	3
	1 LM3909/SN102F/	2
PAPERS	1 LM301A/LF351/TL081/741C/ZTX109/BC549/BAX16/1N4148/	9
APSU	3 LM361/HCLP2601/LN318/MC14029/050026/LM317/MTM10N15/HC14011/	9
CICI	6 LM3909/MOC3010/	2
CIRCUIT ID	1 LM358/LM334/78L05/	3
APPLIED ID	1 LM324/	1
TECH TIPS	1 LM324/1N914/	1
APID	1 LM339/VT125E/1N914/2N2222/	2
	1 LM3046/MPQ3799/	9
PROJECT	1 LM358/LM334/78L05/	3
	1 LM301/IH5041/LM356/SN74221/SN74121/	7
TENO	2 LM359N/LM318/ML747/CA3140/LM565C/C30950E/LM370/NE566V/UA1458	9
ORAR	1 LM741/RCA3130/74123/2N2222/2N2484/2N4391/	8
	1 LM723/MJ3000/MDA952-1/276-1740/276-2042/276-1180/276-1151/	5
NOEX	1 LM124/	2
	1 LM301A/	2
LEED	1 LM2917/556/LM358/	3
THINK TANK	6 LM393/74161/7447/7400/555/TIP31/2N3904/2N3053/MVAM108/MV1405	5
LETTERS	1 LM340T5/MJ15022/1N4757A/1N4754A/	3

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FEATURES	1 LM340-5/7805/RS276-1770/LM317K/RS276-1778/ECG956/RS276-1185/	3
PROJECT	6 LM1881N/MC34082P/LF398N/MP7686JN/71C256/74ALS193/74HCT688/	7
PEPO	1 LM607/	1
NOTES	1 LM444/5082-4203/	1
QRP	3 LM386/276-1731/741/276-007/2N3905/2N3904/2N2222/1N4001/1N914	7
SPIN	1 CMP05/LM119/54AC109/2N4416/	6
CIID	1 LM324/4011B/BD139/BC548/	9
	2 TMS320C25/TLC32040/CY7C169-25/CY7C132-25/CY7C291/TL430/	9
DEID	1 LM319/LM335Z/BZY88C/1N4002/	1
APDENO	3 LM741/555/74190/LM7805/	4
	1 LM3914/LM324/1N914/	2
	1 AM452/DAC-UP8C/ADC-EH8B/	4
NOTES	1 LM536/555/741/2N4220/BFW10/SL100/1N67/	9
NUEL	1 CMP01/3207A1/74S04/SD210/BSX27/BFX38/BSX36/BFY76/BSX39/OP124	9
NOTES	1 LM318/MC10131/MC10102/1N914/	3
BUILD THIS	2 LM733/LM318/CD4528/CA4053/MC3430/2N3904/2N3563/LM7905/LM7805	9
WETHTA	9 LM301A/741C/40502/LF351/UJN3701/UJN3330Y/CD4011/LM386/SK3506	4
ELECTROPHC	4 LM311P/CNY17/74HC04/7809/7805/BF245B/BC550C/SFH750/SFH250/	5
TENO	2 LM301/DM7493/DM7413/DM7404/4CX250B/2N3055/	9
NEW IDEAS	1 LM324/LM317/LM334/2N3904/	4
COMMUNICA	2 LM380/ZN427E/74LS244/74LS138/74LS245/74LS74/74123/	8
	1 LM555/64-24L100/	4
COSE	2 LM741A/	3
DEVELOPMEI	2 LM124/120PC/130PC/	2
	3 LM339/4066/434B/ECG109/ECG465/LF352/LM102/1N914/	5
	4 LM383/LM324/78L05/	2
AUHIFI	6 YM3623B/DF1700P/PCM63P/NE5534A/AD844/OP27/7915/7815/7905/	9
	5 LM1458/74LS138/ADC0808/7404/DAC0831/555/7490/7400/2N5295/	6
TREL	2 LM555/IRF712/AD7541/UA741/UA398/CA3162/CA3161/MAN4610A/UA715	9
DAACSY	2 AM685/10131/10107/MC34082/SD5000/4052B/ADC674/LM833/LH0002/	9
SPCO	1 LM311/741/142PC01D/2N3053/BZY885.6V/N4148/	4
BUILD THIS	3 DM74LS374N/DM74LS283N/DAC08CN/2716/MC4558CN/MM74HC74AN/	9
	4 LM741/LM311/LM555/1N754/	4
CICICE	2 TMS1121C/75492/2N2222/75491/7805/KBP06/1N748/TIL220/MAN74A/	7
	4 LM1358/MC1358/LM386/7812/LM324/1N270/CA3065/LM3065/	3
COAR	1 LM555CN/LM358N/AN78L09/IRF523ND/IRF521/2N3906/2N3904/1N4148/	9
BUILD THIS	7 LM337/LM317/1N4004/1N5404/	1
COAR	1 LM567/4066/4017/2N3904/	9
BUILD THIS	2 LM386N/2N3904/1N4148/	3
COAR	1 LM324N/CD4093/2N4400/1N4739A/	3
APPLICATIO	1 LM317/	1
	2 PMI-OP15/LM412A/SHM-IC1/DG202/LD20-5/	4
PROJECT	3 MM74C936N1/MC75492/SCX15ANC/LM324/276-1365/MC78T15CT/1N4004/	6
CICI	3 LM324/4066/MC34001P/4001/1N914/	2
	2 LM339/TL074/	1
	1 AM7910/UJN2003/MC1489/MC1488/74147/4081/4075/4073/4071/4049/	9
	2 1M312/4515/4047/4027/TL091/4040/74C373/	9
	1 LM319N/2N4248/1N4148/1N4005/2N2222A/	9
DESIGNER'S	1 LM555CN/LM322N/	2

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IDDE	1 LM394/LM329B/LF351A/LM308A/741/1N914/LM108/ 5 LM324/	5 1
NOTES	2 LM741/ECG3083/ECG3084/2N3053/TIP122/	7
GLAT	1 LM741/276-007/MOC3010/276-134/MPS2907/LM7812/276-1000/	5
COAR	2 LM567/CD4584/CD4528/LM555/PS2501-1NEC/7805/2N3905/2N3903/ 9 LM3900/74LS175/74LS368/74LS367/74LS74/74LS32/74LS30/74LS04/	8 5
FEATURES	2 LM386/276-1731/741/276-007/276-143/276-142/276-145/276-142/ 3 LM301A/LM302/3554AM/1458/AY3-1015/AY5-8116/ADADC80-12/7473/ 1 LM723/LM324/UA741/1N914/276-1171/ 5 LM317/2N685/2N1844/2N4441/2N3055/1N965A/1N961A/1N1185/ 1 LM311/OPI120/2N995/2N2222/TIP127/TIP122/A115M/1N4148/	2 9 4 3 8
HANO	1 LM358/4011/	2
FEAR	3 LM338/LM107/7912/7812/7805/1N4007/	3
DEAP	1 TMS9902/RC4556/75189A/74LS259/74LS251/74LS244/TL497/ALS112/ 3 LM351/LM353/1N914/74LS90/LM311/74LS374/74LS193/74LS00/ 1 LM318/ 1 LM11/741/LM311/BPY611I/	9 8 1 9
QRPLOPOOP	1 LM317K/1N4002/	1
NUEL	1 LM306/UA760/LM318/CA3080/UA741/HP4360/TIS74/2N5912/BFX48/	9
PROJECT	2 LM566CN/LM565CN/LM380N/LM78L12CZ/MPS6521/2N2222/1N4148/ 3 LM7812/LM317T/LM337T/276-1101/276-1777/276-1779/276-1151/	5 2
APID	1 LM311/LF356/741/74LS132/BC214/PN5910/BSX20/	9
CIRCUITS	9 LM13600/ 1 LM334/1N4148/	1 1
IDDE	1 LM3914/4N27/MPS7531/MPS6566/1N4004/	9
BUILD THIS	1 LM324/LM2931Z/2N3055/2N2222A/1N5817/1N914/ 3 TMS320/74LS138/AD583K/74LS76/74LS373/74LS70/74LS28/ 1 LM3915N/CA3140E/ICM7555/BZY88C5V6/V178P/	4 7 3
DAACSYCI	2 LM324/10115/CA3102/CA3083/2N3906/10101/CA3086/CA3227/MC10198	9
FIFU	2 HM62256LP150/MAX691/LS245/74LS74/74HCT32/7407/74LS00/1N4148/ 1 LM1801/	3 1
EXPERIMENT	2 LM324/566/ 1 MM74HC943/LM308/	1 2
IDDE	1 LM1881/MM74C00/	2
DEID	1 LM2907N8/R2868/2N2222/	2
AUDE	5 LM833/LM353/OP227/TL052/7815/VN1210M/2SJ49/MJ2501/BC448/ 1 LM360/2N918/2N4416/1N4148/	9 3
SPSP	1 LM318/LH0032/2SK113/1S1588/ 2 LM311/6N135/SN7404/6N139/LF356/ 1 LM124/LM308/LF411/LM216/ 3 2M189A/2M226A/LF357/6JE6/6LQ6/UPB585/3N211/NEO2137/VN66AF/ 1 LM324/1N914/	3 3 4 7 1
BUILD THIS	1 LM3915/LM1458/LM741/LM7812/2N3906/TIP31C/1N914/1N4003/	9
APPLIED ID	1 LM123/CB3811/2N6107/2N3440/BFW10/	5
CIRCUITS	6 LM311/2N2222/7414/7400/7404/MC4024P/ 1 LM308N/LM307N/LH0042CH/4358/LM113/	2 9
TENO	1 LM361/BC107/1N4148/ 3 ZN414/GE48/GE17/1N4148/	2 3
HINTS AND	1 2N4416A/2N2857/2N2222A/1N914/SRA1/	4

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DESIGNER'S	2 2N2222A/	6
IDEAS FOR	1 6N135/4013/2907/4584/DG201/3403/	8
	2 2N3906/1N3600/1N4148/	6
SECURITY F	1 2N5949/2N877/	3
	1 2N3055/1N5401/NE51/	2
DEID	1 ZN428/CDM6116A/ZN448/CD4040BC/CD4538BC/	5
PRRE	2 2N3904/MPF105/MC1496G/NE555/442-96/417-169/417-875/412-293/	3
	2 VN66AF/IRFK4H350/SD210/IRC830/	2
	1 2N2222/2N2907/1N4001/	2
PAPERS	2 2N4102/1N5061/	1
REPA	1 2N2222/	6
PAELCI	1 1N914/	0
	1 IN5348B/	0
ASK TAA	1 2N5457/	1
	1 1N34A/	0
DEID	1 4N28/LM317/2N5060/2N3906/1N5400/	4
	2 2N3904/IN914/BC184/	5
CQ REVIEWS	1 2N3904/MJE350/1N270/8044/1N4001/1N4006/	3
FEATURE	1 1N4148/	0
NUEL	2 2N5434/2N4416/2N3906/2N3904/	9
LEBO	1 2N697/	1
	3 ZN459/SL1496C/741/	4
HOME-BREW	1 1N4004/	0
	1 SN7400/	1
TRIMDE	1 2N3908/2N2867/	6
	1 ZN425E/CA3140/	2
SPCO	1 2N3904/2N3390/	3
APPLICATIO	1 4N25/	1
BASICS	1 1N4003/276-1102/	0
ELECTRONIC	7 2N2222/1N914/SCR1128/276-1067/555/4066/2N3819/2N2907/	2
	1 2N4401/HP2800/1N914/	1
SIMULATION	1 2N2222/	1
	1 SN74123/AD583/741/46J/SN7400/2N3904/L226-04/TA310-04/KRP598/	9
	1 2N2222/276-1620/276-1617/	2
HOBBY SCEN	1 2N2222/1N4001/CD4009/	3
	1 2N697/32I28/ECG220/276-2036/276-124/	2
HIKI	1 2N3906/2N3904/1N761/	4
FEAR	1 SN74122N/7805/	2
DEFE	1 INA120/INA105/	5
VHF	1 1N6112/1N4004/	0
VHTE	1 2N3055/1N914/	1
RFOS	9 2N3338/2N5209/2N5550/2N4959/UPC1651G/GPD401/	1
APPARATUS	1 2N5551/	4
FIRST STEP	1 2N3904/	1
	1 SN7473/IN914/	1
	1 3N211/	3
HANO	1 1N34/	0
PAINDE	1 2N2369A/HP2800429/	1
	1 2N4360/2N3819/2N2222A/	3

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	2 2N5877/MPSL01/1A16/1N914/1N4004/	9
	1 2N4037/2N6374/2N5956/2N2222/2N3053/	9
HIKI	1 2N2222/2N3904/	1
BEGINNER'S	2 2N3904/MPF102/2N2222A/MV104/1N914/	4
QRP	1 2N5089/2N4124/2N3019/	3
COAR	1 2N2646/PN2222/	6
	1 ZN435E/TL071/74HC541/SD210/	4
COAR	1 2N3055/	2
DENO	1 SN74LS273/74155/SN74LS27/	3
TECHNICAL	1 1N4007/NE2/	0
CIRCUIT ID	1 2N3819/	1
	2 SN72710/SN74221/SN74121/SN7474/SN7473/SN7405/SN7403/SN7402/	6
APPLICATIO	1 MN2083/MV1815/TMS41256/TMS4164/PCF8582AP/PCF8572AP/	5
	2 1N4001/7805/556/7400/	3
HIKI	1 2N3904/ECG108/1N914/	2
SYEL	4 SN76478/SN74154/SN74123/SN7493/SN7474/555/SN7405/SN7404/7805	4
DESIGN	2 ZN509/LM358/LM393/BC108/	3
	3 ZN448/ZN428/ADG201/OP07/741/4528/74C373/	6
	1 2N2222/1N914/1N34A/	9
ABOVE AND	3 2N204/2N2369/2N4427/2N6080/2N6082/	6
	1 2N2222/1N914/1N34A/	9
	1 1N914/	0
	2 2N3019/HY1102/1N4007/BYX30/	4
NOTES	1 6N137/KS621K2010/MJ10008/	4
FEATURES	7 2N5876/2N5878/BD140/BD139/BC416/2N3442/ZTX3055/2N3055/MJ491/	9
QRP	1 2N3819/MPF102/2N4124/	3
	2 2N918/BC179/BC109/1N914/	4
FEATURES	2 2N3866/2N3553/6C4/	1
HINTS & KI	1 1N914/	0
DEID	1 INA110/MMAD1108/	2
	2 2N2222/1N4003/555/2N3906/	5
	1 2N404/1N540/1N4001/	2
HOBBY SCEN	1 1N34A/	2
	1 2N4861A/2N3906/2N3904/SN74S05/SN7402/SN7437/SN7400/SN7413/	9
SHPA	4 ZN425/LM311/4052B/74273/74164/74123/7476/74165/7474/7421/	9
BUILD THIS	1 2N2222/	2
ARTICLES	1 2N2551/1N4007/	4
ARTICLES	1 2N5551/2N91876/	9
FEATURES	2 2N3906/2N3904/273-066/	2
	2 2N2222A/40673/	1
DESIGNER'S	1 4N33/1N6002/1N2270/OA202/	4
	1 2N5564/	1
	2 KN14/GL7670/L580/L2236/C152PC/T500-/ST4100PCA/ST6100PCA/	5
DEID	1 1N914/	0
ATV	1 2N2222/1N34A/	2
	3 2N4861A/2N4416/LM318/T118/MEM517C/FE4256/LM741/LM311/BFX48/	9
	2 2N5486/LM1458/CA3130/5558/MLED50/1N759/1N753/1N4003/1N914/	5
	2 ZN425/74193/74123/3140/3240/741/74121/7400/7420/7476/BC182L/	9
	2 2N3563/2N5771/MC10216/1N3717/2N2369/2N5770/1N4447/1N914/	5

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ANDICI	1 2N3906/2N2857/	7
	1 2N2222/1N4001/	1
	3 MOC3010/TIP31/CA3140/2N3904/LM334/1N4005/276-134/1N754A/	7
DEEN	2 COMDAC86-87/MUX88/DMX88/74195/74188/74163/2502/OP86/CMP81/	9
REPA	1 NO30RH12/L1530/	3
CICICE	5 POACH2/POACH1/80286/80287/8742/75477/E21213/82S147/POACH3/	9
INDUSTRY N	1 AOP1510/	1
ENGINEER'S	1 TP1420/UA741/	2
NOTES	1 MPY100CM/1N4454/	1
	1 SP647/BB105/82S90/MC4004/CA3130/2N3563/2N3638/DM73LS196/	8
BUILD THIS	1 FPA104/556/4553/4543/4017/5369/4508/4040/4089/741/ECG5400/	9
	1 MPSU04/LA60/1S306/	1
ARTICLES	1 OP43EJ/LF356/	2
	1 HP35826E/BF115/	7
INEL	3 OP37/LM318/NE5539/SP9685/MC10105/SST309/BSR18A/BSR17A/BFT92/	9
CQ REVIEWS	4 UPC7808H/UPC1458C/TA7302/UPC577H/2SK125/3SK73GR/2SC1815Y/	9
IDDE	1 OPA2111/IN4626/	1
FRENEL	1 OPA606/LH0033/AD581/10131/10114/2SK218S/2SC1359/2SA838/	9
	3 MPF102/2N3819/276-2035/MPSA13/LM317/276-1778/7808/	4
ARTICLES	1 GP22B/FX139C3.5/	1
DEID	1 OPA2107/1N4154/	1
	1 MPQ2222/MPQ2907/LF353/	3
	2 OP07EZ/OP27GZ/OP37EZ/OP16EJ/REF02EZ/74LS378/74LS02/	7
PRIN	1 DP8531/DP8500/458/	3
ARTICLES	3 MPS6601/2N3904/1N4148/	6
	1 UPD7220D/TMS4416-20NL/74LS166/74LS174/74LS163/74LS86/74LS74/	9
	1 FPT100/SC106D/C106D1/T106D1/	2
PROJECT	1 MPS6515/741/1N4001/ORP12/276-116/	2
	2 SP9687/MC10198/MC10116/MC10198/SL360/LT1007/OP16/AD584/	9
ARTICLES	1 SP9680/LT1007/MPD1/PSCQ2-90/MSC2-1W/FLP10.7/1N4683/	8
NOTES	1 OP741/2SC1167/2SC381/2SC372/1N939/1S1588/SD6OS/SR150/SIR150/	6
ARTICLES	2 OP77/OP07/	4
	2 UPD7002/MC1403/1N4148/	2
IDEAS FOR	1 APD032M025/74LS245/74LS138/74LS07/	8
	2 OP07/MC3420/741/AD521/1032/2217/MJ11030/2N4360/2N3439/	9
REPA	1 OP17/	1
	3 DP8390/NSC800/HC245/HC138/HC373/	5
DEAP	2 TQ3000/54HC27/54AC74/54AC00/54AC02/54AC244/LM317K/IRFF131/	8
	2 HQV810/2N3904/JE3055/1N914/1N3868/	2
CISYLE	1 IRF620/MBR140P/	1
APSU	1 MRF966/78L05/1N4001/	2
	1 IRF511/BU508A/	2
DEID	1 XR-L555/TIC106D/BC547/2N2907/1N4001/	4
SPSCSE	1 MRF901/2N3904/1N757A/1N755A/SBL1/	3
	1 IRF620/IR31DQ06/	1
REPA	1 IRF620/31DQ06/	1
REPA	1 IRF620/	1
REPA	1 IRF620/IR21DQ04/	1
REPA	1 IR31DQ06/MBR20100CT/	1

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PAELCIDE	1 IRF530/MBR10100/	1
RFDEAW	1 MRF136/MRF148/	1
PROJECT	1 XR2206/	2
APPLIED ID	1 XR13600/	2
CIRCUIT ID	1 XR13600/	1
	2 XR2211/XR2208/OPA37/LF357/LF356/74LS74/SN75107/IRF531/LS74/	9
	3 TRA1000/OP37/PM7645/LM318/LF351/LM360/BC547/MM1712/2N5434/	9
ARTICLES	5 IR2110/LM358A/4522/MC15/6N136/MC50N/MC50P/LM317T/4049/IRF710	9
	2 IRF630/DS0026/74HC00/74HC04/VP0300M/VN0300M/	7
BEGINNER'S	3 MRF449/MRF475/	2
CODI	5 XR2207/LM311N/XR2211/LM318N/MJE180/1488/PN2222/2N3906/1N4728	4
DEFE	1 TRW2307/	1
ARTICLES	2 XR2208C/SSD741C/UA709/BC108/TP1421/	9
	8 SRA3/LM310/2N5245/MC14584BC/CA3130/40822/CA3140/MC14021BC/	9
INMEHIENPH	1 TRA403/NE592/LF357/LH0002/	3
ARTICLES	1 MRF174/	2
	1 IRF630/	1
	4 XR2211/XR2206/LM7404/LM7805/2N2222/1N4001/	2
CICI	7 IRF511/LF353/4049/1N4003/1N4001/1N914/	2
DESIGN	1 LS158/74/27/00/10/	7
APPLICATIO	1 NS32332/NS32201/NS32202/NS32082/	4
QRP	1 2SC2458/2N3906/2N3904/	3
AUHIFI	2 2SK146V/2SC2922/2SA2238/2SA1216/2SA968/BC560C/BC556B/BC546B/	9
RATECO	1 BS170/	1
	2 RS262-539/IR82RM100/IRR40HFLR60510/RS261-508/MJE340/MC14049/	3
REPA	1 LS165/LS123/LS93/LS164/LS75/LS00/LS20/	9
TENO	3 RS305-850/4027B/4518/4511/LM723/2N3055/4011/ZMX140/4093B/	6
	2 TSC427/HCPL4502/7437/7414/4070/74121/	7
DOSPRAMEA	1 2SK322/2SC3803/2SC2223/2SC1623/2SA1483/2SA1226/	6
TERETEEQ	1 2SC1815GR/2SC945AP/2SC2122A/2SC2236Y/2SA1015Y/ERC24-04/	5
FRENEL	1 3SK164M/	7
SPCA	1 2SC1213/	1
SIUP	2 ISD1012A/ISD1016A/ISD1020A/	1
PAPERS	1 RS3140/RS531/	2
	1 SSM2040/2N3819/1N4148/4136/1458/	4
SHCO	1 3SK35/2SK241/C151C/0.3MM/	4
	1 2SK147/MPS6523/E304/2SC504/E505/E504/	9
IDDE	1 CS209/	1
INMENUSP	1 2SK147/S2744/	1
	1 2SC1815/1S1588/	2
	1 2SK623/2SK622/ERG81-004/	2
	1 2SC387A/2SA499/J110/IN914/CS387A/	5
	1 TS8328/DAC1209/LF356/	4
NODE	1 2SK147/	3
	2 2SK622/2SK623/2SC3843/ERG81-004/ERD75-02/ERD33-02/	4
	1 DT500/	1
ASK TAA	1 LT1122CN8/LT1010CT/2N5457/	3
	1 MTP5N40/	2
NEPR	1 LTC1045/	2

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HAHA	1 LTC1155/	1
REPA	2 BTW24-600R/BTW33-800R/	2
DEID	1 XTR101/2N2222/1N4004/	2
DEFE	9 LT1072/LT1006/LT1010/LT1070/LT1018/LT1020/LT1086-5/4N28/	5
IDDE	1 LT1173CS8/SI9405DY/1N5818/	2
FEAR	1 MT8809/74HC688/MAX238/74HC10/	5
	1 STK2101/	1
	1 BUX85/IRF511/	2
DEID	7 BUF03/MSK320/	1
ARTICLES	2 MV1650/1N4153/	0
LETTERS	1 6V6GT/6AU6/12AU7/5Y3GT/	6
	3 MWS5114/74LS74A/74LS244/CD4093/TBP28L22N/2732/74LS374/7407/	9
CLCI	2 UX280/UX226/UX171A/UY227/	6
BUILD THIS	2 LX0503A/LM324/UA78M05/ICL7660/LM329/	2
	1 FX12/KN6/	2
	1 CX1538/	1
TEUPNEPR	1 SY2130/8085/6502/	3
TEACH-IN	1 AY5-1013/PLS159A/PLS153/MC1488/MC1489/	3
COAUMECO	6 HZ12BGC/715/318/311/310/LM2/74LS466/74LS374/74LS348/4051/	9
DEAP	3 80C86/82C89/82C86/82C84A/F175/F138/F04/F00/F08/F148/F20/F32/	9
PART I	1 3096/	2
	1 900000/1-N97900006/	1
	2 4046/4018/LM311/555/741/78L05/	5
APPLICATIO	6 80C31BH/ADC0817/74HC373/MAX232/82C55A/U LN2803A/27C64-15/7805	6
HAMSATS	1 4040/2716/74L00/74HC00/74HCT00/2N2222/	4
BUILD THIS	1 8048/514256/011273/74LS244/	9
FOCUS	1 80287/8255A/8254A/8259A/8274/8254/80286/82258/	8
CIRCUITS	1 4017/5369/4508/4049/4089/4001/4040/IN914/	9
APPLIED ID	1 8279-5/DAC82/HI506A/LF444/	5
BUILD THIS	2 L296/ADC0804/8253/U LN2003/74LS645/74ALS520/4060/74LS541/4046	9
DESIGN APP	2 82A205/80286/80287/82C202/82A204/82A203/82C201/82C206/8042/	9
AROUND IC	2 7220/7242/7230/7110/7250/INS82851/DS3616/DS3615/NBM2256/	6
IDEAS FOR	1 8279/74LS161/74LS138/	3
	1 7242/7250/7110/7230/7220-1/	4
	1 7250/7110/7114/7230/7234/7242/7244/7220-1/7254/	5
CIRCUITS	4 4301/4302/	1
	1 74LS395/74LS194/74LS283/74LS157/	5
CCT IDEAS	9 741/4016AE/BC384L/1N4148/	9
HOBBY SCEN	1 741/LM318/	3
	3 74LS244/74LS30/74LS74/74LS132/7250/7110/7230/7220/7242/7254/	7
TITE	1 7414/	0
ENHANCING	2 7402/7805/276-1770/2N2222/276-2009/1N4001/276-1101/1N914/	5
APPLIED ID	1 74SC132/TIL111/TIP121/1N4004/BZY88C3V9/	3
	5 74LS374/74LS244/ZN428/ZN427/LF398/4049/40106/7407/MC14433/	2
DEID	1 7495/7427/	2
DEID	1 74HC74/	1
	1 74F00/2N5771/MC10125/	3
DEID	1 74ACT244/	1
TECH TIPS	2 74LS241/BD140/BD139/	5

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	1 U403/	1
DEID	1 74C192/MAN4640A/MAN4605/4513/4019/4013/4011/4049/UDN2982/	9
	2 74LS374/74LS174/74LS244/	3
	2 74S257/74S251/74S241/2907/74S153/10124/74S163/74S112/10115/	9
	1 741/1N60/1N34/	1
EDROAIDESE	1 6502A/68B50/6522A/	4
BUILD THIS	1 555/2N3906/2N3904/1N4148/	7
TECHNICAL	2 M5226P/741/	1
WEEKENDER	1 555/2N5061/2N2222/TIP29/1N4004/1N4148/2N3055/ECG181/	5
FEAR	9 555/7408/4049/7404/TIL111/VTL10G1/2N5210/2N5087/MPSA56/	5
	1 6502/74HCT243/74HCT373/74HCT541/74HC245/74LS00/LS7404/	8
OTFE	1 5532/	2
EXPERIMENT	1 555/741/	4
	1 R6522/2114/R6502/	3
	1 276-2048/1N4001/	1
PRIN	1 68HC05H2/	1
COMPONENT	1 Z80/Z8530/2764/16V8/	4
	1 6809/6845/6821/74193/8304/74157/14411/74175/8T26/74174/7400/	9
DEFE	2 2935/UGN3130/OM9321SC/7402/7400/	8
PRFO	1 79R3721/R3081/73720/	3
PAELCI	1 CA3240AE1/MC14046B/MC14016B/MC14050B/MC14001B/	7
	2 UA733/NE501/7414/2N918/1N914/	4
AIANCH	1 CA3062/SG1002/	1
ENHANCING	1 MAX232/LM358/78L05/VN0300/MJE3055/TOLD9200/	7
TEST TIPS	1 DAC08/SSM2300/27C16/TL081/74HC4538/74HC4040/74HC00/	8
DEID	2 CA3300/MP7682/CA3306/TLC5602/EL2020/LF355/2N1711/LM136-5.0/	7
	6 HBF4047/TL083/LF353/LM334/MC14028/MC14081/CA3162E/MC14504/	8
TEAR	4 BB3656JG/4250/2N2219/BB3656BG/BB3510CM/	2
ENHANCING	1 MC68HC705C8E/MAX232/NE555/78L15/78L05/1N4148/	5
FEATURES	1 ICL7667/GS1550/GS1525/GS1510/	2
	5 ICL7660/MFOD72/MFOE71/2N3906/4584/1458/	3
SUPA	2 MC3403/MC3302/MC14049B/MPS3638A/MFOD100/1N914/	2
CODI	2 MC1377/2N2222/LM7812/1N4002/DL122401D1533/	4
	2 UC3825/2N3947/2N4014/IRF720/28CTQ40/USDC845/1N5817/TVS312/	5
	3 MC1377/MC74LS05/MC74LS04/MC74LS86/2N2222/	4
CIID	1 ECC88/2N5415/2N3440/1N4148/	3
IDDE	1 UCN5833A/LM555/74HC74/	4
	2 MC10198/74193/MC10131/74126/MC10105/MC1039/7408/7404/1N4305/	9
BUILD THIS	1 MC14538B/4522B/4518B/555/LM317/2N3906/2N3904/1N4148/TIP120/	9
	1 MC1350P/MPF102/2N4416/1N914/276-69/	2
ICS FOR CO	1 MC3419/MC14413/MC3418/MJE271/MJE270/	6
ENHANCING	2 MC68HC705C8P/MAX232CPE/74HC00/78L05/	4
ENHANCING	6 MC68HC705C8/ADC0808/HPCL3700/MOC3010/MAX232C/78L05/CD4040/	4
BUILD THIS	2 MC1377/74HC00/CD4066B/2N2222/2N3906/	6
	1 MC1377/27C256/74HC4040/74LS279/74LS93/74LS08/74LS04/1N4148/	9
PAPERS	2 ICL8063/AD7523/741/2N3792/2N3716/ICL8039/	4
APSU	1 MC1596G/	1
COMPUTERS	4 MC68HC705K1/LM358N/CD4001/74HCT14/PN2222/1N4148/1N4003/1N914	2
TEUP	3 MC1488/SN75188/MAX232/	1

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	1 MC10116/MC10109/MC10107/MC10198/MC10135/	5
	2 AD0809/74LS75/555/2N3053/74LS02/74LS367/1N752/1N4148/7805/	9
APID	1 AD536/LM741/CA3140/LM312/5082-4658/BZY88C6V8/IN4148/	8
	3 AD647/AD545/AD521/ADOP27/SD210/LM194/	5
COAR	1 TDA2003/LM383/2N3055T/TIP31/1N4002/	2
AUHIFI	4 TDA1524A/TL082/LM324/7810/BC548/1N4148/1N4001/	4
TECH TIPS	1 CD4060B/2N3904/	2
NOTES	1 AD40J/741/74121/	3
	1 ADC809/8255A5/LS245/LF398N/74LS00/74LS32/LS90/LS138/	8
CICICE	2 ADC0808/LM301/COM2017/COM5016/MC1488/74LS00/74LS373/74LS04/	7
	1 CD4007/CA3078T/LDA407/	3
PAPERS	2 AD7528/TDA2030/2516/	4
	1 ADI200/FB200/ALU200/HSP200/	4
	1 AD9687/MC10104/MC10101/1N4154/	8
ENRE	1 CD4047/CD4027/741/CD4011/566/BSX45/1N4148/ESAT-BCCD256/	9
FEATURES	1 6DQ6/6AQ5/	2
	1 NE555P/2N2222A/1N914/	3
	2 TEA2025/NE5532/NE5534/TL072/TL071/7808/7808/L4810/B40C5000/	8
	2 NE5534/LM308/AF100/LF0021/UJ040B/SGD040L/	5
	5 NE5532/TL082/LM317/7805/7199/6V8/	2
DESIGNER'S	1 NE521/RS3500/SPX4692/	2
BUILD THIS	2 LF347/1N4001/1N4735A/	2
	1 PF5012/MPS6515/PIN040A/	3
BRIEFS	3 LF398/LF311/TL084/74LS123/AD755/	4
HIENPHIN	1 BFT25/BFR93A/BAV99/	3
ANRA	1 6F6/6A8/6K7/6J7/5Z4/	5
LASERS	1 TGI11000-25/	1
	1 DG201/DG173/7474/DGM111/VFQ1R/	5
FEATURE	5 TIB1000/TIB0904/TIB0334/8085/9900/Z80/6800/MC6844/9911/8257/	5
DEID	1 TIL311/74LS240/74LS32/74LS08/	7
DESIGNER'S	1 MK4104/74LS374/74174/74LS283/74S471/74163/7400/7404/	9
	2 TL072CP/LF353N/TL084CN/VSK120/1N5817/741/LM383T/MV5753/	7
	2 TL062/TL061/AD670/4081/4060/4040/4020/4013/BC547B/X2804/	9
APID	1 TL507/LS244/LS138/	3
	1 LM1889/LH0062/96L02/5369/2N2905/2N2219/	9
	1 LM386/	1
	1 LM3900/1RF511/2N2222/2N3904/1N4752/1N270/RS276-1713/	5
NEW IDEAS	1 LM555/4017/	2
DESIGN	1 TMS2149/TMS2510/74S10/74S240/	9
FACTCARD	2 LM1894/LF353/	1
	2 AM29863/AMPAL16R6/AM9167/AM25LS2539/AM8052/AM2952/AM2946/	9
TRBR	1 LM111/	4
	3 LM3900N/MC14529/LM339/6821/G821/MC14050B/	3
COAR	1 PMC-VIDRAM027/CA3304/LM339/LM324/4464/74HCT174/7805/2N3906/	9
COAR	2 LMC555CN/LM324N/MPSA42/2N3906/2N3904/P7055/1N4763A/1N4750A/	4
COAR	1 LM741/	3
FOREGROUN	4 LM3900/4050/2N3638/2N3567/1N914/	3
NUEL	7 LM301A/BFR90/BFQ23/	3
TEUP	1 AM29368/AM2969/AM2960A/AM2971/	4

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	4 LM339/ECG919/74C221/H11A2/74C107/4N28/MFOD71/MFOE71/2N3700/	9
	2 LM3065/TA7205PBA521/2SC829C/2SC1318Q/2SC829B/2SC1359B/1N60/	9
COMMUNICA	2 AM2910/AM2902/AM29705/AM2903/AM2904/AM2920/AM2914/27S27/	7
APDENO	1 LM339/741/	2
	2 LM13080/	2
COAR	1 LM324/2N3906/2N2222/276-1657/	3
	4 LMC835/	1
DENO	1 AM9513/AM26LS32/74LS244/AM29806/	5
HIKI	1 2N2646/1N914/	1
	6 SN74LS04/MC14049B/MPS3638A/MFOE100/MFOE200/LF357/MC75107/	4
INSTRUMENT	1 INA101/TL061/TL062/LM393/4781/VFC32/HPR2501/HPT1501/2SA509/	9
APID	1 SN74LS174/SN74LS74/SN74LS85/	6
BUILD THIS	1 2N3563/1N757/	3
	1 2N5179/HFBR2404/LM733/LF351/1N4150/2N4416/	4
	2 2N706/1N67A/2N3819/741C/	2
	2 2N918/2N4416/1N939A/LDA405/LDA400/MPS-U04/LDD15/	7
INMEHIENPH	1 2N3640/5770/5771/2N919/IN4148/	7
DESIGNER'S	1 SN74LS85/SN74LS86/74LS08/74LS32/	6
MIAP	1 2N4014/MV5354/1N916/	1
FEATURES	2 1N5257/1N4004/	0
	1 SN74141/SN7490/SN7475/GMC018/UA741/ZH1000/AV1/	9
APPLICATIO	1 FOT110KG-IR/FOR110KG-IR/NE530/741/KSCH1001/IN914/	3
EXPERIMENT	1 FPT100/7432/7400/74193/4017/741/555/7489/74154/	9
FEATURES	2 IR2110/IRF710/IRFU310/IRFD1Z3/11DF4/JES1106/EPG10G/	3
APPLICATIO	1 IR2110/	2
DESIGN ENT	1 LS244/LS374/SCN68454/SCB68459/SCN68000/	6
DEID	1 LS393/LS85/LS74/LS08/LS32/	6
DEID	1 SSM2120/NE5534AN/SE5534AN/1N914/	5
	1 2SK147/LM359/MPS3640/	3
SPRE	1 VSC7104/VSC7103/VSC7102/VSC7101/	4
HIENPHIN	1 2SC3356/2SA1226/1SS123/1S2838/	5
COFE	1 BT251/LM358/EL2020/	3
	1 STK084/	1
DEFE	1 MTP3055E/TIP42/	4
COFE	1 MVV351/MVV251/F245/	3
	3 IVN6000KNT/SK3044/	3
	1 AY3-1015D/AY5-8116/1489/7406/7400/OAC5P/	6
TEDEFE	2 2030/16C451/3201/8042/80386/80387/GC134/GC133/GC132/GC131/	4
HIENPHIN	1 1029J7/10H176/10422A7/	4
	3 40673/2N5485/2N918/2N5109/2N3866/DV1205S/78L09/1N914/1N4004/	7
	1 8085/8253/8255/6116/2716/	3
	1 4040/MM5369/4012/555/	4
	1 4051/4024/2N2219A/741/CD4049B/	6
HARE	1 8088/8253/6522/7201/6852/8259/	9
	2 4040/4585/4027/4N30/BC547/	4
DEAP	1 10G002/10G001/10G004/10G023/	3
DEID	1 4040/74HC688/MM3569EST/4518/ICL7224/4017/4093/LCD004/	9
DEID	1 4077/4029/	1
	1 4001/4017/2N3904/	5

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	3 8085/8255/ZN427/74LS373/74LS245/74LS244/74LS154/74LS138/7476	9
CIID	1 4040/4013/4093/BD679/	5
	1 8085/8155/74492/74491/	4
	1 4049B/MPS4355/1N914/	2
	1 806-1001-01/UA741/MC1456/MJ4033/MJ4030/1N4001/	4
FIFU	1 8051/8254/74LS373/74LS163/74LS138/74LS04/74LS74/	6
PROJECT	3 8052AH-BASIC/80C52/6264-15/74LS373/74S138/74LS08/74LS00/7805	4
CIID	1 4017/4093/	2
CORRESPON	1 8085/8255/8251/8155/8205/2716/2732/8212/	6
ARTICLES	1 4017/4071/4011/4049/TIL222/	5
	2 4033A/2N4264/FPT100/VT214/CL903/DL704/555/	9
	1 4066/3511/	2
FEAR	3 8031/2764/6264/74LS373/74LS74/LM7805/BS170/2N2907A/1N4001/	9
	4 4028/4520/4528/UA9708/4516/4011/4093/	4
	2 4013/4093/4016/4017/4069/2N2222/2N2907/1N4148/1N100/	6
	2 4046/4015/4161/4040/4014/4060/4013/4066/4050/BC107/	9
SUPA	2 T0200-01/365/7915/7815/BUZ54/BNZ54/	4
DEEN	2 8088/8085A2/8273/8237-2/8279/8275/8271/8282/	5
MOPRRA	1 4046/CA3130/2N2222/1N4148/1N4001/	3
ARTICLES	2 4047/4000/IRF840/2N2907/2N2222/2N2219/BFJ93/BSJ36/RG3M/	5
APNO	1 80386/74F64/74F11/74F10/74F08/74F04/	6
APPLICATIO	3 8031/8051/2764/74LS373/7805/2N4402/	3
DRBO	2 4040/4082/4081/4068/4011/4069/4002/	7
APPLICATIO	1 8052/8052AH-BASIC/	1
	1 40/	1
	2 4024/4011/VN10KM/BS170/276-2074/	2
MICROPROCE	1 8080A/8216/2708/2107B/	4
CIRCUITS	2 4060/	1
DRBO	1 4049/1N914/	1
DENO	1 8040/1220/LF398/74LS244/74LS374/74LS174/74LS273/2716/	9
DEAP	1 80386/74F258/74F373/74F245/DRAMP1/DRAMP2/	6
CICICE	1 8088/8755A/8355/8284/8185/8155/	5
CICICE	1 8088/8355/8755A/8185/8155/8284/	5
	2 4098/4056/4049/4039/4028/4023/4013/4011/4029/130FII/BAW62/	9
	1 4013/555/2N2222/	4
HAONCICICE	2 8031/74LS373/74LS138/2764/6264/8255/	5
PROJECT	1 5101/4051B/4070B/4053B/4011B/4520B/4093B/MPS6523/MPS6515/	9
SPPR	1 A1020A/AD565A/D43256A10L/AD684/LT119A/LT1220/5352T3-5VLC/	7
INMENSUP	1 S1790-02/S3204-03/	0
BUILD THIS	1 H11AA1/1N270/1N4001/	2
	1 C159M/	1
	1 4133-22/3554/	2
BENCH	3 V25/ADC0808/8255/27C101/MAX232/PAL22P10/M6242B/628128/93C46/	7
PROJECT	1 12AT7/1N4007/MPSA42/	4
	3 6264/LS251/LS163/7445/LS30/PAL14L4/LS393/27C256/	4
	1 8273/4024/74LS139/74LS73/74LS32/1489/1488/74LS125/	8
	3 2240/741E/L200/7805/2N7010/F15N05L/BC184/1N4148/	3
CLGL	1 12AX7/12AU7A/6L6GB/5U1/	7
INVITED PA	3 7220/7242/7110/7230/7274/7250/68B03/	5

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	4 8255/DAC80/8257/8212/8251/SHM2E/MX808/ADC4130/138/93/1488/	9
POSUBACHPI	2 U2400B/LT1070/4060/TLC271/7808/BS170/TIP147/BC560B/BC547B/	9
COPE	1 82A205/82C202/82A204/82A203/80286/80287/82C201/	6
	2 12AU7A/	1
ADIC	1 K28C16/MC68HC11/LS373/	3
ENNO	1 3240E/MPF4391/1N823/1N4148/	3
	1 8250/74LS244/74LS138/1488/1489/75189/74LS32/74LS06/74LS20/	9
FEAR	1 83C652/87C751/	4
	2 3341/74368/74121/74107/7421/	9
	2 P35-1101/2N3565/MPSA18/	3
	9 74S112/LS02/MC1590/2N5179/2N5109/MPN3404/SRA3H/MRF517/VN10KM	5
	1 74198/74164/74116/74193/74244/74157/74123/2114/7483/7473/	1
	5 741/LM3900/CD4011/MPS-A12/LM380/	2
NOTES	1 549/	1
DENO	1 74193/74121/	3
COAUMECO	1 74S288/74LS193/74193/74S124/74S74/	5
PROJECT OF	1 74154/74193/7400/555/	4
APID	1 74LS164/74LS00/74LS86/74LS132/393/	8
	1 741/4016/1488/	5
	2 3451/7437/7824SK3560/R1166/	2
REPA	3 74LS155/74LS193/74LS368/74LS175/74LS74/74LS363/DAC80/UA741/	9
	3 74C925/CD4098/MM5369/CD4040/74C90/FND357/LM1489/CD4012/LM358	9
	1 74LS393/74LS157/74LS125/74LS244/74LS20/1N4148/	8
FEATURES	1 74LS74/1N4148/1N914/	1
	1 7400/7425/74LS138/	3
UPGRADING	1 74LS245/74LS85/74LS02/74LS00/	4
	2 74HC164/LM741/74HC86/74HC08/74HCT04/	4
	2 9400/276-1790/741/339/	3
	1 74LS123/74C174/4449/7404/	3
	2 74LS373/74LS245/74LS138/74LS30/8255/ULN2803A/74LS04/74LS10/	8
INCO	1 741/BC238B/GL5R/GL5GB/5GN/ZPD5/LDR03/1N4148/	2
FOREGROUN	3 7407/6N137/6N136/7805/2B2369A/2N706/2N404/1N914B/	6
ARTICLES	3 74HC4046/74HC192/74LS90/74LS86/74HC74/74LS08/74LS07/74LS04/	9
80MI	3 74LS373/74LS20/7805/LM340T5/	4
	2 741/AD2020/7475/74192/7485/	3
CICICE	2 74LS164/7406/74LS04/	7
DEAP	1 74HC193/74HC86/74HC74/	4
	3 9400/LM331/	1
ARTICLES	1 1458/276-038/	1
BUILD THIS	1 7420/74LS191/7406/74150/	4
	1 741/276-007/2N2222/1N4001/1N914/	4
	1 74155/7430/7404/	3
PAPERS	1 74LS86/SN75452BD/TIL116/	2
TENO	1 1458/2N3685/1N914/	2
SPCO	1 74367/74123/74121/74103/555/7493/7475/	9
	1 741/SS23/BR1102P/	1
PAPERS	1 741/4098AT/4071/BXF85/RS306-077/RS306-083/IN4141/	4
PAPERS	1 741/	1
DEID	1 34001/CLM51/IN914/	4

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	4 74C74/LM339/LM324/74C04/	2
DEID	1 74HC154/74HC20/74HC14/HEDS7500/	4
PAPERS	1 741/	3
IDDE	1 74LS151/74LS161/74LS138/74LS279/74LS74/74LS367/74LS08/	8
	2 74AC00/IRF720/IRF530/IRFD1Z0/MBR030/2N4014/2N3227/IR31DQ03/	6
FIFU	1 74C922/74HCT374/74HCT373/74HCT244/74HCT240/74HCT138/74HCT32/	9
ASAS	2 74192/74157/74121/74107/7490/7442/	9
TENO	1 741/IN58A/IN34A/	2
APPLIED ID	1 74164/74123/	3
INTERFACE	1 9400/ICL7660/	2
COMPUTERS	3 74LS373/74LS73/ADC0804/LM335/74LS32/74LS245/74LS138/MOC3010/	3
	2 741/276-007/2N2222/2N3904/276-1603/276-3009/1N914/276-1122/	2
	3 74LS245/74LS138/74LS373/74LS244/74LS139/74LS273/IAC5/74LS86/	8
RFDENO	4 741/MC1436/2N3019/2N6288/2N2905/1N5266/1N914/	4
CICI	5 1458/741/2N3906/2N3904/2N2222/1N914/	3
FOREGROUN	1 7490/7474/7404/	4
COLUMNS	1 741/	1
	1 1458/2N2222/276-2009/276-038/	2
	1 7490/7475/7447/	3
	1 741/	1
	1 74LS221/7490/74259/	4
	1 741/	3
NEW IDEAS	1 555/	1
LETTER BOX	1 555/4584/	1
APPLIED ID	1 4512/4510/4093/4006/4023/4511/4013/	7
	1 6522/74LS30/74LS169/74LS14/74LS05/	6
PROJECT	2 555/74LS191/74191/74LS73/7473/74LS08/7408/74LS154/74154/7805	5
CLCI	1 6550/6FQ7/6CG7/12AX7/ECC81/1N4005/1N4439FS/NE2J/1N5368B/	9
IDEAS FOR	1 555/1N914/	1
	1 356/311/74121/VFQ1C/7408/7474/	6
FEAR	4 555/1N914/	2
	4 6550/12AX7A/12AU7/6L6GC/	4
BUILD THIS	3 7555/LM7809/LM7805/IRFZ42/DB104/2N4403/1N5820/1N4148/	6
	1 S5595F/NE565/SN7473/SN7486/UA741/	9
	1 555/4077B/7805/4049UB/BC479/	5
DRAWING BO	2 555/4018/	2
	1 6522/TL071/CA4066B/LF13331/SN7404/ZN428/	7
	1 556/1N4735/	1
	2 N531/HTC0300/HAS1202/HMP6116/8X60N/74LS244/74LS14/74LS32/	9
TECH TIPS	3 555/7476/7402/MOC3021/7805/	3
HOBBY CORN	1 555/7490/	2
PAPERS	1 556/74C221/ECG992/MC3403/CD4066/1N4004/	5
PAPERS	3 6502/6850/74LS374/74LS373/74LS245/74190/8255/7109/9364/714/	9
LETTERS	1 555/	1
DESIGN SOL	1 75175/75174/1489/1488/7406/	4
ENGINEER'S	1 555/93176/93175/9357B/FND507/7400/	9
	8 555/74C164/VD4048/CD4066/CA3130/LM741/LM311/CD4011/CD4001/	9
	1 96S02/74LS74A/75175/	3
IDEAS FOR	1 96S02/74LS125/74LS293/74LS123/74LS00/	7

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	2 Y690/VN10KM/2N6661/IRF510/2N5109/	5
TENO	1 7663/ICM7555/LM334/	3
NOTES	1 R6501Q/74S74/7474/LS93/7404/	7
	3 562/2N706/BD5/	1
	2 R6522/HCLP2730/74LS541/AD7545/OP07/AD584/74LS123/MC68B40/	9
	1 96S02/74LS74A/75175/	3
	1 567/276-1721/7805/LM340-05/276-1770/276-033/1N4001/1N34/	2
TENO	1 2758/1408/3140/741/074/4013/4555/4518/4520/4011/4049/4016/	9
	2 1702/74193/7486/7410/7805/BC107/	9
CICICE	2 8748/LM556/74LS393/7805/74154/74LS138/2716/MC1488/MC1489/	7
BUILD THIS	1 8749H/ADC0809/LM3900/MAX233/LM317LZ/7805/IRFZ22/PN2222/1N914	8
APPLICATIO	2 8748/TCM1520/MCT2/LM7805/2N3415/1N4002/	5
DEID	1 8748/8253/MF10BN/RDD104/74LS139/74LS244/	6
FEATURES	1 276-026/	0
SYDEMIMI	3 8703/DAC100/118A/MC6820/4047/4071/4081/4069/	9
FEAR	3 87C752/TLC27M4/74C906/4093/74HCT14/7663/IRFD113/2N2907/	9
TETR	1 6800/82AG/SCH80/	3
UPDATE	1 78568/4N35/TEC9015/TEC9014/1N4001/1N4606/V130LA2/	7
EVENING PA	1 7815/	1
	1 6809E/6551/1933/	3
CQ REVIEWS	1 78M12/	0
UPDATES	1 7805/IN4004/	1
CCT CELLAR	1 Z8671/2716/2732/74LS373/74LS244/74LS367/MC1488/MC1489/	9
APTE	2 3850/3853/2114/2708/SN74151/SN7475/F40097/SN74190/SN7404/	9
FEATURES	3 2816/CD4503/CD4060/CD4049/CD4017/CD4013/7407/LM317/1N914/	5
	1 I8253/CDC15023/	1
	4 6802/6821/TMS2516/4016/4001/1N4001/4011/4017/	4
	5 Z80A-CPU/Z80A-CTC/Z80A-PIO/WD8250/74LS244/74LS243/74LS139/	9
	1 7812/2N2222/1N4001/	3
PAPERS	4 Z8671/PMI7548/OP77/OP07/OP11/REF01/6264/2764/74HCT138/HCT574	9
FACTCARD	2 CA3140T/	1
	1 UA715/SL2364C/BFR34A/QHA70/	4
	1 CA3046/1N4148/BB212/	1
ARTICLES	1 DAC49-10B/LM308/741/74121/7493/7400/2N5777/TI751/	9
NEW PRODU	1 SAF45MA50E/TA7607AP/TL082/HA1128/LM386/MRF901/2N2222A/	9
	1 UA741/556/40192/4514/4043/4051/4520/	9
HAHA	1 BA1404/	1
RATECO	4 MAS7D102/MAS7A101/MAS7A103/XR2204/NE592/NE5532AN/4051/7915/	9
TENO	1 UA776TC/TL066I/CD4098B/VN0300M/2N7000/	8
	2 UA356/AD582/5Z6/LF13741/XR13600/DG180/LH0052/BFX80/	7
DEID	2 DAC8012/OP227/74HC74/2N5434/74HC32/REF01/OP207/2N4403/	7
	7 HA562/HCLP2630/AM2504/AM685/AM686/HI562/HI565/8048/HI518/	9
	2 PAL12L10/74LS682/PAL16R4/74LS373/74LS173/74LS138/74LS85/	7
COPA	5 DAC80CBI-V/ADC80AG12/SHC298AM/AD547/U741/40192/74374/74245/	9
	4 CA3193/CD4066/LM311/LM308A/LF356/LM318/BC173C/1N4148/LM358/	6
DEID	1 DAC0830/ADC0841/LF412/LM319/CD4011/2N2222/	7
	2 MA106/LF356/LM311/MX1606/74LS393/74LS123/74LS14/2N4391/IN753	6
DEID	1 DAC08/MAT03/	4
EXPERIMENT	3 CA3078/1N914/4013/4011/	2

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HINTS & KI	1 MAC2-4/HEP340/MPT28/HEP311/	1
FEAR	5 MAX134/74LS259/74LS240/ULN2803/LM324/7660/74LS10/74LS04/4N35	5
COAR	2 MAX630CPA/LM358N/2N3906/1N5819/1N4148/	2
	3 CA3080E/741C/CA3240E/4077BE/4011BE/4070BE/4069BE/1N4148/	4
	1 CA3028/2N3904/	2
PAPERS	1 CA3059/	1
	1 HA2405/HA1-2405-5/TL084CN/CD4516B/TL081CN/LM311/2N2222A/	7
LAEX	1 CA3085A/CA3085B/2N3055/MJE3055/	2
IDEAS FOR	2 DAC888/REF02/GAP01/1N914/	2
NOTES	1 UA142/UA152/1N914/	0
APPLICATIO	1 MAX359/MAX400/	5
	3 DAC08/356/311/74C905/1495/398/741/NE536/74LS191/74LS00/4010/	7
	2 DAC0801/74LS90/74LS92/MV209/TL082/74LS367/2716/ICL8069/	6
FEATURES	1 UA9708/74150/74LS393/74LS221/74LS08/74LS02/	8
RESEARCH N	1 UA741/	2
CIID	1 DAC08/LM308A/2N2905/BD135/BC107/BZY88C11V/	6
FACTCARD	1 CA3140T/	1
FACTCARD	1 CA3140T/	1
TENO	1 CA4046B/	1
FEATURES	1 MAR8/	1
	2 CA3140/MC6821/CD4051/5347/8T26/8095/SN7420/CA301A/MC1408/	9
FRENEL	1 MB43468/MC10116/	3
COMMUNICA	4 BB3523/741/IC7406/IC7805/7808/B40C500/B500C2000/1N4005/	4
ARTICLES	1 BB4423/AD711/AD630/LF351/SW06/VTL5C6/VTL5C1/	9
CIRCUITS	1 MC14556B/	1
TENO	1 MC1468705/AD7541/	2
FEATURES	3 MC68HC811E2/LM393/SN7406N/LM334/MTP50N05E/BS170/MC14051P/	7
ELSC	2 MC14050B/6821/741/	2
COMIPR	1 MC146818/74HCT74/74HCT02/BC557B/BC547B/BAT85/	6
ARTICLES	1 MC1545/2N5245/2N918/	5
	1 TCG152/SK3041/ETC11510/C106D1/C107D1/1N4002/1N4005/NE2/	3
	1 MC14066B/ICL7650/ICM7555/MC14069UB/	4
	1 MCM6664/MC34040/MC68000/	3
SPRE	2 MC146818/MC74HC373/MC14574/MC74HC00/MBD701/	4
	1 ICM7555/4017BE/4001BE/BFY51/2297/	4
BUILD THIS	1 ICL7611DCBA/MMBC3904/	2
DEID	1 MC14001B/	1
FEATURES	1 TCM3105/2N2222/LM385Z2.5/1N914/	4
ARTICLES	1 ICL7136/74C947/TLC27L2C/LDC006/2N5087/	5
	1 MC3340P/SK3891/LM380N/2N4401/276-2058/TIP3055/1N4739/SK3017/	5
	1 MC6809/SC2681/SY6522/ADC80-12/AD583K/2764/TC5565/74LS138/	9
BUILD THIS	1 MC6809/74LS139/2764/HM6264LP/74LS273/74LS244/74LS00/1N914/	7
TENO	1 ECG4051B/ECG948/CD4011/ECG4012/	4
RFDEAW	1 MC10116/MVAM125/	1
DESIGN ENG	1 MC6821/MC68488/MC3448/MC8T97/MC14051/MC1408L6/MC6802/	5
	1 MC14503/7408/74LS138/	4
NUEL	1 ICM7555/74HC241/MC10198/MC10192/MC10124/74LS30/MPQ2907/	7
DENO	6 ICL7109/8751/4051/D200/LM7905/LM7805/BUZ40A/BC547/HFBR1524/	6
CCT CELLAR	3 MC14497/LM309/MC3373/2N2222/CD4049/TIL220/TIL413/TIL39/	4

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APNO	4 MC68901/MC68008/MCM68766/MCM6665/LM339/MC1455/74LS164/MC1489	9
APPLICATIO	2 MC68HC705C8S/MAX232CPE/7805/ 2 MC1403/1N270/XRL556CP/74HC04/LM339A/LM330T5.0/1N914/LM1403/	4
DEID	1 MC1692/SP1692/	1
HAHA	2 SC11211/CH1845/1N5228/	2
DESIGN SOL	1 ICL7650/LM1900/BC477/ 5 MC3403P/RC4151NB/HCF4013BE/TDB0723A/UA723CN/ICL7660CPA/BA221	4
CORRESPON	1 MC10806/MC10801/MC10800/	4
FEATURES	1 MC3340/NE602/LM380N8/1N34A/	4
ELSCTE	1 MC1733/3583/2N3904/IN6263/	6
DEAP	1 MC33035/MC33039/MPM3003/1N5352A/1N5819/1N4148/ 5 MC68000/MC68661/MC68652/MC68653/SN74LS193/SN74LS138/SN74LS74	9
APPLICATIO	1 ICM7556/	1
BUILD THIS	1 MC13020P/LM317LZ/	2
FEATURES	2 MC6802/MM5369/2716/MC6820/LM340-05T/CD4023/	5
RESEARCH P	2 MC10231/MC10133/MC10107/	4
RFCOST	4 MC33171/MC13176D/2N4402/2N4401/MPN3401/MBD101/ 1 MC10176/MCM10139/MC10801/	3
DEID	1 MC1455P1/MC79L05C/MPS2907/1N4740/1N914/	3
ICAP	2 MC14530/MPSA20/	2
SPISPA	1 MC1648/MC10123/	2
RTTY LOOP	3 FCD810/74161/7454/74109/AY5-1013/1702/74153/74157/7442/ 1 MC3357/	9
PAPERS	1 ICM7224/ICL7642/LM4250/LCD5660R25H/ICL8069/DE113/IN914/ 7 MC1496/TL442/CA3028/741/MPF102/2N5179/2N2907/2N2222/1N4735/ 1 MC68HC05C4/MC145401/MC145001/MC145000/MC74HC241/MC74HC00/	7
NOTES	1 ECMWM063T/ 1 MC14433/MC14503/MC14013/AD580/DM7432/MC14028/SN7427/MC14049/	9
HOME-BREW	3 TDA7000/CA3130/LM386/LM317/7805/40673/MV1626/1N4148/ 1 CDD22204E/204/CD4028B/CD4081B/CD4001B/NE555/2N3904/VM08/ 3 LD130/74C48/DF411/E204/MPSA13/2N4403/CR033/MV5077B/74C221/	9
INTERFACIN	3 AD7581/3140E/6N139/AD581/2N3053/1N4001/74LS138/ 1 AD518/LM393/2N2222/2N2905A/D44H10/UES1304/	5
SUPA	1 ADC10Z002/SHA1A/TDC1009J/ 2 AD574/AD566/DG508/BB3507J/LM310/AD584/74LS273/UA741/	5
PAPERS	3 AD7528/A206/1420L1/9513/2914/26S02/390/74LS154/74LS138/74116	9
APPLIED ID	1 CD4093/CD4518/CD4511/BC547B/ 1 ADC0800/6820/6264/6800/2732/EG-Y84320AT/4049/MC34004/	5
TENO	1 AD584/AD518/AD7522/74C221/74LS197/NE555/74LS192/74LS107/	9
DEID	1 AD534/LF356/1N914/ 1 CD4024/CD4053/MOC3010/LM7806/LM393/CA3130/BC556/S1008L/BC337	9
APNO	3 IDT7174/IDT7164/IDT6167/ 2 ADC0809/MC1408/74LS374/1458/7432/7404/7402/	4
BUILD THIS	2 RD5106/LM324/4011/1N4742/ 5 ADC1005CCJ/DAC1020/CA3140/LM741/74LS138/74LS125/74LS75/ 2 AD7521/74LS191/LM308/741/	5
LETTERS	1 AD712/ 2 ADC0808/741/LS85/74LS175/LF356/1N443/74LS126/74LS32/74LS08/	9
CIID	1 CD4066/741/	3

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DEID	1 AD654/LM360/J270/74LS86/	5
	2 AD581J/MC14001/1N965B/2N3904/1N4002/	9
OPCO	1 PDC2200/10G013/INA02170/	2
FEATURES	1 ADC0838CCN/ADC0838CCJ/	1
APPLICATIO	1 AD651AQ/ICM7208/SN74LS221N/4020/1N4148/MAN74A/	6
RATECO	1 TDA3048/SAA3049/74HCT74/BC547B/BPW41/BAS32/	5
DECA	1 CD4051/CD4030/CD4024/CD4015/	4
ALL ABOUT	1 TDA3301/PW600/556/MM74C221/2N2222/2N3906/LM7812CT/1N4000/	9
DECA	1 CD4046/4013/741/	3
IDEAS FOR	1 TDA2009/BC107/K154/	2
	2 CD452B/CD4528B/LM313/OP05/AD521/1N4447/2N3904/	8
	2 CDP1854A/CA3161/CA3138/FND507/CA3162/CD4019/CD4081/CD4023/	9
ENNO	2 AD7570LD/AD311/AD741/	3
HOMING IN	3 ADC0801/CD4067B/7432/7413/7404/1N914/Z8/	6
	3 6DJ8/LF351N/2N4400/LM317K/MJE340/MOC4030/1N4007/597-1N4744A/	9
APPLICATIO	1 AD7569/SC22102/4093/	3
APPARATUS	3 AD7520/ICL7104-14/ICL8068/74LS373/741/2N3055/2N1420/	7
	1 TDA2004C/	1
	3 AD674JD/CA3140/LM339/CNY17I/6850/6522/6802/2716/74LS541/	9
REPA	1 AD545J/LM307J/	4
BUILD THIS	1 ADC0804/ADC0803/1458/5558/	2
	9 AD574/AD7545/ZN428/AD582/BB3582J/MSM58174/CD4059/CD4042/4051	9
	4 ADC0809/LM709/LF351/LM319/CA3026/74240/74175/74138/74123/	9
COAUMECO	2 AD6020KD/HM100422/10H016/10412/10212/10162/10131/082/MPS918/	9
	1 AD517L/AD583/AD7512DI/OP02E/AD578KN/AD565KD-BIN/AD509K/	6
	2 CDP1802D/1852/4054B/4027B/4093B/4556/6604/4013/	9
REPA	5 AD578ZKN/AD7503/ADLH0032/AD346/8254/74LS688/74LS244/74LS138/	9
INMEHIENPH	3 AD3554/AD3553/NE522/MTP2N60/MFE9200/7915/7815/7805/1N914/	9
	2 AD537KD/NE555/7473/IN4148/	2
THEMES	3 AD7570/LM311N/MC14528/MC14518/MC14023/MC14025/MC14001/SN7475	9
PROJECT	1 CD4584BC/7808/2N2222A/MPSA13/LD271/1N4148/	5
TENO	4 ADC0844/AD558/SN75492/MM74C922/74LS279/74LS244/74C154/74LS77	5
DEID	1 AD736/AD712/AD633/IN4148/	3
	2 AD7110/914/RS307-064/9471/OP27/AD517/2N3904/ICI8211/	4
	1 AD561/	1
SCIENCE	1 ADC0804/CD4051B/	2
RFCOST	3 AD636/AD600/AD712/2N3904/AD590/	3
	2 NE602/NE604/	2
FEATURES	6 NE602/MC1350P/NTE746/741/	3
	1 NE522/7414/	2
	2 NE592/TL071/CD4053/7906/7806/2N3904/1N4002/	9
TEFE	1 NE72089/	1
TENO	1 NE555/2N3906/2N3904/	9
	1 NE555/7406/	1
DEFE	4 NE24300/2N2907/	2
	6 NE529K/DS0026/MPSU10/MPSU60/LM361/74LS240/74LS221/74LS280/	9
DESIGN ENT	1 NE5205/PNA7507/74F374/	3
	3 NE567/LM309H/2N2222/H11C1/SC51B/SC146B/1N4001/1N4004/	9
PROJECT	1 NE5534/741C/	2

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	1 NE5561/LM311/741/2N2907/2N2222/MJ3000/MJE803/1N3880/	9
PROJECT	1 HEPP1001/ECG3035/HEP736/ECG123AP/1N4001/	3
ARTICLES	3 NE565/LM725C/CA3140/4013/4007A/	3
PROJECT	1 NE555/4011/4001/4017/1N4148/	5
	2 LF356/F100102/SP9685/LH0032/TDC1048/SD5000/SD211/2N5197/	9
TEST CASE	1 LF356/	5
	1 LF412/TL084/1N914/1N4148/	2
BUILD THIS	2 LF353/7812/2N5640/LM311/4069B/4047B/4526B/4016B/4013B/4011B/	9
	1 LF357/	1
	3 LF353N/2N5179/2N2222A/40673/3N211/2N3904/4001/4013/1N914/	4
	1 VFQ1R/	1
	9 VFC320/PGA102/OPA111/LM101/OPA2111/OPA606/2N4220A/2N4342/	4
REPA	1 LF356/UA741/	2
DEID	2 BFS17/B5504KB-XG/B5504KB-UD/BBY31/	4
HOBBY SCEN	1 LF357/	1
	7 LF347/TL083/LM319/6M137/TL072/LF356A/2N2906/2N2221/DG200/	7
	1 LF353N/	1
	2 BF256A/BSX20/L2268-05/	8
	2 VFC32/SN74LS390R/SN74LS373/SN74LS193/SN74LS164/SN7400/'119/	9
	1 BF459/	3
	1 BF512/2SK147/H81/H24/BFS20/BF550/BCW32/3904/BAV99/	8
	1 MF10A/LM556/LM555/TL074/74LS221/74LS74/CD4040/74LS08/74LS04/	9
NUEL	3 LF357/LF351/HEF4066/LO10S/74LS221/74LS161/74LS123/74S08/7407	9
	4 LF353/2N4392/2N5485/2N4871/40081/MPF102/LM340T12/40082/	9
CIID	1 LF351/741/8703/4078/BC184/	6
APPLICATIO	1 VFC110/8254/	2
	1 DG528/LD121A/LD120/VN10KM/CR300/CD4049/	6
DAACSYCI	1 SHM-IC1/HA2539/HFBR2404/	3
	1 LH1605/LM79L12/LM78L12/1N914/	3
AUDIO AIDS	1 TIL070/0002/	2
SIUP	2 PIC16C55HS/53C464/LM7805/	2
APPLICATIO	2 PIC16C54RC/LM78L05/2N3904/	3
PAPERS	1 GI212-152-03/F640/	3
FASTBUS	1 HI516/NS74109/CA3240/LS540/74F32/MC10125/310/SD5000/2SA1015/	9
	1 SK9017/	1
	2 MK50816/74LS373/74LS30/74LS04/	3
NUEL	1 MK50395N/SN74192/SN72811/CD4098/CD4045/CD4027/MAN6640/555/	9
FEAR	1 MK48Z02/74HC541/74HC393/	4
FACA	2 SK3570/SK3665/LM3909/	2
TENO	1 TLC555/TLC374/2N3906/2N3904/1N4448/1N3821A/	4
TEME	4 TLC2201CP/OPA602AP/OP27/OP64/UDN2585A/7915/7815/1N4148/	3
IDDE	1 TL082CP/MPF4391/1N823/1N4148/	3
PROJECT	1 TL074/	1
TENO	1 TLC251/4528/4069/VNO610/2N3686/	5
ARTICLES	4 TLO83/TL081/LM319/DG303CJ/CD4027/LM114/2N2222/1N4148/	7
NEW IDEAS	1 TL507C/LM386/4069/	3
DEID	1 PLE5P8/XR2013/74273/	3
	5 TL072/741/74C32/7805/2N5460/BC214C/MPSA14/BD435/1N4148/	5
	6 EL2019/DG303A/TDC1012/EL2018/AD565A/25HCT04/74HC14/LM336/	4

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TENO	7 TL082/SHC80KP/ADC82AG/LM319N/ICL7660CPA/LF398N/LHOO70/TL082/	9
INMEHIENPH	3 TL082/10212/10176/10161/10153/10131/10H105/10H0116/1650/	9
	6 DL707/74125/7490/555/7400/7447/LM309K/7474/74121/7404/7493/	9
DEID	1 TLC555CP/	1
CIID	1 TL071/NE5534A/	2
SYDEINCI	2 ALS232/AS8832/ACT8836/AS232/AS8834/AS8833/ACT8837/	6
HAASTE	2 TL811C/74373/74161/74123/74113/	4
FEATURE	1 TLC32041/MC7905/LM317T/BAT42/	3
	4 TL072/LF353/40468A/1N4148/	2
ANDINUELCI	2 TL071/74AC74/74HC08/74AC00/SD214/2SC1424/2SA711/2SA495/	9
DEID	1 LM11/MC1403/1N914/	3
DEAP	3 AM7971A/AM20RP8A/AM18P8A/AM29809/AM22V10A/AM20RP10/AM2968/	7
	1 AM2903/AM2910/SN74LS613/	3
CIRCUITS	9 LM741/LF355/LF356/CA3140/2N3055/2N3053/2N3054/2N3906/2N3904/	4
PAPERS	1 LM310/	1
ALL ABOUT	4 CMP01/DAC08/1N914/CA3140/	3
	1 LM741/	1
	2 MM5369/CD4018/MM74C14/CD40106B/2N3904/1N914/	2
TENO	1 BM339/MMC4013/MMC4001/BC172/	7
	1 MM58174/74LS139/74LS138/8304/81LS95/1N4001/	5
DESIGN	1 TMS9914/8048/MS9056/75160/75161/	3
LEED	2 AM685DL/MC10116/MC10109/MC10103/MC10101/BSX28/1N4151/	9
	1 LM348/	1
PRMO	1 LM324/	1
	1 TMS9118/9128/9129/TMS4416-20/TMS4416-15/	3
	1 LM3028/LM386/2N5458/2N5161/	8
PROJECT	2 LM13600/LF13331/ZN428/TL084/74LS00/74LS125/74LS123/74LS374/	9
	2 LM324N/2N2219/BDX873/TIL78/TIL32/1N4148/1N4005/	4
	1 LM337/LF356/	2
PROJECT	1 LM339/TIP31A/2N2905/4011/2N3904/2N3053/1N4148/ZA/	9
TECH TIPS	1 LM3914/BC307/BC547/CD4001B/1N914/1N4004/	5
	9 LM301A/Z80ACPU/CD4066/1408/Z80APIO/74123/74LS139/4044/NE555/	9
	2 LM311/SN7408/SN74221/SY6522/SN74138/SN74244/SN74148/SN74374/	9
BUILD THIS	2 MM5369/LM723N/MPS-A13/	3
	1 AM1517-25M/	2
PALAAPCHAN	1 LM339/OP17/74LS221/74LS168/74LS10/1N270/	6
COMMUNICA	2 LM4250/LF398/LF356/SN74LS221/CD4093B/CD4007A/2N3906/2N3904/	8
CIID	1 LM324/	1
ENNO	1 AM2910/74S374/74S288/	3
IDDE	1 PMI-SSM2122/PMI-SSM2110/NE5534/TL072/2N3904/1N914/	6
RATECO	1 AMU2481/MSP2400/ACP2371/	3
FEATURES	1 LM358N/LM317L/GE103Y/ECG181/2N2055/40411/	3
	1 AM9582/AM9580/AMPAL16HD8/AMPAL22V10/	5
	1 MM58274/MM74HCT688/MM74HCT245/MM74HCT164/MM74HCT02/74LS03/	9
WEEKENDER	2 LM741/276-1601/MC3340A/MC3340P/ECG1829/ECG829/LM386/276-1731	2
FRCOPR	4 LM13700/TL084/4066/7908/7808/1N4001/1N4148/	4
DEID	1 LM555/2N3904/	2
ENGINEER'S	1 LM348/1N914/	1
PROJECT 80	1 MM58174AN/74LS138/2N2907/74LS32/276-2023/	5

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BUILD THIS	1 LM3909/270-401/	3
	3 LM386/LM1458/40673/MPF102/2N3053/2SC777/2N2222/2N3906/ECG612	7
	1 LM339/7400/741C/7420/	4
	1 LM311/LS221/SN75183/MPSH11/1N914/	5
	3 AM687AD/MC10198/MC10124/MC10101/2N5770/1N4722/HP2800/	9
CIID	1 LM307/LM301/1N4153/	3
	1 LM555/2N2222/1N4148/	2
CICICE	1 MM5369/74LS92/74LS90/	3
COAR	1 LM339/LM317T/7812/2N3904/1N751A/1N4001/	4
COAR	2 LM1037N/4017/555/LM7812/78L12/	4
FEATURES	2 LM358/78L08/LM317/GE103B/2N3904/2N3055/NTE5426/NTE181/1N4001	6
BUILD THIS	1 LM567/CD4001/LM339/CD4017/1N4148/	5
	4 LM1458/LM324/LM741CN/NE567/SN7400N/SN7492N/SN74121N/SN7490N/	9
	1 LM311/7805/2N3904/	3
	2 LM331/DM3100N/74H74/LM301/10534B/2N3905/2N3904/	4
TECH TIPS	2 LM3900/555/7402/7400/1N914/	3
	8 MM53200/4011/741/2N5210/2N4403/2N4401/2N3904/MPSA13/1N60/	3
CIRCUITS	1 LM386/1N914/	1
COPA	1 LM317/3DG6/DW233/2CZ/	2
BUILD THIS	4 LM301/LM380/74LS14/1N34A/555/MC7812/1N4733/	5
PHME	1 LM324/4013/	2
	7 LM741/74HC123/74HC240/74HC32/74HC08/4066/7805/	9
FEAR	2 TMS320E15/AD7569/LM358/74LS02/LM7805/	5
NEWS	1 TMS9914/MS9056/8048/75160/75161/	3
APID	1 PM139/DM7414/DM7486/DM7425/DM7404/DM7420/DM74193/MCB-GI-K60/	9
PAPERS	2 LM319/LM324/4011/H23A1/2N3053/4050/1N914/	6
	1 LM4250C/CD4047/CD4066/	5
DESIGN APP	1 LM311/8253/4518/VFC100/	4
	3 AM6012/LS283/74LS164/AM6112/AM27S25/HA5320/74S00/74LS534/	6
NOTES	1 LM375/560/741/SRA1/	4
STST	2 LM1881/5532/4538/4073/7414/7805/	6
FEATURES	1 LM317T/276-1152/1N4002/	2
	3 LM310/CD4066C/807/LM311/DM74123/DM7400/DM7490/NE555/MAN72/	9
WEEKENDER	1 LM317T/	1
LAEX	2 LM556/LM324/2N3053/LM336-2.5/LN261CAL(UR)/TIL413/	2
	2 LM224/4047/4027/4098/BC107/	4
	1 GM472/	0
	1 LM339/7400/	2
APTE	1 LM741/LM555/CA3140/LM320T12/2N2222/2N3054/1N914/1N4001/	9
TENO	2 LM1458/UA774/OP27/2N4857/PIN020A/1N6094/1N755-7.5/1N4148/	2
	5 LM311P/74LS192/NE555/74LS33/7432/7400/7404/1N914B/	6
NOTES	3 LM3914/741/74LS90/74LS32/7407/74LS02/4N37/BC639/BD140/BD139/	5
ENNO	1 LM3900/SN74151/SN7493/7404/2N4286/	7
NUEL	2 LM311/LM310/ADC60/2708/193/175/93/85/74/42/30/10/04/UPA59A/	9
MAMEMA	1 LM324/	1
	1 LM386/	1
	2 2N3568/2N699/79L12/2N3904/2N3906/1N914B/1N825A/1N4148/	8
	3 2N5179/S-AU15/S-AU11/LM317K/LM7812/LM317T/	4
	4 1N270/741/7473/TL081C/7404/2N4222/1N4732/7812/7805/IR18DB2A/	9

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DESIGNER'S	1 2N3638/	1
CIRCUIT ID	1 1N4148/BC212/BC182/	2
	1 2N5486/741/566/	3
NOEX	2 ZN428/ZN427/3140/74LS138/74LS132/74LS00/2N3055/	7
	3 ZN432/6042/74C157/4520/TL082/DAC1000/4013/LF398/TL081/4011/	9
APPLIED ID	1 SN7493/SN74174/VFC32/SN7400/	3
	1 2N914/	2
	1 2N2926/4518/4049/4013/4023/1N914/	7
	1 4N30/555/4070B/4049/4027/4040/4585/BC547/1N4001/BC557/	9
CICICE	3 SN75176B/MC145406/74LS20/74LS240/74LS158/74LS245/74LS74/8255	9
	2 2N3904/MJE3055/2N3055/1N3191/1N4006/	1
INNUSP	1 2N3640/	1
DEID	2 2N3906/2N3904/74HC14/CO4093/1N4148/	2
	2 2N3053/2N1304/2N2430/	1
HINTS AND	1 1N4001/	0
RFFETE	1 3N187/	1
DEFE	1 2N2222/	2
CORRESPON	1 2N2222/V910E/	1
FEATURES	1 2N3904/	2
CIID	1 ZN425E/LM324/74LS244/74LS75/	5
DEID	1 INA103/LH1191/2N3906/2N3904/	6
	1 2N3705/	5
	2 IN4148/HP6N137/	1
	4 2N2222/1N751/1N756/NE555/CD4020B/1N4001/1N4733/276-026/	2
	5 2N3904/MV104/MV2109/2N2222A/MPF102/1N914/	3
	1 2N4124/	2
DESIGNER'S	7 VN66AF/VN67AF/BC557/741/4017/	6
	1 2N4416/2N4400/MV2109/1N914/	2
	1 2N5246/LM394/BFX89/BC184L/	7
HIKI	1 2N2222/MPF102/2N3904/2N2369/1N914/	5
APPLICATIO	2 INA103/OPA627/OPA27/	2
	2 2N6177/2N6247/2N6472/OP07/LM301/MM4003/1N4448/14076/DAC80CBI	6
	2 6N137/356/2N163/LS76/2N3904/2N3906/2N6545/FDH300/1N914B/	9
PAPERS	1 INA101HP/OPA541AM/OPA606KP/LM393N/74HC4046N/HEF4520B/VN10LM	9
TEDASPRE	2 SN75151/SN75157/SN75176BP/SN75172BN/SN75173AN/SN75178BP/	8
	1 SN74198/SN74163A/SN74133/SN7474/	5
INSTRUMENT	1 2N3635/2N2369/1N4148/	5
SPREBAT	1 2N3908/2N3804/1N4168/	2
	3 2N5222/1458/276-038/SK3246/	2
	2 2N3906/2N3904/	2
	1 IN5234B/P311/P312/	0
NEFR	1 1N21/1N23/	0
	1 2N4314/IN459/	1
RTTY LOOP	1 1N2070/	0
CICI	4 2N3904/2N2222/1N4001/1N34A/	1
ACBEHATA	1 2N4444/	9
REEL	1 BNL787TD/TKAD508/HM10422-7/	3
HINTS AND	2 2N3866/SL6440C/2N5109/LM317T/7808/1N34A/1N4005/	4
NEW IDEAS	1 2N3563/GE61/1N4148/	2

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PRUP	1 COM20020/6801/ 1 ZPD1/	2 0
DENO	2 PPI8255A/AD7545A/AD711/74LS30/74LS32/74LS04/2N3055/2N1711/	9
APPLICATIO	3 OPA676/	3
WEEKENDER	2 MPF102/2N5486/1N914/1N4148/	1
COCO	1 UPD2803C/TLR321/TLRG101/2SC1815Y/152075K/0.5Z5.1U/	4
BUILD THIS	1 UPD411D/74LS157/3245/74LS153/74LS221/74LS107/1458/74LS175/	9
CQ REVIEWS	1 MPSA05/TIP112/MPSA92/2N5401/1N4006/1N914/ 1 OP07/ECG778A/ECG184/MV5054-3/OP231/PIN3DP/	7 6
FIRST STEP	2 MPF102/2N3904/2N2222/MV104/	4
DEID	2 MPF3821/LF347/1N4148/ 1 OPB710/ 1 MP1006C/EU200-01/EU200-02/MP1008B/	2 1 2
DEFE	3 OPA2604/OPA627/	3
FEAR	1 BP104/	0
COMMUNICA	1 OPA2111/BB3650/TL081/	7
IDDE	1 SPO256AL2/27C64/ADC0804/CD4520/LM386/4013/4093/7805/	8
DEFE	2 OP260/OP97/VCR2N/5082-2810/1N914/	3
FIRST STEP	1 MPF102/2N3904/	5
NUMEIM	1 XP4702/	1
BUILD THIS	1 MPF102/2N3904/2N2222/	4
TEUP	1 SP5000/PIC1655A/2N3904/	3
ANAC	1 OP260/OP97/5082-2810/1N914/	2
OTCO	1 IRF440/8510/C445/ 1 MRD300/ 4 XR2206CP/HY60/SI1020G/7812/7912/566/7824/741/1N4148/	2 1 3
IDDE	1 VRE135/2N4912/2N3054/2N2907/2N2222/	5
FEATURES	4 SRA1/MAR2/LM386/78L08/MPF102/MRF433/2N5109/2N3866/2N3906/	9
CIRCUITS	1 XR2240/LM317/7812/2N2907/1N4002/ 1 SRA1/2N5486/	4 3
APPLIED ID	1 XR2208/VFC100/	2
PAPERS	1 IRFZ20/IRF110/2N4014/10TQ045/	4
IDDE	2 IRFF9130/2N2222A/54HC04/	2
LETTERS	1 IRFP140/MPSA42/1N4006/	5
RTTY LOOP	1 XR2211/	1
RTTY LOOP	1 XR2206/276-2336/	1
PAPERS	1 PR1C/UV216/UV210/	4
STSOST	1 CS209/	1
CICE	1 MSM5832/8255/1N34A/1N4001/ 1 2SC3058A/	2 1
DEID	1 SSM2110/SSM2122/NE5534/TL072/2N3904/1N914/ 1 DS8629/MM5430/XAN352/1N4001/	6 2
BENCH	1 DS2224/1N4148/	1
BUILD THIS	3 SSI204/TCM5089N/MC34119/NE555/LM324/74HC85/74HC74/2N3904/	9
ENHANCING	2 SSI202/8255/74LS138/2N2222/1N4004/	4
CIID	1 LS377/	2
HAHA	5 LS3404/LS7314/MOC3010/2N6154/1N4004/	2
AUDIO	4 KT88/LM833/BF870/BC416/BC414/	4
DEID	1 LT1056/LT1102/LT1011/LM301A/LTC201/74C04/2N2369/LT1004/	7

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DEID	1 LT1017/LM334/74C14/2N2222/HP5082-2810/IN4148/	9
ARTICLES	1 ZTX653/	1
	6 LTC1043/LTC1013/LT1017/LT1056/AD639/LT319A/LT318A/REF6012/	8
FEAR	3 MTL788+/MTL702+/MTL705+/MTL706+/	1
IDDE	2 LT1072CN8/2N5401/1N5819/	2
DEID	1 LT1074/IRFZ44/MBR745/	2
DEFE	8 LT1223/LT1222/LT1220/LT1191/LT1122/LT1097/LT1097/LT1088/	9
DEID	1 LT1178/LT1034/	1
	1 LT1007/LM329/OP16/AD509/MC10131/REF02/SD212/2N5484/2N5179/	9
READOUT	1 LT1004-1.2/	0
DEID	1 LT1072CN8/LT317AH/IRFZ44/VN2222LL/2N2222/2N3906/LT1004-2.5/	9
DEFETEME	9 LT1115/LT1057/LT1056/LT1055/LT1037/LT1022/LT1018/LT1010/	5
	5 AT25A/2N5109/CP643/MRF323/MRF5174/SRA1H/2N918/LM747/2N1711/	6
	5 LT1056/LT1011/LT1001/LM199/LTC1043/LT319A/LTC1052/ELH0033/	9
	7 LT1016/LT318A/6012/2504/7474/LT1002/LT311/LT1012/74123/74S08	9
INMEHIENPH	1 RTC1501-FL/NE5534/ZTX320/99T309/BSR18A/BSR17A/J501/JPAD50/	8
	1 ZTX109/ZT+300/	9
RFDEAW	1 NTE312/BC548/1N4148/	5
	3 MV808/ADC-MA12B/LM741/SHM-IC1/74121/7407/7400/	5
	1 PVA3354/75LS138/	9
	7 MWA130/LM311/SRA1000/SRA1/SBL1/MRF134/MGF1402/2N5179/2N5109/	3
TEBR	1 PWM125/VNO600D/CTB34M/	4
FEATURES	1 MX1020/MRF911/ECG63/PN2222A/592PN2222A/1N914/276-1122/	4
NOTES	1 CX1585A/	1
APID	7 PXO768/CA3130/AD584/SW7510/MF10/SHC298/9400CJ/LF311/AD650/	9
	2 AY3-1015D/TL431/CD4060/CD4040/74LS74/4N33/CD4051/14433/	9
HIKI	1 3-500Z/	2
TECH TIPS	1 4016/4011/BC109/	5
RFFETE	1 10G021A2L/	1
BUILD THIS	1 4040/74C42/555/3195/UA4136/1N4004/1N914/TIS93/	9
APTE	3 4051B/2N3904/7406/74121/2N3819/	8
	2 1035A/AD7550/CDP1843/2708/CD4011/CD4050/1N914/4002/	4
FACTCARD	7 8038/4046/7611/7555/4011/4001/74HC00/VN66AF/2N5464/2G301/	5
FUN PROJEC	1 4017/2N4401/4001/2N2222/	9
	1 4011/	1
	1 80C51/AM79C30/AM7936/74HC373/74HC244/	5
	1 4046BE/LF351/ICL7660/BC547/BC109C/	7
PROJECT WC	1 40502/NE2/	1
ENGINEER'S	1 4017B/555/LM324/4093B/CA3140/BC184/1N914/	9
	1 308A/	1
FEATURES	7 80C85A/HA19216/81C55-5/74HC373/6264/27C256/5863/AD843/AD790/	9
DEID	2 4013BE/MOC3063/4069BE/BTA26-600B/BC109/1N4001/	8
	1 4081/4018/4026/	7
	4 40823/ICM7225/NSN874/7805/ICM7207/74HC4049/1N4148/	6
	2 2095/VC60/ML8495/1N4005/2N390L/1N914/	2
LETTERS	1 4060/4011/555/14526/	4
APPLICATIO	1 4060/7445/	3
	1 8088/HM6116LP3/2764/8284/LS373/LS245/LS10/LS00/74LS04/7805/	9
	2 8038/74121/759/HOS100/081/LM361/BC109/ZVN2106L/74F13/2N3053/	9

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INPOCOSYDE	1 8088/8087/8259/AM6112/AM6012/27128/	5
DEID	1 4046/UDN2952W/	2
FOREGROUN	3 8085/8279/8275/8257/8251/8224/8212/8131/2716/2513/2114/7474/	9
DEEN	2 10116/2N3013/MFOD403F/MFOE103FS/	2
REPA	2 307/SFC2101/SFC2741/2N2646/2N2905/2N1711/SFC475/SFC490/LH115	9
HANO	1 4040/4093/CD4031/IM4001/	5
	7 40673/7217AIP/IM5369EST/MC1350/CA3028/LM380/MC1458/CD4017/	9
	1 504/	1
DEID	1 4066/2N2222/	4
PROJECT	2 4018B/LM324/4093B/4066B/LM113/MPS6515/ICL7106/	5
PROJECT PA	1 4007/DS548/2N2222/OA91/1N34/1N60/	2
PRSP	1 4017/	1
WOVI	1 4017/4011/	2
PROJECT	1 4017/ICM7555/	2
NUEL	1 10G012A/10G012B/747/	2
	1 4020/74C04/	2
	2 8044/1N270/1N4001/MJE350/2N3904/2N2484/RS276-2010/	3
COMMUNICA`	1 4040/2716/74C150/74C374/4050/74C93/74C221/74C00/HP5082-7300/	9
FEAR	2 8031/2764/6264/74LS373/LTNZ11R10/74LS04/PN2222/1N914/	4
HARDWARE	3 711/740D/7420/710/74191/74175/2N2218/	9
HARDWARE	2 7109/AD590JH/8212/74LS138/74LS30/74LS04/RS276-1000/2N3904/	9
ORAR	5 S15K5/Z80/8255/74LS154/2732/	1
PAPERS	8 82C50A/8251A/AM26LS32/AM26LS31/DS26C32/DS26C31/MAX232/6N138/	9
APNO	1 M2064/74LS374/74LS244/	4
DENO	3 321A3/AD7510/74S113/74S133/OA1160/74S00/74LS192/74123/74S02/	9
DEEN	1 X2201/	3
APID	1 L293/LM339/ZTX300/	4
TECHNOLOG`	9 U267B/U247B/U237B/555/CD4017B/2N3906/2N3904/1N5235/1N4148/	6
APPLICATIO	4 8253/LM339/ADC1210/LH0022C/DG507A/UA723/LH0052C/74LS244/	9
	1 8255/DAC08/TL061/741/74LS373/	9
WOVI	2 32/10/08/04/00/25/	4
	4 12AX7A/7025/12AX7WA/12AT7/6CW4/E505-2.510U/V2A048XX/	6
	2 9310/9324/9322/9N74/9002/9016/2N5550/FD400/	9
BUILD THIS	2 J310/NE99/	1
	1 E304/SK3116/MC1350/CA3140/2N3904/1N914/	7
	2 7416/74LS174/74LS02/74LS04/74LS260/	3
RATECO	5 74HC4511/74HC175/74HC138/74HC02/D352PK/1N4148/1N4004/1N4001/	9
CODI	3 4469/74ALS05/74ALS161/7805/1488/1489/ADC0801/74ALS04/	4
NOTES	2 74LS373/74LS240/MCL2630/LS139/	9
HIKI	1 7475/GE228/	2
WEEKENDER	1 74HC04/	1
BACKGROUN	3 74LS266/74148/74123/NE556/7493/7442/7438/7410/	5
AIANCH	1 74121/7407/	1
LOMAFIDI	1 74LS688/74LS193/74LS123/74LS74/	8
LETTERS	1 74LS266/	1
CORRECTION	1 741/BD136/1N4001/	2
DESIGNER'S	1 7437/7408/7400/	3
	1 74LS244/	1
	5 748/CA3080/2N5163/CD4024AE/741/2N5210/2N3906/1N4148/2N3819/	9

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NOTES	1 7485/TIL311/74192/7404/74123/7476/NE521/	9
IC TESTBEN	1 741/74141/	2
PROJECT	1 7405/555/Y407N/2N2222/7407N/24N35/1N4001/1N914/8021/	5
	1 741/2N2221/2N995/	3
CIID	1 74LS670/74LS93/9368/7445/74LS30/74LS04/	7
73 REVIEW	1 741/1N4001/	1
	1 741/	1
BACKGROUN	1 74154/74LS151/82S23/555/7493A/7442/2N3906/2N3904/	9
DENO	1 74190/74144/74132/74123/7485/7475/DL707/DL701/	9
PROJECT	1 74HC922/MM74C922/74LS75/74LS00/	8
	3 7442/74S196/7490/40673/2N2222A/74S00/7473/74192/7475/555/	9
DESIGNER'S	1 74165/74S288/74174/	7
	4 741/7400/2N2369/SN7490/SN74121/DAC03/7488/SCL4066/	6
NEW IDEAS	1 7474/7411/7410/7401/7805/1N4001/	5
CICI	4 741/555/2N4360/2N2647/C106B1/2N3904/1N914/2N2222/	2
REIN	2 74LS02/74LS32/LS125/74LS260/5711/74LS15/74LS04/74LS08/74LS27	7
DEID	1 74C906/	1
	7 74C915/4048/555/4023/LM386/4011/2N3906/4068/4049/4075/	9
DESIGNER'S	1 74S192/7408/74121/7470/74S90/7404/7432/	8
	2 7404/	1
ENGINEER'S	2 74C14/CLM6000/2N3904/1N4148/74C08/	9
	1 741/2N2222/CA3089/555/LM386/	7
	1 14583/556/4026/2N930/4007/309/	8
EXPERIMENT	2 7490/7447/	3
	1 74LS138/74121/7404/74LS245/	6
	2 74LS367/74LS175/74LS123/LM339/MC14050B/	3
CICICE	7 74LS155/74LS139/74LS244/74LS157/4116/INS1771D1/CD4518/Z80/	9
CODI	2 7406/555/	2
SCIENCE	1 741/	2
ARTICLES	3 74LS193/74LS74/74LS27/74LS11/7406/74LS04/2N2222/1N914/	8
ENGINEER'S	1 741/AD7510DIKN/MPSU95/555/	5
BIT BUCKET	1 146818/1N4148/	1
	1 741/2N2102/1N66/	2
NOTES	1 74191/25S10/MJ10012/1N3015/	3
	3 74LS93/556/2716/74LS74/74LS10/7805/	7
NOTES	1 741/2S372/2SD79/2SB505/1S953/	9
SUPA	2 74174/74123O/74121/7474/7442/7439/7430/7410/7404/7400/	9
CICICE	2 74154/74100/7430/7420/7407/7402/	7
	1 74C163/74C162/74C85/	4
NOEX	1 741/	1
CCT IDEAS	1 74LS245/74221/74LS08/	3
HANO	1 74LS192/CD4029/74LS00/74LS85/74121/	5
ENGINEER'S	1 74175/TIL209/74LS08/	3
PROJECT	3 6402/74HC245/4024BE/4001BE/4017BE/4013BE/TLC555P/6N139/BC559	8
THINK TANK	8 74121/7400/4N26/4N33/LM3909/CLM3120A/7805/2N2222/2N3906/HT40	6
APPLIED ID	1 74LS14/Z80/74LS138/74LS174/	4
PROJECT	2 74LS85/BC184L/1N4148/74LS170/40103B/4555B/4093B/4520B/2N5210	6
DEID	1 74S124/BB909A/	1
FEATURES	2 74HC132/7805/	1

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	2 74LS273/TDC1021J/74LS175/AM500/74LS393/74LS244/74LS193/	9
SHORT PAPER	1 74LS138/7400/ADC82/	4
COMMUNICATIONS	4 74S139/74LS04/74LS11/74LS10/74164/8287/74S32/2148/74LS153/	5
CORRESPONDENCE	1 2416/74LS280/74LS138/3245/3212/5224/74LS76/74LS37/74LS00/	9
ARTICLES	2 74LS193/74LS191/74LS151/7407/OP01/SN74LS123/	4
ARTICLES	1 7490/74123/502CN/41EF/41BB/41CT/	9
CICI	4 1458/741/386/4001/IRF511/2N3904/	2
CODI	1 74LS10/138/74/	4
WEEKENDER	1 74150/555/74LS393/74LS153/74LS00/74LS10/	8
	2 741S/NE555/MOC5010/2N3439/2N5416/BC450/BC449/BDY92/2N2219/	9
IDDE	1 74C926/74LS367/4011/	4
GRAPHICS	1 74LS166/74LS86/74LS20/	3
	1 74LS157/74LS51/2N3904/	3
POSUBACH	2 74HC132/LP2950CZ5.0/LS3369EH/BAT85/1N4148/	2
TENO	1 C5149A/OP22/C5152B/C5150B/UTO1011/DS327/2N3811/	7
FACTCARD	3 555/E230/2N4867/2N3906/3140/3080A/MV5020/1N756/E113/2N4861/	4
TECHNOLOGY	9 555/4070B/4020B/4017B/2N3702/2N3055/2N3053/1N754A/1N4148/	4
CCT EXCHANGE	1 4558/	1
ETC	1 555/	1
CIID	1 4558/	1
	1 555/1N914/1N4001/	1
BACKGROUND	1 2513/MAN2/7493/75491/7442/555/	7
HINTS AND	1 555/2N2222/1N914/	4
SUPA	6 8530B/8255/MC68488/LM312/SHM-LM2/6349-1/555/MC3441A/8291/	9
CIID	1 555/LM324/BC182L/	5
HOCO	2 555/1N914/RS276-2007/2008/	2
SOST	2 555/MV5491/MPC900/	1
COAR	1 4538B/MOC3010/4050B/74LS00/LM7805/SC141D/1N751/1N914/	8
	1 555/7490/7447/	3
PRTE	2 0510-50/BY11/BY1-1/	2
	4 6522/8255/81LS97/74LS245/74LS136/74LS05/30/10/08/04/00/	9
	1 555/	3
FACA	4 555/4049/VN10KM/BC109C/2N366/	2
	1 555/276-1723/2N2484/276-2010/TIP29/276-2018/276-1102/	5
	1 5534/2N4401/2N4403/2N2905A/2N2219A/1N5314/	5
CIRCUITS	1 555/	1
	2 5532/7815/	2
LEED	1 4528/2N2219/	2
	7 567/LM383/386/555/TIL116/7414/7447/7490/7475/LM309K/1N914/	9
	3 7660/8085/TIL114/4069/40106/2N3704/2N3703/	3
	2 567/2N3905/CDG24/1N4148/1N4001/	4
CICI	4 567/2N3904/RS276-142/386/	4
CODI	3 16L8/74LS139/74LS138/74LS32/7406/74LS175/74LS10/74LS30/	4
COLUMNS	3 567/741/4066/1N914/	2
ASK R-E	1 276-1020/1N4002/	2
DESIGN	1 67516/67401/6309-1/PAL16R8/PAL16R6/PAL16R4/PAL12H6/PAL10L8/	9
TECO	1 276-041/	0
	1 6809/6821/74LS244/74LS373/74LS138/74LS783/6847/MC1372/	8
COMPUTER A	1 Z80BDART/8253/74LS138/PC900/74LS04/74LS10/7400/74LS30/	9

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DENO	1 7805/2N2222/1N5233/	2
COPOELTE	1 6809E/6883/6847Y/1372/	4
FEAR	1 Z8/AY3-1015D/2732/74LS374/74LS367/74LS244/74LS02/7400/MC1489	9
ASK R-E	2 386/741/	1
	1 686/74S00/2N5271/2N2222/1N4148/	7
RAFU	1 58/6D6/27/76/	3
IDDE	1 Z80/MK3880/MK3881/7474/74LS27/74LS08/74LS04/7400/	7
	4 68B09/68B21/DP8409/2716/HC157/74HC4040/TMS4256/HC373/LM309K/	9
	1 6850/6N139/74LS04/1N914/	3
APID	1 590KH7/LM311/741/	3
CQ REVIEWS	2 3904/CPPI1/1N914/NE555/	4
	1 R928/	1
	1 CA741CT/	2
DESIGN SOL	1 CA3140T/2N3970/MJE2955/2N2222/2N2905/MDA3504/MR851/1N4744/	8
POEL TESTS	3 CA3151G/CA3153G/2SC1685P,Q,R/	5
	1 CA3080E/	3
TEBR	1 CA3240/74LS74/74C86/74C914N/	4
	4 CA3140/555/7410/2N2222/1N4148/LM311N/MFOD2404/	4
	1 CA3140T/74S74/MH0026/TAD32/	6
PROJECT OF	2 UA741/GEL14G3/CD4011/	3
ENGINEER'S	1 CA3160/74C221/7226AEV/2N2222/2N2907/CD4049/	6
PROJECT	2 CA3130/LM301/LM3915/BD139/4066/1N914/	8
	4 SAA5020/PNA7509/74F374/PNA7518/ICL7660/LM318/LM393/ZVN0106/	7
	1 UA747CN/NE555V/2N2222/1N914/	9
	3 CA3086/2N5818/TIL220R/LM7905/LM345/LM340/LM3086/	9
DEFE	6 VA707/VA4708/VA4707/	1
	1 DAC1230/LM11CN/LH0024C/2N2907/	7
	1 UAF355TC/305-462/	1
DEID	1 CA3100T/	2
BUILD THIS	2 CA3162E/CA3161E/LM340T5/2N2907/FND507/FND510/1N4002/	9
AIANCH	1 CA3140T/UA7815/MJ410/2N6175/2N4871/1N938B/1N4007/45/NE2H/	5
CIRCUIT CE	5 MAN74A/74LS374/74LS154/74LS22106/LM359/LM324/74LS244/74LS04/	4
	1 SAA7210/SAA7220/TDA1541/TDA1542/	4
RFFETE	4 HA5004/HA2547/	2
	1 MAX7219/	1
ENHANCING	2 MAX232C/DS8922/78L05/	2
DEAP	2 MAX455/	3
	1 BAW62/4071/	1
	5 UA741/	8
	1 CA3179/MRF901/MV2201/2N5179/78L12/78L05/	3
	1 GA301/2N2222/	2
SOLID STAT	5 UA759/2N3695/2N3693/TL084/8007/IT120/LM319/LM318/LH0033C/	7
CIRCUITS	9 CA3140/1N4148/1N4001/2N3704/VN66AF/4011/4071/	3
	1 HA2539-5/	1
NOEX	1 TA7205AP/741/977/976/	5
	1 UA723/LM161/UA714/KULITE-LQL125-25/ICL8038/MMT3904/BAY73/	6
COAPNO	4 DAC0830/ADC0809/LM2917/LM741/CA555/74LS245/74LS241/8255/	7
DEID	1 UAF41/INA101/AD532/AD644/LM139/AD7512/	7
FILTERS	1 CA3130A/CD4066/	3

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APTE	1 UA709/	1
TENO	9 TBA950/72747/LM319/7490A/ZN1040E/74175/MC4024/74162/74121/ 1 6BH6/6BJ6/1N914/	9 2
COAR	1 MB88303/LM1881/CD4066/7805/2N918/	5
APPARATUS	1 BB204B/1N3713/	0
80AP	2 MCM68B16/MCM68B32/MCM68B64/74LS244/74LS245/8T125/74LS138/ 1 MC1733/OP07/HP10514A/	5 3
	1 MC14490/CD4041/CD4040/CD4027/CD4001/MJE520/2N2222A/1N4001/	9
EXPERIMENT	3 MC14553B/MC14543B/MM5369/4017/4011/2N2907/2N3906/2N2222/ 2 BC109/1N4148/	7 1
LEED	1 MC10216/	1
BUILD THIS	2 ICM7216B/11C90/NSB3881/2940/2N2222/ 2 MC6809E/MC6883/MC6821/MC6847/MLM339/MC14529/MC1372/	6 6
APID	1 BC107/1N914/	2
APPARATUS	1 MCA7/	1
PROJECT	2 BC549/BD140/TIL220R/TIL220Y/TIL220G/2N3904/2N4920/7805/	2
APSU	1 RC4260/311/	2
BUILD THIS	1 VC622N/AC0112N/2N3414/2N3638/1N4742A/1N4148/	8
APID	1 TCA991/	1
CICICE	5 MC14433/LM324/CD4053/CD4051/7474/7445/74LS04/1N752A/1N750A/	9
CORRESPON	1 HC741/	2
GEIN	1 BC547B/	1
TEME	1 ICL7106/LTD222F12/79L05/78L05/BS170/	5
RATECO	1 BC547/1N4148/	3
PAPERS	1 ICL8038/ICL8013/LM324/IN914/ 4 HC4052/HCUO4/HC4066/CA3450/CA3256/ 1 MC12040/	5 2 1
DEAP	1 XC2018-59/KDU3100A/XC1736/MH12808/	4
DECA	1 ICM7217/ICM7231/FEO204/4027/4002/2N2222/	5
ADIC	1 MC68302/MC145554/MC145474/	3
SENE	1 ICL7126/BC548/KTY81/	2
APSU	1 MC145488/MC145474P/MC145554P/ 4 ICM7217A/CD4066/CD4017/FND503/MM5369/CD4518/MPF102/DS629N/	3 7
CICICE	2 MC1408/1N751/	2
BUILD THIS	2 MC3363DW/MC2833/MC34119/MAX666CSA/74ACL11132/MPF6660/1N4758	5
TEAN	1 MC145488/MC145554/MC34129/MC145474/	4
FEATURES	1 TCM3105JL/74LS123/78L05/2N3904/1N914/1N4148/1N4001/	6
AUPR	2 6CA7/2SK135/2SJ50/BDV65C/SSM2210/MPSA42/1N5404/	6
ADELSY	1 VC7695/	1
CIID	1 BC214/BC108/ 2 SCN68454/SCB68459/74LS244/74LS374/74S124/74LS373/74LS245/ 2 ECG4047/ECG4043/ECG4024/ECG956/ECG2315/ECG5304/ 1 BC157/BC148/	4 6 4 4
DESIGNER'S	1 MCT26/LM301A/1N5232/1N914/	2
FOREGROUN	2 MC14512/MC14514/MC14049/SN7492/SN7490/SN7427/SN7400/HEP3024/	9
COAUMECO	2 MC3487/74LS374/LS266/LS02/1N4002/	7
FEATURES	1 ECG109/IN34A/276-1123/ 1 MC1458/1N4003/ 1 BC107/4066/	0 5 2

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	1 TDA7000/2N3904/	2
IDEAS FOR	1 AD544JH/AD534JH/AD741/AD536JH/1N4148/	4
	1 ADC808/723/4049/4001/	4
IDDE	1 AD9696/OPA633/OPA627/2N3904/1N4148/1N4001/	6
	2 ADC831/MC14469/MC14556/MC14051/MC14024/MC14077/MC14599/LM311	8
CONSTRUCTI	2 AD533JH/LM339N/TIL220/TL074CN/AD530J/2N3104/RC4195NB/1N914/	7
APPLIED ID	1 AD539/1N4148/LF353/AD582/2N3702/J113/AD509/	7
RATECOPR	2 TDA8708/TDA8702/1505-5B/	3
PAPERS	2 ADC-MA12B1B/AD43K/DG508/DG302BP/9602/7493/7486/7474/7400/	9
APPLICATIO	2 AD639/AD654/AD611/1N4148/	5
RATECO	5 TDA8440/TLC271/4013/7812/B80C1500/1N4148/	2
BUILD THIS	2 TDA3810N/78L09/1N4001/	2
	1 CD4017/CD4049/	3
DEID	1 AD630/	1
	3 AD520JD/748/AD540JH/DG200AA/74C163/74C74/74C73/74C42/74C04/	9
DEFE	9 AD565A/LT1220/LT1194/LT1193/LT1192/LT1191/LT1190/LT1019/	9
ARTICLES	2 ADC0820/DAC0830/LTC1064-1/R928/CA4140/OP37/OP07/2N7000/1N914	8
	2 AD741J/AD537JD/AD741CH/1N4148/	2
PROJECT	2 CD4511/CD4518/CD4093/PS2501/7824/7812/1N4007/	9
BUILD THIS	2 RD5106/LM324/4011B/1N4742/	6
BUILD THIS	1 HD6850P/74HC688/74HC393/74HC245/74HC138/74HC04/74HC00/TIL111	9
APNO	1 CD4018AE/CD4011AE/2N4443/2N2907/2N2222/1N4153/1N4007/1N4004/	5
NUEL	2 AD5539/	0
	3 CD4046/555/741/CD4013/CD4001/BC182/BC142/	3
NOTES	2 AD534KD/LM348/LH0041/LM7815CT/LM7915CT/CB1201/CB1101/	6
POSYRECO	1 AD630/	1
BUILD THIS	1 CD4093B/1N4148/1N4001/1N914/	1
BUILD THIS	2 TDA2822M/LM567CN/NE555/MC14011/78M05/HLMP1503/HLMP1400/1N914	5
	1 ADC-H212BGC/DG181/74123/LM111/74LS161/74LS244/LH0033/LM110/	9
	1 CD4066A/LM741/CD4046B/CA3080/LM555/2N3055/2N3054/2N3053/	9
	1 AD7570/MOJ2659/MOL2638/	3
APID	1 CD4093B/CD4518B/CD4511B/IN914/ZTX300/OA47/	6
TENO	2 CD7217C/NSB5882/74LS221/74LS32/74LS21/74LS37/74LS11/1N914/	8
RATE	3 TDA3505/TDA4565/TDA4660/TDA4510/TDA2595/HEF4528/7812/BC549/	9
ARTICLES	9 ADC00403-203/74LS166/LF356/TL074/TL072/7493/4001/4N28/4066/	4
HANO	1 HEPZ0438/	0
DEID	1 NE5060/NE522/	2
	4 NE565/74161A/74154/7485/7475/7474/7420/7400/741/BC461/BC108/	6
	4 NE5521/LF356/LM311/	2
BUILD THIS	1 NE5532/VTL5C4-2/1N914/	2
BUILD THIS	3 NE5534N/CA3260E/CA3193E/TL074/CA4011BE/7915/7815/1N914/	7
BUILD THIS	1 NE577/LM386/LM78L05ACZ/	3
DESIGN ENT	1 NEC7220/74AC245/74AC257/74AC374/74AC194/74AC163/74AC395/	9
CIRCUITS	1 NE555/	1
DEEN	1 PEB2060/PEB2050/8051/	4
	1 NE555/276-1723/	1
	1 SE555/MC1455/2N6649/2N6384/1N4001/1N914/MJ1000/MJ900/	3
	1 NE570N/2N3904/1N914/1N4001/	8
	9 NE602N/LM2931T/SL6310DP/MC1590/NE5230N/MPF102/MPF106/MV209/	3

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	1 HEPS0015/741C/	2
BUILD THIS	3 NE5205D/	2
	4 NE531/741S/DAC0800/AD670JN/LF398/HN27C64G15/HM6264LP15/	9
HAHA	1 NE5520N/	1
	1 HEP801/	1
NOTES	3 NE566/7476/7486/74123/7404/7402/7432/2N3905/2N3904/IN914B/	6
	1 NE5534AN/TL071/	4
TECO	1 NE5514/	2
	1 NE555/307-913/2N3053/IN4148/	3
HAHA	1 NE604/NE532/	2
	3 NE555V/MC4024/XC209R/LF353N/LM3046N/2N3392/LM340T5/1N4733/	8
RFDEAW	1 NE605/TLC27M2/MPS3563/MV104/	6
RFFETE	1 BFP81/BB811/	2
	1 LF351/	2
LEED	1 LF398/MC14066B/	2
DEID	1 LF356/	1
	1 LF356/	3
RF OP AMPS	3 HFA0002/HA2547/HA2546/	2
TENO	1 MF10/XR2206/CA3290/HA4741/AD521/CA3140/UA714/AD7523/CD4046/	9
NOTES	1 TFM3H/2N2904/IN914B/	2
	1 BFG33/MSA0585/	2
DESY	1 BF992/BF569/BF520/2N3906/2N3904/BA5795/BAT17DS/	7
	1 BFY90/MPS3640/BAY38/	2
REPA	1 LF356/LM319/LM310/OP05/74LS373/74LS163/74123/9602/7474/7402/	9
NEW IDEAS	1 LF411/1N4004/	2
	3 LF357/SS30/BPW33/BAY42/ZX27/1N4148/C30822/VN66AF/BF224/	2
WEEKENDER	1 MF5/	1
	2 EF9364/6821/6809/I2716/2114/LS273/LS245/LS244/LS240/LS165/	9
DEID	1 LF347/	1
PAPERS	3 LF357/74LS373/74245/74ALS138/2222/	6
IDDE	1 LF351N/DH3725/DH3467/	3
	1 DG540/DG538/DG536/	3
APPLICATIO	4 DG538/SI581/U430/BC441/1N4148/	4
CIID	5 SG2001/BF494/BF199/BC549B/1N4148/C30921/BF337/BSTCC0146/	3
	3 LH0024/MTP2N45/CA3100/LD4611/BD135/BPW34/	4
DENO	1 CH1810/MC6860/CH1262/CH1230/4011/1489/1488/	7
	2 MH89790/MH89500/MT8995/MT8994/MT8940/MT8930/MT8920/	5
	1 LH0032/LM161D/74121/DS14891AN/7476/7405/7408/7400/	9
	1 IH6201/7432.IH401/LH0042CD/741/	5
SCIENCE	1 LH0024/ADLH003G/	2
APPLICATIO	1 SI9100/1N5819/IN4148/	1
	1 TIP126/TIP121/748/	3
	2 TIL209/TIL212/TIL232/7400/7425/7402/	2
	1 TII262/	0
ARTICLES	1 NJM2209S/HCPL2631/LM306/78L05/LS05/	5
HANO	1 SK3004/HEPG005/SK3122/HEPS0015/SK3144/HEPS0032/HEPZ0215/	3
	1 MK68000-10/74F244/74F521/74F138/MK4856/74S74/74F08/74S04/	9
HIKI	1 SK3444/ECG288/1N4005/1N4001/	2
	9 TL084/LM380/MV104/2N5640/MC12040/MC12002/LF356/MC10115/7912/	9

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	1 TL081/HEF4066B/	6
IDDE	1 TLC277/74HCT132/74HCT74/MC1404/HP2833/1N4148/	4
DESIGN	4 TL071/79L15/78L15/2SK346/2SJ102/ZVP0106A/ZVN0106A/BC212/	8
	2 SL60745/2N3553/2N697/DTS430/	3
CIID	1 TL071/TL072/TL073/	2
	4 SL623/SL611/1496G/NE527/3130/741/9324/74LS164/74163/74161/	9
	1 TL084/	1
	1 TL064/4066/	2
DEID	1 EL2130CM/	2
	3 TL072/RA53/7815/7915/	3
	2 TL081/MPF111/IN914/	2
DEID	2 CLC420A/BSX19/MFOE1202/	2
	1 ULN2283B/UM3482A/TIL914/2N2222/555/1N4148/	5
PROJECT	8 TL072/LF353/2N6123/2N6134/2N6109/2N6123/2N5269/7815/7915/	9
HALF FILED	1 LM339/	5
	3 LM324/4022/4028/4012A/4070B/1N4148/	3
DEID	1 AM685/CA3140/1N4148/	2
	1 LM733/	3
HOMING IN	1 LM2941CT/	1
COMMUNICA	2 LM311/LM324/74LS390/74LS380/74LS160A/74LS74/	5
DENO	1 AM79C12/MC6803/74373/74138/14411/1489/1488/	7
IDDE	1 LM324/	2
TURE	1 LM747/	1
FEAR	4 TMS320C10/ADC0844/MX7224/2732/PAL16R4/TL072/LM7805/2N2222/	6
	1 AM685/	2
SHPA	1 LM74CN7/MFW10/HFW10/1N914/	6
FEATURES	1 LM358N/LM386N1/4066BE/4001BE/2N2222/570V130LA1/570-1N4739A/	9
ASK R-E	1 LM386/	1
NEW IDEAS	1 LM3914/2N404/	3
	1 IM6403/ICL7660/74HC4040/74HC138/2N3904/74HC32/74HC02/4503/	9
	2 LM3915/CA3130/LM301/4066/TIP29C/1N914/LD80-2/BD139/	8
CCT SUPPLE	2 LM13600/TL084/TL082/7815/7915/BC214L/1N4148/LM14600/	5
	2 LM339/TL507C/741C/	3
	1 LM3914/MV57164/	2
	3 LM301A/741/	1
	2 LM380/555/2N2222/276-116/1N4148/7815/7805/	9
CIRCUIT SU	1 LM317MP/LM337MP/1N4001/	6
CIRCUIT ID	1 LM3914/BCY88/BC337/	2
DENO	1 LM386/	1
	1 LM386/276-1731/2N3055/276-2041/1N4007/	2
	1 LM3914N/1N914/741/	2
RFDENO	1 UM9301/	0
TEUP	1 AM79C83/AM79C82A/AM79C81A/AM7984A/	5
	2 LM566/MC1458/276-038/LM324/2N2222/276-2009/	3
BUILD THIS	2 LM318N/CD4053/2N3906/2N3904/1N914B/	9
TENO	2 LM725CN/BCY70/IN4148/	2
CICI	7 LM567/4093/2N3906/2N3904/1N4003/1N914/	2
	3 LM3914N/6AU6/4013/4011/1N4002/	2
	1 LM124/HCF4047/	4

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	2 LM399A/LM343/714/3140/1701/	5
SPFE	1 AM2130/8284/74138/	5
NOTES	1 LM733/LM311/74C107/2N3704/2N5206/FD777/1N4148/	5
RFEN	3 LMX2216B/LMX2215/LMX2320/LM3220/LMX2410/LMX2240/	3
	3 LM393/CD4093/ECG4082B/276-2009/276-2032/2N3906/2N3904/	4
	5 LM386/NE602N/MC1350P/2N2907/2N2222/14001/	2
	1 LM567/LM324/1N4148/	2
DEAP	3 TMC2310/CY7C128/CY7C150/74LS157/74LS161/74ALS377/THC1202/	9
CIID	1 SMP60N06/IRF531/2N2907/2N2222/HLMP8104/HLMP810/	6
	4 LM386/C945/C710/1N60/MPF102/2N2222/1N914/	3
INMEHIENPH	1 AM685/A132/72747/2N5194/2N2907/MPS2369/2N2222/HP2900/ZF6,8/	9
ASK R-E	1 LM386/2N3638/	2
PAPERS	1 LM317/2N3439/2SD1168/2SD1163/1N4007/	9
DESIGN SOL	1 LM393P/2N2907A/1N914/	3
	2 AM7911/8051/AM8212/	4
	3 LM324/	1
HOME-BREW	1 LM393N/CD4007/1N4148/	2
BUILD THIS	3 UM1285-8/2N2222A/2N3906/1N914/1N4002/LM7805T/	9
DEID	1 LM324/	1
IDDE	1 LM339/	1
	1 LM3080/MC14575/2N3906/OP07/	4
FEATURES	2 LM380N/78L05/1N4005/	1
	6 VMP4/MPSU56/CA3045/CR200/CR470/2N2222/VMP1/SN7401/4009/	9
SEMICONDUCT	6 AMP01/OP15GZ/LM339/J107/J110/REF02/741/	8
	1 MMCM3960/	2
COAUMECO	1 LM733/EF8308/6012/	3
	1 AM29331/AM29334/AM29332/AM29323/29C101/	5
	1 LM3914/276-1707/	2
LETTERS	1 LM339/	1
DATA SHEET	1 LM1201/LM2426/	2
INMEHIENPH	6 AM687/EF8308/SP9685/LH0032/CD4051/MC1650/LF356/10231/10216/	9
	1 LM1881/TL074CN/TL072CP/ZN426/HCT574/HCT4040/HCT04/HCT02/	9
	3 LM324/MPF102/BC177/BC107/MC10131/	5
	3 LM308/MJE253/2N3811/IRF530/IRF9530/MPS8599/MPS8099/U235/	9
FEATURES	3 LM324/2N5179/2N3866/MPS3563/MV2109/1N4735/	6
	1 4N33/	1
	1 1N914/	0
LETTERS	1 2N3391A/2N3904/	2
FEATURES	1 2N2222A/	1
	1 1N4148/	0
COMMENTS	1 2N3819/	1
	5 INS8250B/LS245/LS157/LS280/LS11/LS00/LS155/LS85/LS244/LS02/	7
	1 2N3055/1N4005/1N4740A/1N5240A/7815/	2
	2 2N2907/XC5491/	5
DEID	2 INA105/2N3906/2N3904/	3
WHAT NEXT?	1 ZN414/2N2222A/	2
	2 2N3877/0A2/1N541/6GX6/12BZ6/12AX7A/12BA6/6AQ5/	5
BASIC AMAT	1 1N34/1N914/276-612/	0
HOBBY SCEN	1 1N4001/	0

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	2 SN75489P/TL489/	7
CIRCUITS	2 6N137/6N138/6N139/74244/74LS244/7408/7432/7414/7805/1N4148/ 1 1N914/	8 0
PEREPA	1 1N914/	0
DRBO	1 2N2222/	1
XRDI	1 1N5406/ 1 ZN416E/	0 1
	1 2N2222/1N4148/	2
IDEX	1 2N4401/1N914/	1
EMTE	3 SN75518/8751/TL5812/74LS273/74LS125/CD4069/LT1171/FIP32D6R/	3
CIRCUITS	1 1N4001/	0
FEAR	2 2N2222/	2
BAEL	1 1N34/	0
APID	1 SN7473/SN7486/SN7450/SN7400/ 1 INS8080A/DP8224/INS8250/DS1488/DS1489/DP8228/DP8238/ 2 2N5087/2N5210/	4 6 8
FEATURES	1 2N3904/2N4124/2N2222/	2
FACTCARD	2 2N5777/BC179B/BC109/BC107/BFY51/ 3 2N3738/OB2/1N4002/2C39/2N6424/2N2219/2N2222/1N914/	4 6
LETTERS	1 2N2907/1N914/ 1 2N2222/74S86/1N6263/1N4148/	4 4
SINO	1 2N690/ST2/1N4001/1N1206/ 3 ZN428/ZN448/4528/4066/4068/4001/4069/4049/4515/74C373/4013/ 2 2N2222/2N2219/1N34A/LM340-12/1N4007/ 2 ZN428/LM392/4515/4013/4001/4069/74C133/	1 6 3 5
NOTES	1 2N5089/2N5087/2N4958/2N3645/2N3643/2N3571/FD700/1N4446/ 2 VN46AF/2N5771/MFOE107F/HPIN700L/LM733/	9 2
HANO	1 1N4001/ 1 2N3904/	0 1
DECA	1 SN5474/SN5432/SN7408/	3
HAHA	1 2N6565/1N5238/1N4740/	1
EXPERIMENT	3 1N3831/1N3846/1N3821/	0
SHPA	1 1N4733/	0
FEATURES	1 1N914/1N4148/	0
HINTS AND	1 2N5139/NE555/1N4001/ 1 SOC71/MFOD200/1N4005/	2 2
DESIGNER'S	3 MOC3010/2N3638/4049/LM741/	3
ARTICLES	1 SO100-1000-.55/MAR4/OP27/LF356/REF02/LMX3/1N4739/ 1 MPF102/LM741/LM1458/LM380/1N914/	9 4
NOTES	3 OP37/HA22505/3300/6N137/AD7524/AD509/LH0002/74LS163/74LS123/ 1 OP421/ 1 OP37/OP02/2N6437/2N6338/2N5191/1N4005/2N5194/	9 1 9
CIRCUITS	1 MPF102/1N914/ 1 MPF102/1N34/	1 1
FEATURES	2 HPC46003/DAC0830/27C512/27512/74HC373/HCP2730/LM324/ICL7660	8
ARTICLES	4 UPD3575D/CA3160/74HC163/74LS125/74LS123/74LS73/4013/4011/	9
PRUP	1 MP7224/	1
NEAPTE	3 UPD7261/74LS374/74LS153/74LS139/7406/75110A/75107B/74LS624/	6
STINDO	2 SP9680/1N4148/	1

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	1 MPS-A13/	1
	1 HP5082-3077/LE5407-4/M-A-COM47120/567/	1
	2 FPD15U51JT/PDCO311FC/	0
DENO	2 XR2206/RC4136/	2
	1 XR8038/	1
FEAR	3 IR3C02A/ICL7660/276-13/4024/4069/LT1022MC/LM7805/IRF530/	5
FEATURES	1 IRF511/276-2072/276-562/1N914/276-1122/	1
NOTES	1 MRF904/1N914B/	2
COAR	1 XR2206/CD4538BCN/CA3140E/LF353N/79M12/78M12/2N4401/2N2907/	9
COAR	2 XR2211/4049/4009/7805/1N4002/	2
	1 IRF352/IRF640/MUR1616/1N1203/	1
CODI	1 XR2211/XR2206/LM386/4049/2N2222/	6
DEID	2 IRFD120/IRFD9120/IRFD110/	8
SUPA	1 IRF432/TL084/7511/	3
HIKI	1 2SC735Y/ECG289/	1
	1 RS2011/RS2021/	1
	5 MSM6912/LM380N8/MSM6258GSK/74C922/4098/40175/41256/ICL7660/	9
IDDE	1 ISO120/INA105/1N4689/	2
COPA	2 LS193/LS157/LS154/LS47/LS14N/LS04/VN0106/2N3906/1N4148/	8
FEATURES	1 ISD1016/ISD1020/ISD1012/TLC555/7805/2N3906/2N4403/2N3904/	5
	1 6SJ7Y/VT116B/	1
APPLICATIO	3 SSM2134/SSM2120/SE555/NE555/	2
HANO	1 1SV53A/	0
CRDIAR	3 LS393/LS138/LS123/LS116/LM306/74LS51/LS85/HCPL2630/TLP552/	9
ARTICLES	1 2SC2566/2SA1095/2SC2240/2SA970/MJE172/MJE182/	9
ANRA	1 6SK7/6SQ7GT/41/	3
	4 LTC1099/8253/74LS688/74LS393/74LS373/74LS245/74LS244/74LS154	7
APID	1 ZTX313/	4
	4 LT1008/LT1012/LT311/LT301H/LT107/LM329/LT1004/	3
PRUP	1 BT101/LM385/	1
DEID	1 LTC1043/LT1022/BPW32/	2
DEGU	9 LT1022/LT118A/LT1010/LT1056/LT1055/LT1012/LT1013/LT1018/	9
DEBR	3 LT1193/CA3140/	1
PROJECT	1 EU2030/LF353/LM307/CA3080E/LM307/1N914/	5
RFDEAW	1 MV1401/	0
	1 6V4/	1
TENO	1 AWM1272/LM372/LM380/MC1500/	6
	1 CX1535/	0
	2 AY3-8910/YM2149/7407/LS02/LS04/LS05/	3
	1 C-V7PC8-17/74L504/25D1031/IN5404/	9
CIRCUIT ID	1 4068/4040/4013/2N3906/2N3904/	6
	1 8049/SAA5070/SAA5050/SAA5020/74LS83/	5
PROJECT	3 40106B/FND357/MPS6515/2N3905/4011B/4093B/4070B/4049B/1N4148/	4
	1 4017/4001/IRF511/276-2072/2N3906/2N3904/1N914/	9
	1 4093B/1N4001/1N914/MM5369/MC14538B/	3
	1 4052/LM13600/	2
DEID	1 10170/10141/10104/10109/	8
	1 8085/8275/8255/2114/2716/4016/	3
	3 40673/2N4093/2N5829/2N2955/	1

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	1 4051/4029/555/4011/2N3904/1N914/	7
	2 4060/4040/2N2222/	3
CCT SUPPLE	1 4060/4093/BC182/1N4148/	3
PROJECT PA	1 4017/555/DS548/2N2222/1N4001/	3
	1 4093/4013/1N751A/7805/091/1N4006/2N3904/	8
APID	1 4040/LM381/4093/BC109/BC107/	5
THINK TANK	7 40174/7555/324/4013/MOC3010/LM317/2N3906/2N3904/RS276-142/	2
NEW IDEAS	1 4017B/LM386/4001B/4001B/	3
	1 4017/555/1N914/	6
CICI	4 4066/4049/4017/4011/IRF511/2N3055/2N2222A/1N914/	9
CIID	2 4059/MC14516/4028/2N3706/4049/1N4001/	6
	1 50J/1N914/	1
PAPERS	2 4046/4051/74190/7490/7486/7404/	6
CIID	1 4001B/BFX30/	2
COME	1 902-2/	0
CIRCUIT ID	1 4015/4077/555/	5
TEFE	1 5082-0008/	0
	1 4093/4013/4020/BC307/BC237/2N6015/2N5825/TIP31/1N4001/1N4148	9
CIID	1 4047/1N914/	1
	1 306-960/LM308N/LX1440A/V5R12-12/OA202/OA47/	5
	1 8038/347/LF412/4027/LF13333/MC14521/1N5234/	8
ASK R-E	1 4018/555/MOC3010/ECG5624/	4
	1 4046/4093/BC109C/4024/78L12/IN4148/TIL209/	6
	1 4011/2N2102/2N3904/311/3500/LM136/IN4148/	8
	1 40J/741/	2
	1 311/DG303/741/	3
	3 316/302/7413/7407/301/741/MCT2/7812/309K/ECG183/1N4001/	7
	1 H11J/555/276-1001/	3
CIRCUIT ID	1 J112/BC107/LM317/	3
CIID	1 3140/9400/555/2N3906/1N914/	4
BUILD THIS	3 7107/555/324/AD590/723/LM329/LM334/741/RS276-2017/7805/7905/	9
	1 7129/OP07/9491/	6
NEFR	1 112-503JAJ-B01/	0
NOTES	1 6116/74LS374/74LS193/74LS83/CD4040/	9
	2 3130/S124/LS123/74HC04/DS0026/VQ7254P/ZTX451/ZTX500/1NF314/	5
	1 3140/466/741/ADC7126/1N4148/	7
	1 4136/	3
	1 8155/LF13201/4N29/LM386/74LS164/2N4401/	8
NOTES	1 3140/OP07/	5
	1 R1294U/	1
TENO	1 H11L1/IN4148/	4
INMEHIENPH	1 R1250/	1
	1 C106B1/741/555/2N3904/	5
ROBOTICS	7 311/74107/2N6037/MC14553/8253/8254/75452/TIL78/TIL32/74244/	8
NOTES	1 L144/4093/2N4416/2N4401/1N4154/1N3595/	5
	2 B109/D172N/D100/SF127E/1N903/GA102/	7
	5 P203/1N3062/10137/MK5009/TIL306/93448/LHOO32/AD311/1016J/	9
BENCH	3 92915T-DD/92915R-HS/MAX232/2N3904/7805/	4
	2 A2792/BU105/	1

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READOUT	1 L297/L294/	2
IDEAS FOR	1 324/4152/	3
	3 12AX7A/5651A/6CL6/1N4007/115N060/	2
	1 8291/8292/	2
	2 12BA6/6BA6/1N34/	1
	2 6270/MSM5204RS/ALP4B/MSM5218RS/4024/6821/LM386/4013/74LS139/	9
FEATURE	5 8255/MCT66/7447/74LS00/74LS04/7812/7805/2N2222/1N4001/	7
DETECTORS	2 R2404/R2496/	1
	1 224/227/	3
	1 723/741/1N4002/1N4007/BU205/BC147B/	6
	2 8255/74LS00/2N3904/2N3905/1N914/LM317/IN4001/	5
PAPERS	1 3240/1468/4066/7905G/7805G/PM691/4049/	6
NUEL	2 733/1N3064/	1
	1 J300/BC109/	5
PROJECT	2 D30/276-036/	0
	4 339/733/337/2N3906/4532/7555/74C374/1N34A/	5
CICICE	6 7412I/2N2222/2N3055/2N2646/2N688/1N1200/741/1N4002/L1F4/	6
	5 74S240/LS375/S175/S74/S373/S00/S241/S288/S374/S181/	5
	1 747/741/566/393/200/	8
APID	1 741/	2
PAPERS	1 741/2N3055/	3
	1 74121/565/710/7492/531/741/BC147/OA91/BC157/	9
	2 74174/74175/74156/74123/74197/74193/8095/	9
	2 145156/8793/J309/MV109/4067/4419/4510/74C83/4516/4520/4060/	9
	1 74193/LS7210/555/74121/	7
CIRCUIT SP	1 74LS367/74LS125/74LS00/74LS02/74LS30/SPO256A-AL2/	5
	1 741/	1
	1 741/1N523/2N2222/7805/1N914/	7
PROJECT	1 74C926/74LS132/74LS04/2N3904/74LS390/74LS221/MC14046B/	9
TIPS & TEC	1 7486/2N3055/1N4001/	2
PROJECT	3 74LS160/74LS73A/7805/74LS27/74LS00/74LS42/74LS04/74LS390/	9
LETTER BOX	1 741/	2
	1 741/710/CD4016/	5
DENO	2 741/IN914/	1
RESEARCH A	1 7474/741/311/	5
BUILD THIS	2 145028/2N2222/145026/	2
NEW IDEAS	1 741/2N3904/1N914/	3
	2 74154/7493/555/7474/74151/7475/7408/7404/7420/7400/1N914/	9
PROJECT	1 741/555/ZTX300/2N3904/1N4001/BZY8810V/	4
	1 74393/74121/7474/7400/7404/7451/74128/7420/	9
DEID	1 74HC164/ICM7555/74HCB6/OZ16-52/	5
NOTES	1 741/ST222/	5
HIKI	1 7400/1N914/	1
PAPERS	1 741/BC109A/OP160/OP500/OA2202/BZY88-3V/306-077/306-083/	3
	1 741C/BFW10T/SL100/SK100/	4
	2 1424/1425-02/74153/74123/74LS93/7490/74LS74/CD4040/7414/	9
AIANCH	1 741/7400/2N2222/	3
INFI	1 741/2N3819/	2
CIID	1 7486/7400/	3

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TEME	1 74HC4040/BC547/1N4001/	2
ARTICLES	1 741/PAR113/	2
	1 741/383/	3
	2 7407/SAA1027/RS300-237/	1
ABBE	1 1458/LM723/2N2222/1N4001/	3
PAPERS	1 1476/	1
	1 741/BC108/TIP121/AA119/	4
	1 74C14/2N2222/1N914/	2
APNO	2 74121/7493/7490/7474/7404/7805/IN4001/	7
COPA	1 741C/740HC/3132/2SD111/	5
ELECTROPHC	3 74HC4059/74HC164/TLC272/74HCU04/78L05/1N4148/	4
IDDE	1 74HC194/74HC132/TIP125/1N4148/1N4004/	6
PRMO	2 741/2N2222/555/	2
PROJECT 80	1 74LS00/74LS32/74LS157/276-041/7400/	4
ENGINEER'S	1 7473/7490/7410/	6
	7 74164/74148/555/7493/74138/7400/7430/74123/7413/7404/TIP31A/	9
	3 741/1458/311/4013/4016/1N914/C30808/	3
APTE	1 740/BC547/BU205/HP5082-4350/BU127/	5
PROJECT	1 741/2N6386/1N4001/	2
NOTES	1 74LS05/4N26/2N2222/	4
DENO	1 741/LM7805/BD140/BD139/	4
COPA	2 741/555/2N3055/2N2222/	4
COPA	1 741/MC14528/MC14066/	9
	1 741/AD590/	2
APPARATUS	1 74S74/74S140/7805/2N3866/1N914/	5
	4 6402/4040/4013/317L/7805/BC109/4093/4520/4001/1N4148/1N4001/	6
PROJECT 80	1 74LS157/74LS32/74LS00/74S00/276-041/	5
	1 74123/1N4148/2N3019/BC107/	6
PROJECT OF	2 741/	1
	3 747/74123/2N4416/2N4250/2N4275/2N3053/2N4036/2N3440/741/	9
DEAP	1 74L164/NE5018/74LS00/IN914B/LS04/	6
	1 348/741/BC337/TIP31A/ORP12/	4
FEATURE	4 741/555/2N2222/1N4001/	2
	3 741C/RS276-145/RS276-143/LM339/1N914/1N4148/	3
DEID	1 74HC4046/74HC590/74HC74/LM319/2N2222/1N914/	6
DEID	1 74139/7476/7409/	3
MENUSP	1 74H08/2N5770/1N914/	5
	1 741C/	1
	1 741/SHM-LM2/74121/74191/AD534/IC8BC/	9
	1 741/2N3904/1N914/	3
THINK TANK	9 741/556/555/LM339/4066/4017/4011/RS276-1662/2N3906/2N2222/	3
IDEAS FOR	1 74LS153/74LS76/74LS00/	3
	1 7400/	1
NOEX	1 741/	1
	2 1489/1488/2N2222/1N914/	2
	3 74374/74367/74324/74197/74191/74175/74174/74161/7485/7474/	9
NEW IDEAS	1 741/	1
APID	1 74192/7442/	2
	2 747/TL081/LH0094/8038/AA132/BF245/BC161/BC141/LM308/ICL8069/	9

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	3 74190/7475/7447/7476/7408/7414/7490/74123/	9
	1 741/41A11/	5
COAR	1 74C14/4007/BC558/SK3122/ECG123AP/BC337/SK3124A/BC327/SK3466/	8
DATA FILE	9 741/3140/1N4148/	2
	1 741/SK3100/	1
BUILD THIS	1 4508/4017/4011/1N4001/1N914/5082-2835/	7
HIKI	1 555/7474/7493/	4
	1 3554BM/LF356/AM1435/ADLH003CG/	6
TECH TIPS	1 555/741/CA3080/	3
	1 555/	1
TECHNOLOG`	9 555/2N3704/1N4148/1N4001/	3
PAPERS	1 4558/CD4514B/	2
	1 7555/CA3059/ZTX300/4001/	4
	1 555/1N914/	1
	1 555/2N3638/1N914/	2
	1 556/	1
	1 555/2N3643/	2
	3 7555/LM386/4066/4011/2N2907/	3
	2 555/LM339/LM334/74LS02/1N4001/LM336/	9
	1 555/	1
CICI	3 555/CD4017/7493/74154/7473/2N3906/2N2222/	6
DEID	1 555/7490/7474/7404/7400/2N2222/2N904/2N3055/1N4001/	9
	1 555/276-1657/	4
PROJECT	1 555/4001BE/BC549/2N3904/BC327/2N5819/BC559/2N3906/	9
RF LETTERS	1 1517-25M/	2
DENO	2 4528/4013/4011/B40C1000/B80C3700/BC547/1N4148/	7
	2 555/276-1723/ECG5693/	1
PROJECT	1 555/4017/IRF511/2N2222/	9
CIID	1 4528/4011U/	2
	1 356/311/7408/VFQ1C/74121/7474/	5
	1 555/741/1N4001/	2
	1 5558/1N4148/1N4001/	1
	4 M50800/M5M80C49/M5L2732K/M4021/M4022/M5218L/M5150L/2SA1115/	6
DEID	1 555/2N3906/2N3904/	3
	2 356/398/C503/A503/	3
NOTES	1 3523J/3508J/PIN6D/2N3823/	4
	1 555/4017/4081/4011/BC108/	9
PROJECT	4 555/7442/7490/7447/MAN4710A/74LS365/SCI46M/2SB544/7805/	6
THINK TANK	7 556/555/LM324/MOC3010/MJE34/2N3819/2N3904/7805/RS276-1001/	4
THINK TANK	5 555/7476/2N3906/2N2907/2N2222/TIP125/HEPR1220/1N4001/	6
CIID	1 5532/	1
	1 3528CM/LM40040/LF356N/	4
ELNO	2 555/IRF220/2N2222/MI2823/	2
BUILD THIS	2 555/LM324/T106D/1N4148/CQX14GE/	3
ELSC	2 556/SN76488/	1
	1 4518/555/4082/4018/BFY51/BC108/1N4001/	6
INMEHIENPH	3 356/355/4069/VN88AF/5160/5089/4403/4401/3866/3906/3904/U310/	9
	1 555/	1
PROJECT	2 555/	1

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	1 556/2N4401/1N34A/	2
CIID	1 4532/HC237/	2
ARTICLES	1 555/	2
AUDIO	1 5532/072/H11F3/1N4148/	4
APID	1 556/7474/7402/	3
CIID	1 555/4001/4011/2N3819/	3
FEATURE	2 567/	1
	4 M6802/MC68488/MC6821/HI5900/HI574/HI5618A/2716/HA2600/MC3448	9
COPA	1 7621/741/	3
	1 567/4020/4001/2N2219/1N914/1N4001/	5
	2 8749H/MC1488/MC1489/8253/CD4040/SN7416/MJE800/1N914/	7
	4 8755/TH318/2N3700/CX1116/2N4063/KN22/BSX61/XA1003/	4
>50	2 5722/MRF901/MRF902/BFR91/1N4005/	1
CIRCUITS	1 276-1185/	1
	2 074/BC109/4040/4093/BC107/	6
REISPA	1 7703/7704BK474/5C22/	2
AUDE	1 074/	1
ON SPEC	1 Z80PIO/SPO256/LM380N/	3
	1 N8X60/TDA2591/LM319H/AD7522KN/	4
APPLICATIO	2 68HC705C8P/LM358/MAX232/78L08/78L05/VN0300/2N2222/MPSA56/	9
	1 78L10/78L12/	2
	1 48K/B100/DAC14QM/12QM/	8
APPLIED ID	1 P8035/DP8310/2716/74C922/	4
COAR	2 Z80APIO/4049/7805/2N2907/	8
	2 6809/6821/6810/2716/7485/6840/	8
	1 1802/	1
BUILD THIS	1 N82S129/7493/7485/7473/555/LM309K/LM340K/7805K/2N3904/2N301/	9
	1 68HC11/4046/74HC163/LM741/74HC00/MC1408/74HC04/	6
	3 68B21/ADC80/AD521/ADG200/75492/7472/74193/74244/2112/7410/	9
HIENPHIN	1 592/MB4356/BSR12/	3
BUILD THIS	2 M957-01/74154/74LS30N/7474/4N33/7404/2N4402/7812/7806/1N4001	9
	3 X9MM/LM555/CD4584/CD4001/LM3914/2N3906/2N3904/1N4148/	8
DESIGNER'S	1 3900/1N4005/LM7808/	2
PROJECT	1 2917/	1
AUDIO	1 OA81/	0
	1 CA3140/1N4148/	4
	2 UA4136/1N4001/	3
APPARATUS	1 UA714/2N3019/2N2646/ED24/	5
	1 UA741/ICL7650/OP27/	4
APID	1 SAD1024/CD4013BE/CD4020BE/CD4046BE/CD4007BE/UA715/	6
INMEHIENPH	2 CA32806/J309/LH0002C/	4
ASK BYTE	3 SAA1027/74C14/FPT100/741/	1
TENO	1 CA3140/	1
	1 UA723/UA714/725/LM311/CD4066/	8
RFEMCO	3 CA3078/CD4007AB/	2
	1 CA3140/	1
LAEX	2 CA358/BC237/	2
SUPA	1 PA85/LF347/10DP/	2
ENGINEER'S	1 CA3130/2N5681/E502/LM113/	2

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	2 CA3080E/	1
	1 CA3080/LM380/2N3702/741/1N4148/	6
	1 DAC80/TLR306/SN74LS123/SN74LS124/SN74LS393/2716/SN74LS107/	9
	1 UA741/OA70/	1
	3 CA3140E/1458C/LF351/741C/BC547/4001BE/1N4148/	5
IDDE	1 PAL16R4/NCR5380/74HC4020/	3
	1 UAA170/	1
TEELCO	1 CA3140/2N6403/2N3904/BZY88C6V8/	3
	1 TA7630P/NE5534/	3
PROJECT	5 CA3080E/4006B/4070B/BC184L/2N3904/	7
LETTERS	1 CA3140S/2N6259/	2
	4 CA3059/UA741C/74121N/SN7423/5C22/2N4333/2N3906/2N3904/VC80/	9
	2 SAA1027/8255A/4N26/74LS245/74LS244/74LS21/74LS08/74LS04/	9
ARTICLES	4 HA5195/NE5534N/MPF102/584IRF610/584IRF9512/2N5210ND/33SC020/	5
ARTICLES	1 DAC0831/AD9686BQ/LM324/	3
REPA	1 CA3080/741/	4
IDDE	1 MAX641/MAX628/1N5818/	2
	1 SAD512/SAD1024/4558/CD4049/LM340L15/LM320L15/1N4002/2N2222/	8
	6 UA78S40/MC34063/MPSU51A/MPSA55/MPS6515/4N35/MTP4N50/TL431/	5
DEID	1 PAL16R4/LS138/S38/LS32/	4
	1 SAA1027/7407/	2
HAHA	2 KAA2283/KAA2281/	1
CIRCUITS	3 CA3140/VFQ1/2N2907/2N2222/LM113/AD590/	2
NOTES	1 UA741/2N6014/2N4896/2N5733/	4
	8 CA3140/741/LM317/MPS6523/MPS6515/	2
STATE OF S	1 SAB0600/	1
TECHNOLOG`	9 UA741/2N3819/2N3904/2N3702/1N4148/	3
IDEAS FOR	1 CA3130/CA3160/	1
	6 MAX420/MAX421/MAXOP07/MAXLH0101/AD565/REF01/2N6725/ICL8069/	6
	2 UA7818/UA7812/	2
FOREGROUN	2 SAA1027/7406/1N4001/	2
	4 UA714/741/BD131/UA2240/2N2905/1N4148/2N3055/BC167/BC257/	7
PROJECT	8 CA3130/2N5457/2N5088/PN5133/1N5257B/1N914/1N457A/OA200/	6
	2 CA3080/741/2N3906/	3
SPCO	1 UA741/2N6031/2N5631/D45H10/D44H10/MR754/	9
CACO	1 MAR1/SBL1/78L05/2N2222/2N4401/2N3904/	6
ARTICLES	2 GAT1/2N3906/2N2907/2N2222/1N914/	7
INMEHIENPH	1 CA3127/1N4154/	1
	1 UA741/BC177/2N3055/2N1711/	5
IDDE	1 UA775/	1
FEAR	9 MAR1/MAR2/40673/MPF102/2N5179/BSX20/MPS918/2N3906/2N3904/	3
	2 CA3140/GB35J1/	2
AUDIO AIDS	1 CA3058/CA3059/SC2450/Q4010L4/	2
APPLICATIO	1 MAX631/	1
	1 UA741/1S33/2SC111/	2
NUSCPLELDI	2 MB43468/SL560C/	1
	2 BB3523L/LM324N/LM2903N/2N5639/	3
	1 6BA6/6BD6/1N4003/NE51/NE2/	1
	1 5B4/HC3A-A/HC3A8/	3

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DAACSYCI	3 MB43458/NE592D8/MVL407/10H125/BSR12/BSF17/BAV99/ 2 TBA231/LM386/CD4001/1N914/	5 3
DESIGN APP COMMENTS	1 MC3417/2N2222/2N2907/MC145414/MC14040/ 1 MC12061/ 6 MC3423/MC3523/V33MA1A/1N4740/1N4002/	5 1 1
INDUSTRIAL APPLIED ID	1 ICL8073/ 1 SC141DX164/5AJ/	0 1
COMMUNICA	6 6C4/5763/6AG7/2N1178/2N2084/ 1 ECL100102/	1 1
PROJECT ELCOCI	2 BC184C/TIP126/TIP121/BC307C/BC547C/BD244C/BC214C/BD243C/ 1 UC1846/CD4098B/LM311/IRF350/SVD400-12/1N916/ 1 MC1733/HP10534B/AD504/ 1 ICL7650CPD/LM324/1N4148/9491BJ/BZY88/ 1 MC6809/4040/MC6850/6116/MM58174/74LS138/ 4 MC34082/OP037/358/LF356/CD4016/74390/ICL7224/TPL521/OPB814/	9 6 3 3 5 9
CQ REVIEWS ANALOG CIR	1 MC14011B/ND487C2/MC14518B/2SC1583/2SC380Y/2SC1815GR/MC3359/ 1 MC34012/ 1 MCR70-2/MCR70-3/MC3423P/SG3423M/MC3423U/1N4738A/1N5245B/	9 1 2
STATE OF S	3 ICL7660/CD4077/1N4148/ICL8069/ICL7126/ 2 ICM7217/4519/RS587024/555/ZTX300/ 1 BC108/	5 9 2
CICI	2 ECG5402/ 1 MC10125/SP9685/MC10198/BC107/SN74221/F100131/F100118/MC10124	1 9
WEEKENDER	1 ICL8211CPA/ 1 HCPL2531/OP07/3554/2N3810/2N6659/BUZ50A/2N3904/MV5020A/	1 9
LEED	1 ICL7621/2N4125/ 1 HC4040/HC688/HC682/LS121/HC107/	2 5
FEATURES	7 MC13055/MC10116/74LS123/MAR6/LM324/LM386/SRA1/LM317/78M05/ 1 UC3637/UA7812/D88FN2/3906/3904/4005/	5 7
ARTICLES FEATURES	1 MC14046B/ 2 MC68HC811A2/MC68HC11/MC34074P/MC14066BP/2N4914/2N4922/ 3 ICL7650/7660/DG308/CA3130/741/BC108/BC478/	1 9 6
APPLICATIO INNO	1 MC34166/MTP3055EL/1N5822/1N967A/1N4148/ 1 ICM7205/586-778/	2 2
APPLICATIO CIID	1 ICM7556/IRF741/2N2905/2N2369/1N4148/1N4001/ 1 ICL7650/NE565/	6 2
BUILD THIS CICI	1 ICL7106CPL/LM324N/CD4030B/AN78L10/MC78L10/C2G1/LCD002/ 4 MC14538B/4011/MOC3010/IRF511/2N3906/1N4002/1N914/276-1657/ 2 MC1458/LM311/MC4011/MC4013/FLV104/2N4401/VN10KM/1N914/	6 4 9
BUILD THIS DESIGN	1 ICL7106CPL/SX100DN/LM324/LCD001/AN78L05/1N4148/ 1 RC4136DB/	5 5
BUILD THIS	3 ICL7106CPL/LM324N/MPX2101AP/AN78L05/78L05/LCD002/1N4004/ 2 MC1458/5558/1N4001/5558/1N4001/ 1 ECG222/741/ECG112/ 2 MC1310P/2N2222/1N4001/LM1310/XR1310/7812/	5 6 3 5
CICICE DEID	3 SC01/LM386/74LS74/74121/7416/74LS244/COM2017/COM5016/MC1488/ 1 MC34063/MPSU51A/1N5818/	5 2
BUILD THIS BUILD THIS	1 ICL7106/LC513041-301.15/LCD004/2N2222/ 3 ICM7216CIIJ/CD4017/7490/555/MAN6710/7805/1N914/	3 7

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COAR	1 ICM7224IPL/LMC555CN/CD4518B/CD4040B/CD4030B/CD4001B/BS170/	9
COAR	1 MC3403/LM386/4069/4016/PN2222/	7
DESIGNER'S	1 MC10131/MC1662/F100151/	4
ASK R-E	1 MC34012-1/MC34012-2/MC34012-3/	1
THINK TANK	5 ECG8314/ECG7421/555/CA3130E/4093/LM317T/2N2222/1N5401/1N4001	3
ENNO	1 MC14516/MC14555/MC14071/2N6044/1N4007/	7
DESIGNER'S	1 ICM7217AIP/MC14566/CD4011/2N2222/2N4401/7805/1N4005/1N914/	6
	1 MC14001/	1
RFEMCO	1 MC3356/NE602/TL084/MV209/	3
	1 MC34012-1/MC34012-2/MC34012-3/	1
DESIGNER'S	1 RC4559/AD581/LM335/1N4004/	3
APPARATUS	1 MC68705P3/ZN427E/SN7413/ZN3053/BT139/BZY88/BC108/	6
NOTES	1 ECG519/	0
COAR	1 MC14538BCP/MC14518BCP/MM5369EST/78L05/BS170/MPS5172/1N4148/	6
BUILD THIS	3 MC1496L/LM1458/CD4027/2N3565/2N3563/MV2107/1N757/IN4002/	8
	1 ICL7650/	5
	2 ECG103A/GE59/SK3835-103A/	1
ARTICLES	1 ECG858M/ECG965/ECG964/ECG5332/	4
ARTICLES	2 PCM58P-K/PCM78/AD1154BW/PA85/OPA627/OP27/APQ25/	6
NOTES	1 MC14528/TP5116/2N4401/ID2000UR/MRD360/MC34004/HI5049-5/	9
NOTES	1 MC1406/MC1723/SN7413/	2
TEME	1 ICL7106/TLC2652/LF356/4030/LTD221R12/BC516/BC547B/LM336Z2.5V	8
LEED	1 RCA8575/OA95/AAZ15/	1
IDDE	1 MC14538/LF398/	2
DECA	2 ICL7135/AD590/ICL7660/ICM7211A/CD4054/ICM7555/VN01/AD589/	7
	1 BC251/BC171/1N4001/BD237/PL15/BA244/	7
	3 MC34063/F1P5H15/MC68705P3S/UDN6118A/MUR105/1N5364A/1N5819/	4
COMMUNICA	1 MC1456/	2
DENO	1 MC6890/74LS374/LM741/74LS27/74LS08/74LS04/	7
	4 PCA5000T/UAA2050T/UAA2033T/BAS16/	2
APPLICATIO	1 MC34165/MBR160/	1
	1 CD4046/CD4093/CD4024/2N2222A/	4
	4 CD4027/CD4046/CD4040/MM5369/CD4013/CD4011/2N2222A/CD4017/	6
IDEAS FOR	1 IDT6116/7109/CD4060/CD4040/74C00/74C20/74C74/	8
DEID	1 CD4098/CD4073/	2
APID	1 CD4046B/CD4069B/ZTX500/ZTX300/IN914/	4
	7 AD588/MTP10N10M/AD7536/AD712C/2N3904/2N3906/	3
PAPERS	1 AD524A/	1
IMAGING	1 AD874JN/AD843JN/DG300A/1N4148/	4
NOEX	2 AD524/MPX100AP/YSI44201/	2
HINTS AND	1 CD4069/	1
	1 6DJ8/6922/LF351/LM317T/MC7806/MJE340/2N4400/1N4735A/1N4751A/	7
SPCO	1 AD521/AD515/AD290A/	3
	1 CD4011/CD4020/CD4029/2N3906/1N5231B/1N914/1N4148/	4
ENGINEER'S	1 CD4047/FND357/CD4026/FND357/1N4001/	7
APPARATUS	1 AD610L/UAF41/AD522BD/DG302CJ/TP142502/TP1321/1N4154/	9
	1 CD4017/CD4081/CD4068/CD4049/1N4001/1N914/1N4148/P308/P310/	9
	1 CD4040/	2
DESIGNER'S	1 CD4016/1N914/LM3900/	5

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CQ REVIEWS	1 CD4066/LM324/LM258/2N3904/2N2907A/	5
	1 BDX64/PM107/	2
	3 CD4051BCM/LF357H/LF356H/SN74164N/9601/MJE243/2N3645/2N3643/	9
DEID	1 6DQ5/IRF730/CA3140AT/	3
PROJECT	1 CD4093/	1
IDDE	2 AD7525/AD510/AD2701/BB3627/DG201/2N5884/2N2222/PM393/1N916/	9
DEID	1 AD711/LM675/	2
PAPERS	2 AD7528/LM318/LF356/DG221/	3
	1 CD4017/CD4011/	2
COAR	1 CD4011/MPSA56/MPSA42/1N5397/1K60/	4
SHPA	1 CD4066/CD4046/CD4030/CD4027/BFW11/	5
SHPA	1 CD4046/741/	5
	1 AD528J/MC1408L8/741/A8400/SN74121/SN7493/SN7475/SN7400/	9
	1 CD4017AE/2N2222/	3
	1 CD4584/7805/	2
	2 CD4584/CD4081/CD4044/ULN2004/MOC3011/CD4013/S200BL/4N33/	9
IDDE	1 CD22777/CD4070/1N4148/	2
AMHAPR	1 ADC0844CN/TLC272CP/CD4066N/MC7805C/1N914/1N4148/	8
DEID	1 CD4046/74C90/	4
APPARATUS	1 CD4516/74C42/74C10/2N3904/1N4001/555/	9
DESIGNER'S	1 AD582/741/	3
	5 RD583/74121/KSY71/BSS42/KT913A/2N4261/HP2-900/HP824003/	7
	1 AD547KH/ADOP27GN/AD926/AD581KH/SK3450/SK3449/AD7525KN/SK3959	9
DEID	1 AD630/	1
PAPERS	1 CD4066/	1
DESIGN ENT	4 AD549/AD548/	3
	1 CD4046/LF356/CD4066/MC14528/	9
PAPERS	1 AD528K/2BSX36/1N4148/	5
	1 AD590/OP07/	2
	1 AD7546AD/MC1648/584/BCY71/160/123/193/MV1404/	9
APID	1 CD4049/	1
ARTICLES	1 FD100/	0
REPA	1 AD596/OP07/UA741/BC309/BC238/TIP141/	7
IDDE	1 AD811AN/AD744JN/2N3906/	2
DEAP	4 AD711/AD736/AD737/7136/AD548JN/AD589JH/CA3046/1N4148/	3
	1 ADC0800/741/74LS368A/7490/	7
CITEAN	2 AD844/	1
FACTCARD	8 TDA1524A/LM13080/4136/LM393/LM0062/2N3904/2N3055/2N2222/	3
IDEAS FOR	1 AD590/AD741/MJE180/	3
DESIGN IDE	1 AD594/	1
APNO	1 ADOP07/	1
APTEPH	1 AD533/LM324/	2
	1 AD574/8255/8253/4051/7478/7400/	8
	3 AD260K/AD273/741/MJ802/2N3055/1N914B/1N4740/1N376/	4
RESEARCH P	1 AD531K/AD521/741/307-462/1N4148/	5
	1 AD532/AD536/741/780RT1/	9
INMEHIENPH	1 AD518/E304/2SK147/E505/E507/2SC594/2SC980/E400/2SC574/RD6A/	9
PAPERS	1 AD548/INA101/OP77/ZN423/	5
TEBR	1 CD4024C/LM324/MM74C00/	3

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FEATURES	1 CD4013/DIG12-08-010/SMP60N06-18/2N3906/2N3904/1N914/1N4148/	6
	2 AD515/AD510/AD547/	4
	1 CD4007/CD4046/CD4009/1N4001/2N3904/2N4402/CD4001/	6
COAPNO	4 AD545/741/LM360/74LS123/74LS24/74LS244/74LS77/74193/VN66AF/	9
COAR	1 CD4046/NE570/CD4017/LM358/78L09/2N4403/2N4401/	9
HINTS AND	1 6EA8/	1
	1 MECL1035/	1
	2 NE5534/1N4001/1N4002/	2
	1 NE5018/7474/7493/LM311/74165/741/	6
	2 NE5534A/MJE200/LM7805/LM7818/MJE210/LM7905/LM7918/LM345/	4
BASIC AMAT	1 NE556/276-1728/276-1101/1N914/276-1122/	1
	2 REF01/REF02/MPS6523/	2
MULTIPURPO	1 NE556/BC239C/MPS6515/	3
	1 NE567/1N34A/1N4002/	6
STATE OF S	2 REF02/OP02/	2
	2 NE02133/BFY90/2N3546/BFR99/LF356/UA733/Q21-33D/593-35/	9
CIRCUITS	1 NE555/	2
PROJECT	1 NE555/2N2222/2N3055/	3
ARTICLES	4 NE5534/LF411/LM337/LM317T/LM79L15/LM78L15/2SK216/2SJ79/2SJ74	9
	2 NE555/ECG182/1N914/ECG184/1N4002/	1
	1 GEV130LA20B/	0
HAM RADIO	2 NE602/MV2107/NTE613/1N60/	1
ARTICLES	2 NE5534/7915/7815/MJE253/MJE243/1N4002/	3
HIENNUPHRA	2 NE592/10109/BFT25/MMBT3906/SP9680/BAV99/	5
INMEHIENPH	1 NE5592/MB43468/NE521/BFS17/	3
ARTICLES	2 SE566/NE566/CA3019/	1
DEID	2 HEF40106/TL331L/BUK553-50A/BC547L/BC547C/MUR460/1N5337/BRT86	6
FACTCARD	6 NE5430/LM2877/LM387A/LF111/LM101A/TL084/TL081/MPS6562/2N5019	4
	3 NE592/BFR99/BFY90/BFR92/BFT25/1N6148/	4
	1 HEPS0019/74C00/HEPC4055P/	3
ARTICLES	4 NE5534A/TL074/TL072/4195/2N5062/1N4002/	4
PART I	2 LF356/	4
IDDE	1 LF412/2N5087/1N914/	3
APPARATUS	1 BFW10/8500A/741/	3
ARTICLES	2 VFC32/LF356/LM318/LM741/2SK68A/1S1588/	6
BEGINNER'S	2 BFR91/2N4416/	1
APTE	1 LF355/2N3641/2N3055/LM329/	3
	2 MF10/6270/LM380/LM381/ZN427E/74123/74LS74/74LS138/	4
	1 LF357/AM1000/LH0002/	9
NOTES	2 LF357/HP5082-4203/HPT1510/	1
	1 LF347/CD4016/BC183/	6
	2 LF356/MC1412/DG201A/2N5461/	9
ORRE	1 LF357/LM339/LM555/74121/LM307/4N25/74LS02/74LS00/LM7805/409/	9
PAPERS	1 LF356/	3
	1 SFC2307/SFC741/BC527/BA794/	4
ACBEHATA	1 BFT25/BFR93A/BAV99/	3
SPCO	4 LF398/CA3140/OP7/LM399/4N25/3650/ICM7556/4532/4051/4017/724	9
APMEBICORA	1 BF199/BA511/	3
	1 LF411/LA3140AT/	2

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PAIN	1 LF356/	8
APPARATUS	2 LF441/BFS21/ML101B/B2Y88/BC107/BSX20/BCY70/SN74LS13N/IN4148/ 2 LF356/1N914/	6 4
ARTICLES	8 LF411CN/LF13331N/74HC163N/74HC14N/LM337LZ/LM317LZ/78L05/ 9 LF357/LM318/LF356/1496/741/1N756/NE529/AD7520/4018/339/353/ 2 LF356/NFUF4BL/2SC245/ 2 LF356/ADC0800/IL1/BC557/BC108/BC107/74C914/BC547/ 1 LF357/	4 6 1 9 1
FEATURES	1 LF351/ 1 LF356/7556/MJ1001/2N2484/2N3640/2N3646/BPW34/4066/BSV81/	1 8
ELCOCI	1 VFC62/356/3900/	3
DESIGNER'S	1 BFW10/555/748/741/BC177/1N914/BC107/ 1 VFQ1/3140/	9 2
NOTES	1 LF157/TL081/BD139/BC107/	4
NOTES	2 BFY50/3N201/1N4148/74150/74S132/	2
SPCO	3 LF356/CA3140/LM741/TL71/7915/7815/LM337/LM317/TIP121/BC557B/ 3 BFT25/BFR92/NE592DB/BF517/BSR12/MVL407/1N914/10354/	9 5
DEAP	4 VFC320/OPA602/SN74121/SD2140E/SN7406/	4
ARTICLES	1 LF351/LM324/CD4066/CD4029/CD4028/	7
FLPRREIRFI	1 LF356/PDA32-3/ 1 BF992/ 1 LF356/2N6550/	1 1 2
REPA	2 LF351/2N2222/2N2904/MCA8/ 1 DG181/AD428J/N7413/N7400/N74123/TIL139/AD540K/LM2902/N4437/	4 9
TETRIC	1 VG502/VG501/VG603/80C186/	3
LACO	2 TGS813/SCX15ANC/LM10CN/LT1013CN/7805/	0
APPLIED ID	1 MH11013/CA3130E/LAS1615/IRF512/CA3085/1N6056A/1N4934/VN64A/	9
DAACSYCI	2 LH0002/1435/LF356/MPS5911/MPQ2222/MPQ2907/LM336-5/ 1 LH0032/741/74191/74S74/'74/'S05/'123/4066/	6 9
SHCO	3 LH0045CG/UA742/LM399/7490/UA7818/153RA50/2N3641/2N3638/W02/ 2 LH0038/LF356/ 1 TIL111/CD4001/1N4149/	6 1 2
PROJECT	1 TIP31/2N2222/TIL414/SEP8703-1/276-143/276-145/ 1 MJE3055/1N4001/ 3 MK5089/DM8136/LM3900/HP7340/74LS147/74L154/74LS393/74LS42/	4 2 9
WEATHERSA	1 SK120X-5158A/SK3044/S5020/7805/1N4004/ 3 MK50396/MK50395/LM741/LM308/CD40106/CD4029/CD4018/CD4011/ 1 SK3590/ 1 SK9173/	3 9 1 1
MIDASTPREL	2 MK5009/8080/74193/SN7475/SN7474/7402/7404/	7
COMI	1 TLC272/BC547B/BD242C/1N4148/1N4004/	3
DESY	2 TL810/10116/10124/74LS30/74LS123/ 1 TL071/	4 2
APMEBICORA	3 CLC505/BF192/BFR92/1N4148/ 1 TL071/TL072/4024/1N916/ 1 TL071/IL5/	6 4 5
CIRCUIT ID	1 ULN2803A/7402/ 1 TLC555/ICM7217/555/276-1718/2766-075/ 1 TLR121/TIL413/TL071CP/	4 6 1

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	2 SL100/308/	4
	2 SL6043C/SL6270C/	1
AUHIFI	1 TL072/BC547B/1N4148/	2
	1 TL071/P2038-01/	1
PROJECT	2 TLC555/GP1U52X/276-137/277-302/2N4403/2N2222/	3
INMEHIENPH	1 CLC940/HH109/AM146/DS109/	9
	2 TL082/741/	1
COAR	1 TL783/1N4001/	1
APPLICATIO	4 ULN2003/UGN3113U/4013/61C11-01-08-02/	2
	2 TL081/1N914/	5
	2 TL071/NE572/7812/7912/1N4002/	5
NOTES	1 TL084/BD410/2N2904/H11F3/AD515/1N4448/	5
CICICE	7 TL084/ADC0808/80C31/TIL111/MAX232/27C64/74HC373/74HC74/BS170	5
NOEX	2 TL071/741/BC108/IN914/TSUS5402/BPW41N/	4
	1 TL074/LM339/LM741/CD4001/LM79L12/LM7812/2N2222/1N4002/1N4148	9
	1 TL496/	1
	1 TL081/741/AD515/IL74/	5
DEBR	5 TLE2061/BC108/	2
	1 TL084CN/TLC555/1N4001/276-035/	2
ENRE	2 TL082/TL081/BU209A/	2
PROJECT	1 TL064/3080/BC183/4093/BC213/1N4148/	8
	1 TL071/TL074/	3
DECA	1 TL014CLP/2N3906/1N4148/1N4738/	2
RFFETE	1 EL2039/LF356/5082-2035/	2
	1 TL081/	1
PAPERS	1 TL071/LM356/	2
DEVELOPMEI	4 ALS244/ALS11/ALS08/ALS04/ALS02/LS125/HCU04/	3
GOSSIP	1 TL084/TL082/	1
LETTERS	1 LM318/	1
	6 LM1578/IM1578/LM3578/VSK130/MJE3055/	2
APPARATUS	1 LM335/LM336/741/BFY51/801-2001-01/	7
	1 LM333/ECG123/IN914/SPX2498/	3
SYEL	1 LM358N/2N3906/AN78L06/78L06/2SC1364/2N3904/2N3702/2SA678/	5
PROJECT	5 LM2917/LM3914/7444/74LS14/OP500/OP160/78L12/78L05/W01/	5
PAPERS	4 LM611/LM334/2SK30A-GR/2SK30A-R/1N4148/	2
ARTICLES	1 LM334/SPX50D/	2
ENGINEER'S	1 LM324/LM113/	1
SCEL	1 LM2907/LM324/LM309H/276-026/	3
	3 MM74C32/MM74C02/74LS161/74LS138/81LS95/74LS374/7417/7432/	8
RFDEAW	2 MMBV105G/	0
PAIN	2 LM301/741C/LM311/BC148/	4
PROJECT	1 LM308N/LM380N/1N4001/	1
	1 LM399/	1
	2 LM311/REF02/ICL7135/LM394/OP07/	3
	2 LM331/LM332/9400/	5
PROJECT OF	1 LM331/4017/	2
	2 LM3914/7805/1N34A/	4
	1 LM555/CD40193/LM747/LM741/A17361/	9
DEID	1 LM10C/LM311/YSI44007/	3

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TETO	1 LM2907-8/	1
INCO	2 LM308/LM741/LM335/LM7905/LM7805/1N4002/	4
RFFETE	1 LM6361/ECCG459/	2
DECA	1 LM2917N8/LM311/CD4011/1N4148/	4
PRBU	1 LM324N/78L05/BC548/BC337/BC327/1N4004/1N914/	5
IDDE	1 LM10CLH/MM74C240/LM3046/2N3906/2N3904/2N2907/	9
COAR	1 LM741/LM380/4001/BC108/1N4148/	4
FEATURES	1 LM555/276-1723/LM7805/276-1770/276-2016/276-014/276-1122/	3
PROJECT OF	2 MM5369/4017/4511/4518/4011/	4
GACHBADE	4 AM685/LM324/MC10231/MC10125/LS123/SFB8558/A5T4261/A5T3571/	9
	1 TMS32010/AMD9513/AD565/	5
BUILD THIS	1 LM317/C103B/1N4004/	2
CCTS	5 LM3524/UA78S40/2N6051/2N5033/BD344/LM330T/MR850/IN4001/	3
	1 MM58167/74LS138/74LS245/74LS00/1N270/1N4148/	5
	2 LM324/LM3905/1N914/	9
	1 LM393/RC4136/4016/LM301A/1N4148/2N3904/1N4002/	9
	2 LM1877/LM320T8/LM340T8/1N4002/276-702/276-1102/	2
COAR	3 LM833N/OPA541BM/OP27GP/1N4744B/	3
COAR	1 LM317/1N4001/NE2H/	1
	4 LM3524/TIP115/1N5819/1N4937/LH1605K/	2
TWPHFL	1 LM555/	1
	1 TMS9914/SN75160/SN75161/LS245/	3
	2 DM7420/LM555/DM74123/CD4029/2N2369/CD4017/LM741/1N4148/	9
	2 LM387/LM386/MJ4030/1N4007/	2
IDEAS FOR	1 LM10B/AD590J/2N3246/	3
	1 LM308/LM335/	4
TEELCO	2 LM301/UA301/AD590J/LM336/1N914/1N4148/	2
	2 LM324/74LS123/LM1458/LF444A/TIP42/7812/7912/TIP31/LM555/	6
IDDE	1 LM339/LM308/HI5049/74LS74/74LS00/2N2222/	7
	1 LM741/TIC206/BC547B/NTC4K7/	3
	1 LM338/	2
HANO	1 MM3569/4017/4518/4011/4027/4012/	6
APTE	2 DM7474N/BC109/BFY90/2N4861/OA47/BZY885V1/	5
IDDE	1 LM3900/LM335/	2
FEATURES	1 LM324/2N3904/	3
REISPA	2 LM675T/LF356/BH700/	3
	1 LM308/UA791/LM336Z/IN4148/	5
	1 LM334/	1
NURADE	1 MMT4261/MMT3960A/HP2800/	2
CIRCUITS	9 LM741/2N3904/	2
	3 AMD7910/LM324/7447/	3
BIEN	2 LM311/LM301/741C/BC148/	4
INMEHIENPH	3 LM359N/UMA710/3SK83/2SK359/2SK168/	3
BUILD THIS	2 LM3914/LM324/CD4066/2N4393/2N3972/2N3906/LM336-2.5/1N4002/	9
	1 LM747/1N4154/	2
DEAP	2 TMS320C50/BCT8245/74BCT8244/	3
CICI	3 LM1458/2N3906/2N3904/1N4734A/1N914/	2
	1 LM311/4013/IRF110/HP2502/	4
PROJECT	1 LM380/	2

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	1 LM1830/2N2222A/	2
	1 LM324/ZTX212/1N4149/1N4001/	2
CCT CELLAR	9 LM3914/TIL111/284J/NE567/TIL39/CD4011/SN76832/74LS175/LM308/	6
	1 LM311/084N/4093/4013/BC182/2N4393/1N4148/	7
	1 LM318/AD533/	5
	1 LM2878P/1N914/	4
NOTES	1 LM224/LM339/4098/4093/LDD15/LM103/2N4416/2N4401/2N4403/LDD5/	7
INMEHIENPH	2 MMBT4260-2R/MMBR930-7C/1N914/	8
LETTERS	1 2N2222/	2
BEGINNER'S	1 2N5179/	1
BEGINNER'S	6 2N5179/MPF102/1N914/2N3904/	3
	1 SN7485/SN74174/SN7474/SN74175/	4
	2 2N5771/SL560C/2N5770/	2
	1 1N4001/	0
	1 2N3055/SL100/1N4007/	8
	1 2N3904/	4
	1 SN7474/SN7404/SN7400/	3
DESIGNER C	1 VN66AF/MPS6515/1N4001/	2
HINTS & KI	1 2N5682/2N5321/1N914/	2
HINTS AND	1 2N3906/TCG191/ECG191/2N6308/1N4001/	3
PROJECT WC	1 2N3906/1N4148/	1
	1 SN75160A/74LS00/	9
NEW IDEAS	1 2N2646/2N5060/1N914/	3
DENO	1 2N2222/	1
	1 NN7043/SPS784/SPS783/1N4148/SK3017A/	5
APID	1 SN7422/UA741/IPM05/CA5-80/1N5795/BC417/BD139/BCY28/	9
TECO	1 1N34A/1N270/	0
NEW IDEAS	2 2N3904/2N2222/1N914/	2
	1 1N60/GA41PS/	0
GLAT	1 2N3904/276-1603/	1
CIRCUITS	2 2N3904/ECG123/1N34A/1N914/1N4148/	1
NOTES	2 2N5640/U290/VN10KM/VN66AK/SN7404/1N283/1N4739/2N3906/	9
	3 2N5139/2N918/2N5457/CD4017/UA741CV/CD4016/CD4011/LM340T12/	9
	1 1N34A/	0
	1 1N5821/1N914/	0
BUILD THIS	1 3N187/7812/	2
FEATURES	1 1N34A/1N60/	0
EXWO	5 2N3906/2N2222A/1N914/1N34A/	1
CQ REVIEWS	1 2N5770/2N918/1N5711/555/5053/	5
POSUBACH	2 1N4001/	0
IDDE	1 SN54123/SN5412B/	2
CIID	1 2N3904/1N4148/	2
CODI	1 2N2222/	1
	1 2N1893/	1
	1 SN7145N/7404/2N3053/	3
	1 2N2222/TIL31/	2
	5 2N3823/2N3819/2N3684/2N3820/2N4416/2N5139/BFW61/2N3906/0A95/	2
	1 1N4006/1N4001/	0
CIRCUITS	1 2N3904/1N5221/1N4002/1N914/1N4148/	1

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PAPERS	2 2N4444/N195/IN4007	1
	1 2N3904/LM311/LM218/UDT020D/	5
	1 2N3638/2N2222/	3
	1 2N6661/VN98AK/74S140/74132/HPCL2602/HPCL2601/DS0026CN/	9
	1 2N4416/U431/2N38109/2N6550/2N2914/BF224/2N4393/2N2219/	9
	1 2N5458/1N82/	2
	1 2N5434/	8
	1 2N2222/SN74121/SN7413/SN7407/NE741/1N914/	5
EXCLUSIVE	1 1N757/LM324N/1N4148/1N914/1N4001/2N2222/2N2907/	6
	1 2N5197/5534/SD211/	4
	1 1N4009/	0
	1 1N4447/TRA402/	2
	1 INA110KP/CA3140/	8
REPA	1 KN22/2N3700/2N5551/5AV60/	4
	2 SN74193/SN74175/SN74147/SN74123/CMP01/OP01/	6
LEED	1 2N6483/	1
FEATURES	1 1N60/1N34A/	0
APPLICATIO	2 4N35/74HCT244/TIP31/1N4001/	2
RFTR	1 1N4148/	0
	1 2N3439/MJ8502/2N3585/2N6422/1N914/1N4004/	7
	5 4N33/CD4516/74C154/74C04/1N914/D40K1/2N3904/CD4011/NE555/	4
INFI	1 2N2905/2N2219A/AD589/BZX56/1N914/	4
DESIGNER'S	1 MOC3030/2N5569/LM335/LM324/1N914/LM336/	4
PROJECT	2 MOC3021/2N6027/D13T1/EM404/1N4004/1N5404/1N5606/BC177/BC557/	4
	1 MPF102/2N2907/	2
	3 SP5060/2N3904/	2
	1 OP16EJ/OP42EJ/2SC503/2SA503/1S1588/	4
	3 MPF102/723/2N2222/276-2029/MV2203/1N914/741/	9
	1 KP305/KD514/D810/	3
SCTERE	1 LP324N/151-237/	1
DEID	1 LP2951/1N4001/	1
	4 OP37/CA3130/4538/LF357/OP07/CA3140/LF356/2N3709/2N1711/OP27/	9
STSOST	1 OP90EZ/CD4066/	3
DEID	1 OP220/2N2222/IN4148/	2
	1 OPA37/OPA27/NE5534/LF356/	6
	1 GPD462/741/BB212/	1
ENHANCING	4 SPO256A/CTS256A/TSP470CN/74LS373/LM386/74LS00/78L08/7805/	5
IDEAS FOR	1 OP22/2N3904/1N914/	4
	1 MPX100A/7650/CA3080/CA3140/78L05/1N914/78L08/	8
CIRCUIT ID	1 SPO256AL2/LM386/74LS32/78M05/	3
	1 SPO256AL2/LM386/	2
APID	1 RPY89/BCY70/OP27/	4
PROJECT	1 OP07/KTY83-110/ICL8069/TSC9490/MP5010/	1
IDDE	1 OPA111/SID4C2/IN818/IN914/IN5528/	3
CIID	1 SP0256/S2560A/SPR16/556/LM386/74116/7493/7404/2N5550/2N5401/	9
CQ REVIEWS	3 UPD7507C/AN6552/2SC2652-O/2SD880Y/2SA1012Y/2SC1815Y/2SC456B/	8
CORRESPON	1 OP07/2N3906/2N3904/	5
APPLICATIO	3 MPX2000/MX2050P/158/1N829A/	2
ARTICLES	1 OPA111B/LF351/OP27E/SM300-5150-12/V130LA10A/1N4005/	9

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HEI0ID	1 GPD402/2N4393/	2
DEID	1 MPSA63/TL431/	2
ARTICLES	3 GPD462/728/10137/10131/741/MPSU52/2N3904/2N3563/1N34/1N914/	5
ARTICLES	2 OP37/OP27/CM860/2SK152/2N2484/2N2222/	6
SOSTDE	2 OP07A/	2
	1 OP07C/AD524B/4013B/DAC71CCD-V/AD7512DI/1N914/	9
NOTES	1 OPA2111/OP77/071/BD138/BD137/	9
ENNO	1 SPX3620/74S74/74S86/2N4401/74S74/SPX4692/	4
ARTICLES	1 OPA21/4046/4018/4011/	4
PROJECTS	1 SPO256AL2/	1
	1 OP07/6199/AD507/755N/	9
	2 OP27F/TL072/AD390J/DG508/OP07J/AD578L/AD7511D/8255/6264/	9
PROJECT	1 SPO256/74LS245/7805/LM386/	4
REPA	1 OPS2000/BFY259/	3
DEFE	1 OP27/	1
APPLICATIO	1 OPA2107/INA106/	2
DESIGN ENT	1 OPA128/LM113-1/	1
COPA	1 OP27/LF353/2N6550/2SK147/	4
PAPERS	1 CPM02/	3
FEATURES	2 6Q7GT-G/VR150-30/3N200/1N4007/	3
DEID	1 XR2206C/TL084/	2
	2 TRA1000/2N5771/LM319/74LS240/IN4148/	2
	1 IRFZ30/IRFZ40/LM358/LM339/2N3904/1N914/1N4148/	5
	3 TRA403/10125/74HC74/LS123/10116/VP0220N3/VN0220N3/HEF4049BD/	6
TOLASP	1 TRA1000T/2N5485/2N2894/1N4448/	3
	1 VRC008/LM124/	2
DEID	1 IRFF9131/IRFF121/LM193/2N2907A/	4
	1 XR5532AN/XR5532AP/NE5532AN/	1
	1 LS7229/	1
	2 6SN7/12AU7/6CG7/	1
	1 MSL3-19-2/E35-07-02/	0
STATE OF S	2 LS7229/	1
CQ REVIEWS	4 2SKA950Y/2SK19TM-BL/2SD717-0/2SA733AQ/3SK73GR/2SK125/TA7310P	9
RFFETE	1 MSA0185/	0
COAR	1 LS7210/556/4070/4040/4013/TI914/2N2222/TIL414/SEP8703-1/	9
COMPONENT	1 LS7261/2N6284/2N6287/1N5615/	7
	1 RS303-438/	1
NOEX	1 YSI44201/	0
	2 KS3542/KS3543/KS3452/	0
	2 RS2009/276-2009/RS2038/276-2038/VN67AF/276-2071/1N914/	3
CIID	2 SSM2044/7555/OP27/LM337/LM317/BC212/	6
READOUT	1 TSC911/	1
INMEHIENPH	3 2SK322WS/2SC2295VB/2SA1226EB/	7
	1 BSR58/MMBT3906/MMBT3904/	5
PAPERS	1 RS307-979/	1
DEAP	1 TS75321/TS75320/TS75322/TS68950/TS68951/TS68952/	6
	5 DS8629/MM74C926/DL34M/MM5369/74HC4017/CD4013/74HC132/CD4017/	9
FRENEL	1 3SK166/3SK164/	4
STSOST	1 MTA1537A/LF353/	2

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DEID	1 LTC1150/LTC1043/2N3906/2N2222/2N3904/LT1004/	4
CIID	1 BT152/	1
NUEL	1 KT399/	5
DEID	1 LTC1052CN8/LM336-2.5/LM335/	3
ASK TAA	1 LT1085CT/LT1086CT/LT1033CT/LT337CT/1N5401/1N4002/	2
ELCOCI	1 8T20/8T22/LM311/7474/7407/Q2T2905/1N4150/	9
TEUPNEPR	1 LT1012/78S/	2
INMEHIENPH	1 KT326B/KT316BM/KD522/	3
INMEHIENPH	1 KT399/KT316/	3
DEID	1 LT1102/LT1006/	2
PAPERS	2 LTC1052/OP77/OP07/S87666BR/TLRA120C/	3
DEAP	2 HTC0300/AD588/AD7672/74HC374/AD744/	4
LTSQHTSQ	1 LT1057/LT1028/AD708/	3
CONFERENCI	1 HV03/HV04/HV05/HV06/	9
RFEN	2 CV172/5082-4220/	1
	1 MVL100/SL560C/	0
NEPR	1 HV1205/	1
ENGINEER'S	1 MV5024/1N4002/	2
COAR	1 PXO1000/CA3140E/74C926/NSB3881/TSB3001/2N4401/7805/PH103/	9
DAACSY	3 CX20197/MC34082/CA3280/LM6361/MC34081/AD7506/M5238/M5240P/	9
	1 CY500/74LS08/74LS123/MJE3055/2N3055/7407/1N4005/	9
ARTICLES	1 HY6/003674/	1
	1 CY512/ULN2068B/74LS245/74LS74/7428/74LS321/7407/7404/2N2270/	9
ANRA	1 UY227/UJ224/UX171A/UX120/	7
	1 HZ12BGC/747/7474/74193/7408/2N3393/	9
	1 4069B/4029B/4051B/2N3904/	9
SPREMIEL	1 10G012A/10G001/10G045/	5
CIID	1 8038/8031/8255/0832/F007/F107/741/	8
EXPERIMENT	3 4017/4066/4011/1N914/555/2N2907/7555/	3
AIANCH	1 311J/184K/42K/	7
	2 3140/ZN426/74HCT393/74HCT374/74HCT390/74HCT132/6116/7805/	9
INMEHIENPH	1 J107/2N5770/1N914/	3
INMEHIENPH	1 711/KN6/BTX18/2367/	6
	2 4175/4511/	1
	2 723/2N2222/2N4401/1N4148/1N4000/	2
	2 3240/3140/	3
	1 723/	1
	2 J301/J310/	2
	3 741/BC108/TIL100/	2
BUILD THIS	2 74LS193/555/74LS00/2N3904/	7
HIKI	1 74121/2N2222A/7400/	5
INSTRUMENT	1 741/710/7400/2N2219/1N916A/IN914A/	5
	1 741/74121/1N912/	2
APPARATUS	2 7486/74121/7413/7473/TIL138/2N2222/	9
APPLIED ID	1 74LS175/74LS157/7489/	3
	1 9423/9403/	8
FACTCARD	8 1458/UA749/LM380/UA741/4011/4009/4001/TGS308/2N6070B/2N696/	6
	3 74OL6000/74OL6001/DM8820/2N4252/2N2222/1N914/	0
	1 7404/74123/74154/74174/	9

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APDENO	1 741/91SS12-2/ 1 741/	2 4
PAPERS	1 34082/	1
LAEX	1 P431/P434/ 1 74HC688/74HC74/74HC51/74C04/	0 4
TEBR	1 U401/CR043/ 1 741C/LM1458C/CA3080E/7555/BC109/1N4148/ 1 741/2N2222/2N1711/0C27/	1 6 4
IDEAS FOR PATA	1 74LS161/MC14414/74LS74/74LS04/ 1 741/ 1 95H90/2N5179/2N3600/LM340T5/1N914N/	4 1 3
ABBE	5 M57762/MHW720/CA4815H/MAR6/MAR1/TIP32/2N2222/1N4001/	3
ENNO	1 555T/2N3567/MJE2901/1N4754/1N4001/ 5 555/TL084C/7812/VN10KM/2N2709/MRF901/2N5179/40673/SRA1/ 1 555/2N2222/1N914/276-1103/276-1122/276-1723/276-2009/ 2 1537A/TL084/TL074/BF256C/BC557B/AA119/1N4148/1N4001/7915/	4 5 2 9
FEATURES	2 955/6V6/6J5/	3
THINK TANK	7 555/L555/322/3905/1N914/1N4003/VT10L/LF351/	1
PAPERS	1 074/741/BF244B/A202/	5
INCO	1 276-1622/ 1 2800/	0 0
DEBR	2 MAX280/MAX403/1N4148/ 9 CA3179E/CA3089/MC3356/MC1350/TL082/LM386/LM311N/74C925/555/ 1 CA3140/ 1 CA3240E/CA3140/C30809/ 4 MAX460/MRF904/2N4959/LM160/SD210/LH0063/74HC04/SD5000/IH5352	2 9 1 2 5
REPA	3 HA2541/LM6365/HA5002/OPA606/LM392/LM6364/LM6361/OPA27/LT1028	9
TEBR	5 SA602/NE602/3SK126/MRF931/2N5484/MV2105/	2
APPLICATIO	1 MAX8212/MAX630/ 1 CA3140/755P/1N914/	2 7
APTE	2 CA3140/741/ 1 CA3030/CA3100/	1 4
CIRCUITS	9 CA3080/	1
DEFE	9 DAC8043/SSM2135/AD820/OP295/OP90/AMP04/REF43/REF02/IRF9531/ 2 BB505B/	4 0
WEEKENDER	2 ICL7660/78L12/AT12570-5/2N2369A/1N754/1N749/	4
RFDEAW	1 MC145152P2/XR2209/74HC4046/74HC161/74HC74/74HC08/	6
BUILD THIS	1 ICL7106/LF347/LCD002/4070/4030/2N4124/1N4148/	6
HARDWARE	3 SC01/M8255A/74LS136/7400/4049/7417/LM380/2N3391/	5
NEAPTE	2 UC1840/UC1901/UES1402/UES1102/USD945/2N2222/UFN731/1N914/	3
FACTCARD	6 MC1310P/741/LM101A/2N3819/2N2905/2N2222/TIL209/LM103/1N6666/	4
DEAP	2 MC34060/MC34129/MTP10N25M/MR2404/IN5240A/IN4744A/MDA2504/	3
ADELSY	1 MC10H131P/AD9687BD/LF353N/X9103P/MAR8/	4
AIANCH	4 AD574KD/AD583/AD561KD/AD509/DM8216/74365/74154/74123/74100/	9
DISK DRIVE	3 WD1010/WD1012/26LS32/26LS31/7414/7438/	3
APID	1 AD595AQ/RS348-431/BC108/RS283-233/RS158-913/ 1 CD4047BE/CD4040BE/CD4024BE/CD4013BE/CD4001BE/2N3904/2N3566/	2 9
ARTICLES	1 AD504/HC2500/	2
ARTICLES	1 AD507/	1

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ARTICLES	2 AD504M/2N4250/2N6451/BC547/	4
	2 NE5532/TL082/5553U/LM393/1N4003/	6
	2 NE5534N/TL074NCN/TL072CP/WSK117/MPSA56/MPSA06/1N4736A/1N4002	7
CIID	1 NE5534/	4
CIID	1 NE5534/NE5533/	2
	1 NE580/	2
APPLICATIO	1 REF102/OPA27/	2
CICI	3 NE602/LM386/2N3904/1N914/	6
	2 HEF4750/W3M12A/NE531/UA741/	2
APTE	1 SFC2318/	1
CIID	1 BFR96/BC161/BB405B/	2
	1 LF412CN/2N5087/2N5210/1N5239B/	9
CIID	1 BFQ69/BFR93/BFR34A/	1
	1 LF356/MC14016/	3
RFCO	1 BF961/BB105/	1
ARTICLES	1 LH0022/2N3053/	2
	1 SHM-LM2/741/7404/	3
	1 LH0033CG/LH0002CH/2SC1730/2SC2901/05Z33/	5
RFDEAW	2 EHA2539/SD5000/2N3906/2N3904/HP5082-2800/1N914B/	6
ENHANCING	2 PIC16C54RC-P/78L05/	1
SPFE	2 TIC47/2N2907A/2N2222/1N4148/1N4005/1N198/	3
	1 TI741/32A223/	2
ARTICLES	4 HI201HS/LM310/LH0033/	1
APPLICATIO	1 NJ88C31/	1
	1 TL082/AD533/	3
QRP	2 6L6/2N2905/2N3905/	1
COMMUNICA	2 TL084/LF356/1N458/	7
	3 TL082/VT1113/	2
SCEX	2 TLC271/SE3470-003/SE5455-00003/VTS3011/VTS3012/G37-336/	1
PATA	2 TL081/2N2222/	1
CIID	1 TL494/40106/BUZ10/	3
RADESY	1 CLC200A1/2N5829/2N4917/DA1701/	4
	2 ALS640/ALS569/ALS245/ALS240/	9
PROJECT	2 TL071/NE5532/LM358/TL072/	2
	2 CLC102/CA3127E/2N4957/MD5000/2N3906/	6
APPARATUS	1 TL066/4053/4013/4040/	5
CIID	1 TL071/	3
	1 ILC8069/276-1793/	0
CIID	1 TL084/BVZ71/IN4148/	2
	1 AM29116/29517/74F283/F153/27S2I/74S374/25LS2521/2149/F244/	9
	2 LM360N/74S112/75110/75107B/MC6821/74LS365A/74123/74LS08/	6
ARTICLES	3 LM317T/LM337T/LM320T/LM340T/3053/2982/2962/2961/3N246/1N4001	9
	2 LM3900/1N5226/2N5449/TSP102J/	2
RFDENO	1 LM339/MRF961/BC548/ISS97/	3
LAEX	1 LM2917/LM311/2N5062/1N751/1N4001/	3
DECA	1 MM74C14/LM340LAZ/2N6714/2N6726/1N914/	8
COAR	2 LM324/555/IRF511/2N3906/2N3904/1N914/NE2/	4
HABA	1 LM2575-5/1N5819/	1
NOTES	2 LM224/4011/NSM3914/NSM3915/CD4069/2N3906/2N3904/1N914/	7

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MENUSP	3 LM318/LM311/74221/74164/74160/74123/74122/7474/BF167/ 1 LM324/	8 1
DEID	1 LMC669D/LF347/1N457/	2
NOTES	2 LM351/	4
NODETE	1 LM741/SK147/2N3819/2N2907/2N2905/BC109C/	9
SPCO	2 LM324/OP07A/	3
CIRCUITS	4 LM309H/LM741/1N5431A/LM363AD/INA101/	2
COSEBIP	1 LM1458/	1
AUDIO	3 LM6361/TL071/BAT85/1S44/ 1 LM741CN/LM741A/LM301AN/LM149/	3 2
RFFETE	6 LM833/2N4416/HSMS2805/	2
FEATURES	3 LM339/TLC555/741/2N3906/2N3904/ECG553/ECG555/276-565/1N914/	8
DEFE	1 1N5441B/BFW92A/ 1 SN76660/BC107/ 1 2N404A/2N2613/HEP53/1N456A/	1 3 4
NEW IDEAS	1 2N2646/2N3904/	2
FEATURES	1 2N4416/	1
FEATURES	1 2N3906/1N914/	1
CONSTRUCTI	2 1N34/1N914/	0
APPLICATIO	1 INA106/OPA637/ 1 3N128/	3 1
APPLICATIO	1 1N34A/1N39A/276-1123/ 2 2N4360/LM308A/CD4066/DC4066/LM339/CD4047/74C00/74C04/74C74/	0 9
ASK BYTE	1 2N3904/	1
HOME-BREW	2 2N2222A/276-2009/276-068/	1
FEATURE	1 2N3819/BC183/	2
COCO	1 1N60/1N456A/	0
SHPA	2 INA105/UA741/ 1 1N34/1N60/1N270/	2 0
DEFE	1 OP27/MC12040/MC10016/MC10KH016/SP8668/UPB581/MC10105/	6
DOSPRAMEA	1 XP2020/8854/	1
ARTICLES	3 MPQ6600A2/LF411A/TL071/LM334Z/79L15/78L15/MPSU95/MPSU45/ 3 MPS-U06/MPS-U56/1N5282/5082-4650/1N914/2N4393/	8 2
BUILD THIS	1 SP8680/11C90/2N2857/1N914/ 4 MPS918/BFY90/2N4427/2N2219A/BC183/BC184/2N3704/BB105B/BD132/	2 7
SPISPA	2 OP42/OP37A/LM114A/IRF9530/2N4222/2N3810/2N2219/	6
REPA	3 OP27GP/LM741C/LM1458/	2
REPA	1 OP27GP/	5
DEFE	5 OPA2111/MPY634/OPA627/OPA111/INA105/OPA77/ 1 OP07E/1N829/	2 1
IDDE	1 IRFD9120/IRFD220/2N5550/2N5401/1N5228A/1N754/	4
RFCOST	2 MRF559/MRF901/	1
PROJECT	2 XR2206/2N6015/2N5825/7812/1N4002/1N4148/BC237/7413/	5
COMPONENT	1 IRF720/SG3526/20CTQ040/3KCB50/40SL6/10D10/1N4001/ 1 RS8038/TL081/DG200/BU1L05/BC182L/	3 9
REVIEW	2 SSM2016/IRF630/1N914/1N4002/1N4001/ 1 3SK88/BFW92/2N918/1N4148/	2 4
WEEKENDER	1 MSA0104/MSA0185/MAR01/78L05/X118/1N4001/TK3313/TK3401/	4
CIID	1 LS151/LS175/LS138/LS74/LS390/LS04/LS193/LS374/	9

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APPLICATIO	1 TSC805/	1
ARTICLES	1 3SK166/S8901/CXY23/	2
PRUP	1 LT1017/YSI44011/	1
IDDE	1 LTC1040CN/H11AA4/2N6028/2N5088/NE2E/	5
DESIGN	3 LT1008/LM311/LT311/LT1012/LM301A/LM329/LT1004/LM107/2N2979/	4
	9 LT1001/LT1025/LTKA001/LTC1050/LTC1043/LT1013/LT398/LT1017/	9
DEID	1 LT1014/	1
DESIGN ENT	1 MTE200N06/MR871/MC14050B/MC14528B/1N5246/1N918/MR2525L/	3
	9 LTC1043/LT1013/LT1056/LT1007/LT1011/LM301A/2N4338/319A/74C74	5
	9 LTC1052/LT318A/AD547J/LTC1043/LT1011/LT1010/LM301A/74C90/	9
	1 UV215B/PN3527BM/PN4291/	9
DESIGN SOL	1 4015B/4030B/1N4148/	3
DAACSY	1 100151/100131/100102/	4
	1 4071/4081/4013/4049/	3
ARTICLES	1 8013/741/	2
	2 4011/2N2222/1N4003/7812/276-1146/	2
	2 8085A/8155/8755A/NSB5881/AD558/2N5302/BDX33A/633450/AD561/	9
PROJECT	2 8088/80C88/8155H/81C55H/8251A/82C51/8284A/27256/27C64/6264/	9
IDEAS FOR	1 4085B/4029B/4093/	5
	2 4070B/4006B/BC547/CA3140/	3
	1 4028/4009/4076/	6
	2 4015/4070/2716/4081/741/HA12BC/	7
PROJECT	1 4027/4023/7812/2N2222A/1N4001/	5
ARTICLES	3 8038/1548/CD4049/IN914/	3
APPARATUS	2 4069/2N3904/	1
SUPA	2 308/766/NE555/SN74123/7473/2SC737/2SC373/PD3L/	6
	2 4051/UA741CV/4066/	2
FEATURES	2 80C196KB/74HC86/74HC74/7438/74HC14/H11A1/	5
CIRCUITS	9 4001B/4027B/4071B/4013B/7555/2N3904/	2
	2 4047/YSI44008/YSI44006/	1
INPOCOSYDE	1 8088/8259/8255/8253/8251/	4
ADIC	1 80386/82C307/V63C308/	4
	1 4066/324/301/	3
ARTICLES	2 8007C/301/S5741/751P/	3
CIRCUITS A	4 3080/741/2N3906/1N4148/	3
DESIGNER'S	2 L144/	1
PROJECT	2 7107/741/DL707/M73/LH0070/	6
PROJECT	3 710/74LS02/7812/7905/	3
CIRCUIT ID	1 C1060/NE555V/1N4001/	2
	1 8131/74LS157/74LS04/74LS245/74LS244/	7
	1 C106B1/HT32/	1
	1 3140/BPW21/	2
DEID	1 F100131/F100124/F100102/F100101/2N3906/2N3904/	9
NOTES	1 A123/	1
	3 3140/7400/H13B1/74121/2N5138/SC45B/2N2222/1N3139/1N148/	9
	1 710/SG173/SN741/IC10BC/SN7411/SN7486/SN74175/SN7493/SN7432/	9
PROJECT	1 6270/TL081/TBA820/	3
FEATURES	2 8255/74LS240/74LS00/	2
	2 7217BIJI/7207A/CD4066/LN543RA/P340/MPF102/74LS00/74LS90/	4

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	1 8212/7414/2N3904/MRD150/1N914/	3
	1 52J/4705-01/LM34015/LM32015/2N2369/OLD122/14040B/5082-4220/	9
NEW IDEAS	1 2240/MOC3010/2N3904/741/	5
	1 221/76/02/86/1S1588/2SC1000/	8
KIRE	2 12AX7/12AT7/MPSA42/MJE340/3N253/1N5257B/1N4007/	3
	3 8255/6800/81LS97/74LS245/74LS136/74LS05/30/10/04/00/	9
	2 S228/2N3904/AD515/	8
	1 723/2N3055/	2
	1 93415A/74S157/74S161/TDC1016J8/74LS244/74S32/74LS121/74S08/	9
	1 536/UA747/	4
	1 5301/5306/74161/7485/74121/7400/7407/	9
DESIGN ENT	1 B3210/B2210/B3110/B2110/B3120/B2120/	3
DESIGNER'S	1 74192/555/741/BC147/HP5082-7300/1N4148/SN7475/BC158/	9
	1 74LS04/BSX20/BCY71/BAY94/1N3941/	3
EXPERIMENT	4 741C/2N2222/1N914/741/	2
	2 74123/7476/LM311/2N2222/74LS06/SG3524/2N5328/DS0026/HA4602/	8
	1 74F08/74F00/74F32/74S38/	4
	3 74S20/RT3333/2N3137/2N2494/SM3124/2N2905/1N4148/IN750/IN4447	3
UPDICLAD	1 7473/7400/	2
	2 741/SN74121/MH2009A/KF521/KP101/KF508/KU611/KC508/KA502/	8
TEUP	1 7474/LS04/LS00/	3
COSE	1 74107/7490/7447/MAN72/	7
	1 74184/555/74192/7483/7413/7447/555/553/2N3904/1N4148/	9
DESIGNER'S	1 74192/7474/74LS168/7400/	9
APTE	2 747/MC1438R/LM319/ZTX108/4016/79L15/79L05/78L15/78L05/	9
PROJECT 80	1 74LS32/74LS08/74LS04/276-041/	4
	1 74C221/FND507/CA3162E/1N4001/CA3161E/7805/2N2907A/1N914/	9
PROJECT	1 74LS85/	2
	1 74LS85/	2
APPARATUS	3 7476/7400/7413/	3
	1 74LS162/74LS47/74LS175/SK3122/TIL32/TIL78/74LS14/	9
	2 741/LM386/2N2222/2N3904/	4
	4 7485/556/555/74193/74192/7447/	8
	1 74LS373/74LS86/74LS74/	9
PRMO	1 741/LM386/	4
TENO	2 1458/FND357/CD4511/CD4029/CD4042/CD4024/CD4022/2N3643/23/5/	9
DEID	1 74HC521/74HC574/74HC393/74HC74/	4
IDDE	1 74C157/74C74/74C85/CD4029/74C32/74C08/74C00/74C04/2N3391/	9
NEW IDEAS	1 7490/7441/7400/555/1N4001/	5
NOTES	1 741/	1
	5 7486/7432/7408/7404/7402/7400/	3
ASK BYTE	1 74C14/FPT100/	1
NUEL	6 74S260/74LS164/74S162/74S140/74S133/74S86/74S85/74LS32/	9
NUEL	1 74192/74123/74121/MM5061/TIL311/7493/7490/7474/7420/7402/	9
CITEAN	1 74LS74/74LS14/DS0026/IRFF111/43002-93/	6
	1 741/2308/	3
	1 74F521/74LS221/74F109/74F86/74F20/74F11/74F04/	9
TEME	5 74HC40103/74HC4543/4093/4067/74HC4060/4059/74HC4040/74HC696/	9
APNO	1 74LS247/74HCT192/CNY70/74HCT132/74HCT00/HD1131/1N4148/	9

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APID	1 74HC4060/74HC190/74HC10/74HC04/	5
	1 741/1N4148/	1
	1 7400/74123/7406/CD4066/LH0002CH/5082-2800/	5
	1 7473/ML1/2N5486/SRA1/2N2222/	5
	4 74150/7493/7492/74193/D42C3/D43C3/SN7402/LM340/SN7490/NE555/	9
MAG ERROR?	1 74393/7485/74174/	3
ASK BYTE	1 74193/74LS157/	5
	1 741/2N2222/LL9/	3
APTE	2 7445/74145/7407/MCT272/	6
	1 Q4004LT/	1
	1 741CV/UA747/MC1741S/ICL8038/2N4123/WE400/1N4004/1N914/	9
	1 74154/7493/7474/7404/	9
FEATURES	2 74HC14/74HC08/7405/74HC02/7805/2N3906/1N4004/	5
COAR	1 74192/7492/7490/7447/7400/MOC3010/LM7805/C106B/TIP41A/2N3904	9
COAR	2 74LS373/7805T/2N3906/2N3904/1N4004/	4
DEAP	2 74FCT245A/IDT7187LS256/FCT138A/7164L30/74FCT244A/74FCT240A/	7
FOREGROUN	3 1408/741/74192/7476/7474/7400/2N3906/1N914/	7
PROJECT	3 7404/7805/276-035/	1
	1 741/	3
FEATURE	1 74LS138/74LS05/4511/7437/	5
	1 74LS123/74LS132/	2
	2 741/714/RS307-979/2N3704/	3
	1 74LS390/74LS151/74AC74/	3
APNO	1 7400/7405/7404/ECG3028/ECG3036/	4
NOTES	1 14536/4089/4040/	3
ASK BYTE	1 74LS123/74LS74/74LS08/	3
LEED	1 74279/733/361/318/74123/74121/HP4360/ME7024/BSX39/	9
	2 7410/40106/4017/1N4148/	5
DEID	1 74ALS74/74ALS08/74ALS04/	2
NOTES	1 74LS74/74LS14/DS0026/IRFF111/43-007/1N5817/	7
CIID	1 74HC85/4093/4040/BC184L/BC212L/ORP12/1N4001/	6
APTE	2 7420/7490/7476/7404/74C04/2N6124/2N3567/74121/	4
	2 741HC/4705/2N7473/2SC372/2SC486/2SA483/2SC783/2SC793/2SA663/	9
	1 747/	1
PAPERS	1 74C164/LH0002/MC14016/74C86/74C30/74C02/	9
	1 74123/7493/7410/	3
	1 74123/SHM-IC1/531/7400/	4
DECA	1 74154/555/7493/2N2222/	4
	1 74LS240/74LS112/74LS8C/	3
	2 74LS279/74LS74/74LS123/2N3705/74LS241/EC6128/IN4007/	6
	1 74191/DAC08C/74109/74123/LM361/7486/7432/	9
COMPUTERS	1 74LS73/74LS373/MM54104/MM52164/LM346/LM386/	9
	1 7400/7432/7408/7406/	4
	1 74165/555/74192/7473/9309/7420/7404/	9
	2 74193/74192/7448/7490/7420/7400/	4
	1 74151/7493/555/7474/7442/7400/	9
BACKGROUN	2 74LS95/74L95/74LS75/74LS14/74LS04/74LS00/SN75452B/1N914/	6
CIID	1 74HC14/BC558C/BC377-40/LM385Z2.5/BAT85/IN4148/	3
DECA	1 74LS04/74LS74/	2

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	3 741/747/1N914/OP2/LF156/	3
REPA	2 74121/555/2N3055/BFY51/BC107/BFY50/BC477/BC109/BZX61/IN4001/	9
COPA	2 74HC164/74HC221N/74HC00/CD4066/	8
ICLO	1 1461/	1
PAPERS	1 74HC4040/LT1016/74HC373/74HC123/LM311/74HC08/OPA633KP/	9
	1 74LS76/74LS32/74LS04/SRA1H/2N3904/IN914B/	9
DEID	1 74193/74151/74154/74LS161/7474/7402/7400/7404/	9
	5 4520/4098/4094/4081/4050/4049/4023/4021/4013/4001/BSX20/OA47	8
FOREGROUN	1 555/7474/7400/2N2102/	4
	1 355/531/MC1438R/1N4148/741/	6
	2 4520/4508/4044/2003A/4040/74C221/74C914/	4
PAPERS	1 752N/1439/741/	3
	2 555/7490/7447/SLA7/1N4001/7805/2N388/7400/1N4734/	9
	1 4534B/4511B/4068B/4049B/4020B/4017B/4093B/4013B/BC109C/	9
	1 555/7490/	2
TECH TIPS	3 7555/4017/4066/BC108/74LS20/74LS32/	6
	1 4553/74121/7400/BCY72/74121/7490/BC108/4046/7447/	9
	2 555/74123/MAN3620/7490/74121/7447/7400/7475/	9
	1 555/276-1723/SN5556/MC1486/MC1489/SN75189/7400/2N2222/1N270/	8
	1 555/2N3905/2N3903/276-1657/1N4001/1N914/	3
NOTES	1 9582/95H90/SN7497/SN7413/2N2904A/	7
FEAR	4 555/LM324/Q2004F31/2N2222/1N4001/	2
PROJECT	2 4538B/4030B/4013B/78L05/BC179/BC479/1N4002/	5
CIID	1 556/7474/7408/7404/	4
AIANCH	1 755N/LF356/	4
TENO	1 4528/4583/4530/4011/BC107/AC128/	9
COAR	1 555/TIP120/2N3055/IMD5210/	3
PATTER	1 555/340/	2
	1 555/74C175/MOC3010/40175B/276-134/276-1000/1N4001/	9
HOCO	3 555/7490/7447/7448/7475/74155/7404/	4
ASK R-E	1 555/2N3906/	2
ELCOCI	1 555/340/	2
	1 555/7555/	1
DENO	1 3584JM/	1
CQ REVIEWS	2 M50780/UPD7801G/RP5G01/74LS377/4528/UPD549C/74LS08/MP54929/	9
	2 555/74C42/4040/3915/1N914/1N4004/TIS93/MIL317/	9
	1 556/4013B/4066B/2N3904/1N34A/1N914/	5
APPARATUS	3 555/00/04/7213/7474/32/8830/7217A/7805/	9
	1 4558/4136/LM308/LH0042/	9
APPLIED ID	1 4538/74LS123/4011/74LS00/4013/74LS74/	3
	1 4518/4069/7555/1N4454/1N4003/LM336/	5
	1 1509/809CE/703L2/2112/MV5252/	3
PRSP	1 555/DAC0806LCN/MC1408P6/7493/741/	5
	1 7631/ICM7858/4016/7611/4013/4001/VN46AF/1N914/	9
NOTES	1 7611/741/ZN425/4024/555/7224/	4
10SHPR	1 7660/1N4148/	1
ENRE	2 76477/74LS192/74LS123/2102/TL074/7447/7442/74LS00/MAN6710/	9
CICI	4 567/1458/741/2N3906/2N3904/1N914/	4
	4 96687/AD9500/AM2502/AD9686/74193/7408/MC10131/	7

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MIDE	1 16G044/LT1028/PA19/	3
	4 27256/27512/CD4040/AD7224KN/CD4013/LM324/CD4011/74HC138/7905	7
	2 1700-02/1700/NE566/2N3119/40251/2N697/IN1519/IN752/C811C2B/	7
SUPA	2 872A/D71570-2/NE2H/	2
CIID	1 2716/7493/7408/1408/741/	6
	2 276-022/1N4001/7810/276-1171/	2
	6 2732/TR1602/4019/4040/4556/74C157/4511/AD2020/80C95N/LM324/	9
HIKI	1 7810/276-022/	1
PROJECT	1 7805/2SB753/	2
CITEAN	2 084/X9503/	3
TENO	1 Z80/NMC27C16/HM6116LP3/ADC0804/MC14412/LF441/LF444/CD4013/	9
	2 Z80/6116/2716/74LS374/TDC1016B7C8/74LS164/74F283/DM87SR27N/	9
CODI	2 P8255A/2716/HM6116LP4/74LS240/74HC138/723N/74LS27/MPSA13/	9
ARTICLES	1 Z80A/8279/I8255/I8253/	4
TENO	1 Z80CPU/Z80PIO/8255/6116/2708/	3
QUESTIONS	1 78L12/	1
CODI	1 6821/68B21/	1
FEATURES	1 7812/2N3055/	6
PROJECT	2 78S40/OA91/6821/LM317MP/BC184L/74LS126/74LS245/74LS138/	9
REVIEW	1 7805/	1
SERIES	1 7815/	1
PROGRAMMII	1 5837/TL082/	2
TEBUIIT	9 6802/MF4-50/RC4558/DAC0800/6850/74LS374/4046B/TL081/LF398/	9
HAM RADIO	1 7805CK/7805CT/	4
	1 29C48/29C53/82530/8031/	4
SEMICONDUCC	1 IAPX186/8272/82720/8279/	4
	4 CA3450/3318/3085/LF356/74LS682/2016/74LS273/8254/74LS245/	6
IDEAS FOR	1 PAL12L6/74LS175/74LS74/74LS14/74LS193/	7
	3 MA1020/CD4012/2N2222/	4
	2 DAC1007/LM741/LM340/2716/4528/4082/4040/4030/4011/4514/40175	9
	1 CA3059/CA3080/UA741/CD4052AE/CD4013/CD4001AE/3N138/2N4126/	9
DEID	1 MAX623/MAX480/IRF541/1N5819/1N914/	3
DEID	1 DAC8408/OP470/	3
	1 MA6005/MA6002/MA6001/	4
IDDE	1 DAC8221/OP61/	2
	1 TA329/DF451/	1
SIUP	1 PAC1000/HC374/	2
BUILD THIS	1 CA3162E/CA3161E/FND507/2N2907/LM340T5/1N4002/1N914/	9
	1 CA3140E/SN72741N/	9
	2 UAA170/1N4148/1N5231/1N4001/	1
	1 UA741/	5
	2 DAC10/2764/LF356/4040/74HCT273/74HCT390/74HCT123/BS170/7908/	9
	1 DAC0806/LM1458/LM741/7493/555/7805/7812/7912/1N4007/	9
NOTES	1 DA1702/	0
	1 CA3140/555/3N138/2N3055/BFR79/BFR39/2N3704/	9
NUEL	3 CA3080E/MWA210/CA3127E/A5T3571/A5T4261/BFT92/BFT25/1N753A/	9
APID	1 CA3080/555/	3
PAPERS	2 UA308/	6
PAPERS	3 CA3140E/74HC4024/74LS684/74HC373/74HC273/74HC241/6116/2N3055	8

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HAM RADIO	1 DAC0806/555/741/7493/	8
DEID	1 DAC08/MAT03/	4
CODI	2 DAC0808/LF353/74LS373/74LS374/74LS221/74LS244/74LS74/74LS14/	9
BUILD THIS	9 CA3162E/CA3161E/LM324/SX30DN/LN514RA/LM340T5/2N3906/1N4002/	8
	2 HA2539/2N4416/2625/	2
ARTICLES	1 UA760HC/LF357/IC8BC/3508/LM310/74LS283/74LS221/74LS193/RD5A/	9
GEIN	1 CA3130/78L05/MJ2955/BD677/BC546/1N4001/	5
	2 UA725/UA777/UA726/GA51P68/F14D/TH-B11/1N4004/	4
DEID	2 MAX666/MAX631/7427/7406/7402/2N5193/	5
DESIGN ENT	2 DAC8012/PM7545/OP27/AMP01/	5
CIID	1 CA3080/741/	4
PHOTODETEC	1 CA3140/74123/C8T/2N3566/TIP41/	6
PRFO	1 MAX328/	1
TECHNOLOG`	9 CA3140/UA741/4001B/C106Y1/2N3704/2N3702/2N3054/1N4148/1N4001	3
	1 DACHA12BC/741/IC74124/MC145151/	3
	1 SAA7320/7226/CS5326/TCM2913/TCM2910/TDA1543/	7
	3 MA8334/NE2301/2N3866/BA182/BFY90/MA45462/OA85/2N2905/2N3860/	9
COMAPH	2 MA8334/8253/74LS193/74LS373/2N2907/2N2222/1N4148/	9
	2 DAC7541/74154/7475/74367/74193/74123/1DC817/	9
DEAP	2 PA04/OP37/	2
	4 CA3140/741/74193/BMC1033/7493/74154/74151A/7476/7490/MAN72/	9
	2 CA1458/CA3140/LM78L05/CD4020BE/CD4013BE/2N5061/2N4037/2N3094	9
DEID	1 DAC0832/4N35/TL084/MPSA42/1N4936/1N4148/	4
	1 DAC1220/8255/LF351/7406/	6
INTERFEROM	1 HAD1100/AD524/LF346/MPY534/LM143/4423/	9
DEID	1 DAC08/74HC14/74HC74/1N914/	3
DEID	1 MAX635/MAX636/MTP8P05/CD4069C/IN5817/	3
REPA	1 CA3280/	2
PROJECT	3 TBA820M/LM386/276-1731/NE555P/TL555P/	1
DEAP	3 PB58/PB50/AD712/AD711/TIP127/TIP122/2N5550/2N5400/MUR110/	6
	2 2B30J/7815/7915/	2
	4 BB3662/AD460J/BB3500/741/74151/74174/74193/7474/7407/75483/	7
COMPONENT	2 MC68000/74393/LS303/S241/S157/S112/S74/S37/7426/S10/S06/S04/	9
RATECO	1 BC556B/BC546B/1N4148/	2
APPLICATIO	1 PCM63P/DF1700P/YM3623/OPA2604AP/	8
MICROWAVE:	1 MC1350/	1
	1 ICM7216D/SL560CDP8/SP8629/4016/1N4148/1N4001/74LS14/7805/	6
STATE OF S	1 MC3334/MJ10012/	2
	1 BC182L/	2
CHEMOMETR	1 MC14433/ICL7135/HEF4051B/8212/	4
ENGINEER'S	1 ICM7208/ICM7207/2N3819/TIL209A/2N3906/1N914/CA3046/	7
DECA	1 ICL7106/ICL7109/	1
FOREGROUN	1 ECG123A/	1
BUILD THIS	5 MC1358/LM1800/LM358/NE570/2N3904/2N3906/2N2222/IN4002/	7
REPA	1 MC12040/MC10116/2N4416/	4
	1 ICH8500A/RP4500/	2
	1 ICL7650/MPX100/3SK51/BC212/DPM200/1N914/	5
CORRESPON	1 BC108/2N708/2N2904/IN4148/BYZ88/	9
	1 3CX800A7/1N3996A/NE51/1N4001/	1

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10 SHORT P	1 BC184L/4011B/1N914/	3
APSU	3 MC145426/MC145428/MC145413/MC14403/MC145406/MC34119/MC34129/	9
LEED	1 MC10114/MC10131/MC10197/	4
DEID	1 MC14020/HCT132/	2
	3 ECG941/1N4735A/BOP100-4M/SD380-23-21-051/	4
CODI	1 MC68705P3/7805/IRF511/1N4001/	3
GLAT	2 ICM7217JI/SN74LS13/7413/MRD310/ECG3032/276-053/7805/1N4001/	2
NUEL	2 MC10136/MC10102/MC1068/MC1067/MC1032/MC1010/MC1007/	9
	1 BC546B/BC556B/MPSA55/MJE350/MJE340/MPSA05/2SK134/2SJ49/	9
APPLICATIO	1 UC3854/IRFP450/UHVP606/1N5820/	2
ARTICLES	2 PCM53JP-V/AD558KN/NMC27C512AQ120/CA3140/MTM2N90/2N3904/1N914/	7
DEID	1 UC1842/1N4148/	1
	5 MC145426/MC14402/MC146805/MC145422/MC14418/MC145426/MC145428	4
	3 MC7424/6522/7405/74121/741/LS221/	2
DEID	2 MC10136/MC1690/MC10105/	5
	2 ICL7605/ICL7109/ICL7600/ICL7601/ICL7106/	3
DEFE	9 MC68HC05B4/U LN2068B/MTP10N10LM/MJE5420Z/MTP3055EL/MC14106B/	6
DEAT	1 MC14573/MC14575/74HC74/	3
	1 MC1723CG/MC7815CP/2N3055/2N5296/2N4126/2N2323/1N67/	8
NEW IDEAS	1 ECG133/ECG128/HEPZ0214/	2
ENNO	1 MC3403/CD4028/AD584/CD4016/MC6821/2SC1850/2SA889/	6
	9 MC14528B/MFOD102F/LM567/LM566/LM386/LM565/MC14093B/MFOE102F/	3
	3 UC3525A/UC3843/UES1101/2N2907/USD545/	1
	2 MCI10198/MCI0H116/MWA310/MC10195/MC10177/LM307/MVAM108/	6
ARTICLES	1 ECG5599/	1
DEID	1 ICL7107/CD4024/555/CD4011/	4
APPLICATIO	6 MC68HC11A1P/MAX690CPA/LM29312/MAX232/27C256/6264LP/74HC4078/	7
FACTCARD	4 ICM7555/555/4049/BC109C/TIL211/TIL209/	2
BUILD THIS	2 PCIM2303/MOC3010/MOC3002/276-568/2N3904/2N3906/276-1000/	5
LETTERS	3 ECG398/LM340-5V/LM340-15V/LM320-12V/	2
	1 MC68705P35/2N6240/MC7805CT/MR754/1N4001/	3
DEFE	1 MC1469/LM304/2N3771/SK3446/2N706/	5
	1 MC6809/6840/2716/2114/74LS244/ADC0804/7420/7410/	9
	2 RCA8854/R1332/	1
	1 ICL8013/	6
	1 BC549/LF441/	3
	1 RC741C/BC183LC/MSP6/MGA5000/YSI44105/1N4002/	2
APPLICATIO	1 UC3843/MC34181/MTP3055E/2N5061/MOC8102/1N4741/1N4740/1N4735/	6
DAACSY	3 MC34081/CX20197/MC34082/CA3280/UPA70A/2SK322/2SK316/2SC2295/	9
CIID	1 ICL7107/LM311/CD4013/	4
	4 ADC1205/ADC1225/IN4148/LF444/CD4066/LM368-5.0/LF13508/LF398/	5
ARTICLES	5 AD712/NE5535/LF411/NE5534/LM6361N/NE6361N/LM6321N/NE6321N/	6
HANO	1 6DQ6/6AQ5/	3
DEID	1 AD7111KN/NE5534AN/CD4030CN/2N3904/	5
DESIGN	1 TDC1029/741/2N2907A/IN5226B/CA3127E/IN5233B/2N4957/IN5232B/	6
	2 AD542/AD521/AD7581/LM339/14584/VN10KM/FPT100/1N4000/	6
	1 AD741J/OP06G/	6
	2 AD7530/CD4040/RC4153/CD4518/CD4040/TL073/CD4047/CD4052/	9
	3 AD712/NE5535/HA7-2520-2/HA7-2525-5/HA3-2525-5/	3

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PAPERS	2 CD4046/LF353/BF256/BF967/BSX20/2N3904/2N3645/2N3054/SFH202/	9
BUILD THIS	2 CD4011/LM380N/MC7805/LM324N/VN10KM/276-2070/	6
IDEAS FOR	1 CD4511/HP5082-7433/CA3162E/CD4050/1N914/	4
	1 SD5002/NE5539/	2
	1 CD4518/CD4554/CD4081/CD4511/CD4013/CD4584/HP5082-7653/	9
DECA	1 CD4017/MC3403/CD4001/	3
TENO	1 CD4528/4538/CD4018/CD4046/2N3707/7400/071/	9
DEID	1 AD7545/NE5534/	2
	4 TDC1018/LT1817/LT1001A/LT5839/LT1839/LM113/	4
NOTES	1 AD515/AD510/NE555/74121/MPF111/AD2026/	6
	1 CD4021/74279/74161/7493/	6
	2 AD7828/74LS373/74LS245/74LS191/74LS161/74LS138/74LS125/121/	9
INPR	2 TDA7052/BC547/BC517/TIP147/BP103-3/	2
PRBU	3 ADC0804LCN/ICL7106CPL/4053/4051/OP77GP/LM10CN/SCX15ANC/BUZ71	9
ARTICLES	1 ADC856C/LF357/	2
DEID	2 ADC0804/CD4098/MC14514/74LS240/LM307/MOC3021/TIC263/BC549/	8
DEAP	3 AD845/AD843/AD841/AD671/DG542/DG419/DG417/SD5001/2N4148/	5
ENHANCING	9 ADC0808/74HC373/74HC245/74HC85/74HC74/74HC04/74HC02/MOC3010/	9
COAR	1 CD4040/LM556/LP324/LM2931A/CD40106/MPSA12/1N914/	6
DEID	1 AD539JN/5539N/	2
	6 AD538/AD547/ADOP07/AD589/	2
RESEARCH P	1 AD504M/741/2N2219/	3
	3 CD4528B/CD4013B/2N2222/2N3055/2N2222/1N4001/1N914/1N4148/	3
DESIGN ENT	3 ADC910/AMP01/MUX24/74138/OP27/74LS138/68000/MAT01/	6
	6 AD7546/LM329/LM336/LF356/ADC1210/LHOO71/IN5221B/4093/8088/	9
IDDE	1 PDSP1640/AM27521/MV95408/74AC74/74AC161/74AC244/	9
REPA	1 AD533/LM318/LF398/	9
IDDE	1 AD7524/LF353/CA3096/2N3906/2N3904/1N750A/	7
DESIGN	1 AD7524/OP227/4049/	2
PRODUCT UP	1 CDG4469/	1
	1 AD515/S1337-1010BR/	1
DEID	2 AD7545/AD7512/54C193/AD644/54C00/1N914/	9
DEID	1 CD4053/	1
	1 ADC0804/74LS244/74LS245/74LS138/74LS123/74LS32/741/74LS20/	9
NOTES	1 AD7503/BB3500A/AD606/7427/AD2701/	5
CITEAN	1 AD532/	1
DEAP	1 ADSP2101/AD779/AD766/	3
	2 CD4040/MM74C150/LM355/74C164/3905/CD4016/UA715/SN74C477/	9
BIEL	1 AD844/AD7510/SN74121/	4
	1 AD46J/AD540/TP1321/	5
	1 AD521/MC14584/555/339/741/	8
DEFE	2 AD7240/HA5135/LF411/TIP116/1N4152/1N4756/OP27/LM299H/LM385/	5
PROJECT	2 CD4066B/TL072/7905/7805/1N914/1N4148/	2
ARTICLES	1 AD582/LM348/LM0042/LM339/SN74LS05/SN74LS123/SN74LS112/AD201/	9
	1 SD200/	1
	1 CD4051/74LS124/	2
	7 CDP1867/CDP1853/CDP1857/CDP1854/CDM6116/CDP1874/74HC573/	9
SPCO	1 CD4017/CD4013/74C14/CD4001/2N3904/2N3725/	9
ARTICLES	1 AD624/OPA111/	2

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CIID	1 TDA2004/TDA2005/4069/BC548/BYX55/1N914/	3
	2 NE555/340-12/2N2222/2N6124/1N4004/1N4003/	3
NOEX	2 NE567/NE555/2N3053/	2
NOTES	2 NE5539/VN66AK/GAL102F/1N914/	1
COMMUNICA	1 NE592/MC1496/TBP28S42/QHF2A10/AD567/	9
ABBE	1 NE555/1458/2N2907/	3
FEATURE	6 NE555/LM358/CA3140E/78S15/4017BE/4001BE/UA7812/TIP122/TIP127	7
SCIENCE FA	5 HEPS9100/HEPR1001/H13B1/LM311/HEPF0010/HEPS0011/SK3004/	4
DEID	1 NE5534/AD7545/	2
	1 NE5532/	1
PAPERS	1 NE555/OP07/VN0606M/1N4442/DPM176/S130/	5
PAPERS	2 NE536/NE531/741/DG200/DG190/	5
APSU	2 NE5230N/LM324/KMZ10B/BC558B/BTY83/KTY81-120/	3
STATE OF S	2 NE570/LM324/TDA1034/	4
	3 HEF4053/555/4073/4027/CA3078/BC109/2N5551/BC477/BD133/OA202/	9
ASK R-E	1 NE23/C106B/	1
REBARE	2 NE555/LM339/7476/5454/7403/7400/1700/	9
	4 GEBR425/LAS1905/LM340K12/LM320K12/MC1469R/2N3771/2N706/	4
	1 NE521/74LS590E/74LS00/	6
	1 MFP102/LM386/MV2115/MV109/	3
INSTRUMENT	2 LF353/8038/LF356/MC1496/74LS155/2N5460/MPF102/2N4401/1N4148/	7
THINK TANK	8 LF351/SK7706/ICM7555/4001/SK9155/555/741C/ORP12/TIL211/	2
	1 BFS46/BFS36/BB142/	3
	2 LF356/741/709/7493/SHM-IC1/ADC80/74123/DAC80/	9
	1 VFQ1C/	1
	1 VFQ1C/7408/LM311/7474/74121/LF356/	6
	4 LF356/LM339/CD4066/	5
	2 SFB8558/2N5089/2N5087/2N4958/2N3571/1N4446/	6
NUEL	1 LF351/74LS221/74LS00/LM710/2N3866/2N2222/BC177/1N4148/	8
	1 BFR93/	6
ARTICLES	6 LF444/4511/4082/4078/4071/4060/4035/4029/40106/4011/VP1310N3	9
BEGINNER'S	2 LF353N/276-1715/1N914/	1
RFDEFE	1 LF347/RC4157/LM1496N/MC1496L/NE1496/PN4398/IN5234B/1N4148/	4
HINTS AND	1 LF353N/741/	2
	2 LF356/TP1322/1N914/	4
	1 LF256/AMP01FX/	3
SESY	2 LF398/555/DG529/725/741/74107/	9
NOTES	1 LF357/74121/7407/HP2-4207742/	2
ARTICLES	2 LF412ACN/LT1028CN8/AD744JN/AD711JN/LT1086CT/1N4002ND/	4
	1 BF511/BFT92/BFR93/BAW56/	4
APPARATUS	3 MF10/ICL8038/SE555F/74107/741/LM380/	4
COMMUNICA	1 MF10/AMP01/TL084/CD4016/	4
	3 MGF1402/LM317/2N5322/2N2222/	3
	2 DG183/LM311/7474/7400/74191/4538/DG125/7486/SHM-IC1/7404/	9
DEID	2 DG509A/SI7661/MBR2045CT/	5
	7 LH0002CN/MAX420/AD2710/LH0101/AD565/MAX421/MAXOP07/MAX422/	4
ANDINUEL CI	2 LH0033/CA3080/CMP05/CA3046A/352/312/78L05CZ/2N5771/2N3906/	9
	1 LH0032/HP1001/	3
	1 SHC80/OP07/HZ12BGC/AD7502/9318/74LS04/74LS08/	9

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STSOST	1 LH0091/	1
APEN	2 LH0024/2N3955/	3
	3 LH0052/LH0042/LH0002/LM310/3550J/2N2102/6AU6A/Y634/AD811/	5
BUILD THIS	1 TIP31B/LM317/SK3067-502/1N4148/272-712/1N4004/	3
IDEAS FOR	1 TIL121/T2301B/LM158/1N645/2N2222/2N2905/1N4148/	5
DEID	2 TIP125/1N4148/1N5822/	1
	3 TIP31/TIP32/1N5401/LM340-12/UA741/1N4739/	2
SHCO	2 MJ3000/BU208/1N5374/1N4007/	2
FEATURE	1 MJE2955/2N3053/2N3904/2A200/	3
	2 6K6/2AV2/	1
	1 MK50282/DM8864/MC1404/CD4023/CD4009/CD4011/FDZ37/CD4013/	9
DAACSY	1 TKAD508/BNL787TD/HM10422-7/	4
RFFETE	1 CLC940/CLC926/CLC404/CLC232/MC10124/74F08/7905/7805/	8
TEUP	2 EL2099/AD830/	1
NODI	1 TL502CN/TL500CN/7912/7812/7805/AD590/	5
HARE	1 VLK2653/4164/LM386/BC327/	5
PROJECT	1 TLC555/276-1718/276-1657/	1
	2 TL081/TL084/LM3916/7815/7915/SK3106/1N914/	4
IDDE	1 TL071/4066/74C14/IN914/	3
TENO	1 TL084/4066/4093/4040/2N3906/2N3096/2N3094/1N4148/9491/	9
SUPA	2 TL081/7493/74121/7430/7400/74221/ECG238/ECG198/2N5416/2N4123	8
DESIGN	4 TL071/HC4046A/HC573/18V8/4013/40106/	6
TEME	1 TLC25M2/	1
SPSE	3 IL300/RC4277/OP07/2N4340/2N3906/LM313/	6
IDDE	1 EL2020/	2
SCFIID	1 ML403/ML402/ML401/	3
REPA	1 TL494CN/BUZ72A/BAY80/L4W-25/	4
BUILD THIS	1 TL507C/ICL7621DCPA/LM324/2N3904/1N914/1N4148/74C00/78M05/	9
PROJECT	1 TL081/4042/4013/4516/4093/4001/1N4148/2N6015/	7
DEID	1 TLC556/ZTX750/ZTX650/IN4148/	3
ARTICLES	1 TL072/MC14018/MC14069/	1
ARTICLES	3 CLC220A/LM0032/74LS123/74LS74/74LS08/74LS04/	3
	2 ULN2249/HA1199/2N4124/J309/TIS75/CFU455G/CFU455D/	9
DEID	1 LM350/LM337/	2
IDDE	1 LM1897/	1
CIID	1 LM324/ZTX650/	1
DEID	1 LM565/LM566/CD4001/78L05/	4
	1 LM399H/LM324/LM339/CD4011/CD4001/CD4049/IRF511/TIP120/2N2907	9
FEATURE	7 LM317K/338K/7805/BC212/1N4001/1N4148/	2
DEID	1 LM392/CD4060BE/2N3904/	3
ANRA	1 LM317T/	1
	3 LM32411/AD537JH/LM317/LM323/	4
ABBE	1 LM317/	1
	2 LM386/2N2222/1N34A/1N4148/CD4066/	2
TENO	2 LM312/AD506/BAV45/	2
NEW IDEAS	1 LM339/4011/2N3904/1N914/	2
	6 LM2878P/LM2877/LM2895P/1N914/	1
	1 LM361/LH0032/LF356/LS221/LS221/LS123/DG271/LS190/LS74/LM313/	9
	2 LM393/2N2222A/1N914/	2

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	3 LM723CN/MC3423/2N3055/	2
	1 AM490/DG508/	2
CIRCUIT ID	1 LM392/	1
CICI	3 LM324/567/2N3904/1N914/	3
TENO	1 LM358/2209/4024/4016/	4
	1 LM1884/LM833/LM1037/LM1894/LM1040/LM1865/LM565/LM567/	5
DESIGN ENT	1 LM741/1N914/	1
PROJECT OF	1 LM3915/4017/4011/	3
DESIGNER'S	1 LM2931/2N4401/2N4277/	1
MILITARY E	1 AM27S181/AM93422/AM9147/AM29501/AM29516/AM29517/AM25LS374/	8
	2 LM1458/LM311/TL081/7404/LM308/VN10KM/2N2222/7805/7905/	9
ASK R-E	1 LM387/	1
	3 MM5316/4029/4017/4013/DT1704/DT1705/1N4004/4002/4011/4012/	9
	2 LM324/555/74121/7447/7474/FND507/2N1411/7490/7400/	9
BUILD THIS	3 LM334/MM5369/	2
	1 LM324/4013/1N914/	2
SHPA	1 TMS32010/63S1681AX2/AD7524/AD579/TDC1030/	5
SYDEINCI	1 AM29501/AM29L510/AM29PL141/AM9128/AM29821/AM252517/AM252569/	9
PROJECT	1 LM301A/LM385Z/LM350K/LM7915CT/LM7815T/1N4148/	4
BUILD THIS	1 LM324/555/4066/74193/74190/7446/2N3904/2N3906/1N914/	9
BUILD THIS	3 LM12CL/LM381N/2N5302/MR856/	3
	1 LM741/	1
APID	1 PM7533/LM324/SW06/REF01/	5
ELNO	2 LM353/386/2N2907/2N2222/	2
RFDEAW	1 LM556/LM324/2N3906/2N3904/	6
FEATURES	2 LM358N/LM358A/LM319N/CD4029/CD4016/CD4066/CD4093B/LM317LZ/	9
RFDEAW	1 LM339/4016/	2
FEATURES	1 LM324N/CD4066BE/CD4009BE/4011/TIP120/276-2072/IRFZ40ND/IN34/	5
	1 LM139/74121/	2
DEID	2 LM723/AD7548/AD644/TIP31A/	4
PROJECT	3 LM317M/1N4001/	1
CODI	2 MM54104/MM52164SSR1/74138/7474/LM386/7808/7805/LM346/7404/	7
COAR	1 LM1890/CD4069/VN40AF/1N4002/	7
PROJECT	2 LM3914/VTB9413B/LM336Z/339/555/2N2222/	3
HINTS AND	1 LM309/1N5402/	1
DEID	1 MM74HC74/MM74HC00/MM74HC14/1N914/	3
PAPER	1 LM353/NE555/D45E1/2N3904/	5
BUILD THIS	2 LM10/44201/44203/	1
	1 LM311/	1
DEAP	3 LM1201/LH2422/2N5770/1N914/	3
PEREPA	1 LM351/	2
TEBR	3 LM324A/2N2222A/	3
ARTICLES	1 AM9513/8255A/27C512-2/DAC08/LF356/74LS374/74LS221/74191/	9
FEATURES	3 LM383/1N4148/1N914/276-1122/1N4004/	1
PROJECT	1 LM317K/1N4002/	1
CICI	3 LM324/3909N/4011/2N3904/1N914/276-142/	2
	1 LM340K12/HEPS7003/HEP5003/	3
	1 LM317T/	1
FEATURES	2 LM386/MPF102/	1

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RENO	1 LM725/2N3442/SL100/BD139/BYX39/	7
	1 LM339/4013B/4001B/1N914/1N34A/	3
PROJECT	8 LM339/LM2917/1N4002/OPB804/ILD74/2N2222/4049/	2
INSIDE NEW	1 LM358/	1
	1 LM4250C/YSI400/	1
APID	1 HM6167/ALS169/ALS74/ALS00/LS04/	8
	2 LM13600/LM334/TL011/TL021/MO001/2N3811/	9
	4 LM12/PA03/OP07/DAC80/ULN3753/MR752/	2
	2 LM301/74121/74107/7493/7492/7485/7475/2N4352/BC179/BC109/	9
COMMUNICA	1 LM324/4520/CD4060/CD4040/4011/LCL004/2716/3DK6/	9
PAPERS	2 LM318/2N2920/	4
PRTE	1 HMD11188/HMD11011/HMD11301/HMD11104/HMD11502/	5
DOSPRAMEA	3 EMI9821B/NE521/BFX48/BZY88/	3
	1 LM311/LM301/LM555/TL082/TL081/	5
IDDE	1 LM741/2N2955/BC108/BZY88C3V3/BZY88C3V/	3
IDEAS FOR	2 LM338/LM301A/	4
	1 LM318/LM361N/SN7486/SN7408/	6
TEFO	1 AM25LS2521/74LS386/555/74LS00/	4
PROJECT	2 LM13600N/LM13700N/741C/LM358/CA3140E/	4
NOTES	1 LM308/2N4922/NE555/	4
APNO	2 LM339/LM35/LM34/1N914/	2
ARTICLES	2 LM337K/LM317K/IRF9613/IRF9231/IRF613/IRF231/2N5462/2N5459/	9
IDEAS FOR	1 AM2901B/74LS175/74LS174/74LS193/	4
CIID	1 LM324/1N4148/	1
	1 LM324/MPS6517/MPS6513/1N4148/	9
	7 LM356/604/OP07E/AD2700/LM308A/LM311/LM725/1N5234/DTS804/	9
COPA	1 LM317/OP07/	2
	1 LM1812/MC14511/MC14553/MC3401/BC327/BC338/2N5819/2N5818/	9
ORPA	2 2N2219/BC109/	2
BUILD THIS	1 1N34A/	0
EXPERIMENT	4 2N3904/2N3906/LM3909/4011/741/555/	2
APID	1 ZN425E/2716/74393/7660/741/74164/04/08/	9
REPA	5 2N1300/KN22B/BC184/1N4007/1N4148/PC105KD/	9
THINK TANK	6 ZN414/556/555/4017/7808/MOC3010-1/4N35/2N3528/2N2218/2N3904/	6
INSTRUMENT	1 ZN502/OP07/LM311/555/4543B/2716/74LS86/74LS75/74LS02/AD590K/	9
BUILD THIS	1 2N5210/IRF9630/IRF630/2N5807/1N4738A/1N4737A/1N4750A/ECG128/	9
	1 2N3904/C106D/	4
PROJECT OF	2 VN10KM/VN67AF/741/555/7555/74C193/	3
	1 2N2222/1N914/2N5249/2N2924/	2
CIID	1 ZN428/741/759/	5
NOTES	1 2N3823/SK3116/SK3018/MHT250/	8
	1 2N3905/2N3903/	9
RFDEAW	1 1N5711/	0
DEFE	1 2N2857/	1
	1 1N4148/	0
	1 2N6059/MC3325/1N4003/	2
	2 SN74143/556/2N2219/1N914/1N4001/	5
SPECIAL FO	2 SN74122/SN7493/SN7486/TIL32/SN7405/LM309K/1N4001/2N3904/	7
IDEAS FOR	1 2N2270/DTG2400/	2

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LETTERS	2 2N4398/1N4719/7805/2N3055/2N4030/	2
ENNO	1 1N4002/	0
INNUSP	1 SN76502/702C/501K/	5
STENSE	1 2N918/PC138/1N914/	2
DECA	1 2N3055/2N3054/BC327/ESP4100/	4
	1 2N4416/LH0002/	3
ASK R-E	1 2N3879/	1
	1 1N34A/	0
DRAWING BO	3 2N6594/MJ2955/1N4003/741/7805/	4
COAR	1 2N4403/2N4401/	2
	2 1N914/C106B/1N34/812/	6
FACTCARD	4 2N464/2N366/1N38B/	2
ENGINEER'S	1 2N3020/	2
PROJECT	1 2N5210/LM317T/	2
CIRCUIT ID	1 4N26/4069/	1
	1 2N5856/NE556/2N5551/1N4448/1N9658/1N914/	4
APTE	2 ZN425E/N82S1141/SN74163/741/NE555/BC182/BC441/BC461/	8
NOTES	3 SN74LS00N/SN74LS02N/SN7426N/IN5337/LM311/SN74LS04N/	4
BUILD THIS	2 VN10KM/CD4070/1N4148/276-2070/2N2222/	3
	1 SN7400/121/2SC372/1S1588/	5
DRBO	1 2N3055/TIP31/2N2222/1N4003/	3
CIRCUITS	8 2N3904/2N3906/7555/74HC132/74HC160/4518/4007UB/	6
SOLID STAT	2 2N107/556/	1
	1 2N5197/5534/SD211/	5
THINK TANK	9 MOC3010/4511/556/555/4070/4017/2N5060/LM386/4011/LM324/741/	8
CICI	3 MPF102/2N3904/	3
WORLD OF I	1 UPD7801G114/UPD444/RP5G01007/4528/UPD549C/SN74LS175/	9
CIID	1 OP27/4030/4040/	3
DEGU	4 OPA445/OPA128/OPA27/2N4339/LM385-2.5/LM117/	2
DEID	1 OP282/OP37/2N4416/1N4148/	3
	1 MPF102/2N2222A/	7
	3 OPA111/IH6116/PGA200AG/AD7502/OP07C/ADC71JG/74LS374/74LS05/	7
	1 OP37/MC1670/F100101/MBD102/OP27/	9
NOTES	2 OPI113/7400/2N2219/BU208/2N4124/10D10/YJ1191/	9
DOSPRAMEA	1 SP9685/MC10125/74S374/74S112/74S04/2N2369/	6
IDDE	1 OP270/OP80/	2
DESIGN IDE	1 OP07A/REF05/2N3439/2N2222/BUX81/1N4148/	9
	1 1P28/AD755P/MC1741/	3
ARTICLES	1 OPA104/SN7416/2N4856/2N2219/AD589/BZX55C/1N4007/1N4004/	5
SUPA	3 SP9685/MC10125/MC10124/F100131/F100102/LS164/LS08/LS06/74S00	9
DESIGN ENT	1 MP7685/0033/	9
IDDE	1 OP37/2N4033/2N3019/	5
	1 XP1911/MPS-U10/ECG191/1N5276/1N4148/1N914/	6
	6 OPA27/ICL7650/3581J/AD7503JN/555/AD7523/X2804A/74LS293/LM317	9
	2 OP07/LH0002/4066/REF01/AD590/	9
NOEX	1 BPW21/3140/	1
DEID	1 TP3054/74HC161/74HC74/74HC86/	5
	3 FPT120/527/LED55C/2N3904/1N914/74121/7401/MPS6530/74LS00/	9
CICE	8 SP1000/SSI263/LM386/74LS156/ADC0831/LM324/CD4016/74LS00/	4

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TEUP	1 OP07D/AM687/MC10104/MC10105/MC10101/ 3 MPSU60/MPSU10/XP2232B/LM301/2N4401/2N4258A/2N5109/1N4154/	6 6
REPAMETE	1 OPA621KU/	3
SERVICING	1 UPD1701/UPB553/TD6250/UPA53/MP5A13/1N4148/	5
EXDEIMAN	1 HQV810/	1
BUILD THIS	3 MRF627/MRF559/MRF630/MPS3866/2N3563/2N3565/MPF102/MJE180/	5
PROJECT	2 XR2206/LF351/TBA820M/TL072/UA7812/	3
HEPHENMO	1 XR2212/XR2208/LM139/OPA27/2N5638/2N5114/	8
APPLIED ID	2 IRF530/IRF9530/MPSU07/2N2907A/2N2222/1N4148/MPSU57/2N2907/	9
TECH TIPS	1 XR2206/LF351/7812/	3
DEFE	1 MRF151G/	1
PRMO	1 XR558/	1
	1 SRA1/MPF102/2N2222/	5
DESIGNER'S	1 MRF630/	1
	4 MRF543/MRF542/BFR96/1N4148/	6
PROJECT OF	2 FRL4403/2N2222/	1
RFFETE	1 MRF587/2N2907/	2
	2 NSC800/SAA1027/6116/CA311/74393/74374/74123/74121/74373/7474	9
NODI	1 RS305-462/	0
	1 2SC1669/2SD818/10D10/	3
	1 2SK421/	1
IDDE	1 TSC820/ST1355M/LM35/TSC05/	3
	1 DS0026/VP104N2/TN104N2/74S04/	4
PAPERS	2 TSC800/27256/HC257/LM11/LT1019CN8/4511B/40106/7660/7805/	9
COAR	1 LS7220/EKI7220/4-1012/2N3904/1N914/	2
AUDIO	2 2SC3281/2SA1302/MJF15031/MJF15030/MPS8599/MPS8099/2SC3298B/	9
	1 RS2009/555/RS276-1723/RS276-2009/	2
APPLICATIO	1 SSM2015/	1
PAHY	1 DS0026/	0
DEBR	2 6SL7/MC1496/LM1496/	1
COAR	1 LS7220/4001/VN0610L/2N5064/2N3906/2N3904/1N5237B/1N4742A/	9
COMPONENT	3 NSC800/MD74SC245/74PC74/74PC32/74C14/74PC08/74PC04/74PC00/	6
TEAN	2 TSC429/TSC428/IN5822/SG3524B/SG3626/IRF841/	3
TECHNOLOG`	1 AT12100/	1
DEID	1 LT1007/MJ12002/AD590/LM329/1N914/1N4007/	3
PRUP	1 LT1056/2N3906/LM329/1N4148/	2
DEID	1 LTC1049/LT1025/LTC201/74C14/2N3906/2N3904/LT1004/	6
APID	1 LTC1043/CD4046B/CA3140/MP5010GN/	3
RENO	1 KT640A/1N5711/	4
DEIDFEAM	2 LTC1041/LTC1040/2N3904/1N4148/	2
	1 ZTX300/305-434/	2
ASK TAA	3 LT1115/LT1056CN8/LT1010CT/LM334/2N5457/2N4304/	3
ABDEID	1 LT1079/Z80/	3
IDEAS FOR	1 MTP1225/LM324/4N37/1N4148/	6
DESIGNER'S	1 MTP5N40/MTP2P45/1N4747/	5
	9 LT1014/LTC1052/LTC1043/LTC1044/LT1013/LT1018/CD4016/2N4250/	6
	1 PTTLDL20-5/LM311/74121/74S74/	5
DEFE	4 LT1020/LT1018/LT1013/LT1006/LT1086/LT1083-5V/74C04/P50N05E/	5
IDDE	1 LT1173/SI9405DY/VN2222/1N5818/1N4933/	5

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DEAP	6 LTC1045/LT1009C7/LT1029CZ/	2
IDDE	1 LT1010CT/2N5457/	3
CIID	1 BUF03/OP07/	2
	1 BUY69B/BFY51/22RIA80/1N5408/CA3130E/74LS00N/74121N/CNY17/	9
	1 DVD150T/	2
REPA	1 CX1535/	1
	3 AY3-1015D/7493A/AD506K/ADC-HX12BGC/AD544/AD567/ICL7660/	9
FEATURE	2 AY3-8912/555/74LS374/74LS151/74LS138/74LS74/4069UB/4070B/	9
TENO	1 HZ12BGC/4029/4047/741/LM311/4013/	9
	1 40673/3N211/2N4416/MC1350P/741/1N4148/1N914/	7
DEID	1 1011/LT1012/74C04/HP5082-2800/	3
	9 10116/10216/74C04/MRF914/MRF525/2N4208/2N3509/2N3694/2N4957/	4
	2 H11L1/BC107/	3
DEAP	1 Z16C30/8023/	2
REPA	1 311/31405/741/	3
	2 H11F/MUX24/	5
	1 82586/82530/82501/80188/	3
	1 7412J/74LS02/74LS04/	3
HOCO	1 7490/555/7404/	2
MEASUREME	2 1458/565/J309/MV109/7493/74195/	9
	1 74LS221/74LS193/74LS173/74LS157/74LS00/74LS04/	8
	1 7493/7476/74192/	7
	1 74121/7805/IR91RM60/BYX46/ZTX451/IN916/IN4001/ZTX107/	5
HAHA	5 74HC14/74HC132/1N914/	1
TEME	3 74HCT04/	1
	2 7490/7473/2N2222/276-2009/276-2038/	8
WOID	2 955/6L6/	1
DRBO	1 4514/4520/4049/	3
DRBO	2 4520/4049/	3
FEAR	8 555/4020B/4017B/2N3906/1N4001/1N914/	4
	2 555/7805/	1
	1 8748/556/4N33/7805/2N3904/276-1161/276-1770/	8
	3 6809/6850/6116/2716/TL7705/74LS374/74LS245/74LS273/CD4040/	9
	1 6821/SC01/7416/2N2222/	4
	9 D94FR4/D33030/D29E10/SG3524/NE555/H11F3/H11AV2/2N5232/D66DV7	9
DEID	1 MAX274/	1
FEATURES	1 UA741/LM339/	2
PEPO	3 DAC1209LCJ/PP65AU/LM741/LM607BN/LM301A/CD4040/MM74C14/LM4041	4
DEAP	1 MAX262/	2
	9 CA3130/CD4066AE/LM358N/74LS74/CD4017AE/74C90N/74C74/CD4011A/	8
	1 UA4136C/1N4001/	1
COMAELSTEL	3 CA3028A/LM311/74123/7492/7490/7486/7441/87404/7400/CD21/	8
CISYLE	1 UA741/	2
CISYLE	1 UA741/SD34/	2
BUILD THIS	1 MC14518/CA3130/CD4046/CD4011/	4
PAPERS	9 MC1312P/4066/MC1496/NE592/4203J/TL072/071/ICL7667/74LS192/	8
APPLIED ID	1 HC04/HCT04/	1
RFDEAW	1 MC12073/LM358/MAR6/5082-3080/5082-2811/	2
CIID	1 BC559/TIL111/	3

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FEATURES	3 RC4136/TL075/79L15/78L15/	2
TECHNICAL	3 MC145414/	1
	9 ECG973/GEFET1/LM386/2N2369A/GEFET2/LM741/2N2222/	3
PROJECT	2 TDA1022/4046B/741/78L15/1N4148/	6
DEAP	2 HD64180/DP8390/DP8391/WD33C93/43256C10L/27256-15/DP8392/	9
PAPERS	1 SD5000/	5
RFFETE	1 AD568/2504/LT1016/74HC04/CA3127/1N4148/CSFBAR10/	4
	2 AD507/LM311/MC1552/AD528/74123/7400/2N4391/2N2219/2N3643/	9
IDDE	1 CD4093B/	1
ARTICLES	6 NE566/SL561/LF356/MPY100/OP07/MGF1302/BFQ69/BFG65/BB521/	6
	1 NE72084/	1
RFCOST	1 NE416/	1
	1 NE5517D/BFS17/BFR31/BSR12/BFT93/	9
	2 MF10/LM78L05/	2
	7 MF8/LF442/74C164/4030/1N914/	6
FACTCARD	3 MF10/MF5/	2
POEL	2 LF356N/LM360/74AC00/IRF540/IRF110/IRF520/10TQ045/30CTQ045/	4
DEAP	1 LF353/	1
	2 AF150/AF1001CN/	0
	1 TGI1-500-16/	1
COAR	2 TGS822/LM324/7805/BC548/	4
DEID	1 TLC277/IN4148/	1
CODAPR	2 TL074CN/40106B/4528B/CD4538BC/PXO600/CD4009C/1N4148/	4
SOSTDE	3 ML2111/ML2110/	1
DESIGN	2 TL072/	2
	5 TL071/MC1496P/LM317MP/2N5457/TL072/3N201/1N4002/1N4148/	4
	2 TLO72/LF356/LF351/7915/7815/1N4002/	6
	1 CLC103/LM306/2N5943/2N5322/MCT2/CL4720/HFE4800-004/IN825/	6
	4 LM111/LM161/2N3810/DM74500/LM329/LF311/LM103/DM74508/2N914/	4
FEATURES	3 MM5369/LM323K/74LS08/	1
BUILD THIS	1 LM723D/2N5496/	2
	2 LM741/	2
COFE	1 LM3101/LM3001/IRF830/	3
PROJECT	1 LM555CN/4011/1N4746A/1N4004/2N2222A/2N3904/2N6107/	6
IDEAS FOR	1 LM311/74C00/74C74/	5
	1 LM318/741/	6
	1 2N3866/	1
	1 2N3819/LH101/1N755/1N457/	2
	5 VN66AF/CD4011/CA3140/VN64GA/VN10KM/VN66AK/2N6660/74C14/4011/	4
IDDE	3 2N3906/2N3904/	2
ALL ABOUT	9 2N3904/LF351/555/1N4148/	2
CIRCUITS	2 INS8073/	0
DEFETEME	2 OPA2107/OPA404/OPA177/INA106/REF200/	5
DEFE	3 OPA603/	2
	1 IRF620/IR31DQ06/	1
RFFETE	2 LTC485/	3
RACO	2 ZTX653/11DQ06/1N4448/	1
APSU	1 LTC1064/	1
IDDE	1 LT1122/LT1006/VTL5C10/CLM410/LTC201/2N3904/LT1010/LT1004/	6

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DEAP	2 LTC1064-1CN/LT1054/LT1007CN/LT1086/LT337A/74C74/74C14/74C02/ 4 ZVP2106A/ZVN2106B/74HC04/LH0032CG/1N4448/ZVP2106L/ZVN2106L/	9 3
IDDE	1 MX7528/MAX412/MAX275/	3
CB SCENE	1 1ZF9.1T10/	0
IDDE	1 4049/MTH8N40/VP0106/VN0106/2N3906/2N3904/MR918/	9
APPLICATIO	2 6060/4040/4001/4011/MM74C908/VN0335N1/1N4003/	5
STATE OF S	1 3041/	1
APNO	2 8044/8259A/8282/2732A/2126/HFBR2502/HFBR1502/75451/74/ 1 40106/2N4401/LM2902/TIL81/TIL31/IN914/	8 3
PRIN	1 80486/82C443/82C441/ 1 4047/2N5777/4068/	3 6
FLEX USER	1 4049/4050/	0
TECH TIPS	1 4017/	1
IDDE	1 4006/LM833/CD4070/74C86/ 1 4066/4069/4040/555/4027/74C373/ 1 40673/2N2222/3N211/	4 9 4
CICE	7 8088/8087/8288/74LS245/8259A/8284A/8237A5/74LS173/74LS52/ 3 8031/74LS374/74LS74/74LS123/74LS373/43256-15L/2764/7417/7805	9 6
BUILD THIS	1 4069B/	1
COAR	1 4001/555/2N2222/ 1 4017B/MM5369/1N914/4066B/	3 5
TENO	1 4016/836/	1
COPA	1 709/741/7490/BF194/OA81/	5
BUILD THIS	1 50240/4514/5101L1/4067/4515/FND359/4553/386/4093/4049/4520/	9
WWDECOFIPI	2 8035/2716/U LN2001/CA4052/74LS373/LS404/	5
LETTERS	1 4001/4011/	1
NEW IDEAS	1 4020/555/4011/RS273-2030/1N4004/	4
ABBE	1 4049/4047/IRFP140/	4
GEIN	1 4029/4093/BC550/78L12/B40C800/1N4148/	6
DENO	1 8031/UA212A/2764/2732/74LS373/74LS259/1488/1489/LF353/LM386/	9
TENO	1 307-979/BC107/ 2 311/3055/	3 1
DECA	1 C106B/	1
CCTS	9 3140/IN4148/2N3904/4001/4069/4025/ 1 8155/74LS85/ 1 3140/BC184/BC212/1N914/	2 4 9
DEID	1 3140/LF357/555/CD4066/4066B/4148/	4
NUME	2 F11C70/AM687/MWA130/MC10104/	6
LETTERS	3 12AX7/5U4/1614/12BH7/12AU7/5Y3/ 3 12AX7/276-1114/ 5 2206/2211/DG301/MPSA42/TIP31/567/4N26/2N2222/1458/TIP49/ 1 8255/2N3904/1N914/ 1 8293/8292/8291A/ 3 52J/606L/721L6L/310J/4253/	7 3 9 4 4 7
TENO	1 324/555/556/BC183L/BC182L/BC213L/IN4148/BYW54/	8
NOTES	1 124/DT500KL/CR022/ 2 82S100/10198/100114/74LS642/2N6154/10192/100101/74S472/7407/	1 9
FEATURE	1 82C641/82C235/82C236/82C710/82C711/286/386SX/82C426/82C456/	3
HAELFACA	3 Q200E3/ECG5400/ECG6400/C106D/SK3721/1N4007/	2

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HITERE	1 932P84E101Y804/	0
	1 339/MJ11030/2N3703/	3
	1 S3506/S3507/	1
IDDE	1 J300/2N4917/	3
PAPERS	1 238-457/1N4001/261-148/	0
DAACSYCI	2 733/74191/741/4558/7474/74123/M4066/74393/'221/	9
INCOPOSYDE	2 339/4060/4017/4007/4001/	3
	8 741/LM317/276-1151/2N2222/1N914/1N60/	2
APID	1 74ALS114/	1
NOTES	2 741/	4
	1 541/00/02/	3
PROJECT	1 74LS138/74LS174/2N6003/2N2297/1N4148/	5
APID	1 74F109/74F20/1N4148/BS170/	6
	4 7400/7410/7490/7493/LM317/74192/MPF102/74125/74373/7447/	9
SYSTEM DES	1 74S38/74165/74153/74164/	4
DESIGNER'S	1 74LS123/74LS86/74LS245/	5
	1 74LS113/555/7405/	3
	1 7402/1N5230A/S0014/	2
APNO	2 7400/555/92CU1314/	2
NOTES	3 741/RS308-067/2N2646/TAG10-600R/	4
INMEHIENPH	2 74153/74121/7486/7485/7483/7475/7404/7400/	9
PRMO	2 7400/MV5491/1N914/	1
	1 747/2920/	2
	2 741/2N3904/1N4148/	2
COSOHA	2 74121/555/	1
EXPERIMENT	4 7404/7473/555/7490/	2
DECA	1 74S02/74LS14/	2
FACTCARD	2 Q4015A/ECG5408/ECG5603/	1
APNO	1 741/1N751/	3
IDDE	1 74HC4017/HDSP4830N/74HCT14/1N914/	2
APID	1 6402/4508/HP2731/4528/4081/1489/74LS126/74LS04/1488/	7
APID	1 74HC74/74HC132/	2
NOTES	1 74123/7472/7408/7400/	6
INPR	3 74LS688/74HC4078/74LS76/74LS00/PWRDRV1/TPQ2222/BPX88/LD268/	6
IDDE	1 74121/74S86/74S32/MBR020/	3
NUEL	1 74F74/MC10124/74LS04/	7
COMPUTERS	4 74LS373/74LS258/74LS244/74LS240/74HC123/74123/74LS32/74LS14/	5
IDDE	2 74ALS12A/74ALS03B/	2
TEST EQUIP	2 74LS74/2N3904/LS279/	2
	2 741/565/7493/7408/7400/BC170/BA170/BC251/7473/	9
	1 74123/74F74/74F521/75454B/74F192/	9
SCIENCE	1 74LS73A/74LS08/74LS00/	3
	1 7442/7400/SAA1027/2N3904/	4
	2 741/TL081/74LS04/7404/4145-2/4146/	3
IDDE	1 7474/7486/2N6052/	6
DEID	1 74HC4583/2N3820/VM08X/MZ92-6.0B/1N4002/	3
IDDE	1 7407/2N3904/1N4001/	3
RENO	1 741/	2
APNO	1 7407/2N3440/	2

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COSC	2 741/	3
CIRCUIT ID	1 74151/74164/7491/	9
COMPUTER T	2 74100/4528/4060/	2
PROJECT	6 1458/78L12/2N3906/2N3904/1N4148/1N4001/	6
ARTICLES	2 74192/74121/7490/7476/7442/7425/7402/7400/	9
READOUT	1 1467/	1
	2 74S38/74S37/74LS374/74S11/	3
TRBR	1 U441/	1
	1 7402/BC107/AC128/IN4001/	5
DESIGNER'S	1 741/2N4861/2N2894/	3
SPECIAL ED	3 1464/2N3906/2N3904/CLC200/2N5583/2N5943/LM101A/LT1010/	5
	2 74C00/2N2222/276-2008/	2
	3 556/555/40161/4514/ULN2003/4060/4001/	7
PROJECT	2 556/741/2N3904/1N914/	2
	1 4538/LM124/4081/4013/TIP120/	6
TENO	2 555/TIL112/LF356/7805/2N4234/BC109/RP8020/BUX80/1N4005/BY164	9
	5 555/4066/LM3900/7808/LM380/LF353/2N3906/	5
	2 356/74132/9602/7400/7408/74LS193/1200D/	9
PROJECT OF	2 556/4051/	2
	1 7555/4017/2N2222/	7
COAR	1 556/555/7486/7805/	5
COAR	1 555/4049/IRF511/TIP120/LN712/1N5388B/1N5271B/1N4007/	5
FEATURES	3 5558/1458/LM3900/1N34/	1
	1 7555/TIP31/2N2907/1N914/276-1620/276-041/2N3906/555/	4
	9 351/741/2283/C106D/L14C1/555/D16PI/ST4/TSC429/D41K3/DT230F/	3
	3 351/741/2N2102/2N109/	3
DENO	1 555/2N4123/2N3053/BC109/REC53A/	5
IDDE	1 555/741/7473/7410/7404/7400/2N4400/	9
FEATURE	9 7555/741/2N3904/2N3906/CA3080/BC182L/1N4148/	3
BUILD THIS	2 555/D40D5/PN2907/PN2222/2N3055/1N4007/1N4001/1N914/	4
HIKI	2 555/1N914/	0
QRP	1 555/7812/LM317/2N2222/1N914/	4
	1 555/741C/S74121/7408/BC107/SC103/SL100/SH201/IN914/	9
	1 9517/Z80/LSI11/EDI10-64/	5
	3 75451P/74LS157/74LS83/74154/74LS184/MC4024/74LS192/74LS123/	9
	3 556/555/74192/74164/7490/7474/7473/7447/7410/7400/7805/	9
SUPA	1 356/	4
CIRCUITS	1 555/	1
	1 555/2N4416/2N3906/	3
	7 955/2N1178/TI363/2N185/MPF102/3N128/40673/CD4001/STD633/9002	4
CIRCUITS	3 4543B/40102B/40103B/4522B/4526B/	3
SYSTEM DES	1 Z6132/Z8030/Z8038/Z8036/2716/Z8002/	7
ARTICLES	1 3625C/741/MV5053/IN914/	4
	1 76477/4017/2N2222A/PN2222/IN4148/2N2222N/	3
CICI	4 567/4093/2N3906/2N3904/1N914/	4
	2 567/741/MCT6/ZTX302/4020B/6802/74S08/1N4003/	8
	1 276-2023/CQX21/276-036/276-1146/276-564/	2
	1 276-035/	0
RESEARCH P	1 T7-4A/KD2015/	4

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	3 1702A/567/74161/74174/2N3823/7495/741/7414/7489/74121/555/	9
DAACCOSY	1 3703/SST309/SST213/MMBTH81/	4
VHUHWO	2 78S40/1N4001/LT1070CK/	1
	1 081/	1
	1 7805/IN4001/	1
	1 3817A/3817D/FND500/1N949/1N4733A/VM08/1N914/	6
APID	1 590KH7/LM311/741/	3
GLAT	2 SAA1042/CD4541/CD4016/CD4001/TIP122/1N5233B/1N4005/	8
	1 UA733/2SC321/UPD4049/UPD4528/UPD4011/UPD4013/UPD799D/2SC372/	9
	1 CA3140/BC441/IN4148/	2
DEAP	4 CA3450/CD54HC4066/CD74HC4066/	2
BUILD THIS	3 DAC1222LCN/CR206/XRL555/CA3140E/CA3130E/74C926/RDD104/4068/	9
DEID	1 MAX641/IRF540/1N5821/1N5817/1N4740/	2
	2 UA741/	4
	1 CA3130/2N3055/1N4001/	2
DESIGN	6 CA3306/2716/7211M/EXO3/LM3914/4051/LM324/4060/4016/ICL7668/	4
HAHA	1 MAX644/1N5817/	1
APID	1 MAX7231/ICL7631/2N3906/	3
DEID	1 MAX638/IN5817/	1
	2 HA1328/HA1327/HD3103P/723/MPSA55/2N3391A/1N4001/1N914/	9
DESIGNER C	1 CA3130/MPS6515/	3
	1 UA748CV/UA741CV/5558/LM1458N/MC1458/TIL32/2N2712/	5
DEID	1 MAX641/MAX427/	2
INNUSP	1 HA2405/HA2525/527/74122/LH0002C/2800/	7
PAIN	1 CA3140AE/	4
	1 UA741/2N3055/BY127/	2
DESIGNER'S	1 CA3100/	1
DEID	1 HA2620/1N645-1/	1
DEID	1 MAX641/BUZ71A/1N5819/IN5246/	2
ARTICLES	2 MAX358/DVCO075A010/333/PIN10DP/	1
HAHA	1 HAA11508/	1
NOSC	1 UA741C/1N4148/	1
CITEAN	1 CA3080/	1
	1 CA3059/	1
	1 SBR5101/2N3417/LM324/1N4005/	9
DEEN	1 MC145429/MC145419/MC145428/MC145418/	3
COMMUNICA	8 ICM7250/LM318/LM311/AD542JH/AD7524JN/AD7523JN/AD544JH/LF356H	9
REPA	1 BC107/	1
IDEAS FOR	1 ICM7555/VN10KM/5082-4657/1N914/	2
REPA	1 ICM7555/CD4528/HCPL2530/TL061/1N4148/	6
DESIGN	1 MC3419/MJE271/MJE270/MDA220/	4
AIANCH	5 MC14433/MC14511B/74190/74107/7492/7490/7420/MC1488/75492/	9
	9 HC164/HC191/MM53220/LM1893N/LM3361A/MM53200/74C922/74C221/	7
	2 MCT2/2N2222/MPS-A42/1N4820/7400/7408/1N4148/	7
	1 BC238/BC309/1N4148/	6
TECH TIPS	1 BC107/BY229606/BY229-600/ZN423/BC479/BFX88/PNP3055/	9
	1 MC1458/	2
	1 SC146D/	1
DEID	1 UC3524A/MTP3055A/2N3904/1N914/	4

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	1 VCP200/276-1308/556/7473/MOC3010/CD4069B/7400/276-1000/	8
ELCOCI	1 RC4193/CD4007/IRFD9120/1N5818/	3
	3 RC3403/741/4047/LM4250/2N3904/4024/4053/2N4416/556/2N3866/	8
TENO	1 RC4391/	1
	1 SC01/LM386/74LS244/2N2222/	4
IDDE	1 TCA440/74LS123/BF246C/2N2219/BC177/CP643/1N4148/	8
POSUBACH	1 MC34161/BD140/BYV29-200/	2
DESIGN ENT	2 UC3825/USD345C/UFN642/1N5817/	3
	2 MC1495/LF398/LM320/555/74LS107/MFP102/LF412/74LS08/IN914/	9
DEID	1 HC5512/HC55564/HI300/HA5170/CD4020B/4049/	6
DENO	1 CCD123DC/74LS161/74LS73/DS0026/LS08/LS04/2N2222/IN4148/	8
PAPERS	2 MC68488/MC6821/MC3479P/MC3448A/2716/74LS373/74154/74LS20/	9
DESIGN SOL	1 ICL7611/RFM3N45/LM385-1.2/	3
	3 MC14583B/MC14070B/MC14046B/TP24516B/TP14012B/MC14518B/MAN74/	9
APID	2 MC6821/TMS2516/MK48202B/MK48Z02B/SN74L500/	3
LETTERS	3 PCL84/1N914/	1
TECHNOLOG`	5 VCP200/LM324A/CD4013B/CD4011B/LM7805T/2N3906/1N4001/	5
FACTCARD	4 BC109C2N464/	2
	2 TCD101C/74LS121/74LS112/74LS14/74LS04/78M05/DS0026CN/	6
TENO	1 ICM7224A/PL/ICL7611/ICL8211/LM3909/CD4536/CD4566/CD4046/	9
	4 MC10216P/BAY72/MPS3563/MPS3640/1N4191/1N914/	5
DEID	1 MC14175B/MC14070B/1N914/	2
	1 MC1650/MC10115/MC10125/6N137/2N5022/2N4916/MJE340/1N4005/	8
TENO	1 BCW33/LS600/	3
DEID	1 MC33063/1N5819/	1
SPREDACO	1 MC145422/MC145426/MC145428/MC14402/MC146805/MC14418/	6
READOUT	1 AD7572/ADOP.27/AD711/AD585/	2
PRTE	1 CD54HCT04/UA79M05/SW240/MZC5.1A5/	2
ARTICLES	5 AD528K/540L/3500C/536/715/E78/2N5517/2N3330/BC477/BC109/	6
	3 AD584/2N2967/AD670/AD741/2N2222/AD7528/AD580/AD7592/	4
PAPERS	1 CDP1802/4066/4047/4011/	3
	1 AD540/LM747C/1N914/1N747/	2
DEID	1 TDA1185/1N4001/SK3633/	2
	1 ADC80/DAC80/3626/3341/74365/74191/74123/5C75B/	9
HINTS AND	1 BD1/	0
CIRCUIT ID	1 BD137/CD4093/2N2222A/1N914/1N4002/	3
IDDE	2 CD4011B/Q2004F31/2N4123/HT32/1N758/1N4001/1N914/	3
IDDE	1 CD4051/TL084/1N4148/	2
DESIGN	6 BD233/BD234/	2
ENHANCING	2 ADC0803/74F244/74F138/	3
	1 AD7581/8085A/759/8155/ZN428/	3
	1 CD4046/BB139/74S74/7404/7400/74121/7474/74S00/	7
DEAP	3 AD570/74LS374/HI381/DAC08/LM741/	7
	2 CD4046/XR2240/CD4040/CD4027/CD4050/	3
BUILD THIS	1 CD4511/CD4012/CD4001/CD4081/2N3904/1N4148/1N914/	7
ARTICLES	1 AD2712/OP07/	2
	3 TDA1541P/NE5532/LM833/BSR56/BC818/2N3904/2N3906/1N4002/	4
NUEL	4 AD562/AD507J/LM308/LM309/2N1613/2N1132/BC177/BZX85C/BZX48/	4
APPLICATIO	4 AD534/AD741J/AD741K/	3

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COMMUNICA	1 AD537/AD351/SN747/ADG200/1N4148/	9
	8 ADC0808/555/SCS11C3/8255/74LS32/74LS04/74LS08/7805/2N2222/	9
TEUP	1 ADC0808/74LS47/74LS14/	3
DEFE	2 AD856/AD845/OP27/	2
	4 TDA8380/BUT11A/BUZ80/BYW54/BAX16/1N5339B/BYW95C/BAX12A/	2
DEFE	6 AD744/OP27/1N4148/	2
	1 ADC0804LCN/	1
BUILD THIS	2 ADSP2105KP40/TP3054J/27256-25/6264-15/CD4511/LM386N3/LM741N/	9
PAPERS	1 NE5532/	1
FEATURE	1 WE32200/WE32206/WE32201/WE32103/WE32204/	5
APID	1 NE555/1N914/2N3646/2N2219/	5
CIID	1 NE556/NE555/SN7493/MCT2/2N2222/SN7413B/	8
	1 REF01/OP07/	3
	2 NE555/4027/2N2222/2009/273-1380/1N34/1N914/	4
DATACOMMS	1 NE5050/78L05/2N3984/BD646/BD645/BC549/1N4744A/	6
	5 NE5532N/TDA1540D/NE5534A/LM394/LM79L08/MAB8410PB/N74LS74AN/	9
CIRCUITS	1 NE555/276-042/	1
NETE	1 NE5230N/KMZ10B/	2
	3 NE5532/LM833/78M15CT/79M15CT/78M05CT/79M06CT/BSR56/BAX18/	4
	5 NE5532N/AD712/LM317T/LM337T/LM340T15/LM320T15/3N246/1N4001/	5
DENO	1 NE555/7812/SN806/DR150/IN4007/	4
APPLIED ID	1 LF356/CD4027/CD4081/CD4069/	7
ABBE	3 BF981/78L08/2N918/2N5179/BFR91/HXTR3645/85637/HP2817/	6
DESIGN	2 LF13509/LF356/LM335/LM311/LM163/4N28/2N2369/HP2602/LM329/	7
	1 LF356N/2SA721/2SC1327/	9
PROJECT	2 LF353/741C/CA3130E/1458C/4001BE/4016BE/BV547/BC557/BC549/	9
	1 BFT66/5771/1N4148/	2
	1 LF310H/LF356N/	2
CISYLE	1 LF356/	2
	2 LF353/2N5462/	2
NODE	1 LF353/FD1029PN/MC3370/2N6073/1N756/1N754/1N5858/1N4447/	4
	2 LF353/UA741C/IN4149/	4
	1 BFT98/BFR91/	2
	2 BFY51/1N4001/OA200/	1
TRBR	1 LF356/1N4741A/	1
DEID	2 LF356/CD4016/CD4027/CD4081/CD4069/	5
TECH TIPS	1 BF194/BF197/1N4148/	2
2 PARTS	1 LF353/TL072/TL082/1N914/1N4148/	1
LEED	1 BFR93A/BFT92/GL56/	2
	1 BFR90/2N3906/	2
	1 LF356/ECG287/ECG288/	6
NEW PRODU	1 AF100/	1
	4 LF347/	1
	1 BFR90A/BFT95/CA3227/HP5082-0087/2N4393/	9
	1 MF10/4011/	3
DESIGN	2 SG1524/	1
DEEN	1 SG1524/	1
DAACANSY	1 CGA70E18/422A/10109/10107/10105/10104/10103/10101/	9
DESIGN ENG	1 SG1524/	1

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COPA	1 TGI1000-25/2N4444/BY139/	2
	1 LH2K/VT50/	2
	2 LH0043/LH0033/AM1000/AH0151/LM741/LH0002/1N916A/	5
	1 LH0024/MTP2N45/7815/	6
	1 LHO032/LH0033/LM340T8/LM320T8/1N914/	6
PROJECT	1 TIP31A/ZTX300/2N39094/	2
	2 TIP122/1N4004/1N4721/	2
	4 PKD01/DAC10/GAP01/CMP01/IN914/	4
	1 SK317/2SC1566/74LS00/	4
ARTICLES	2 BK488A/BK496/10RIA100/15H1/	5
	4 TL081/EC5700/ULN2277/FEIC27/7812/2N3819/2N3906/1N914/	3
NOTES	1 TL712/74LS221/	1
DEID	1 EL2002/	1
PROJECT	4 TL072/BF244/LM319/TL074/ULN2803/DS3686N/BC109/1N4148/74LS14/	3
	1 TL072/2N5460/2N5457/	5
PROJECT	1 TL072/LM3080/TL062/LM324/4093/2N4401/1N4148/ZTX300/BZY88C/	8
PROJECT	2 TL072/TL082/4066B/78L12/1N4001/1N4148/	3
DEAP	4 EL2021/EL2018/DAC8408/PM7524/74ACT273/74LS245/74LS244/REF02/	9
TEME	1 TLC271/TL072/BC557A/1N4148/	3
SOURCES	1 GL7703/	1
POSUBACH	1 TL7705ACP/L200C/B80C3200-2200/B40C3200-2200/	3
HIENPHIN	2 SL560/NE592/SP9685/NE5539/BFT93/2N3906/2N3904/BFT25/	5
IDDE	2 TL082CP/	2
GEIN	1 TL084/4541/4027/BUZ10/1N4148/1N4007/	4
	1 TL074/BF356C/BC161-16/BC141-16/BD243/BD244/2N3019/1N4148/	9
	1 TL072/1N4148/	1
REPA	4 TL601CP/NE555/741S/LF356N/SHC298AM/DAC80/ADC80/SN74133N/	9
ARTICLES	4 TL084/TL082/TL071/4572/4194/4047/BD512/VN10KM/CQX95/ZPD10/	9
	7 ULN3751Z/ULN3756B/ULN3756B/ULN3755W/2N6486/2N6491/2N2708/	4
	2 TL071/2N2222A/1N4001/	3
HIFIST	1 LM13700/LF353/LF347/2N3906/2N3904/1N458/	8
CIRCUITS	9 LM741/CA3140/1N4148/	2
DESIGNER'S	1 LM118/AH5010/AM97C10/	2
CICI	2 LM324/1N914/BS170/	2
BUILD THIS	1 MM54104/MM52164/LM386/7805/2N3906/	6
BUILD THIS	5 LM309/LM340/4049/4050/LM317T/MJE34/276-2027/1N4148/276-041/	5
SOSTDE	2 PM7545/OP249/	2
	2 LM339/4093/LM741/1N914/	2
	7 KMZ10A1/KMZ10B/NE5535/LM324/NE532/LM317/BC558B/4066/NE5230N/	9
	5 LM2893N/COP402N/LM1893N/DS3658N/MM74HC373/MMC27C16Q/LM358N	7
	1 LM324/276-116/301T1-12B1/VTL3A26/2N3904/1N4001/	2
	1 LM386/1N34/	1
FACTCARD	1 LM380N/BC109C/	2
	1 LM324/2N3053/	2
APNO	1 LM319/NE555/2N3906/1N914/	3
FACTCARD	1 LM380N/BC109C/	2
COSIPR	2 LM339/74LS123/74HC123/74HC32/2N718/BFR90/	4
NOTES	1 LM358/74HCT40102/74LS123/74LS74/74LS14/74LS04/74LS00/1N4004/	9
COAR	1 LM3909/NTE876/H11C4/NTE3046/1N4007/276-087/NE2/	2

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BUILD THIS	1 LM3900/CD4017/PN2907/PN2222/	9
THINK TANK	8 LM386/LM3909/1458/4011/2N2646/C106/ECG5511/IRF511/2N2222/	4
CITHDE	1 LM3080/MC14575/	3
ARTICLES	4 LM318/OP27/CA3140/7915/7815/2N5416/2N3439/BC558/BC547/BC327/	9
CIID	1 LM324/	1
	1 LM361/LF398/LM318/4291K/	9
	5 LM308A/LM310H/2N3645/2N3643/2N2920/1N823/2N3716/2N6331/	7
APPLICATIO	1 LM2577T-ADJ/NTE586/ECG586/1N5821/	1
DEID	1 LM565/7474/2N3904/	3
	5 LM317/LM350/LM338/2N3906/IN914/IN4148/	3
TENO	1 LM308/741/	2
	1 AMD685/2N5179/2N5771/FH1100/1N3064/	7
PROJECT	1 LM334Z/CD4093/BC182L/1N4148/1N4001/2N3904/BZY88C15V/	3
	1 TMS9914A/75160/75161/LS245/LS244/LS138/74LS32/74LS08/74LS04/	9
IDDE	1 LM13600/LM311/TL071/LF351/	4
TENO	1 LM310/1N5235/	1
PAPERS	1 LM398H/TL082/LM339A/MC14584BCP/MC14071BCP/MC14027BCP/2N3904/	9
DECA	1 LM358/CD4016/MJE210/2N3905/1N914/	4
GEIN	1 UM3481A/74HC132/BC547B/BC337/BC327/	5
CICI	7 LM386/1N34A/2N2222/1N914/	1
DENO	2 LM556/4N26/LM7812/1N4007/1N4001/OA47/C1220/	3
REPA	2 LM741/CD4098/CD4066A/CA3000/3N128/1N914/	9
TENO	1 LM339/FLV117/UO2/2N5886/	5
ARTICLES	2 LM301/74LS123/74LS74/BC337/1N4148/	3
DAFI	9 LM386/LM389/LM388/LM380/LM384/741/2N3704/2N3702/	3
	1 LM324/TIP110/	2
	2 1N4006/	0
	2 SN72748P/BC108/2N3053/FPE104/LS400/BC107/BU105/	4
PAPERS	1 2N7000/MPSA14/BUK4561000B/BPX65/	2
	1 2N5951/2N3819/276-2035/1N914/276-1620/	5
	2 2N2219/J310/2N2222/MC1590/2N2907/CD4047/1N4143/1N4148/	9
NOTES	1 2N3700/GAL100/1N4153/	1
	1 2N3906/2N3904/	2
UPGRADING	2 2N2222A/	2
ARTICLES	3 2N3817/BF762/BF759/BC177B/BC107B/CQX24/1N4007/	4
	1 2N4991/HEPR1722/TIC47/1N4004/NE2/ECG5404/ECG6404/TS3-57S/	3
BEGINNER'S	1 2N5179/	2
	2 SN72741P/MT2/	2
NEW IDEAS	1 2N5226/2N5219/1N917/	2
HINTS AND	1 1N914/	0
IDEAS FOR	2 2N2907/2N2222/1N759/LM158/	5
IDEAS FOR	1 2N5831/TIP30/BAY72/1N4148/	2
	1 2N4854/	2
PROJECT	1 2N6015/2N5818/4001B/1N4001/1N4002/1N914/1N4148/	3
	1 2N2904/MPS2907/276-2023/2N2222/	2
CORRESPON	1 2N4250/2N3565/	9
	1 1N914/	0
APID	1 1N4003/	0
	1 1N4732/	0

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	1 2N5484/2N4401/MR852/	2
	1 2N2222/1N914/	2
	2 1N60/2N2907/2N4400/	3
DEID	2 2N2222A/2N2907A/2N3055/1N4148-1/	3
CORRECTION	1 1N914/	0
PAPERS	1 SN74193/SN74155/SN74151/	3
NOTES	1 SN74121/1N4148/	1
	2 2N5878/	2
FEATURES	1 2N3819/276-2035/2N2222/276-2009/	3
	1 VN10KM/LM386/1N914/276-1931/276-2070/	2
AIANCH	1 2N3904/	1
EXTE	1 2N1305/	1
	2 2N3414/AD571/	1
	1 SN7451/SN7400/SN7408/TDC1005/TDC1023/SN7483/	9
IDEAS FOR	1 2N2369A/	3
BENCH	4 MOC3009/H11C3/Q4004/Q4040/MOC3030/4N35/H11L2/PS2506/7406/	9
BUILD THIS	4 SP501P/MC14538/4070/74C946N/4566/4584/4585/4518/4081/MAX666/	9
	1 OP07/B101/	2
	1 VP1304/LM359/L14G1/	3
IDEAS FOR	1 SPX4693-2/4N26/SPX4689-3/75451/75452/74LS54/	7
DESIGNER'S	1 MPQ6502/2N2907/2N2222/	4
	1 UPC1158H2/AN612/2SC2240/3SK73/MC3357P/3SK74/2SC2703/2SC1815/	9
	2 UPC152A/UA740HC/LH0022C/LM308A/LM318/UA741C/TLP501/FCD811/	8
PROJECT	1 SPO256AL2/74LS122/74LS624/40103/74LS245/74LS193/74LS125/	9
RFFETE	7 OPA676/	3
NUEL	1 UPD27C256/NMC27C256-250/27C256L90/LS373/LS221/LS121/LS76/	9
DEID	2 OPA27GP/INA106/	2
PRODUCT FO	1 OPA128/	1
DEID	1 SPT9689/CLC420/MC10E131/	3
CIID	1 OP17/BCY78/	2
IDDE	1 OP07/	1
	1 UPC59D/181B/741/	4
DESIGN ENT	1 MPC1500/MR2520L/1N5250/	1
REPA	1 IRF740/UES2606/MR756/	1
	1 SRA1/SN76477N/N7476/LM301/2N3903/2N3905/7805/	9
ICS FOR CO	1 XR2206/XR2211/	2
SPREPOSU	1 IRF740/RS205L/DB4/5R1/V175K7/FR105/1N4005/	2
	2 XR205/R5609/LM386/R5612/1N914/LM317T/LM337T/	5
PAPERS	1 ORP12/	0
CICICE	2 XR2211/MC1458/LM741/CD4011/LM386/NE567/2N2222/TIL209A/1N914/	6
CIID	1 XR2207/XR2208/	0
	1 IR3C02A/VCR4N/LT030MF0/	2
	1 XR2206/LM78L05/LM7812/TIP32/2N2907/CD4011/	9
	2 IRF450/1N4744/MC1488L/2N2222/2N2907/6N137/LM741C/2N6576/	5
POEL	1 IRF440/	1
FEATURES	2 2SC2086/2SC1973/	2
	1 1S1588/LF356N/2SA721/2SC1327/	9
	2 LS193/74LS75/LS113/74LS164/74LS154/74LS161A/DAC0808/LS08/	9
WORLD OF I	2 3SK73(GR)/AN6551/UPC2002V/AN612/2SC1815(Y)/2SK192A(GR)/V06B/	9

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BUILD THIS	1 MSM6322/LM386N/LM358N/LM78L05/	4
CQ REVIEWS	1 2SC982/2SC2640/2SK125/2SA1015/2SC2877/2SC1815/1S1588/S3V/	6
PAPERS	2 TSC429/IRF9020/IRFD120/APT6040BN/	4
BUILD THIS	1 ISD1016/	1
SEMICONDUCT	2 MSM6528JS/MS2304-15YS8KS4/4069/80C59/LPF6912/6258/	3
	1 2SC507/1N914/R1635/	4
	3 LS195A/LS283/LS85/LS193/LS366/LS258/LS279/LS32/LS14/LS04/	9
	1 GSE4850/AD2831/LM399/	6
FUSION	1 OSS9210-30/	2
DEID	1 LT1072CNB/2N6426/VN2222LL/IRFU9010/1N5818/1N757A/1N4148/	6
	1 OT606/OE606/BC148/DM7408/	4
DEAP	2 LT1054/1013/2N2907/2N2222/	2
PRIN	1 LTC1148-5/SI9430/SI9410/1N5817/	3
	9 LT1012/LT1022/LT318A/LT1010/LTC1052/LT1008/LT1001/LT1013/	9
	8 LT1010/LT1008/LT318A/LM301A/LM101A/2N5486/156/2N4393/307/	9
PAREEN	1 LT1016CN8/CD4024BE/IRF531/LH0033C/1N4148/	6
DEFE	9 LT1074/LT1086/LT1085/LT1017/LT1006/74C04/MBR745/2N3904/	3
ARTICLES	1 MTM1N100/H11D1/	2
TECH TIPS	1 ZTX300/TIC206/BC337/555/	3
DEID	1 MTH15N20/MTH40N05/MPF910/MTH7N45/	7
	1 BUZ211/	2
	2 6V4/PTC205/V130LA10A/	1
	1 MVL407/74LS123/74LS03/	3
	1 CX1159/CX1191/	0
	1 CX1157/CX1180/2N6661/IRF430/VNO440/2N918/FD700/1N914/1N5402/	4
DEID	1 BY127/	0
PROJECT	3 F15T8BL/F15T8BLB/	3
DORA	2 747/741/3403/BC109/	2
PRMO	2 741C/2N2222/PKB8-4A0/	2
DESIGNER'S	1 7405/	1
	2 74120/74132/2N2369/74111/7437/7404/7497/7400/7402/	7
ENGINEER'S	1 555/2N5954/1N4003/	2
EXPERIMENT	3 555/7555/567/XR-L567/LM308/	1
	2 555/2N2222/LM350T/LM150/LM250/	3
	2 4522/8854/3554/	1
QRP	1 CA747/LM747/	1
DEID	1 CA3280/741/	3
RFFETE	1 UA741/	4
IDDE	1 MAX480/IRF540/ICL8069/	2
DECA	1 MC145433/NE5555/2N2222/	3
	2 5C22/74132/CD4050/MCT2/2N3906/2N3904/ER*H16/TM27/	7
	1 GEA190PD/	0
	5 NE555/74100/74193/CA3140/LM356/LM324/2N3055/LM309/MC14553/	9
PAPERS	1 TL072/2N3821/	2
DEID	1 LM308A/	1
DESIGNER'S	1 LM111/LM723/2N2222/2N2905A/2N3055/1N2970/1N755A/1N34/	5
DESIGNER'S	1 LM339A/CD4013AE/CD4009A/1N4148/	3
	1 LM317K/1N4002/	1
DEID	1 LM317/2N3904/	2

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	2 LM317/RS276-1777/741/RS276-2016/RS276-2024/	4
SUPA	1 SN74121/2N6214/2N4201/2N3906/2N3904/2N3439/1N4733/1N3883/	9
CQ REVIEWS	1 2N3904/1N753/	3
DESIGNER'S	1 SN74123/1N914/	1
CQ REVIEWS	1 1N34/	0
CQ REVIEWS	1 1N34/	0
PRMO	1 VN10KM/	3
ARTICLES	3 KN6B/MPSU04/2N3906/SG2002/VF25-7X/MD22/	3
IDDE	1 OPA177F/LM117/	2
	1 BU526/CQX440B/BDX36/BC238C/BC338-40/2N2907/74123/BY255/7805/	9
COSE	1 8085/8155/0809/8279/74LS156/741/1488/1489/7474/8205/	5
	2 40161B/4046/4070B/4040/TL084CP/4015B/4049/BC107/78L05/78L12/	9
	1 40673/2N3906/2N3904/	6
	1 80188/8031/2681/82188/8087/	3
	8 4027/7555/555/2N2102/7611/8211/2N707/3909/2N1178/TIL414/	3
	1 4001/276-2401/1N914/	1
	1 710/747/741/1GP7/7486/	6
FEATURE	1 6167/	8
EDUCDESE	1 4250/74C04/MC146818/	3
COMMUNICA	2 324/6860/1488/1489/01/555/	4
	1 P35-1101/	6
	2 531/7473/7486/7493/74132/OA91/311/	9
DESIGN SOL	1 74F10/74F04/4164-15/	3
FEATURE	1 7403/8255/	2
NOTES	1 74LS123/74LS32/	2
BUILD THIS	3 74LS393/74LS373/Z80/LM340/74LS157/4164/74LS260/74LS175/1489/	9
	3 74HCT297/74HCT40103/74HCT4040/74HCT273/74HCT175/74HCT93/	3
	1 74C02/2N2222/	3
IDDE	1 555/LM324/7473/2N2642/2N2904/2N2222/1N914/	6
DESIGNER'S	1 555/1M4001/	1
WETHTA	9 555/74C221/74C914/75320/2N6714/2N3904/C9011/25D804/LM3909/	3
	2 F7400PC/SN74LS08N/SN74121N/	2
CIID	1 Z80/MF4/	2
	3 7812/MPF102/MPSA20/7473/276-565/276-2009/276-1803/	3
	1 6802/6854/6850/	3
RATECO	1 MAX232/74LS123/74LS14/7805/BC108/1N4001/	5
READOUT	2 PAL16R4/161/IMS2630/2764/373/245/LS138/	9
HAM RADIO	1 MAR1/	1
	2 MC6803P1-1/MCM4164/MC68A21/MCM2716/LS157/74LS74/LS373/6821/	9
CIID	1 MC10H101/BC212/	3
SIDACO	1 IC741/IN754/	3
APID	1 SCL4016/LM1458/	2
	1 TDA2640/BU126/BY210/BSX21/BYV32/BY206/1N4004/	3
APTE	1 NE5521/LM319/N74LS74/N74LS08/2N2222/	5
	1 NE5081/NE5539/NE5080/	1
CQ REVIEWS	1 MJE802/2N3904/1N4733/1N4148/1N4004/	6
RFDEAW	2 TL082/TL081/MC10131/MC10125/MC10116/MC10107/MV2104/	5
PART2 P.22	1 HM6264/	3
	4 LM324/4066/74C164/4046/2N2907/4040/4030/4049/7805/1N914/	9

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RFDEFE	1 LM3361A/LM358/MPSH20/IN914/	5
HINTS AND	4 4N25/2N3906/XR2211/276-2337/276-2449/4049A/	2
	1 2N3658/	1
DEFE	1 2N2222/	1
PAPERS	1 KN6B/	1
	1 2N3055/1N4001/	2
	1 KN22B/5AV60/BF459/	3
PROJECT	1 MPS3904/MPS2907/TIP3055/1N4001/276-2009/276-2023/27-2020/	9
	7 LT1017/LT1018/LM10/MV209/LT1004/HP5082-2810/2N4338/2N2222A/	9
CICI	6 4049/4001/S4006L/2N5060/2N2222/1N4001/1N914/	3
	1 4016/348/	2
COMMUNICA	2 8085A/8255A/2716/8185/74LS138/7445/74100/	5
	1 8051/8155/HCTL1000/	4
FIRU	1 8031/MAX232/74LS373/2764/DL1416/600-128/	6
APTE	2 8085/8279/8155/8755/7406/AD7512DI/LF356/	4
AUHIFI	1 4040/BS170/1N4148/1N4007/	2
COAR	6 40673/MPF102/2N3904/MV104/NTE614/	2
DECA	1 10131/10116/FH1100/	2
CODI	1 4051/74C00/4049/	5
CIID	1 4047/2N2926/2N307B/	5
COAR	1 4081B/4017B/4001B/74C14/40106/4N25/7812/BC557/ECG159/BC547/	9
	1 4047/LM158/LM134/1N4148/LM136/BC107/	8
CIRCUIT SP	1 4060/2N3904/1N4148/	2
PROJECT	1 4069/4072/4099/	7
DEFE	1 5082-2810/	0
COMPONENT	2 4094/4555/74HCT125/74HCT04/LM317/7805/BC547B/BC369/BC327/	9
TEME	1 4040/1N4148/	1
	1 709/	1
	1 4040/4011/2N2102/	8
DAAC	1 10195/10115/10101/	4
PROJECT	1 4093/4069/4066/4017/4N33/	5
ARTICLES	1 10H166P/10H016P/100131F/100114F/10H109P/10H131P/10125P/	8
BUILD THIS	1 4022/74C14/	2
	1 4013/4040/4528/2N2222/1N4004/4N37/1N914/	4
	1 10136/10147/10153/10113/10102/685/	6
	2 4009/NE555/AD583/741/	4
DEFE	2 8051/74373/74161/74148/74138/7474/7425/7404/	9
	4 10115/10109/10101/10110/10104/10103/2900/10192/10131/10164/	9
BUILD THIS	1 4047/4098/4050/4011/2N2925/7805/1N4742/	8
CICI	3 4017/4011/IRF511/2N3904/1N914/	6
	2 4017/4011/4093/1N914/2N3904/ECG464/	3
CIID	1 4046B/4066B/40106B/	3
RFDEAW	2 5082-2800/	0
RADIO	1 40673/2N2222/	2
BUILD THIS	1 91SS12-2/LM741/	3
	1 710/UA741/2N3820/BC107/BC159/SN74121/BY206/	9
	1 3130/CD4520/CD4042/	6
TENO	1 311/555/741/7473/2N3831/2N3704/1N4006/	7
SHCO	1 3140/	3

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DEID	1 11C70/	1
CODI	1 317/	1
	1 S1723-04/	0
NURADE	1 R1564U/	1
ARTICLES	1 S18CF16B2/	1
	5 3140/SHM-LM2/AD581/7493/7474/4N27/2N4401/MV50152/VTB5050/	5
	3 710/4066/LM310/74191/'74/'221/'S05/	9
	1 A101PAD/7805/	2
	1 L144CL/CD4022AK/CD4016AK/CD4001AK/BF173/BB105B/1N4446/	6
FACTCARD	9 4136/LM3301/LM2902/LF357/LM124/HEP802/HEP51/2N3904/	2
	1 3130/4046/4093/4015/	8
	1 8154/2708/8060/ZN425/	5
ABBE	1 H1601-8/	0
APID	2 311/ZTX500/	3
COPA	1 3140E/RS520/MJ3001/	3
	2 F10414/MC10192/10115/F10016/MC1660/ U	5
INMENUSP	2 H2431/2N3643/2N3638A/	3
	1 R2083/	1
	1 8225/	1
LOCAL NETW	2 82C55/HD6408/82C84A/74C165/74C164/74C74/74C00/74C04/	9
	1 8279-5/HDSP5531/UULN2074B/UULN2803A/74188A/74LS156/74LS93/	2
NUMEINIM	1 R2083Q/	1
APSU	1 82716/4464-15/74244/80186/	7
AIANCH	2 8255/AM685/74LS393/74LS136/74S00/10231/10131/10125/10124/	9
CICI	6 324/1458/317T/2N5060/C103YY/1N914/1N4002/NE1/N1/	2
DEID	1 F240/F174/F163/F74/F112/	7
CIID	1 723/LF356N/2N5459/BC213/1N4148/	4
CLCI	1 12SC7/6SL7GT/6SN7GTA/5881/5U4G/	7
DEID	1 6264/2764/1N4148/	2
	2 7220/8287/74155/74133/74125/74373/93448/	5
	1 H21B1/CD4093/	2
INMEHIENPH	2 8216/27LS00/25S18/74S195/74LS193/74LS191/MC10125/MC1650/LS86	9
INMEHIENPH	1 R329-02/	1
	1 6342A/	1
LOTEEL	2 P35-1101-1/3SK166/3SK164/	7
	2 747/4077/74164/7416/74194/7486/74161/7476/7430/7408/7400/	9
	1 74LS14/NE546/	2
	1 741/	9
DEID	1 74123/2N3906/	3
SUPA	2 741/TL191/74121/7493/7490/7473/7420/7410/7400/HEPS5020/	9
	2 741/	2
	1 741/1N994/	2
	2 74121/1N751A/L14G3/	1
	2 1455/1458/2N4401/2N3715/MRD3056/1N4148/1N4003/	3
DEFE	1 74HC4046/74S191/TLC2281/	4
GEIN	1 74HCT377/74HCT245/74HCT138/UULN2803/CNY17/74HCT32/74HCT30/	9
CICI	3 7400/2N3904/1N914/	2
	1 741CV/2N705/RS2005/	2
	8 741/3080/	4

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HAHA	2 74HC573/	1
APPARATUS	1 74121/74123/74160/7474/7489/7448/555/ 1 7490/7406/7400/2N3906/2N3904/	5 6
APID	1 741/BF245/	2
CITEAN	1 741/C106D/1N4001/RS1981/ 1 7406/7407/7416/7417/ 1 741/	3 1 1
APNO	1 74143/74121/7414/LM555/HOA1405/BD137/TIL312/	7
PAPERS	2 74F113/DS0026/74F00/IRF710/2N4014/60CNQ045/1N4148/	5
DESIGN SOL	1 7496/74LS96/74LS125/74LS74/ 1 D44H5/H15A1/2N3904/1N4004/1N4001/	3 4
DESIGNER'S	7 74LS13/BC212/BC109/BC108/L2245/L2246/0082/74LS04/TL081/	6
PE TESTED	4 7493/7402/7400/7404/2N3640/MC7805CP/2N3904/1N5242/1N914/ 1 741/	9 3
REPA	1 74LS684/CD4518/CD4047/CD4013/74C00/TIP137/	4
GEIN	2 74HCT4511/74HCT4002/74HC193/74HCT132/7805/BC517/1N4148/	7
COAR	1 74521/MOC3010/7805/1N4001/IN914/ 2 741/7915/7815/OA202/BZY8815V./IN4007/	3 7
10 SHORT P	1 747/1N4148/	1
DESIGNER'S	2 74LS266/	1
IDEAS FOR	1 7473/7486/74193/7404/7400/74125/	6
APPLIED ID	1 74LS08/74LS20/74LS148/74L300/74LS21/ 1 7490/	7 1
NEW IDEAS	1 741/ 6 7400/7411/74192/7441/555/LM309K/2N2222/276-119/1N4002/	1 8
APID	1 74121/2N3740/2N3704/BCY72/74LS00/2N2222/IN4148/ 1 1458/IN4148/	7 2
APID	1 74LS74/74LS04/74LS02/74LS00/ 1 741/1N4002/ 1 7404/ 2 74190/74123/7474/TIP36A/TIP30A/2N3906/ 1 946-0250/	4 3 1 9 0
COAR	1 74C925/CD4584/CD4518/CD4081/579LR6780/276-077/7806/2N3903/	9
AIANCH	2 74LS132/74LS04/7805/2N3866/BFR90/MBD102/1N914/	6
DECA	1 74123/7402/	2
COMI	1 74HCT574/74HCT245/U LN2803/74HCT32/74HCT04/	5
CIID	1 74AC132/74AC14/1N4148/	2
REPA	1 741/2N3906/2N3904/IN4154/ 1 2451RGL/MV5491AQT/MV49124AQT/	3 0
FEATURES	1 741/LM317LZ/IRF-Z40/1N914/	3
DECA	1 74670/74139/74193/7405/7474/7404/ 2 741/AD521/	9 2
NEW IDEAS	1 741/	1
DAACSY	1 74LS259/74150/74LS378/74LS138/ 1 741/2N3820/1N4148/	8 7
EXPERIMENT	3 74121/555/556/ 1 741/2N3055/	1 2
ARTICLES	1 74123/74121/7474/7400/2N4222/	6
DESIGNER'S	1 7493/CD4051/74LS151/2N2222/	4

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DESIGNER'S	1 74151/CD4051/7493/555/2N2222/2N2907/	7
FEATURES	2 7400/MC7805CT/2N3904/1N4002/1N4003/1N914/	6
IDDE	1 7400/1N4735/1N4733/	1
EXCO	3 741/555/7400/74LS00/2N2222/	2
APID	1 74153/7476/74LS00/	3
	1 7474/7408/7404/7400/2N4125/	7
ENGINEER'S	1 741/	1
HOBBY SCEN	1 747/	1
ENGINEER'S	1 741/2N4258/2N3646/	3
GLAT	1 74198/555/7805/2N4401/SK3024/1N4002/1N914/	9
EDITORIAL	2 74LS14/CD4050A/1N914/	0
SHPA	1 741/2N4992/	2
GLAT	1 7493/7411/555/1N34A/	5
	2 747/HC2000/LM308/	4
	1 74163/7483/7485/74194/	4
PRSP	4 74121/7404N/7400/	1
ARTICLES	3 74HC4046A/74HC4040/74HC4050/163/74/14/02/	5
IDEAS FOR	2 74LS113/74LS123/75463/74LS08/LM309/74S113/	4
	1 74132/74LS132/	1
NOTES	2 74LS373/74LS240/74LS161/74LS154/74LS123/96LS488/	9
LEED	2 741C/	2
BUILD THIS	1 D40D5/2N2646/1N4007/1N4001/2N4443/	4
DESIGNER'S	1 7442/7490/7472/7402/7400/	8
SYSTEM DES	1 74LS374/74LS244/74LS640/	5
	1 74HC04N/	1
REPA	1 74LS592/10H124/AD9500/10H131/	3
LEED	1 74AS885/74LS374/74F283/	9
	1 74HC14/2N3904G/	2
THINK TANK	8 555/7555/2N3904/561B/2N5179/1N90/1N2069/	2
CONSTRUCTI	1 558/LM339/555/2N2222/	6
	1 555/4017/	3
ASK BYTE	1 555/2N6110/MCT2/1N4004/	3
	2 4518/4511/5082-7740/74C14/4060/MCT2/7805/1N914/1N4004/	8
SERIES	2 555/	1
	2 3523J/BB4302/1N914/AD581/OP07/2N6489/	6
	2 4538/LM311/4046/	2
NOTES	2 555/7490/IRFD1Z0/	2
PROJECT	3 555/LM324N/LMC555CN/LM336V2.5/LM334Z/NPS100A/1N4148/1N4004/	4
	1 555/7474/7402/1N4001/	3
ELNO	1 555/74C04/IRFZ40/OD50L/	3
IDEAS FOR	1 555/	1
RTTY LOOP	1 555/	1
APPLIED ID	1 4518/4515/4011/IN4148/	4
TECH TIPS	1 4555B/4027B/555/4011B/4052B/	6
	1 6522/DG528/AD524/AD574/AD582/	5
	2 555/7474/1N4148/	8
GLAT	1 556/	1
FOREGROUN	2 75450B/LM386/4050/IN1005/	3
FOREGROUN	1 555/74206/74151/7486/7474/7473/7417/7408/7404/4010/	9

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DEID	1 555/2N3906/1N914/	2
QRP	1 555/LM317K/LM317T/78L12/2N2222/276-1146/1N5400/1N4001/1N914/	5
INSTRUMENT	1 555/LM317/	2
OPTOELECTF	1 555/LM224/2N3906/IN35/	5
	1 555/2N3055/1N914/	2
DEFE	1 8530/62256/74AS373/74AS245/1489/1488/	9
FOREGROUN	2 555/7475/7441/7404/7402/7805/	7
	3 9558B/UA310/592/2N4121/2N3563/2N3644/MBD102/FD6666/1N3712/	7
DESIGNER'S	1 555/2N2222A/	3
PROJECT	3 555/TIL414/272-145/272-707/1N4001/1N914/	1
3 PARTS	6 556/MRD920/MRD100/FPT100/TIL111/H11A10/555/	3
EXCO	1 555/2N2907/2N2222/	3
	2 7581/555/IRF511/AD542/7404/4049/	8
COMMUNICA	1 555/MTM4N50/729/NE51/	3
DRAWING BO	1 555/4089/4040/4073/	4
TENO	2 A52/E23/	0
	2 555/74LS241/	2
	5 150-1/SK3392/1N4001/150-1/050-1/600-1/1N4005/	9
THINK TANK	2 555/339/741/4066/4011/2N2907/MPS918/2N2222/RS271-110/1N4007/	8
	1 561F09-13/	1
CONFERENCI	1 26LS34/	1
	1 565/	1
	2 57-27/1N5408/	0
	1 371V-IC/731V-IC/1702A/7473/SN74LS193/	4
	1 276-2013/	1
THINK TANK	6 377/4046/4081/555/78L05/556/4017/Q4015L5/2N1101/	3
PROJECT	3 27C256/CD4040/74HC4040/74HC74/74LS74/LM386/LM324/VN0300/	9
FEATURES	1 276-1771/MRF175GV/2N4401/1N5923A/1N756A/1N4148/	3
TENO	1 071/1N4001/	1
LACO	1 276-116A/	0
BUILD THIS	4 7805/1N4002/4013/4043/4584/2N2222/4011/2N4275/2N3702/1N4148/	6
NODI	1 184J/TIP29/2N2219/	3
FEATURE	1 V80/UPD72691/UPD71641/	3
DRAWING BO	2 7805/	1
	3 6802/SC01/ADC0808/LM317/LM324/	3
	1 7815/7812/7805/1N5402/	3
	2 C83036E/	1
WEEKENDER	2 8870/MC14514A/74LS74/7474/7805/2N3904/TI3-4/IN4148/	6
	1 9823QA/ZTK100/ZTK330/ZTK650/	1
BUILD THIS	4 Z80/27C64/8255A/SP0256AL2/ADC0809CCN/M956/4066/LM324/4N32A/	8
	4 7815/REC70/BZX15/5082-4658/5082-4558/5082-4958/ORP12/	2
ELNO	5 386/741/4011/VN67/TIP3029/2N2907/2N2222/	4
INMEHIENPH	1 9807B/	1
	2 7812/7805/78L05/2N3904/BD136/1N4001/	6
LASERS	1 1802/	2
BEGINNER'S	2 78M08/LAS1512K/	1
	1 Z80APIO/Z80ACTC/74HCT139/74HCT85/	5
FEATURE	1 7915/7815/	2
BUILD THIS	2 7905/7805/7912/7812/1N4007/	4

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FEATURES	8 M957/H11D2/H11A1/CD40175/LM358/CD4585/TCM1520AP/MOC3011/	5
THINK TANK	3 M927/LM741/LM386/MPS5172/7812/1N4001/	3
	1 UA741/3SK28/C373/	4
TEST CASES	1 CA111/	5
IDDE	2 CA3080/OPA404/2N2222/BA220/	2
ARTICLES	1 CA3140/BF256B/	2
	1 CA3082/TIP122/74C221/2N4143/74C914/EM12-15B/1N629/1N914/	9
PAPERS	1 CA3046/	9
DEFE	2 MAX164/MAX163/74HC244/74HC221/74HC163/74HC74/74HC32/74HC00/	9
LEED	2 PAL12L10/74LS273/74LS244/MC10192/MC10164/PE28100/MC10192/	9
	1 UA759UIC/	1
	1 GAT1-010/	1
	1 UA741/	1
	9 CA3160/CA3140/TL061AC/TL084/TL080/CA3019/TL064/TL060/TL071/	3
	1 CA3140/CA3130/	1
FACTCARD	1 CA3140T/BC109C/	2
NOTES	1 CA3140/	3
BACKGROUN	2 CA3130/	1
APPLICATIO	1 MAT04/OP41/OP27/2N2222/	6
INNUSP	2 UA711/L141/M151/LO36T1/BDX65/BFY64/SE7001/2N3300/BZY61/BZY56	9
DENO	1 UA7307/	1
	3 DAC98B1/CA3078T/CA0723CE/CA0741CE/CD4040AE/CD4016AE/CD4007A	4
ELTEVI	8 SAA5050/SAA5040/SAA5030/SAA5020/SAA5010/SAA5000/74LS161/2614	9
SPCO	3 CA3140/LM318/L144/MC14528/LM373/741/MM74C909/CD4069/CD4017/	9
DEID	1 MAX480/BD535/	2
ARTICLES	2 CA3140/741/2N4403/2N4401/1N4448/1N4007/	9
ENHANCING	1 MAX232/LM358/4N28/78L12/78L05/VN0300/3124/MPS156/	9
IDDE	1 CA5260/TLC555/CD4066B/	3
DEID	1 MAX666/4093/2N2222/1N5817/	3
ARTICLES	1 CA3140E/	2
	1 CA3078/CA3130/	1
DEID	1 CA3026/2N2222/	3
SPCO	2 DAC80/AD534/3140/1011/IH5042/74123/7490/7475/7432/7408/7404/	9
APPLICATIO	1 MAX262/	1
ARTICLES	1 HA25455/JH10-4/ZMY1/TU50/SW229/UTC545-1/UTC561-1/UTO512/	9
	4 CA3524/MC1458/78L05/79L05/S3529/S3528/TIP29A/TIP30A/2N3906/	7
	1 CA3140/NE555/LF356H/J401/2N3904/DG200/SD211/LM3999/CR470/	9
	5 CA1523/RFP7N40/RUR820/RFP8P10/2N2102/	4
	5 LAS3800/MR850/1N304/PMD12K80/2N3055/TIP34/LM340T-XX/78XX/	3
	3 UA741/	2
	1 HA2425/74C221/CA3130/LM356/2N4401/2N5459/2N3906/	9
	3 SAA1027/ZN448/OP07/ZN428/4528/4013/4068/4515/4001/LM396K/	6
2 PARTS	2 UA7812UC/2N3906/LM301AN/1N4735/1N914/1N4001/	2
	1 UA747C/	8
SPISPA	1 DAC0808/LM339/LF355/	7
POSUBACH	2 MAX660/BAT85/	1
GAS LASERS	1 6AQ5A/	1
	2 BB204G/HA1-5195/HA2539/1N4001/	1
RFDEFE	1 BBY31/	0

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DEID	1 CBX1107Q/DXL2501/	2
	6 BB105B/MC1496P/TL072/TL071/74HC74P/74HC04P/74HC86P/78L05/	6
WETHTA	8 TBA820M/CA3130T/LF351/2N3819/BC109/2N4871/1N4001/OA91/1N4148	3
	2 SBL1/	1
	2 6BX7GT/6SJ7/5751/6080/6AS7/LM350K/LM3510/IN5402/OA2/ECG125/	6
	8 MC3356/MC1374/MC6850/MC3396/MC145145/45MR-MA/MLM358/MPSH34/	9
DESIGNER'S	1 MC145156/MC12015/MC12016/MC12017/	2
	2 ICL7106/4001BE/LM35DZ/4016BE/BC547/1N4148/TIL209/	5
FEATURES	1 MC14447/MC6804P2/LM324/MPX10D/	4
	1 MC68052P/	1
HAHA	1 SC11211N/	1
	1 BC107/	2
	3 MC1692L/MC1660L/MC1662L/1N5461A/4069UB/AD50J/LF398/74S140/	3
CIRCUIT ID	1 UC3637/	1
	1 RCA4516/	1
CIRCUITS	5 ICL7107/ICL8069/LM108/REF01/1408/DAC0800/741/	2
CIID	1 BC182/	2
HAHA	2 TCM1520A/TCM1532/	1
DEID	1 MC1445/HA5195/2N3904/	4
	2 MC1694/MC10176/MC1660/MC10145/F100151/MC10176/MC10164/	9
PRSP	1 MC4024P/78L05/	2
	1 RCA4522/	1
HAHA	1 MC145447/	1
COAR	2 MC145412P/LM555CN/CD4017B/CD4011B/CD4001B/BS170/2N5401/	9
TRIGGERING	3 MC10H131/MC10H125/MC10H124/MC10H116/MC10H107/MC10H105/16L8/	9
	1 ICL7109/6522/6502/7404/CMOS4051/AD594C/	9
	2 MC68701/XR2206/SP0256AL2/TLC548/LM386/LM741/7912/7812/7805/	7
PROJECT	1 ECG123A/2SC945/7812/1N4007/1N4744/NE2H/	3
DENO	1 ICL7622/4016/LM334Z/1N827/	3
LETTERS	1 MC34012/	1
APSP	1 MC68230/74LS245/74195/7474/	7
ELCOCI	1 MC1445/MC1545/	1
LETTERS	3 MC14077/	1
GEIN	1 BC556/BC547/BC546/1N4148/	3
APPLICATIO	1 BC546/1N4937/P6KE200ARL/1N4148/	1
DESIGNER'S	1 MCT2/74121/555/2N3904/1N4004/	5
MIAP	7 MC1414L/UA747/UA741/SN74132/SN74H40/2N2219/2N1711/BSX20/	9
FEATURES	2 MC1489/276-2521/MC1488/276-2520/7404/276-1802/	2
PERSONAL C	1 TCM1707/TCM1708/TMS2240/2N4124/	4
DEID	1 HC4538/HC86/	2
DEID	2 ICL7660/TL064/1N6267/1N4740/1N914/1N34/	2
PROJECT	1 TCM1520AP/H11A5/H11D2/LM555/MPSA42/2N3904/1N4004/	8
	2 BC109C/2A257/2N708/2N3702/2N3704/1N751/PG525/	8
PROJECT	1 TCM1512BP/UM3482A/555/LM386/PS2501NEC/2N3905/2N3903/1N4004/	9
DESIGNER'S	1 MC1350/1N916/2N3904/	3
	1 DC201/2N2369/	6
PAPERS	4 MC34060/LM311/C106/BDX54/KBPC102/BYW29/MR752/70HF10/1N4002/	2
EXPERIMENT	7 ICL7660/741/1N914/	4
	1 BC547B/	1

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DEID	1 UC1842/UFN833/VM68/UES1002/USD945/1N3612/1N3613/	3
PROJECT	4 CD4001/LM3909/BS107/2N3904/MCR100-4/1N5235A/1N5245B/1N5231A/ 1 AD524/AD624/	3 1
CIID	1 CD4011/2N3055/2N2222/SL100/IN4148/	4
APID	1 TDA7052/IN4148/	1
TELEVISION	1 TDA8734T/SAA5243/TDA3505/TDA1543/SAA1730/SAA1720/SAA1710/	8
ELPOPRSE	2 AD7581/DAC82/XR2240/TL084/339/1424/741/4011/TD1210/555/4N37/ 5 AD841JQ/AD9610/HP2810/AD741/AD9002/AD96685/AD842/HTS0010/	9 5
ENRE	1 CD74HC4046A	1
	2 AD561/AD573/LM308/AD624/UGN3501M/	4
ACBEHATA	1 AD510LH/LX703C/UA733CN/SN7438N/	4
NEPR	1 TDD1742/UMA1010/UMA1012/UMA1000/NE5751/SA5751/NE5750/SA5750/	4
COAR	1 CD4541/T106D1/2N5550/1N4739/1N4005/ 1 CD4051/CD4024/MCT2/1N4002/4011/LM324/LM383T/	3 7
DESIGNER'S	1 CD4046/LM555/LM3900/CD4016/	4
APPLIED ID	1 AD539/ 1 BD330/BF459/SCH3200/BZW70-62/E150C50/1N4148/4CX250B/ZX10/ 1 AD590/	1 9 0
COMMUNICA	1 AD561/MUX16/TL064/MC1455/555/74LS221/74LS93/2N4220/1N914/	9
BUILD THIS	1 CD22402E/MC1377P/74LS163/74LS74/74LS02/	5
IDDE	2 AD584/AD644/AD590/	2
RFSY	2 AD9901/AD96685/AD829/MC4044/VCO114/MC10125/	3
APID	1 CD4011/1N4148/	1
CIID	1 CD4046/LM311/ 4 CD4515B/LM2901/CD4556B/MK5102(N)-5/MK5103(N)-5/3044/3045/ 1 ND1S1857/ 6 AD524/AD625/AD7502/AD590/AD580/AD595/AD594/	3 9 0 2
IDEAS FOR	1 CD4047/CD4013/	3
APID	1 TDA2320A/	1
DAACSYCI	1 SD213/2N5771/2N5770/1N4447/	4
ACBEHATA	1 KD221404/	1
ALL ABOUT	3 CD4001A/3401/741C/3046/MPSA13/2N3643/2N5086/2N3694/2N2907/	8
TENO	1 AD624/741/	4
APPLICATIO	3 AD532/AD741KH/	2
IDDE	2 CD4066/LM11/ICL7555/ICL8069/DI451/IN459/	5
POSU	1 TDA4814/TAE1453A/BUZ78/1N4937/BAW76/BYT11-1000/	3
APPLICATIO	4 NE5230/ 1 NE555/7493/7492/74121/7486/74165/ 1 NE565/ 1 NE5534A/3130E/	2 8 1 2
RFDEAW	1 NE602/LM358/DAN202KVRA/MMBV432/ 1 TEA5114P/EF9369P/74HCT244/74LS174/74HCT86/DS26LS32A/74HCT04/	4 8
TENO	2 NE602/AD650/LM311/MC14528/CD4046/CD4066/TL064/TL062/MC33174/	8
DESIGN	1 NE5080/NE5081/ 4 NE5532/NE5534/LM394/	2 4
TENO	1 NE555/CD4017A/CA3093A/2N3819/2N4126/2N3904/2N2894A/1N827A/	9
BUILD THIS	4 NE5534AN/TL071/2SJ49/2SK134/BF469/BC556/BF470/1N4739A/1N914/ 1 NE5534A/ 1 HEPR1223/	9 4 6

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AUHIFI	1 NE5532/4051/	3
IDEAS FOR	1 GE31D/2N4992/2N5457/	2
CIRCUIT SU	2 NE5534A/TL071/	3
	1 GE4/276-2285/REN130/276-2041/7812/	5
TEDASP	4 NE555/TL084/SN75472/UA747C/TMS99532/TCM1520A/4N32/2N2222/	4
APPLICATIO	1 REF102/OPA27/	2
NOTES	1 SE555/2N2324/1N914/1N4002/	2
FEATURES	1 NE555/LM555/7555/MPF102/2N5484/2N4416/2N3904/2N2222/1N914/	3
	1 HEPR0132/NE51/	0
	4 NE592/SP9680/MC10H115/198/192/131/MC10H102/2N3906/2N3904/	9
	2 NE555/CD4011BE/2N2222A/	2
CITEAN	1 HEF4046/TL081/HEF4013/BC182/	4
	1 NE555/MV5491/OPB730/	3
RESEARCH P	1 REF01EJ/3573/	2
IDEAS FOR	1 SE556/MC1723/1N914/7407/	2
CIID	1 NE527/78L05/2N918/	4
PAPERS	1 NE565/MC4044/741/74S138/74123/74H103/7495/7493/7490/7474/	9
RFFETE	2 SE565/MC54HC74	4
SPCO	2 LF398/LF311/AD521/LF356/MC14538B/	5
	3 EF86/12AU7/ECC82/2SK135/2SJ50/MJE340/LM317T/1N4148/1N5404/	4
DEID	2 LF411/LF412/LF411A/DAC1022/	4
BUILD THIS	2 LF347N/1N4735A/1N4001/	1
	3 LF357/LF356/	4
	2 LF356/74F194/74F74/74LS161/74S02/2N3904/2N3906/SD211/SD5001/	9
PAPERS	1 SF1500GX21/	1
	2 BFT25/BFT92/BFR92/NE73435/NE73432B/1N4148/1N4446/1N753/	7
IDEAS FOR	1 LF353/MC1458/	1
	2 LFT356/SP9685/F95231/75107/74193/7442/7401/2N3797/2N2386/	9
	3 LF353N/	4
DEID	1 LF347/74LS74/74LS00/2N3906/2N3904/2N4248/	9
	2 LF13741CLN/LM11CLN/725CN/RC4195NB/RS258041/	9
NOTES	1 LF356/UA760/UA733/2N2222/LH0033/	7
DEID	1 RFP2N08L/1N4001/	1
	1 LF351/	1
PAANINCI	1 LF356/	1
	2 LF357N/CA3127E/	1
CONTRIBUTE	1 LF356/741/	2
DEID	1 LF356/LM319C/74HC14/2N3906/2N3904/LM236H2.5/1N4149/	5
	1 LF356/LM565/LM311/BC107/BC177/	9
SCTERE	1 BFY50/	1
POSUBACH	1 BF245B/BC550C/	2
APPARATUS	1 TG54/VG3A2500/	5
CICI	3 UGN3013T/LM339/555/2N3055/2N2222/	4
ORPA	1 LH0042CD/741/	2
	1 AH0013/1N5282/HP5082-2835/	1
	2 LH0002CH/7400/2N2222A/2N2907A/1N4148/1N914B/1N414B/	9
NUPLPH	1 LH0033CG/RCA8853/	2
	3 LH0042CD/IIN827/3670K/	3
	2 LH0042CD/741/4034-25/2N5484/2N3644/2N3568/74121/1N914/	9

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IDDE	1 LH1523AB/2N3251/2N2222/	3
	1 LH24250/LM555/LM122/MEM955/	5
CIID	1 TIP41C/TIP42C/	2
	1 TIL111/7912C/	2
SPCO	1 TIL119/TIL220/	1
PAPERS	3 CI74121/741/TIC106D/2N5551/	4
ASK R-E	1 TIP31/2N3055/2N2222/1N4003/	3
COMI	1 TIC106M/B500C1500/1N4148/1N4007/	2
	4 MJE350/2N5656/2N4124/1N4006/2N3053/2N3905/1N4001/1N914/7812/	3
	2 MJE1100/LX1720G/AD507J/DM3100L/	2
	1 SK3036/1N4007/	4
	1 MK5102(N)/3870/DL1416/	4
	2 MK50240/74C04/CD4051/2N2222/2N3904/7812/1N4001/	6
	9 SL612/SL610C/12BY7A/NE555/2N3819/40673/BC108/BC107/BC109/	4
INCI	1 ULN2283B/	1
	1 TL074/MC1468/AD581/AD590J/MC3423/CA3096/TIP642/TIP647/1N914/	7
	1 TL084/74C221/IN270/NE540L/1N916B/	5
DEID	1 EL2008/7905/7805/	3
ENNO	1 DL707/7400/BC149C/A749C/	8
PROJECT	2 TLC555CP/74LS00/UA7805/BC549/2N3904/1N4002/	4
ARTICLES	1 TLC271CP/NE555/	2
DEID	1 TL074CN/	1
ARTICLES	2 TL074/TL072/	1
COAR	1 TL081/NTE857M/1N4007/1N914B/	1
TEME	1 TLC2201/BUZ10/TL431C/1N4001/	3
APID	1 TL081C/2N3563/1N4148/	2
CITEAN	1 SL560C/J309/BPX65/	2
NUEL	1 SL360/BFT95/BFY90/	9
FEATURES	1 TL081/CD4016/2N3416/SK3111/	9
	1 TL064CN/3N187/	2
	2 SLB520/RL2-04/DT110/HTVR928/	1
	1 TL082/TL084C/	1
RESEARCH N	1 TL064CN/7414/	2
	1 TL064CN/	1
DEID	7 4LS174/74LS164/74LS123/74LS85/HCP12602/	8
DESIGN SOL	1 LM723/LM358/2N5190/2N3055/1N457/	4
CIID	1 LM6361/741/	1
SOLID STAT	4 LM3999/LM312/8043/311/IH5042/8007/2N2609/TBA800/ID100/	3
REPA	3 LM324/741C/TIP146/TIP141/BC182L/BC212L/1S44/	4
RATECO	2 LM1881/74HCT139/BC547C/1N4148/	2
	2 AMD7911/8748/74LS373/555/MK5089/4066/LM387/74LS14/1488/1489/	9
ONNI	3 LM339/4011/4049UB/BC108/BC238/2N2907/BC308/2N222A/IN4148/	4
	2 LM224/CA3086/CA3102/10101/2N3906/10124/75107/	6
	1 LM308/LM319/7400/	3
	1 LM339/LM741/CD4046/ECG185/ECG184/	6
SPCO	1 LM311/2N5195/2N4403/	3
ELCOCI	1 LM317LM/ECG5334/TMPZ5250/	2
DESIGN	1 LM339/TL074/TL072/TL071/CD4066/	5
HOMING IN	1 LM324C/1458/	1

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	1 LM301AH/LH0042CH/2N3820/LM741CH/C221/4024/	9
APNO	4 LM318/LM311/74155/74154/74150/74147/74125/74S93/7476/7475/ 1 LM4250/2N4338/IN914/	9 6
IDEAS FOR	1 LM723/2N2219/2N2905/	3
IDDE	1 LM1496/CA3193/	2
PROJECT	3 LM725/LM607/LMC7660/LM2931/79L05/1N4001/	3
INMEHIENPH	1 EMI9954/EMI9821/	1
DEAP	3 LM301/2N2369/ 1 LM565/	2 1
AIANCH	1 LM111/74132/7474/7414/2N4401/1N5221/NSL4944/1N4002/	5
DRBO	3 LM3914/4017/4011/4049/2N3055/2N2222/TIP31/1N4003/	7
CICI	4 LM324/4011/2N3904/ 1 TMS320C25/74F84/74F32/74F20/74F11/74F10/74F08/74F04/74F00/ 3 LM358/ZVN0106A/ZVN0109L/IRF9612/VN10/4N36/CD4069B/ 9 LM12/LM144/LM108/LM107/LM318/LM311/2N3650/2N2243/MJ802/MR752 2 LM360/TL083/TL081/LF357/LF356/AH0015CD/SN72723/LM399AH/TIP42	3 8 5 6 9
CIRCUITS	1 LM317T/7812/7809/7808/7806/7805/	6
FRENEL	4 AM6685/LS123/EL2004/LMC669/2N7001/BFR92/BFT92/LS00/BSR15/ 3 LM339/741C/MC14034B/MC14553B/MC5369/1N4148/ 3 LM380/741/ 2 LM380/BC184L/OA91/741/CA3130/40106/74C14/LF353/4016/VN67AF/	7 7 2 7
3 PARTS	5 LM1011A/LM3900/1415/131/ZTX109C/1N914/1N4148/1S44/4003/4002/	2
BUILD THIS	1 LM324N/UGN3503U/AN78L05/2N3904/	5
APPLICATIO	1 LM317/7812/7805/	3
COAR	1 LM1496N/LM348N/4040/4069/PS2505-1NEC/S401E-ND/2N4400/1N4735/	8
CICI	2 LM1458/4017/4001/2N3904/	5
DESIGNER'S	1 LM311/555/7473/ 1 LM1895/ 2 LM1458/MC1458/ECG187/1N914/7812/7912/	3 1 2
DESIGNER'S	1 LM307/	1
DECA	2 LM360/LF351/MC1650/F100131/MC10102/2N3797/LM399/2N3332/BFR90	9
PROJECT	1 LM13600/TL082/	2
HAHA	1 LM324/555/4066/2N4401/	4
DEID	1 LM358/2N2222A/1N4004/1N4148/	2
IDDE	1 LM358N/TL431/	2
BUILD THIS	1 LM556/4013/TIP31/2N2222/1N4742/1N914/	4
NUEL	1 LM319/LM318/LM310/741/4081/4066/4047/4040B/4013/4011/2N3906/	9
TRBR	1 DM2504CN/PM219/74LS373/74181N/74148/74S132/74LS76/74LS74/	9
FEATURES	1 LM386N/74LS00N/74LS03N/7805/7806/1N914/	4
DEID	1 HM6267P/4042/4040/	4
REPA	1 LM317/555/	2
GLSH	1 LM339/14538/LM336Z2.5/ 1 LM358/	3 1
APDENO	1 LM35/1N4148/	1
APPLIED ID	1 LM311N/SN7404/ 1 LM339/8085A/8155/2716/6116/ 4 LM311/555/4020/BD140/BFY51/BD139/4N25/LM317/MEL12/SC146D/ 2 LM555/SL100/2N3055/2N3773/2N6107/BFW10/1N4001/1N5400/	3 5 8 6
COPA	1 LM391-60/TIP3055/TIP2955/TIP127/TIP122/	5

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DECA	1 LM311D/LM317/2N6053/2N5885/2N2222/1N5242/1N1183/	7
ARTICLES	2 LM565/741/MPS6519/VTL9A2/1N914/	4
NOTES	1 LM324/2N2222A/1N914/	2
THINK TANK	6 LM2917N/74LS160/566/741/74LS47/74LS14/LM317T/TIL99/2N3906/	9
NOTES	1 LM555/TIP121/	2
IDEAS FOR	1 LM346/	1
APPLIED ID	2 LM13700/TL074/1N4148/	2
DECA	1 LM747/2N3702/NE555/2N3704/	4
DEID	1 LM339/LM324/CD4066/SN7400/SN7493/SN7411/SN7473/2N2907/2N2222	9
	2 LM13600/MC1458/LM3914/7908/7808/VM06/1N4148/	5
	3 AM685/MC1733/2N5770/	4
CICI	5 LM324/	1
COPA	2 LM555/4N26/LS192/SN74121/LS107/MTP4N50/MDA206/2N6661/1N4148/	9
FACTCARD	8 LM2808/4136/LM1894/UA739/LM383/2N4264/FD666/	5
APPARATUS	1 LM565/BFW10/	3
	1 LM339N/	1
DEID	1 LM339/BC172/1N4148/	3
DEID	1 LM3915/CD4017/	2
INMENSUP	1 EMI9823QKA/ZTK33B/	1
THINK TANK	3 LM741/4N37/7812/2N2222/1N4004/1N4001/1N914B/	3
TECHNOLOG`	9 LM3909/555/7555/2N3704/	2
THINK TANK	2 LM3900/741/2N4401/2N3906/2N2222/1N914/	4
FEATURES	2 LM339/4011/LM350/MJE521/TIP31/2N3905/2N2222/1N5400/1N4001/	6
	1 LM360/2N918/2N2907/1N4148/	4
DEID	1 LM193/IRFF130/1N4484/	3
DENO	1 LM725/3583/LM356/	4
IDDE	1 LM307/2N5884/2N5322/	3
DEFE	1 MMBV105G/	0
	1 LM312/CA3130/LM308/AD311/	7
	2 LM324/555/CD4011/CD4449/2N905/74C08/	4
TENO	1 LM331/74C925/DM75492/741/CD4040/	5
	1 LM360/74LS221/2N918/2N995/2N2905/1N914/	7
CICI	4 LM324/567/1N914/	1
DEID	1 LM108H/74HC74/	2
IDEAS FOR	1 AM6300/2816/	2
	1 LM339N/7815T/7915T/	3
GLAT	1 LM317T/276-1778/276-1662/1N4742/276-563/1N4001/276-1151/	3
	6 MM74C76/MM74C221/LF398/LF351/CD4022BC/LM339/MF10/LM2878/	9
DESIGNER'S	1 SN74123/1N4733/MPSU02/1N3064/	2
THINK TANK	3 2N3904/2N2222A/1N4002/1N4001/	2
	9 SN74151/5763/CIL631/3N200/UA702/CA3028/SN7425/NE562B/2N3866/	9
	1 1N34/276-128/	7
ENGINEER'S	1 2N2222A/1N4001/	2
	1 ZN425E/LM392/555/4040B/ZTX450/BC558/BC548/1N4148/1N4001/	7
PROJECT	1 1N914/	0
PAPERS	1 2N4444/1N4007/	1
	1 2N5271/	2
	1 2N3055/2N3053/SN74121/9602/SN7492/	7
	3 1N4151/	0

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	1 IN914/2N2222A/	1
	1 2N3055/RS2012/1N4759/1N4758/1N4003/	3
INMENUSP	5 2N6304/2N5836/2N3904/HLMP3519H/HLMP3950/MV64/D31B3110/1N748A	6
TECHNOLOG`	2 2N3819/4066/	2
TENO	1 2N5062/ECG109/1N4305/2N3904/1N4617/	2
WEEKENDER	1 2N3904/1N34/	3
APPLICATIO	2 INA105/REF102/OPA27/	2
ENDEPOGEC	1 1N4733/1N34A/	0
	1 2N4260/2N5835/74S112/74167/1N914/	5
TENO	1 2N3820/	1
APID	1 ZN428E/ZNREF025/RS283-514/	2
ARTICLES	1 2N3904/ML3401/	1
PAGARAXRDI	1 1N5406/	0
DESIGN SOL	1 2N2222/2N4403/1N4148/	2
CB RADIO	1 2N3641/555/741/ECG177/	3
	1 1N4001/	0
	1 2N2222/1N4007/	1
	1 2N2222/	1
	2 INS8035LN6/LM555/74SC373/2716/LM380N8/2N3904/7805/1N914/	8
COAR	1 2N3906/2N3904/	2
TETO	1 2N2222/276-2009/2N3904/1N914/276-1122/1N4148/	2
	1 2N441/2N442/2N443/1N4817/1N5347B/276-126/	2
	1 2N3565/QRT262/QRT102/	3
CIRCUIT ID	1 2N3819/741/BC108/1N4002/2N3055/	1
	2 1N4148/75450A/4049A/	1
HINTS & KI	1 2N3053/2N1711/1N4002/	1
	1 SN7490/SN7400/SN7402/MPS6520/SN7473/GEH13B2/SN4401/SN7427/	9
DESIGNER'S	1 1N4001/	5
DESIGNER'S	1 4N28/2N6027/V130LA2/MCT2/4N28/2N5227/1N4004/	3
	2 FND847/7490/7447/7408/7402/7492/4017/74121/7805/1N914/	9
	3 2N6080/7404/7805/2N2102/2N3053/2N5070/2N3414/2N3904/1N4002/	6
PROJECT	1 1N914/	0
ASK R-E	1 2N2222/	1
	1 2N3439/	1
ARTICLES	1 2N5207/FW114A/1042/1N4005/18Z1/	2
LANO	1 1N2482/1N1602/	0
	2 2N6073/1N5760/NE2H/2N6343/RS272-1102/1N5761/	1
	1 MN3101/MN3005/MF10/LF353/LM3080/2N3906/	9
	1 1N4002/	0
PAPERS	1 2N3055/	1
	4 2N3904/1N914/1N4148/1N4003/1N4005/1N4001/	1
	1 2N869/	1
	1 2N2222A/	1
ARTICLES	2 6N136/471/MC7909/7812/2N6328/2N4037/2N3904/MPSU10/ECG162/	9
	2 SN74121/SN74109/MC7805C/MDA922-2/2N6057/2N3905/2N3903/ZAD1/	6
	2 KN22/	1
PROJECT	1 2N3906/2N3904/	2
ENNO	2 2N4258/	2
	1 INA110/ISO102/	2

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LETTERS	2 2N3792/2N3716/BD139/	2
TECH TIPS	2 2N3704/	2
BUSINESS	1 2N2222A/	1
	2 2N3823/3N154/40468A/3N159/	3
DEID	1 3N201/	1
DESIGNER'S	1 ZN425/ZN424P/74185/7475/7447/7413/7400/	9
	1 2N5550/2N2222A/FD300/	5
	2 SN74S175/SN74S151/LM393/SN74S86/SN7414/SN74H04/SN74S02/	9
SOLID-STAT	2 6N138/1N5213/2N3904/1N914/	2
DEID	1 DN399/NE5532/NE5534/	5
	2 SN75451/SN75108/SN74LS175/SN74LS151/SN74193/SN74LS132/SN7490	9
CICI	6 2N2646/2N3906/2N3904/2N2222/1N914/	3
RTTY LOOP	1 2N2222/MJE340/ECG157/1N914/	2
	1 SN72810/1S1588/	1
	1 2N918/0414013101/10115/10106/1N914/	5
	1 1N4001/RS2006/	0
COMPONENT	3 SN74LS245/MC6845/MC6880A/MC6887/MC3459/SN74LS175/SN74LS195/	9
HOCO	1 1N4001/	0
	2 SN74221/SN74123/SN7490/	2
TECHNOLOG`	5 2N918/	1
APPLICATIO	2 MOC3009/2N6072/LM358/	2
ACBEHATA	1 XP2020/	1
	1 HP2810/	0
	1 MPS-A92/MPS-A42/1N4007/	2
DEBR	5 OPA2604/TL084/	1
SHCO	2 OPA103AM/CA3140/1N4001/	1
APTE	1 LP311N/4047B/VN10KM/VPO300/1N4148/	4
INNUSP	1 XP2030UB/	1
	1 SPO256-017/SPRO16-117/LM386/	3
DEID	1 OP07A/H11A1/2N2218A/1N4148/	4
SPSE	1 TPQ2907/	3
	2 HP2810/3342-15C/MFE3003/MFE3002/10116/539/2N4258/1N825/	7
	1 MPF102/BC107/	3
APPLICATIO	2 SPO256A/MC68HC705C8/CTS256A/74HC373/74HC138/LM386/74HC04/	8
NOTES	1 OP071/1N4148/OA91/	1
DEAP	1 OP37/	1
	2 OP77G/OP27G/L465/LM317T/1N4004/	3
COAR	1 MPSA14/276-086/	1
QRP	3 MPF102/2N3553/2N3866/2N222/LM309/1N3018/1N914/HEP170/	2
DEID	1 OPA2107/	1
IDDE	1 SPO256AL2/CD4520/CD4093/7805/IN914/	4
ARTICLES	1 OP37A/	1
	1 MPT50/TL490/78L05/	3
	1 OP27/	0
DEAP	2 OPA21/REF10/	1
INMEHIENPH	1 XP2041/1N5383/1N5378/	1
FEATURES	1 MPF102/1N914/1N34/	1
	1 OP07/2SC400Y/2SC2098/	7
SYSTEMS	4 GP1010/DW9230/MSF86/MSA06/	2

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DEID	1 MPS6519/MPS6515/2N6028/	7
DEID	1 OPA404/2N2907A/2N2222A/	5
	6 OP07E/MAT04E/OP77E/OP27E/OP17E/MAT02E/OP41E/2N2222/	6
IDDE	1 IRFZ40/2N3906/1N4740/	3
DENO	1 IRF840/IRF510/DS0026/1N4148/	2
	1 5R4/5U4/TS120/	2
PAPERS	1 MR818/	0
	2 MRF571/5082-3039/604/	1
ARTICLES	1 IRF840/2N3906/2N3904/1N4148/	5
ARTICLES	1 XR215/XR2208/HC4046/	1
	1 IRF450/2635/	2
CCT IDEAS	1 XR2208/	1
NEW IDEAS	1 IRF511/	1
	1 MRF238/RS2017/1N1201/1N4007/	2
PAPERS	1 IRF732/31DQ06/	1
TECHNICAL	1 XR2211/MJE340/2N2222/1N4001/1N4148/1N4004/	4
PAPERS	2 IRF730/IRF720/IR31DQ06/IR31DQ0*2/	1
RFDENO	1 MRF901/	1
	1 IRF130/4047/	3
	5 XR2123/XR2120/XR14412/XR4741/LM339/XR4194/8048/8748/	9
	1 LS123/LS132/LS02/	5
ARTICLES	1 CSR331-20/DSA405-50A/	2
SYSE	1 LS221/S124/LS74/	4
PROJECT	2 LS7210/LM324/2N3906/1N914/	2
BUILD THIS	3 SSI202/TCM1520/MC4081/MC4071/LM741/LM1458/LM383/4N33/MCT2/	9
COAR	1 ISD1016/1490/74S188/7805/1N4001/	4
PROJECT PA	1 DS548/ECG123A/2N2222A/	2
NOTES	1 DS20010L-D-H/NH437D/150-299/3060-20/	4
COAR	1 SSI202/74175/MOC3010/4093B/	6
BUILD THIS	2 ISD1016/74LS161/74LS00/4N25/7805/1N4758A/1N4148/	4
LEED	1 LS195A/LS175/26LS32/7400/LS161/LS174/LS123/LS221/	9
NOTES	1 TSC4420/HCPL4502/7437/7414/7408/7404/MTM5N100/1N822/	9
REPA	4 TSC429JA/MC33071P/74F113/74F00/74AC00/IRFP140/IRF350/2N4013	8
DEID	1 CS2917/CD4066/LM324/74C04/SPX1180/	5
TEUP	1 SSI263/6808/LM386/	3
SOSTDE	1 DS5000FP/DS2130/DS1267/DS2015/	4
APPLICATIO	5 ZTX415/	1
READOUT	1 MTC2094/	1
COST	1 LT1014DN/SCX15ANC/ICM7106/LT1004/	3
DEID	1 LT1073/2N2369/MUR120/	2
DESIGN	2 ZTX653/ZTX652/ZTX650/BYV27-5/ZS170/IN4148/	1
DEFETEME	9 LT1101/LT1078/LT1077/LT1054/LT1021/LT1018/LT1012/LT1007/	9
	2 LT1071/LT1006/IRF830/4N28/LT1004/MUR120/MBR735/MTH7N50/	9
	5 LT1016/LT318A/LT1012/LT1056/AD639/2N4391/LT1009/2N5486/	9
DEFE	5 LT1173/LT1172/LT1021/74C74/VN2222LL/MPS650/1N5818/1N5817/	3
	1 BTW63-800RK/	2
REPA	5 GU50/BFS28/UCY74121/BSXP59/UCY7490/UCY7442/UCY7474/UCY7400/	9
	1 VV100BTB/D254A/	2
	1 MV1710/TDA8734/MV1720/MV1730/MV1740/TDA1541A/TDA8703/SP94308	6

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IDDE	1 PVR3301/HEF4043B/2N3904/	3
	1 HY1102/	1
	2 AY3-1015/82S159/LM317/7805/2N2222/1N4001/	9
	1 HY53/	1
NEW IDEAS	1 AY3-1350/TCM1512A/MPS3904/1N34A/MPS2907/	7
	4 8044/2N2222/1N4003/MJE340/1N4007/	2
COMPUTING	1 80287/82284/	2
CIRCUITS	1 3052/7805/	1
TECH TIPS	1 4011B/1N4148/	1
	1 4011/4518/BC107/IN914/	4
	1 40673/2N2222A/1N34A/	2
IDEAS FOR	1 4027/4070/4030/4013/	3
	2 4051/4520/4514/4013/MM5369/4069B/4053/4024B/4017/1N914/4069/	9
	3 4053/4538/4013/H11C2/3900/ICL8211/4490/4040/2N4401/2N4403/	9
	5 8031/27256/62256/82C54/74ALS867/74LS590/74LS245/74LS373/	9
HOBBY SCEN	1 4001/4013/1N914/	2
LETTER BOX	1 4049/	1
	1 8044/2N2222/	3
	1 4013/555/4049/	3
	1 8052AH-BASIC/	1
	2 8088/8355/8755/8156/8751/2186/	5
	1 4046/74HC4017/2N2222/74HC08/	8
	2 80C31/8031/ADC0844/TL064/CD4052/MAX232/27128/6264/4062/TL062	9
PROJECT	1 4013/BC108/2N3904/1N4148/	6
SHCO	2 305-800/2N5574/	2
CIRCUIT ID	2 4023/4025/	2
CIRCUIT ID	1 4001/4066/4016/	2
DESIGN NOT	1 40503/CA3059/CA3099E/	3
	1 4051/4040/4046/4093/7474/4090/	3
	1 8038/555/74155/7493/7408/7404/SL100/BC109/BY127/OA79/	9
DEID	1 5082-2811/1N4148/	0
IDDE	1 4047/1N914/	1
	1 40576/2N3638/IP39/	2
CICI	6 4093/2N3904/	2
BUILD THIS	3 4046/MM3569/4518/4081/LM741/14553/74C48/LM2917N/LM3914/4001/	7
ADELSY	1 10G022/F100160/CAV1220/	6
DEID	1 4093/PN3569/MPSA14/	3
	5 40673/3N211/TL081/MPF102/2N4416/2N5179/1N914/741/	4
	1 8038CC/276-2334/1N914/1N457/	1
	2 4049/	3
	1 40673/1N914/	2
HOME-BREW	1 4027B/4001B/276-2401/1N914/	2
DEHA	1 4071/MAC97-8/1N3682/1N4004/1N914/	2
PROJECT	1 4093/BC184/2N3904/BC212/2N3905/	5
CIRCUIT ID	1 4066/	1
	1 4001/1N914/	1
	1 10133/10107/10131/10101/	7
	1 4066/4098/4081/4047/4024/4011/2N5951/MPS5486/MPS6568/	9
	2 4040/4066/4031/4024/4017/4016/4014/4013/	8

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CIID	1 4046/MOC7811/SL100/1N4148/	3
DESIGNER'S	4 4049/4050/4584/	1
DESIGNER'S	1 4030/	1
CIRCUIT ID	1 4017/BC109/1N4148/	2
DESIGNER'S	1 4049/	1
	2 8085/8212/8205/AD7542/AD584/	3
	1 1035/741/	5
	1 4052/7490/74132/7405/7400/	6
RFDENO	1 4049/5082-3080/	1
	1 4017/4016/4049/4001/7808/7805/1N4148/	6
AIANCH	1 40J/741/TIP30/TIP29/1N4448/	8
CIID	1 4050/IN4148/	0
BUILD THIS	1 4060/2N2907/2N2222/	3
	9 4013/11C90/74196/74C02/MPF102/74C151/2N708/74C00/74C08/75492	6
CIID	1 8085/8155/8212/8205/2716/	5
CONTRIBUTI	1 8080A/8255/8251/8228/8212/8224/	5
TECH TIPS	1 4009/4049/4069/BC109C/1N914/	1
HOBBY SCEN	1 40673/	1
IDEAS FOR	1 4040/4013/	2
CIID	1 4020/TL071/	2
EXPERIMENT	2 10102/	1
IDDE	1 4013B/4069B/	2
BUILD THIS	1 80C552/82C55A/2716/5164/SN754410/DS14C232C/74LS373/LM2931CT/	9
	1 40106B/74C14/	1
WEEKENDER	2 40673/MPF102/2N3553/2N2904/2N2222/2N2048/1N34/	6
HIKI	1 4013B/RS276-041/1N914/	1
LETTERS	1 4017/4012/4053/4001/4027/	8
	3 8085/8755/8156/DAC0800LCD/AD521/LM710C/LF351N/LM308N/LM35CZ/	9
GEIN	1 4017/BC547/	3
SYSTEMS	1 C011/T225/2681/MAX233/74HC390/74HC164/74HCU04/	7
MIDAST	1 8080A/8255/74LS04/	5
APID	1 4021B/1806/40218/	2
LEED	1 10125/2N6661/2N4275/	3
	3 40673/74LS00/74LS73/74LS90/74LS192/74LS75/74LS47/276-053/	9
NEPH	1 10H103/10109/10104/2N5770/	9
DESIGNER'S	2 4049/2N3391/	1
DATA FILE	9 4066B/555/3140/1N4148/	2
PROJECT	1 40106B/40103B/4518B/TIL32/TIL78/BC182L/2N3904/4020B/4017B/	8
QRP	2 4011/4027/2N2222A/	3
Q&A	1 4049/	1
CIRCUITS	2 6146/2N2222/1N4004/1N4148/VR150/	3
	2 3140/2N3906/CX554R9/4001/2N3904/74121/1N3064/A14A/	5
REPA	1 41L/IN992B/5D10/	1
NOTES	1 F11C90/74LS163A/RS7485/74LS90/74LS74A/	9
	1 71840/	1
	1 3130/1N914/1N23/	1
ARTICLES	1 710/4053/LF357/LF356/	6
NOTES	1 H11D1/1P28A/	4
	5 H11F3/TL072/NE5534AN/CA3140E/LM301A/TL071/BC547B/1N914/	5

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	1 5101/14518/3140/2532/74922/14516/7447/14011/	9
	2 710/2N3392/1N4742/2N5295/1N4734/TG1-8/	2
	3 417-235/417-801/57-85/56-32/57-65/4N25/CD4528/CD4538/57-85/	8
	1 C1909/	1
NEW IDEAS	1 V130LA10A/78L12/MOC3010/2N3904/2N3906/1N4002/NE2/	4
IDEAS FOR	1 4136/LM139/LM135/	3
	1 311/555/7490/7414/	8
LEED	3 C149M10/2N6346A/	4
COMMUNICA	2 8193/MC14013BCPP/BS170/1N914/	2
NOEX	1 311/741/555/7408/	7
REPA	1 5162-5/SFH217/BAW62/	1
CIID	1 4148/	0
	1 215AB-P/D40C7/2N5089/	3
PRODUCT FO	2 H1-201HS/HA5320/HA2541/	2
THINK TANK	6 C106B1/NTE5402/ECG5511/ECQ5401/C106C1/1N4001/1N5400/1N4739/	2
PAPERS	1 3140/LM324/4N25/2N5886/2N4922/2N4145/2N3904/1N4734A/	7
	3 2102/TMS4035/4040/4011/1N914/2N2222/2N5656/MJE350/	5
PROJECT	1 C106B1/ECG5455/S3597/1N4003/	1
LEED	1 C106D/	1
	1 6264/74HCT132/74HCT02/BC556B/BC547B/BD140/BAT85/1N4148/	7
	1 M2N5460/2N3904/1N5235/	2
	1 3240/3140E/4066/	5
DEID	1 8288/HCT373/LS133/LS123/LS74/LS20/LS04/	8
APPARATUS	1 8212/74365/7402/7404/	5
	1 324/4040/	2
	2 8255/7109/CD4046/CD4020/LM336/SSS7510/LM308/741/CD4047/PT100	8
PROJECT	1 7216A/ICM7216DIP/BC548/2N3906/1N4001/	5
	9 324/LM386/LM3900/TL081/LF351/LF13741/2N3819/1N914/	2
CCT CELLAR	4 8255/SC01A/7497/74LS175/LM386/CH1810/SSI204/MK5087/CD4514/	7
	2 L293E/L298/ZN436/ZN426/NE556/LM324/74HCT39/4556/40174/7555/	9
	1 T2302B/LM3911N/1N2069/2N3906/NE2H/	3
	1 4219J/CA3140/CA741/	6
CIRCUITS	4 S2559E/M957-01/4049/74C73/	1
PRMO	2 H20A1/H13B1/555/2N3906/556/	4
FIFU	1 8254/74LS245/74LS74/	3
CICICE	2 8254/8284/74612/8237/82284/8259/6818/82288/	5
	1 8212/74LS04/74LS155/DM8131/74LS00/	5
	4 734/566/AD532/555/MJE1100/MJE1090/2N3405/LM113/74LS279/MV4H/	7
RFDENO	1 J310/	1
VIDEO	1 232N1/83P1/224N1/	9
DEAP	1 53C400/74LS245/74LS244/2764/	4
RAFU	2 237/236/80/58/57/2A5/	8
WAVEGUIDES	1 733/2SK117/	3
DIGITAL	1 93438/93448/9310/9316/9024/9601/9N00/9301/2N2907A/FLV117/	9
DEFE	1 J309/	1
RFFETE	2 U310/5082-2811/	1
IDEAS FOR	1 741/	1
APPLICATIO	1 741CN/TDC1048/HA2539-5/74LS374/	4
FEATURE	1 74LS244/74LS245/74LS21/74LS08/74LS02/74LS04/	7

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CIID	1 74LS161/74LS86/74LS08/	3
DRDI	1 7404/1N914/	1
EXPERIMENT	3 74150/74193/74173/7400/555/	4
	2 74LS244/74LS374/74LS10/74LS04/1489/1488/8251/	4
ENGINEER'S	1 74C74/T2300/2N2222/1N4004/	5
EXPERIMENT	6 741/1N914/LM339/7404/	6
VLSI DESIG	1 74LS374/74LS240/74LS125/74LS244/74LS155/74LS245/74LS30/	9
	1 741/2N3905/	2
TENO	2 74I/4047/F356/1N459/	3
S-100 BUS	1 74LS175/74LS10/74LS04/74LS136/	6
	1 74LS163/74LS05/7405/74S05/2N2222A/555/	4
SUPA	1 74A1/ECG389/ECG123/	9
	1 74LS04/	1
	1 545KH/	0
	1 74LS75/VIA6522/74150/	6
	2 54240/7581/555/542/AD521/2N4403/IRF511/7404/	9
	1 741/2N3766/2N3773/TM1-4/	3
	6 741/755P/1703A/452J/TL191C/54155/74121/7493/7473/7420/7400/	9
	3 74126/74121/74112/7485/7475/7474/7432/7408/7407/7405/DM7123/	9
ACNUPH	1 741/	3
DESIGN SOL	1 74HC132/LM324/2N3904/1N4148/	3
	1 741/	1
	1 74LS374/74LS244/74HCT245/74LS138/	6
DEID	1 74191/AD584/4098B/7474/7404/4020/	7
CIID	4 741/CD40106/BC263/BC109/LM7810/	6
	1 747/566/1N4001/2N3053/	4
	1 741/	8
	2 74123/TL082/TL083/LM710C/2N5432/	9
SUPA	1 741/HEP312/1N914/	3
COMMUNICA	2 747/7915/7815/SK3896/	2
Q&A	1 741/	1
	3 74121/2N2369/1N4148/74123/2N5837/74LS00/	5
TECH BRIEF	1 74123/7476/7402/	3
DESIGNER'S	1 74LS138/74LS139/6809/74LS04/74LS00/2764/6264/6522/6551/6845/	9
	2 74LS194/LM339/	4
	1 74153/74123/	2
	1 74LS125/74LS138/2114/74LS367/74LS00/74LS21/74LS32/74LS74/	9
	1 74LS688/74LS374/74LS122/8085AH/CA3300/	4
DEID	1 74LS175/74LS163/74LS02/	3
CISYLE	1 D40E7/D41E7/1N914/	2
REPA	1 741/	1
	2 14553/4511/MM5369/4017/4013/4011/LM317T/2N2907/276-075/	9
NOTES	1 741/740/1N459/	2
	5 741/BC148/BC147/OA79/	4
Q&A	1 741/	1
SOLID-STAT	1 7400/MV5491/	1
	1 74LS322/74LS175/7474/8255/74LS125/7404/	5
	1 7470/7485/	3
FEATURES	2 7400/2N2222A/	1

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TENO	1 74221/	1
CICICE	3 74121/74LS14/74LS240/74LS85/7489/74LS74/NE555/74LS151/LM741/ 1 74LS157/FPT100/	9 1
APID	1 74LS244/74LS85/74LS126/	7
DEID	1 74LS14/ 2 74LS390/74LS74/74ALS74/74S257/74S373/74HCT393/74LS32/74LS10/	0 7
FOREGROUN	4 74288/74181/74175/74174/74173/74161/74155/74125/555/7489/	9
REVIEW	2 747/2N3904/MPS-A42/MPS-A92/1N34/MV5753/1N4006/1N4148/	8
CIID	1 741/LM7905/LM7805/ 2 741/LM148/1N914/ 1 741/2N3904/1N4148/1N4002/2N5209/ 1 74121/ADC0804/709/1N914/1458/7404/2N2222/	3 1 2 9
REPA	1 74157/7475/74163/M137/	9
RFDENO	1 74S140/	1
CICICE	3 74157/74154/74121/7493/7489/7430/7407/7406/7404/2N2907/	9
IDDE	1 74HC74/74HC132/ 1 74193/7474/7408/74161/7400/74390/	2 9
IDEAS FOR	1 74LS93/74LS00/2716/2650/	4
TECH-TIPS	1 74LS02/ 1 741/1N914/	1 1
NOTES	2 74LS74/74LS32/LF357/MFE3001/7407/MCLPSW1211/2N5193/SZ58/	9
APPLIED ID	1 9400CT/1488/1489/74LS373/8253/ 1 74374/74LS123/74LS74/7414/78M05H/74132/74132/	6 6
DESIGN IDE	1 74HC4040/74HC239/74HC74/LM124/74HC11/LM160/74HC04/	7
DESIGNER'S	1 7437/7416/74174/ 1 7408/7400/7476/7432/74192/7410/74121/2N3704/2N3702/2N2905/	3 9
HOBBY SCEN	1 7404/ 1 741/TIP122/	1 6
CIRCUIT SP	1 7445/74LS151/1N914/	3
APPARATUS	1 7490/PC4/VFC15/	4
APPLIED ID	1 741/121/BC107/DAY19/BC177/ 1 741/1458/	6 2
DEID	1 74LS244/LS74/ 2 74LS377/74LS191/74LS393/74LS121/74LS73/1N914/74LS132/7805/	2 9
DEID	1 74LS74/74LS00/74LS541/	4
DENO	1 741/2N3055/BC107/SL100/ 3 741/7486/	6 4
NOTES	1 741C/MK10/2SK30A/	9
RFDEAW	2 74AC00/2N3904/ 2 741/555/2N6107/2N5294/2N2905/1N4001/	2 5
ARTICLES	6 7445/LM324/7404/PMIOP07/CA3140E/	4
CIID	2 74198/74193/74155/74148/74123/74121/7493/7474/ 1 741/	8 1
RATECO	1 74HC390/74HCT390/74AC11000N/7805/BSX20/BA482/1N4148/	4
DEID	1 74HC14/2N3906/2N3904/	3
HARDWARE	1 74LS175/74LS123/74LS241/74LS367/74LS02/74LS30/	9
DESIGNER'S	1 7405/74S140/	2
CIID	1 74LS74/74LS221/555/74LS32/74LS27/74LS10/ 1 741/	9 3

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CIRCUITS	1 741/UPF102/2N3904/	3
NOTES	1 741/558/301/MJF102/2N3819/1N270/1N914/	2
IDDE	1 7407/	1
ASK R-E	1 741/	1
	1 7414/BF337/MPSA12/B183/	5
IDDE	1 74HC161/74HC221/74HC164/74HC74/LTC1092/LT1021/74HC132/74HC14	9
DENO	1 74AC74/74HC4024/74AC00/74HC00/74HC86/	7
COMMUNICA	1 741/	2
	4 741/6BK4C/6EL4A/NIL81/2N2222/TIL31/	7
	1 7490/7404/1N914/	7
	1 74221/	1
FOREGROUN	2 74LS151/74LS138/74LS10/7408/7400/	3
ELECTRONIC	2 741/710/7474/BFW61/CIL769/	5
	1 7474/7408/7400/	4
DESIGN SOL	1 74HC163/2N3565/74HC86/741/MV104/	4
IDEAS FOR	1 74HC14/74HC74/74HC00/IRFD110/P300/1N4148/	4
	1 74LS00/74LS123/74S00/74LS74/	5
CIID	1 6402/4013/4040/74LS138/74LS373/4049/4011/	9
RENO	1 741/555/723/2N3055/SI100/	4
	1 741C/2N2222/RCA8575/	4
	1 741/2N3055/	2
	1 74LS193/74LS74/	3
DEID	3 741/CD40106/4040/CD4093/CD4071B/CD4077/4020/2102/1N4248/	9
	2 741/1N34/	1
DEID	1 74LS164/74LS161/74LS74/74LS14/74LS86/74LS260/	7
COAUMECO	1 74150/74193/7476/	3
PROJECT	1 747/LM340-12/7812/2N3011/1N759/1N4005/1N914/	3
AIANCH	2 741/LAS1512/MJ3001/GA51P7/V130LA20A/1N4004/1N914/	2
COAR	3 74LS154/MOC3010/NTE3040/LM7805/	4
REVIEW	1 741/	1
IDDE	1 74LS123/	1
	1 74121/74128/7400/BC182B/	9
	1 7404/	1
APPARATUS	3 741S/710/74121/2N425E/7402/7812/7805/7905/	5
DEID	4 74ALS645/74LS126/74LS125/22V10-25/	3
	3 741/MPS3702/7812/	2
COSC	1 741/	1
	1 741/1N914/1N4001/	1
	1 7476/7402/	2
	2 7400/74S00/54S00/7432/7404/74123/7490/2N2219/	9
AIANCH	1 545KH/517KH/CA3140S/74121/74LS04/74LS00/640-1/7805C/	9
CICI	3 741/2N3906/1N914/	2
IDDE	1 74HC4538/	1
IDDE	1 74LS74/74S03/	2
DEID	1 74HC4017/74HC14/	1
DESIGN SOL	1 74148/74173/74C922/	3
	1 74125/7474/7400/	4
TETO	3 542C/549/541J/2N5401/2N5550/2N3906/2N3905/2N3904/1N4148/1N60	5
TRBR	4 1458/741/2N2222/1N914/	4

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NOTES	3 74LS136/2764/74LS161/7216DIP/NSB5881/74624/74LS151/74LS244/ 1 747/8007/2N2222/	9 3
	3 747/741/LX1602A/MC1463R/MC1469R/2N706/310/	3
	4 74374/1408/74273/6116/74154/74279/74193/74LS240/	9
	3 74161/74LS86/555/74160/74164/7400/MPS-A05/	9
	1 74C00/SL100/2N2646/74C901/	5
SPISPA	1 74HC4040/4046/74125/74123/LF355/LF353/7474/7426/	9
FEATURES	3 74HCT4040/74HCT4024/74HC4024/MPF102/7805/ 1 74LS257/IM5610/4584B/	2 3
CIRCUITS	1 741/40673/2N5460/MPS2369/MVAM115/	4
CIRCUITS	2 7400/2N3904/2N2222/1N34A/1N90/	2
IDDE	1 556/HP5082-4880/	1
THINK TANK	2 555/MPS5172/	2
APID	1 555/4518/4511/4011/	7
DEID	1 555/1N914/	1
GEIN	1 555/1N4001/	1
PRSP	1 555/2N3906/	2
APID	1 555/8212/7407/74121/7474/	5
HARDWARE	1 555/2N2222A/PN2222/ 2 556/TIL111/74LS74/74LS00/74LS02/74LS04/74LS08/7805/2N2222/ 1 555/	3 9 1
ABBE	1 555/LM3900/LM319/ 1 555/4093/BC182/ 4 555/2N2222/	3 3 2
DEID	1 4538/VN10L/ 1 555/2N3703/2N3705/1N4001/	2 4
CIID	1 555/4029B/4013B/4001/BFY52/1N4148/	6
DESIGNER'S	1 555/MPSA06/MPSA56/ 2 6520/FD1771/7474/74123/7400/7404/74193/7402/	7 9
DEID	1 556/1N4003/1N914B/	1
PROJECT	1 556/4017/ZTX300/2N3904/OA200/1N914/	5
COAR	1 555/2N3055/2N2222/	3
DRBO	1 4508/5101/4049/	2
IDEAS FOR	1 4538/4011/	2
LAEX	1 351/741/	4
REPA	1 555/	2
FEATURES	2 5534/2N2222/1N914/	3
ARTICLES	1 2508/74LS196/74LS175/ 1 555/1N914/	3 1
DRBO	2 2579/LM324/2N2222/	2
COMPUTER F	1 555/PN2222/	3
PROJECT PA	2 555/DS548/1N4002/2N2222/ 1 555/CD4009/BC149C/CD4011/ 1 555/74141/BC109/7493/	2 9 6
PROJECT OF	1 4518/4017/	3
DESIGNER'S	1 555/MPS-A13/ 1 555/TIC206M/RS238615/1N914/ 1 M58725P/LS241/LS32/LS14/LS93/74121/	2 2 9
CIRCUITS	1 555/7404/7408/226R1-5A1/	4

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	1 4532/4024/4585/	3
	1 556/74LS193/74S287/74LS85/74LS74/74LS00/2N2222/276-1303/	9
	1 555/TIP54/2N3704/BY205/1N1448/	3
PROJECT	1 555/	1
FOREGROUN	3 555/74123/74121/7410/7408/7405/7400/	5
DEID	1 7555/LS244/F38/F04/1N914/	3
	3 555/4093/4066/4060/4035/4013/LM317K/2N3904/1N4148/	9
ARTICLES	1 7533/411/REF102/MPY100/	9
UPGRADING	1 555/MAX232/IRFD123/2N2907/1N914/	4
	1 555/74122/7407/	3
CIID	1 555/2N4123/2N2192A/MA30/1N3284/1N904/	4
SCIENCE	1 555/CD4011/1N5232/	2
	1 556/TCG123/	2
ATV	1 555/7805/2N3904/1N4001/1N914/	3
	1 555/2N3904/ECG225/ECG238/	7
	2 555/741/7490/7447/7442/7413/7404/7400/2N2222/1N914/	9
FACA	3 555/4049/VN10KM/TIL211/TIL209/	2
HARDWARE	1 555/	1
	1 6502/6522/6520/	4
LACO	1 555/	1
THINK TANK	9 555/LM3900/MOC3010/74190/7476/74LS73/7442/4011/556/4020/4N28	5
ALL ABOUT	5 555/1N4001/LM158/CD4011/N3055/2N1711/	3
	1 555/4027/311/TIP146/	4
INTERFACE	1 65SC51/ADHC12B/MC146805E2P/6116/	3
ASCO	6 555/7473/7404/7408/7432/TIP120/1N4003/	5
TRSONE	1 555/276-1718/276-1723/7805/276-1770/2N3904/1N4001/1N914/	3
	2 560C/TD266A/RK2/	3
	3 R6522/ICL7112/ICM7216C/4N35/SN7497/SN74145/LM723/NE555/7805/	9
	3 567/741/7400/XR2206/LM340T/1N4001/1N914/	4
HOCO	3 76477/2N2222/2N2907/	3
SCTERE	1 7611/ZTX327/UUT51J1/OA47/	2
THEME	3 567/7805/LM386/	3
	1 567/276-1721/276-142/	2
CIRCUITS	1 567/555/7400/1N914/	4
	1 R6522/HCLP2730/AD7545/AD584/HA2645/LS123/74121/LS541/	9
CICI	1 567/MC1458/	2
ARTICLES	1 3622J/TP1322/DG200/TP142502/TPHINIL342/TPHINIL323/TPHINIL321	9
TENO	1 165/RS123-123/	1
	3 R6522/8253/74LS640/74LS240/74154/74LS138/74LS155/7420/7430/	6
	1 8748/ADC0816/74150/MM53130/7805/2N3904/	6
ABBE	1 2716/2732/4020/4011/7805/	4
AUDIO AIDS	2 276-022/276-041/	0
	9 8748/2206/7805/2N3906/TIP31/2N3904/1N914/	8
FEATURES	1 276-025/1N914/1N4148/	0
	1 276-2002/1N34A/276-1123/	1
	2 8748/7805/2N3904/LM340T5/	3
HOBBY CORN	1 276=1171/	1
CIRCUITS	1 276-1180/276-2025/276-1103/	2

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TWLOCOAUP	1 276-1141/	3
	1 U741/BFW10/2N5294/0479/	9
TITE	1 276-1067/	1
HANO	1 276-145/	0
IDEAS FOR	1 2764/74S02/74S86/74S30/	4
UCDETE	1 8755A/8216/8212/CD4071/CD4001/2N3763/2N3440/1N4001/	8
CIID	1 M706BI/CD4027/CD4059/	3
GEIN	2 27C64/74HC244/74HC193/74HC132/1N4148/	4
COAR	1 276-1067/ECG5431/	1
DENO	4 8751/ICL7109/MAX420/LM324/4094/4093/4051/LM336/2N3904/	5
	2 2732/8155/8031/'LS373/'LS393/'LS157/'LS164/'LS241/'IS32/4071/	9
FEATURES	1 276-1146/276-022/	1
	1 276-2028/	1
SYRE	1 7812/7912/7805/	3
BUILD THIS	4 7805/	1
BUILD THIS	1 Z80/2716/2016/MAN74A/74LS273/74LS138/74LS00/74LS244/74LS74/	9
	1 Z80/74193/7473/7486/7404/1N914/7414/	5
DEPCSY	1 I860/I486/74F552/74F646/74F827/74F821/	6
APPARATUS	1 Z80PIO/74LS161/74123/74LS74/1N914/	7
	1 7805/6N138/74LS04/1N914/	3
CCT CELLAR	8 6802/6821/AY5-2376/9118/TMS4416/74LS138/7407/6850/LM311/	9
	2 68HC11A4/2N2222/74C14/IN914/TIP121/TIP32C/	9
PROJECT	5 G8870/8031/6264-15/2764/74LS373/74LS138/7805/4069/2N2222/	4
	5 3819/4093/LF353N/4013/9400/1458/1N914/1N4148/276-1715/	3
	5 7812/MC1496G/MC1350P/LM386/MPF102/2N3906/2N2222A/DV1201K/	9
CIRCUITS	3 Z80A/74HC42/6264/2732/AD7575/74HC374/TL084/74HC00/7805/1N914	7
LETTERS	1 Z80/74LS74/74LS32/	3
FEATURES	1 78L05/2SC799/2N3906/2N2222A/	5
BUILD THIS	2 68705P3/75T202/DMC16101A-EB/7805/2N2222/	4
TROUBLESHC	2 1826-0102/LM312/1902-0526/1901-0033/1901-0158/	2
IDDE	1 48F512/48F010/2N4403/2N4400/7407/1N747A/1N4001/	3
	1 Z8671/LM311/74LS08/74LS16/74LS244/74/	5
DRBO	2 Z80/2716/7432/74161/4049/	3
NUEL	2 8850/SR125/	1
SPSE	2 68HC705/TL497/MAX232/LM7805/2N3906/2N3904/1N5227B/1N4001/	5
DRBO	1 Z80/2716/7475/4001B/4049B/	5
DAAC	2 283/193/174/74/	3
	1 7812/1N4001/	1
LAEN	1 68230/74LS245/74LS244/74LS02/	4
ASK R-E	1 7805/	1
REAR	1 Z8671/74LS10/	2
	1 Z8530/9519/9517/	3
NOTES	1 082/741/4066/1N4148/1N755/	4
HOBBY CORN	2 3909/2N2222A/1N34A/	1
PROJECT OF	1 3909/1N914/TIL32/	1
	1 3914/1N4001/	1
IDDE	1 9900/74LS273/74LS244/74LS138/	4
APPLICATIO	1 MAX232/3487/3486/	3
FEATURES	1 MAR4/LM324/SBL1/78L05/2N3906/2N3866/2SC2075/CTX128/	8

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ICAP	1 UA783/	1
IDEAS FOR	1 CA3240/	1
	2 CA3089E/2N2222/LM7812/LM78L12ACH/1N914/	2
APID	1 LA1230/	1
IDDE	1 UA725/	1
	2 PA83A/OP227/3140/OPA128/LH0041/	7
GLAT	2 SAA1027/4040/555/LM317T/7812/	4
	3 UA733/LM360/TL084/74265/74AS74/2SK147/MPS6523/MPS6521/2N5771	9
PAPERS	1 UA741/	2
NOTES	1 DAC100/741/74273/74221/74154/7404/	9
	1 CA3028/U741/	2
DEID	1 MAX171/	2
INPR	1 UA741/	1
APPARATUS	1 UA747/UA741/AD580/AD590/	4
NOTES	1 UA741/2N3638/BU105/5082-4350/	5
DEFE	1 DAC812/27C49-55/74LS374/74HC283/	9
	1 OA91/1N4001/	0
DESIGN ENT	2 PA03/OP07/	2
	1 SAA5243/SAA5231/	2
	1 CA3140/SD211/SD210/2N5952/	6
ABBE	2 CA3130/TIP120/7912/	2
FEATURES	3 MAX232/ICL232/LM324/555/LM340-5/7805/2N2222/2N3904/1N914/	3
IDDE	1 CA3140/555/	2
	1 MAN10A/SN7400/	2
COMPUTING	1 CA3162E/7400/74125/	3
CONTRIBUTE	2 CA3140/LM118/725/BAP795/2N2222/BSX60/2N2907/	5
	4 UA714/LM311/74193/7474/7475/7408/7432/FND507/7447/74190/	9
RENO	1 UA741/555/IL7418/7476/	9
REPA	1 CA3140S/	1
LAEX	1 UA555/	1
DEFE	4 UA6685/LM607/LM4104/MC10H130/5082-2835/2N4416/1N914/	4
	1 UA741/2N2270/HEP247/	3
NOTES	2 CA3160/LM741/2N4123/2N3055/2N3053/1N829/	4
REPA	1 UA741/LM555/LM317/LM308/LM307/4N25/BC337/BC327/1N4148/1N4007	9
APID	1 CA3080E/	1
AIANCH	1 CA3140/	1
SOLID STAT	3 CA3093/CA3096/44003/7402/	2
	1 CA324/	1
SHPA	2 UA748/NE531/7401/74121/SH100/	5
CIID	1 DAC8222/OP400/REF08/LTC1040/	4
VIDEO	1 CA3126Q/2N2102/	2
	3 CA3028/2N5486/2N3904/MPS431/2SC1815/LM386/2N4871/1N914/	7
	2 OA91/	0
CISYLE	1 UA741/	2
CIID	2 CA3059/CA3046/TIC206D/	2
PROJECT	2 CA3140/1N4148/531/	1
APPARATUS	2 UA741/BC107/T-S26/	4
HABA	1 MAX631/	1
APTE	1 UA709/UA748/UA725/BC141/BC161/KC133/	9

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	1 UA741C/2N3946/2N2219/OA81/IZ4.2/IZ3.3/	6
	1 CA3140/LS367/	2
	2 CA3140S/3660K/LM301AN/MC1458N/OA79/BFW10/LF356N/OA79/	6
	1 CA3130/2N3055/HEP170/ML4010/	2
	1 SAA5350/TDA3562A/SAA5230/TDA2578A/74373/74244/SCN68000/74245	9
DEID	1 MAX457/	1
ELCOCI	1 CA3130B/LM158A/LM111/6N136/MCR204/2N6661/ICL8069/150CA10A/	9
HAHA	1 MAR6/	1
ARTICLES	1 SAA1027/4528/4011/1N914/	3
IDDE	1 DAC8222/LTC1040/OP400/REF08/	4
TECHNOLOG`	4 CA3059/741/2N3904/2N3055/2N3054/1N4004/1N4001/	2
	1 HA2520/CD4016/CD4013/	4
DEPCSY	3 MAX741D/MAX716/MAX661/SI9405/2N2907A/ZTX750/1N5820/1N5819/	8
	1 SAB80286/SAB82258/SAB82284/SAB82289/SAB82288/	3
	1 UA741/CD4016/	6
	1 VA701/VA707/	2
CIID	1 CA3162E/MC14511B/2N4291/	5
	1 QBH502/M4T/	1
	6 BB3656/AD624/AD394/AD365/HA4900/AM9513/AM2914/AM2956/AM2925/	9
FEATURES	2 SBL3/MC7812CT/J310/2N2857/2N2222A/2N2102/TIP31B/2N2907A/	9
RESEARCH P	1 BB105/BC182L/BCY71/BC212L/BFX89/BF356LB/	9
SYCOIN	1 6BK4/	1
DESIGNER'S	1 MBD101/74S04/2N3905/2N3904/	3
FEATURES	1 6BW6/18R8/	1
	2 TBA120S/555/	1
THINK TANK	6 ECG6400/NE2/SK3721/ECG6408/ECG5603/1N34/SK3466/SK3950/	2
COKIRE	2 TCM3105/LM358/TSC232/74HC14/UA7805/1N4004/1N4148/	2
HOBBY CORN	1 RC111/RG111/	1
ONLI	1 MCR100-8/1N4007/276-1020/V130LA20A/ERZC20DK201U/276-041/	1
	3 ECG3041/2N4125/2N2907/MP5L51/2N4888/ECG288/MP5L01/2N5401/	4
	2 MC10116/ICM7208/2N3906/MMT2857/MMT3823/MBD501/74LS196/	7
PROJECT	2 ICM7216DIP/74LS14N/MPF102/2N3904/LM7805CT/1N4004/276-075B/	9
BUILD THIS	5 MC1496/NE564/74LS73/74LS00/78L12/7805/2N5951/1N4001/	5
FEATURE	1 MC68332/MC14489/MC145050/MC6206/	5
APNO	1 MC68030/MC68681/MC68230/MCM6164/74F521/74F175/PAL16L8/MAX232	9
	2 MC68230/MC68153/74S280/74S74/74LS260/74S139/74S38/74LS240/	8
DOSPRAMEA	1 MC1733/AM687DL/MC10105/UPA38A/	9
NOEX	1 MC14027/MC14011/BSX19/BSX20/BAX16/IN914/	3
FEBABOMO	1 MC3302P/TIL209/BZY88C13V/BZY88C12V/BZY88C11V/BZY88C10V/	1
CIID	1 BC177/1N4148/	1
IDDE	1 MC1408/741/2N2222/	3
DEID	1 ICM7242/2N3906/2N3904/	4
	2 MC3356/MC1458/TL082/555/2N2907/74LS74/74C925/74LS163/LM311/	9
TENO	1 ICL8038/TL084/	4
	1 ICH8500A/LM725/	2
TEFE	1 TC300/	1
RFDEAW	1 MC1496/74F86/2N4303/2N3906/	5
CORRESPON	1 MC3403/	1
CICI	4 MC14541B/MC14536B/4049/4011/	1

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FEAR	1 ICL7107/	1
GEIN	1 HCT5555/	1
DEAP	1 UC10114/UC10125/	1
	2 SCL4060AB/CD4060A/4001/	2
	1 MC14528/MPS3394/1N755/1N914/	7
	1 BC108/BC184L/BFY51/OA81/	9
TECHNICAL	2 MC2831A/2N5179/2N5770/2SC1973/	2
COAR	1 ECG5603/NTE5603/2N6071/ECG6408/NTE6408/	1
GEIN	1 BC517/1N4148/	1
	1 RCA3140E/	4
CIID	1 MC1377/MC1374/74HC4040/74HC190C/74HC11/74HC02/	6
POSUBACH	1 MC34161/TIC216/1N4007/	2
EXWO	1 MC1350P/ECG746/NTE746/MPF102/276-2062/1N34A/276-1123/	2
	1 ICL7650/ZNREF025/	1
	7 MC14528/LM322N/2N3993/ITT3021/4063/4514/4027/4508/4073/4013/	9
COMMUNICA	1 BC109/2N3055/1N5408/	3
	1 BC109/4528/VN10/1N4148/	6
	1 SC141B/MOC3010/1N4001/	2
DEID	1 MC146805E2/1N4004/	1
APNO	1 BC108/BC338/ORP12/RS305-620/	2
DEID	1 HC5512/5512A/5512C/	1
PROJECT	1 BC182L/2N3904/	1
INNUSP	1 MC1733/AM687DL/MC10105/	3
CIID	1 BC178/BC108/276-081/1N916/	2
TENO	3 MC14174/TL062/LF398/LM3086/LTC1041/MC14017/MC14066/MC14069/	9
CIID	1 RC4136/LF353/	2
APPLIED ID	1 ICM7555/	1
ITIM	2 ICL7106/LM11/	2
	2 MC1489/276-2521/MC1488/276-2520/7404/276-1802/	2
DEID	1 ICM7556/	1
	3 4CX250B/0B2/0A2/1N34/HEPR0170/	9
DEID	3 ICL8211/TL7705A/	1
DEAP	1 MC68020-20/KS84C21/AHCT244/AHCT109/AHCT06/20R8/	6
CCT SUPPLE	1 ICL7107/74LS90/4051B/7493/	4
CISP	1 BC548/TIP31/1N4002/UA2240/XR2240/	5
	1 BC107/	1
	3 MC6809/AM9517/8001/8002/74LS393/HCT4040/74221/74221/74LS74/	8
TECHNICAL	3 MC1350P/SBL1/LM324/LM386/2N4416/3N211/NEC99532/2N3904/1N4152	9
PAPERS	1 BCY55/BFW11/2N1132/BZYC6V2/OAZ200/	5
APPLICATIO	1 MC68HC11A1P/27128/27C256/MAX690/74HC373AN/74HC00/2N2222A/	6
	4 MC14581/SN7486/SN7400/SN74174/SN7483/SN74121/SN74123/SN7402/	9
	2 MC4044P/TAA991D/SN74LS221/SN74LS00N/SN74192N/SN7490N/SN7414N	9
BUILD THIS	2 MC1350P/LM565/LM386N/LM7812/2N3565/1N914B/1N4002/	6
	1 MC14410P/TMS4036NL/MC14042B/MC14528B/MC14024B/NE555V/LM380/	9
CCT CELLAR	3 TCM1520A/TIL111/AY3-1350/2N2907/2N2222/1N4148/74LS122/	8
	1 BC237B/	1
	2 ICL7621DCPA/ICL7555IPA/CA3140/LM565/MC1350/2N311/	5
	2 ICM7216D/11C90/74196/MWA130/7805/1N914/	4
	1 ICL8013/SG3524/NMH0026/IRF142N/IRF9130P/MR824/	5

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SUPA	2 ICL7107/ICL7250/LM748/LM311/MOC3031/LM555/LM335/LM329/T4700I	9
DESIGNER'S	1 MC1466L/IRF732/1N4007/B2YG8C6V2/1N914/	2
APPARATUS	2 ICL7660/308/4040/308A/1N914/LM336/	5
TEFO	1 MC68701/74LS373/MCM2716/7400/26ADS/2N2222/TIL220/	7
COPA	2 MC10124P/CX20096/HPL118TX/HPL118RX/SP9680/MC10125/74S74/	6
	3 ICM7170/80C49/74HCT688/74HCT139/74HCT541/74HCT245/74HCT00/	5
	1 ICL7139/ICL8069CCZR/BC547B/1N4148/1N4001/38D8R02H/B2B600/	3
POEL	1 BC636/BC635/BTR59/	3
TENO	8 ICM7217A/MC14508/MC14028/MC14027/SN74LS373/SN74LS245/SN74184	5
DESIGN	1 MC68705/MCM2801/2N4403/	3
FEEDBACK	1 BC107/2N3906/	3
CIID	1 BC108/	1
ENGINEER'S	1 CD4011/1N4148/	1
	1 CD4001/1N914/	1
	3 AD545J/BBOPA103/AD517J/AD524B/AD542K/LF412/BBDIV100/AD535/	9
SEMICONDU	1 CD4059/4069/555/	3
CIRCUITS	1 CD4040/CD4051/	2
DEID	1 CD4051/741/CD4030/CD4008/CD4024/	5
	3 CD4022/LM339/LF412/TIP112/LM394/4N28/1N4148/LM329/LM385-2.5/	8
	1 AD590L/	0
	2 IDT7204/74F374/74F269/74LS245/74F244/74F74/74F00/PAL16L8/	9
	1 AD510JH/	1
	2 CD4051/LM117/	2
DESIGNER'S	1 CD4060/CD4013/CD4030/	3
PROJECT	2 ADC0804/LTN111R10/AMX116ND/LM34/74LS08/74LS00/LM385-1.2/	3
NOTES	1 ADC0804/7432/7404/	3
ARTICLES	2 ADC804/LF356/AD580/MOC3031/MAC3030-4/	3
ARTICLES	6 ADC0808/74LS374/74LS373/74LS273/74LS163/74LS138/MC14495/7426	9
	8 AD630/AD584K/AD644J/AD536J/AD611J/AD524B/AD544L/AD7512DI/311	5
GEIN	1 CD4541/4027/B380C1500/BRX49/BC547A/1N4148/1N4007/	5
PROJECT PA	2 BD140/555/ECG185/	2
	1 BD675/1N4007/	1
	1 AD7525/SN7485/SN74190/ADG200/XR2206/TL072/	9
	1 ADC0816/CD14518/74C14/74LS02/LF398/74LS74/	6
FOREGROUN	1 CD4010/74147/	3
TECO	2 ADC809/8255/6522/74LS245/74LS138/4069B/1N4004/	4
SOLID STAT	5 AD2500/NSB3881/NSN333/MP7138/DS8857/LM307/2N5246/8750/4543/	8
	1 AD522/REF01/OP07/OP27/	3
	2 TDC1016J8/74LS113/7400/74S00/74123/74S04/2N2369/74S02/74S20/	8
GEINPR	2 TDE4061/74HCT132/74HCT73/78L05/BC547B/BPW41N/BAT85/1N4148/	3
CIRCUIT CE	6 CD4040B/74LS161/74C164/74C174/74C374/74C157/IS32/74C83/	9
	6 ADC0809/RC4558/BC212L/LM13700/1458/ZTX75/ZTX600/ZTX751/	9
	2 CDP1802/2101/4016/4050/5082-7340/4023/4049/LM309K/1N914/	9
FEAR	2 AD673/AD7503/PWR-NCH801/74LS373/LM741/LM2575-5.0/MAX743/	9
	2 CD22859E/2N2222/2N4401/1N4747/1N4148/	4
	2 ADC-UH8B/74S163/74S374/74S140/74LS161/74LS221/74LS160/74368/	9
STENSE	1 CD4022/CD4020/CD4016/CD4001/2N4351/2N5179/	6
	2 AD537JD/FPA106/74C14/	2
IDEAS FOR	2 HD6402/7211A/MC14411/MC1488/CD4081/74C14/1N5232/LTR1341/	9

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	1 BD140/	2
APPLIED ID	1 CD40106B/CD4017B/NSL4944/1N914/1N4148/	2
PREU	1 TDA8405/TDA8420/TDA8401/TDA8440/TDA8443/TDA8450/TDA8480/	9
DEID	1 UDN2975W/	1
	2 CD4514/CD4076/CD4063/74C373/CD4008/CD4017/CD4043/CD4081/7805	9
NOTES	1 AD524/OP27/AD581/AD590/2N3055/	4
FEATURES	1 AD7224LN/LM10CN/LM340LA/78LO5/	3
IDDE	1 AD580J/AD590K/1N914/	1
IDDE	1 CD4001/VP0300M/VN0300M/AD7769/AD7774/	3
IDDE	1 AD843/AD705/	2
	2 AD533/311/	1
	2 AD594/AD596/ADOP07/AD580/	4
SHPA	1 AD534J/LM324/LM311/SG108/	4
ELCOCI	1 CD4060/2N3645/IN4740A/IN4742A/	2
	2 TDA2030/741/LM348/TL074/CD4528/CD4011/BC109/BC179/1N914/	9
CQ REVIEWS	1 HD64B180/MC3357/HD61602/4510/71055/2SC2785/1SV50E/ND4871-3R/	9
IDDE	1 IDT7202/74LS374/74LS157/74LS74/74LS138/74LS32/	6
NOTES	1 AD574/C011/74HC373AP/CD74HC193E/MM74HC125N/SN74LS123N/TIP142	9
INME	1 AD844/LH0002/	2
COAR	1 CD4093/C106D/T106D/1N4448/	2
DEID	1 AD592CN/OP177A/REF01/	3
TENO	1 AD590/	0
	1 AD584/AD590/TL321/RH2095/	4
ARTICLES	3 ADC674/CA3140/74LS153/74LS132/74132/LT1085/LM7905/X9104P/	5
	1 MD68SC84/MD65SC51/MD68SC40/MD6802/MD68SC49/	5
CIID	1 CD4511/CD4008/BC107/CD4011/	6
IDDE	1 CD4050/	1
DEID	1 ADC0803/LM124/74HC4016/2716/74HC14/LM185/	5
IDDE	1 AD811/AD797/	2
	1 AD7543/TP142502/	2
	1 AD7581/DAC558/555/TL084/AD542/DAC82/VN10KM/2N3906/7404/	9
	1 AD311/AD590/AD581/	2
	1 HD6303RP/MC14444P/AD595CD/MC146818P/7622/7611/6264/27C64/	9
SESCCH	2 ADC1205/HA2400/8255/74139/7492/7474/7905/7805/7404/LM336/	5
	3 AD532/TL074/	1
BUILD THIS	1 AD736JN/1N4148/	1
	1 ADC0808/1458/7402/7404/	4
	1 CD4049/	1
	1 CD4098/CD4528/2N2222/	2
CIRCUITS	1 CD4011BE/	1
IDDE	1 AD844/	2
	1 HEP570/HEPC2003P/	1
CIRCUITS	1 NE5204/NE5205/	1
BEEB MICRO	2 NE571/741C/	2
	1 NE5205D/LM317LZ/1N5711/1N4001/1N914/1N4148/	2
QRP	3 NE602/LM386/555/2N2222/1N924/	2
EXPERIMENT	2 NE536/CA3130/CD4066/	2
	1 NE558/74LS244/74LS32/74LS04/74LS30/	5
	1 NE21889/NE72089/	1

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	3 NE602/MC1350P/LM386/MPF102/2N3906/1N914/	6
CICICE	2 XE1201/XE1203/NCR5380/7423/ICL7660/LM386/LS245/LS156/1N4735A	6
PROJECTS	1 NE5534A/LF351/UA741C/BC549/BC547/1N4148/	7
	2 NE556/CD4001/LM386/	2
	1 NE5205/	1
APPLICATIO	1 NE555/2N3904/1N914/74L500/	4
	2 NE572/TL074CN/2N3906/2N3904/1N4002/1N914/78L15/79L15/	2
FIFU	2 NE558/74LS244/74LS138/8253/8255/8284/74LS175/74LS38/74LS32/	5
TEST TIPS	1 NE5534/NE5532/ICL7665/	3
FEATURES	1 NE556/PQ2816A/SN74LS244/SN74LS195/SN74LS93N/SN74LS74N/74LS04	9
HAM RADIO	1 NE602N/MC1350P/NTE614/1N34/1N60/	2
BUILD AND	1 NE555/	1
	1 NE565/CD4013/2N3904/1N4001/	3
PROJECT WC	1 GE-X12/	1
	1 NE567/NE555/HEPR1220/1N4002/	6
	1 NE555/	2
APID	1 NE529N/	3
	1 NE602/NE555/78L05/MC34119/2N2222/2N2907/2N3866/2N3553/1N914/	9
HANO	1 REF43F/	1
	1 NE2/	0
INMEHIENPH	1 NE521N/DAC7523/OP07/LS273/LS240/LS153/LS138/LS112/AD584/	9
	1 NE555/4011/BC558/BC108/IN4148/	7
	1 GE-IN5069/	0
MANUFACTUI	1 NE531/	1
HINTS AND	1 NE555/LM339/2N2222/1N914/	3
TITE	1 NE2/	0
	1 NE555/4001/2N4172/BDX25/	3
FEATURES	2 NE602/MC1350P/LM386/1458/7812/78L08/78L06/BS170/MPF102/	9
FLPLELDI	1 NE555/BC287/BC286/BU208/ZF5V6/BA157/	7
CIRCUIT CE	1 XE1201/XE1203/LM386/ICL7660/1N4735A/LS23/	4
HAM RADIO	4 NE602N/78L05/	2
IDDE	1 NE567/3140/BF194B/	3
	2 NE5534/LM317T/2N4401/2N4403/2N2219A/2N2905A/1N5314/1N963B/	5
HAM RADIO	2 NE602/LM386/LM358/2N3904/	6
	3 NE570/MC3403/	2
	4 NE5535/1N914/1N4933/VN35AB/IVN5001TND/	2
PRTE	1 NE202/NE20283/	1
	1 6E10/SD210/	2
CIID	1 NE565/2N3638/	3
FOREGROUN	1 NE2/	0
TRBR	1 LF356/IN4741A/	1
	2 MF10/	2
CIID	1 LF398/741/	2
	2 VFQ1/LM235/6821/68701/MC146819/	6
	4 BF494/AM2910/374/157/151/139/138/109/04/	4
	1 LF353/	1
APPARATUS	1 LF353/LF356/LF13741/LF13333/DAC1000/	6
	2 LF356H/AD532JD/4N27/MR754/MJ15011/MJ15012/MPS-U10/MPS-U60/	9
REAR	4 LF311/LM2904/TL074/356/OP27/OP5/LM317/7805/2N2219/2SA817/	7

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	3 LF356/2SC838/LS245/8255/LS04/LS20/LS136/SD113/1S1588/40H002/	7
SHPA	1 LF356/4066/4049/4027/	9
	2 BF256/SL6270C/LM386/MC1496/TL071/BF241/	4
TENO	2 LF356/74C221/74C93/4051/LM311/1N3595/1N4148/	5
AUDIO AIDS	1 LF411/MPS6521/MPS6523/MPS-A63/MPS-A13/	5
CITHDE	2 LF351/	2
DEID	1 MF10/4060/	2
PAPERS	1 LF357/LF356/BZX79C2V4/1N4148/	2
SIUP	1 LF353N/	1
DENO	1 BFR92A/	3
CIID	1 LF356/	5
DEID	1 LF356/	1
	2 LF357/LM311/LM556/2N4250/74121/H1201/	9
SHPA	1 LF355/	2
	1 EGG5351/EGG396/SG3001/1N4937/1N4007/	2
PRMO	1 UGN3020T/276-1646/	1
	1 SG1525A/	1
BUILD THIS	1 TGS813C/LM3909/LM2940CT5.0/DS1233/LM311/2N3904/1N4001/	7
	1 DG211/4023/BC183/1N4148/4013/4538/	5
PAPERS	1 LH0070OH/RS158-418/L121RS305-800/	3
DEID	2 LH0002/	1
	1 LHOO42CH/LH0062CH/N3644/AN2003/	3
FENEPR	1 PH27001H/	1
ARTICLES	1 LH0042CH/UUT43J1/	1
FEAR	5 THC1068/8255/8253/PAL16L8/74LS393/74LS244/74F161/74LS151/	5
	1 LHOO38C/LM346/	2
	1 LH318/	2
	1 VH148/VS148/7905/7805/	5
CIID	1 TIC226D/BC184/2N2222/BC214/OA47/	4
	2 TIP120/LM324/2N4922/74C04/78L12/	3
	4 TIP41A/	1
DEID	1 SI53/SI63/SI38/SI24/	4
	2 TI106D1/C106D1/ECG5457/NE2/CD4584/IRF-Z20/1N4007/1N4148/	2
ASTRONOMIC	1 TIP122/	8
	1 TIP41C/4020/BC184C/555/4001/7815/1N4001/BC107/	9
	1 TIL111/LM556/TIP31/2N3904/	9
GEIN	1 TIC206M/DB3/	1
	1 TIP110/TIP115/2N5461/UA741/2N5457/1N4148/	9
APTE	1 TIP31A/1N4148/BA155/	2
IDDE	1 HI5046/LM311/741/	3
HINTS & KI	1 TIL111/2N2222/1N4004/7404/	3
	1 MK5102/S3525A/MC7805AC/1N4742/	3
DESIGN SOL	1 MK5087N/2N2907/2N2222/1N914/	9
CIRCUIT ID	1 MK4164/CD4013BE/TL071/74LS157/74LS393/CD4027BE/CD4011BE/	9
	1 SK7669/SK7645/LM380N/1N4148/	3
FEATURE	1 TLC271/	1
	1 TL082/H11F1/LM103/2N2907/2N2222/AD558/6522/	7
APPLICATIO	4 TL081/8253/DAC1285CBI/74C374/74LS125/74LS138/4050/74LS02/	5
REPA	2 TL604/TL084/	3

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PROJECT	1 TL072/LM3019/CA3019/1N746A/	2
	1 TL507/7400/339/	3
GEIN	1 TLC556/4011/BS170/1N4148/	3
	2 TLC555/NE5534/LM311/LM317L/IRF9523/ZTX650/BC557/11DQ06/	5
RENO	1 TL082/BFW10/	2
	1 TL071/BPW32/	4
CIID	1 TL082/324/TL084/1N4148/CA3046/9491BJ/	3
	3 EL2018/LM340-5/LM355/74ALS74/LM311/PAL16H8/74HC14/MPSH11/	4
ARTICLES	3 TL074/TL072/	2
FEATURES	3 TL074/74HCT4060/74HCT4051/74HCT541/LM337/	3
NEW IDEAS	1 TL092/2N2222/1N34/1N4001/	4
	1 TL080A/NE535/TL441/LM301A/	6
APPLIED ID	1 TL083/BA280/BA182/	1
DECA	1 TL497/CD4053B/	2
IDDE	1 TL082CP/	1
	3 TL084/UAF31/2N3904/CLM6200/74121/7476/1N34/	7
PROJECT	1 TL071/1N4148/	1
APPARATUS	1 TL084/LM339/4050/74123/7474/7411/	6
	1 TL071/MC10198/MC10216/DAC210/TL074/LM311/SN74279/SN74221/	9
	1 ULN2803/ULN2001/ULN2003/	1
TENO	1 TL071/A990B-UT223/	1
TENO	1 TL074/2N4392/TIP140/1N914/TSF102/TSU102/	5
	2 SL445A/LM351/LM11/AGC553/UTO514/UTO524/2N5570/PN3642/1N4007/	6
CIID	1 TL072/	1
CIID	1 ALO1701/4069/	2
RFDEAW	1 CLC522/CLC912/SN74LS163/TMS2764-20/	6
	8 TL084/LM339/741/LM324/1N4148/1N4733/XR2206/2N3635/2N2222/	2
BUILD THIS	4 TL084C/LM331/LM311/MCT2E/741/74C925/7492/74121/74123/7474/	9
FEATURES	1 TL082/LF353/2N3819/2N2222A/	3
APNO	1 SLB0586A/TIC206D/1N4148/1N4007/	2
	1 TL084/741/ZNREF100C3/LM334/7812/7912/	5
IDDE	2 TL082CP/	1
POSUBACH	2 TL074/LS3369EH/1N4148/1N4001/	2
DEID	1 CLC520/LF356/HP5082-2811/1N5226B/	2
PAPERS	4 TL074/LF356/OP27/OP05/LM399/LM317/2N6657/2N2219/LT025MDO/	7
	1 6L6GC/6L6/276-1114/	1
	2 TL061/2N3822/LS221/2N2222/1N746/1N4148/	7
	2 TL071/LM311/1N4148/	1
OPFI	2 HLP1400/BPW89/	0
	1 TL082/276-1715/276-1161/1N4733/276-565/	2
DENO	1 TL081/UA7905/UA7805/BC237/BU208A/1N4148/1N4007/	5
FEATURES	3 TL3103/TL3102/TL081/TL741/TL712/TIC201B/2N2222/	3
	1 LM324/LM386/	2
RATECO	1 LM3914/	1
ANDE	3 LM339/LM324/74C74/74C04/	1
EXPERIMENT	3 LM339/2N2222/	4
	3 LM324/UA747/	1
PRMO	1 LM3914/4017/4011/MAN2A/TIL305/DL57/	4
	1 LM358/MC3340P/2N3819/2N1305/1N704A/7815/OAZ201/1N914/	6

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	1 LM555/74121/7486/	5
DESIGN IDE	1 LM317/UUA41J1/LM324N/MPS6515/	3
	1 LM733/HP2602/BC109/	3
APID	1 LM725/	1
	1 LM555/4017/2031/	6
SPRE	1 LM311/	1
	1 LM555/7476/565/7474/7492/7490/	9
	3 LM3046N/74L03/74C04/2N2905/LX5700/74L04/74C00/7404/7400/	4
	2 LM565/LM339/LM566/	2
SINO	1 LM111/	1
IDDE	1 LM358/74HC74/74HC00/1N4150/	3
COLUMNS	2 LM339/555/74193/74LS193/7485/74LS85/	3
	1 KM311/74LS123/	2
	2 AM685/10198/2N5770/2N5771/10H105/HP5082-2835/DAC801/LH002/	9
	1 LM565/TL071/7812/	5
DEWO	2 LM317/1N4001/	1
	2 AM29117/2910/CY7291/AS374/CY7C245/AS244/AS161/AS175/	9
	1 LM324N/LF356N/	2
	1 LM340-05M/276-1770/271-1151/276-022/	2
PAPERS	8 LM319N/PXO1000/ICM7217/MC14519B/MC14028B/MC14027B/MC14017B/	9
FEATURES	2 LM555/TCG5414/7812/1N4001/	2
APPLICATIO	2 LMC660/T37,332/	1
IDDE	1 LM2902/	1
FEAR	1 LMC660/	1
	1 LM310/	1
	1 LM383/	1
ASK R-E	1 LM2807/	1
ASK R-E	1 LM3900/LM3915/	2
APTE	1 LM324/CA3086/1N914/	2
CCT CELLAR	4 MM5369/MM58167A/74LS373/74LS30/74LS02/74LS04/1N4728/74LS10/	7
ORAR	2 LM339/4076/4017/4028/7404/4049/4068/4011/	7
	7 LM339/LM311/7812/7912/2N2222/2N3904/1N914/1N4001/276-561/	6
ORAR	1 RM4136/74LS393/74LS193/74LS221/74LS00/74LS05/	9
PROJECT	1 LM3914N/	1
	1 LM383/276-703/	1
CIID	1 LM324/GL23/151-029/	1
BUILD THIS	2 LM339N/7812/2N2222/NTE5882/ECG5882/ECG5065A/1N4004/	3
LAEX	1 AM430B/MRD510/	2
DEEN	1 PM725CP/PM741J/REF01/2N3904/1N914/	4
BUILD THIS	1 LM324/LM317L/2N3906/2N3904/1N4148/1N4002/	5
FACTCARD	4 LM350/LM308/LM317/2N2905/2N2222/	5
FEAR	1 LM324/	1
	1 AM25LS09/74LS670/74LS160/74148/74LS74/7474/AM91L40/	9
INMEHIENPH	1 LM311H/	1
BUILD THIS	1 LM324N/2N2222/1N914/1N4002/	2
	1 AMZ8163/AMZ8164/AMZ8165/AMZ8166/AM9016/AMZ8160/	7
	1 MM5309/2N2222/276-1000/2N2907/1N914/5082-7415/	9
	2 LM3911N/C106F1/1N914/2N3904/1N4001/	2
	1 LM339/CD4013/CD4070/2N2222/2N2907/1N34/	7

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	1 LM324/1N34A/	1
	1 LM317I/	1
CICICE	2 MM57499/74164/SN75115/SN75114/TIL209A/1N914/	4
CICICE	9 LM3911/LM301/LM1830/NE567/CD4011/LM309/KD2100/SK3020/2N5494/	4
COLUMNS	2 LM386/741/555/	2
RFDEAW	1 LMC669/LT1028/	1
COAR	1 LM358N/AN78L06/2N3904/2SC1687/MV2105/	6
	1 LM380/T1812/1N914/1N4148/	2
LACO	2 LM331/2N2635/	1
APID	1 LM2917/	1
DAAC	1 MMI6306/74LS151/74LS138/	4
	2 LM311/741/7400/ZTX500/ZTX314/ZTX313/ZTX311/BFY90/RS613-313/	7
DENO	1 MM74C175/MM74C08/MM74C907/MM74C04/	4
PAPERS	3 LM391N100/UC3843/8250/6402/8255/2N7000/IRF9540/IRF540/2N4861	9
IDDE	1 LM301/LM311/	2
APID	1 LM317MP/	1
	1 LM394/LM308/LM301/LM336/BC559/	5
CIRCUIT ID	1 LM3342/TIP126/723/1N4007/	3
	1 LM158A/CA3140T/4011B/2N3055/1JK60/BU208A/BF259/LM135A/LM134/	7
APPLIED ID	1 LM741/LM329/BD131/LT1008/ORP12/	3
BASIC AMAT	1 LM317/1N4001/	1
BUILD THIS	1 LM324/2N3819/2N3906/1N4745/1N4001/	5
APPARATUS	1 LM301/4040/IRF511/BC557/4069/BC547/1N4004/4002/1N4744/	7
	1 LM1595/301/741/1N914/	9
RENO	1 LM311/UA741/555/	5
	1 LM339/2N3053/2N2222/RS276-116/RS275-226/1N914/	3
RENO	1 LM556/CD4070/CD4011/LM324/1N4148/2N1482/2N2221/BC107/SL100/	9
TECH TIPS	1 LM386/4011B/	1
	2 LM301/MC7805/2N4923/74121/74123/74LS74/74LS90/7406/74LS00/	9
HANO	1 LM117/1N4002/	1
	5 LM319/HCT4049/DS0026/VQ7254P/HCPL2530/ZTX451/ZTX500/IRF630/	4
DEID	1 LM358/BC261/1N4148/1N4007/	2
	1 LM723/2N6043/	2
	1 LM565/LM3914/LM555/NE555/2N3904/2N5484/2N3906/1N914/276-081/	9
NOTES	1 IM6402/74121/74123/7474/8T16/8T15/	4
	2 LM386/LM7812/	2
NODI	2 LM318/2N6550/5722/2N3904/1N755/	4
DEID	1 LM324/74LS00/LM134/C59013/LM7805/1N4148/1N4001/	5
AUDIO AIDS	2 LM317L/2N2222/	1
TEST CASE	1 RM319/2N5193/2N2484/1N4001/1N914/	3
IDDE	1 LM158/1N4148/	1
ELCOCI	1 LM124/7400/602-1/	3
	1 TMS3477/TMS4C1024/	3
FEATURES	1 LM317/2SC1969/1N4001/	2
APPLIED ID	1 LM324/	1
	3 LM386/2N3906/MPF102/40673/MC1350P/1N914/	6
	2 AMZ8530/AM7960/AM2947/AM29809/AM26LS32/AM26LS29/	5
APID	2 LM339/LM358/LM324/	1
NEW IDEAS	1 LM2907/	1

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	2 LM567/7402/7805/2N5061/1N914/	4
DEID	1 LM339/	1
	1 LM358N/78L05/2N2222A/1N4003/1N914/1N270/1N34A/276-1123/	3
REPA	1 LM725/LF356N/OP10EY/2N6388/2N5882/MPSA06/MPSA56/1N4148/	9
	1 LM741C/	1
	3 LM723/74LS90/5400/4013/74C74/74C157/74C08/74C00/75492/	6
ARTICLES	1 LM339/	1
QRP	1 LM317/	1
APDENO	1 LM339/LM741/SK3046/SK3673/SK3592/2N4442/1N3070/	6
CIID	1 LM317/BA159/	1
	1 LM358/74LS14/	1
	2 LM1458/4020/4021/4024/4047/4010/4013/4016/4034/XR215/4017/	9
IDEAS FOR	1 LM308/1N4448/	2
	1 LM324/2N2222/386N/1N914/	7
DEID	1 LM4250/CD4020/MPF930/1N914/F900D/	3
APSU	1 LM604/	1
APTE	1 MM5303/74164/DAC1203/74154/74126/TIL112/34702/BC547/1N914/	9
	1 LM393/4001/	2
HOME-BREW	1 LM324/276-1711/2N4401/276-2058/1N914/276-1122/	5
	1 LM4250/	1
ARTICLES	1 EMI9661B/CA3140/H11D1/BC547/	6
HINTS AND	1 LM386/	1
	2 LM10CL/1N5305/LM336/Z47/	1
TECO	1 LM567/276-1721/	1
PAPERS	1 LM360/LH0063/74LS221/74LS02/74LS00/BFW11/2N3866/2N918/	9
	1 MM5369/4018/4016/	3
	1 LM3914/1N4001/	1
	1 LM396/U12-150.5/	2
	1 LM565/MPS918/MPF102/1458/1N84/LM340T12/LM7912CT/1N4735/	7
DEID	2 AMP05/2N4861A/2N3019/2N4033/2N2222/	5
	1 LM339/	1
PAPERS	3 LM4250/8703CJ/IM6654MJG/ICL7663CPA/ICL7664CPA/ICL7660CPA/	9
CICI	3 LM386/555/2N3906/2N3904/1N914/	8
DENO	1 AM9513A/555/SN7473/SN7402/8807/	6
	2 AM9513A/4046/74LS259/TL084/4066/2N3906/2N3904/74LS14/OPB709/	9
	3 LM3900/NE555/CD4020/CD4011/82S126/LM309K/MPS6516/2N2222/	5
TEST CASE	1 LM324/LM329/MPSA14/	5
	1 LM3911/74121/2N3643/74LS14/	5
DEID	1 LM361/74HCT08/	2
	1 LM386N1/	1
	1 LM360/LF357/4049/	3
QRP	2 LM380/1N914/	1
FEAR	1 LM324/LM335/	1
NUEL	1 LM358/AM685/10231/BC858C/BC848C/BF550/BFS20/	9
	2 LM556/LF356/LM12/BCY79/BY118/AAZ13/	4
HAHA	1 LM1881/MC14049/	2
QRP	1 LM386/	1
	1 LM741/LM0021C/	2
	1 LM311N/7438N/	2

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	2 MM57109/8255/ICL7104/ICL8068/DG390/TL081C/SN74LS155/TMS4039/	9
ROBOTICS	4 LM1812/NE567/555/74LS04/2N2907/2N3906/2N3053/	3
IDDE	1 LM393/LM317/	2
NOTES	1 LM723/SN74123/SN7474/2N3904/	6
	4 LM3911/T2302D/2N2905/	3
INNO	1 LM211/RS307-092/RS591-102/	3
SPCO	1 LM311/LM741/	2
APPLICATIO	1 LM311N/MFOD2404/	2
DEID	1 HM6264LP-15/2N2907/2N2222/1N4148/1N4001/	4
COLUMNS	1 LM3914N/MC33274/MPX2100DP/MC78L05ACP/MV57164/MV57124A/	5
	1 LM1458/1N459A/FPT100/	1
TENO	2 MM2764/NM4164/6164/193/GPD404/IE500/PAS3/	6
NOEX	1 LM324/74125/7408/7404/	5
	1 LM3914/7400/	2
COFE	5 LM2577/LM2575-5/LTC1074/LT1074/MBR745/MBR735/1N5819/	1
HAHA	1 LM324/KRX11/1N914/	2
	1 AM2806/74LS221/74LS164/DS0026/	4
	1 LM5000/276-1172/276-046/	1
BUILD THIS	1 LM1889/LM1800/74123/78L05/LM741/MPSA05/1N914/	6
CICICE	2 MM5312/MM5369/7492/7490/CD4049/7414/7406/1N4002/	5
PRSP	4 1N34/1N60/	0
ABBE	1 1N23/	0
	1 ZN414/LM386/40673/MPF102/276-2062/276-1731/	5
LEDO	3 2N2222/1N914/1458/	1
DAFI	7 2N3704/1N4001/2N3904/CD4001B/CD4001/	2
HOSC	1 2N3904/2N3906/1N914/	3
ENGINEER'S	1 2N706A/741/	4
	1 2N3439/	1
THINK TANK	3 VN10KM/2N2907/2N2222/1N4148/	2
CIRCUITS	1 2N2907/2N2222/1N914/	2
LETTERS	1 2N2222/1N914/	1
ASK R-E	1 1N4001/	0
CIRCUITS	1 1N34A/1N90/	0
TECHNICAL	1 1N4001/	0
ARTICLES	1 3N225/	1
CLARPHINAP	1 2N3553/BY127/	1
FEATURES	1 2N3906/1N914/	2
	2 2N3819/2N3866/2N3904/7812/7805/7905/276-2035/276-2038/	6
	1 2N3638/2N2222/ECG5400/	3
DEID	1 ZN435E/301-858/CD4040BC/CD4528BC/	4
AUDIO CORN	1 1N2A/	0
FIRST STEP	1 2N2222/	1
PROJECT WC	1 2N2222/2N3638/	2
	1 2N4416/2N2907/2N2222/1N4148/	4
IDDE	1 2N2646/	1
	1 2N2222/	2
CIRCUIT CE	4 SN76832AN/TIL413/TIL220/2N2222/1N4733/NE555/TIL39/CD4011/	4
	2 2N3964/1N5139/2N5245/2N2222/HEPF0021/	4
	1 1N914/	0

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HOSC	1 1N34/1N58/1N270/	0
	1 2N4126/2N4124/1N4001/	2
SCNO	1 2N3819/	1
	1 2N3707/	1
REISPA	2 2N4393/2N2222A/	1
APPARATUS	1 2N3904/	1
RFFETE	7 2N5179/MMT3960/2N4957/MRF904/IN5711/	2
PE TESTED	2 2N3904/72720/1N751A/1N753A/1N34/	3
PRODUCT TE	1 2N918/J310/UAA2004/MC145106P/BC237/78L08/MD108/MV104/1N4148/	8
	2 1N48/741/	1
	1 1N34/	0
HANO	1 2N2907A/2N3055/1N4003/1N4753A/	2
	1 6N138/DS1488/DS1489/7405/1N4148/	4
CIID	1 2N3704/1N914/	1
QRP	1 2N4036/2N3553/2N3866/2N2222/	3
ASK R-E	1 2N2222/	1
CIID	1 2N4222/1N914/	1
	1 1N34/	0
DEWO	1 2N3904/1N914/	2
COAR	1 PN2907/PN2222/	3
HIKI	1 2N4123/	1
FEATURES	1 2N3906/2N2222A/	2
	1 2N2369/	2
COLOR COMF	1 2N3904/	1
	1 2N3819/1N4001/	1
BUILD THIS	1 1N4003/	0
CIRCUIT ID	1 VN10KM/LM358N/2N3053/1N4148/1N4002/	3
	1 2N2222/	1
LEED	2 2N964/2N4080/40237/1N914/	4
	3 2N4931/2SC154/2SC685/	7
BUILD THIS	1 2N5064/TIC47/MCR104/	1
DECA	1 2N3819/2N5460/	2
	1 KN22B/2N3700/2N5551/	3
APPARATUS	1 2N2646/2N3897/24XL12/1N4742A/1N4148/	2
	1 2N2926/SN7404/SN7400/	4
HINTS AND	1 2N1613/276-053/2N2222/7404/	4
	1 IN148/3096/	1
CIRCUITS	1 2N3904/2N3906/	2
TIPS & TEC	1 2N4401/ECG6405/ST4/1N4004/	2
	4 2N3819/TL074CN/1N914/GEFET1/	2
TECH TIPS	1 2N3819/741/1N4148/	2
ASK R-E	1 1N34/	0
ASK BYTE	1 2N3904/	2
APID	1 2N3994/1N4148/	1
CODI	1 2N2222/	7
	1 2N4416A/MPS6534/MPS6521/BB3553/RC5534/	6
CIRCUITS	1 2N3055/	1
	3 2N2222A/1N914/	4
CIRCUITS	1 2N706/	2

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CIRCUITS	1 1N60/	0
CIRCUITS	2 2N3904/	1
DEID	1 2N2219/	1
	1 1N914/	0
	1 1N750A/276-1020/	1
ORRE	1 1N4148/	0
PROJECT	1 1N4001/1N4148/	0
	1 ZN1034E/556/BC107/1N4148/1N4001/	8
	1 2N2222/2N3904/	1
CIID	1 2N3055/BC182/	2
NOTES	1 2N709/CV2290/	2
ARTICLES	1 2N688/	1
LAEX	1 2N1132/	1
	1 VN66AFD/MTH40N06/	5
BUILD THIS	1 2N2222/	2
VIDEO	1 EN11436/2SD637/2SB641/2SB643/MA161/	4
BEGINNER'S	1 3N211/40673/MPF102/2N2222A/2N2222/	3
	1 1N34A/	0
	1 VN67AF/1N914/276-2071/276-1122/276-1101/	3
	1 1N4148/	0
	1 2N6521/2N3904/	2
	2 VN67AF/40673/2N4036/2N2222A/LM340T12/MPF102/	5
HINTS AND	1 2N3553/2N2222/	2
APTEPH	1 2N1849/1N4002/1N4004/	1
	2 1N60/	0
BUILD THIS	1 2N2222/1N914	1
CLLO	1 2N3906/2N3904/1N914/	4
FEATURES	1 1N4148/	0
	1 2N3819/1N4002/LM723CH/1N4001/	2
	1 2N4401/2N3904/1N34/	1
	7 SN76477N/2N3703/2N3704/2N2222/2N3703/555/	3
	1 2N5486/	1
	1 2N2222A/276-2009/	1
SPCO	1 2N5460/	2
APPLICATIO	1 2N2907/OP500SLA/	1
	2 2N5192/2N2222/BU208/4528/	8
CIRCUIT FR	7 2N2222A/1N914/2N3055/NE2/2N3819/BC108/	2
ELANRA	1 1N34/	0
HOMING IN	1 2N3819/1N34A/	1
APPLICATIO	1 2N2369A/2N1707/	2
	1 2N2222/1N4002/1N4001/	3
	3 2N5089/2N5087/LT1004/LTC1044/LT1013/LT1016/2N3866/2N2369/	4
DEID	1 2N3439/BF459/	2
	1 SN75450/SN7472/748/741/BC108/BD135/BD138/BU109/7815/7915/	9
	1 2N3055/	1
MAST	1 SN74S193/SN74S192/SN74H73/SN74S100/SN74121/	5
DEAP	1 1N5712/	0
	1 2N6388/1N4004/276-2068/	2
	1 1N914/	0

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	2 2N2222/TIL111/1N914/	2
	1 1N34/1N52/	0
	1 6N137/SD500KD/2N3135/2N2219/	8
ASK R-E	1 2N2906/2N2222/1N4742/1N470/	4
TECO	1 4N26/H11A2/7404/	2
ASK R-E	2 2N3904/2N2222/TIP31/1N4001/	2
HOME-BREW	2 1N4004/1N4002/	0
FEAR	1 1N34/	0
	1 1N4148/MC1741CP/	2
	3 2N1566A/2N2369A/2N706/2N2222/1N695/1N192/HEP55/HEP50/	5
	1 2N3906/2N706/	3
	1 2N2907A/ICL7650/1N914/	2
CIRCUITS	1 1N3712/	0
SOLD-STATE	3 VN67/7555/4011/	2
QRP	1 2N2222/1N34A/1N60/	1
	1 IN914/276-1123/	0
CIRCUITS	1 1N60/	0
PROJECT	1 1N4733A/1N4742A/1N4004/1N4001/	0
APDENO	1 2N3906/	2
FEATURES	1 1N34A/	0
DESIGN	1 2N6124/2N4398/MC7805/	2
	2 FOT114/FOR110/VFC32KP/3500/2N2222/	5
COMI	1 TOLD9220/TOLD9222/BC337/BC212/	3
	1 MOC3010/555/1N4001/	2
PROJECT	1 MOC3010/276-134/276-1000/	4
PRTE	1 WO4/	1
DEAP	1 COP822C/LM2901/	2
HINTS AND	2 MPF102/2N2222/IN914/	3
DEGU	4 OPA2111/OPA111/MPY634/	2
DEFE	1 OP27/MC1648P/MC145146P/MC12016P/2N2222A/MV2115A/	5
SEMICONDUCT	1 OPA128LM/LF355/	2
HINTS AND	1 MPF102/MK5086N1/	2
	1 OPA111/S1087-01/S2506/	1
	2 VP0300/VN0300/	1
CIID	1 OP27/BSS110/	4
IDDE	1 OP802W/2N3904/	2
DEWO	1 MPF102/2N4416/2N3904/2N2222/2N4400/1N914/	2
IDEAS FOR	1 MPSD01/TIP32C/1N5228/	2
	1 MP8037/1N4004/OP07C/	4
	2 SPO256AL2/276-1784/MPS2907/LM386/1N914/276-1731/7805/	4
DESIGN APP	1 OP77/REF01/1N4148/	2
	1 MPSU45/MC14001/MCR5050/MTP12N06/TIP100/2N6487/MJE200/MJE210/	9
DEID	1 MPU131/1N4002/	1
BUILD THIS	1 AP139F/2N2222/	2
LETTER BOX	1 SP0256/74LS241/74C138/	3
APPLICATIO	3 OPA627/1N4148/	1
DEEN	2 DP8570/74HCT520/NSC858/82C59/82C84/74ALS520/NSC800/80C88/	8
	1 MPF102/2N2222/1N270/MBD101/	4
	1 KP307/	2

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DESIGN SOL	1 TP3040/74HC00/74H00/	2
	1 MPS6560/MPS3904/MSD6100/	3
	2 SP9685/LFT356/LM399/2N3332/BFR99/BFR90/BB105/2N3797/2N2857/	9
INCI	1 OP27/CLC231/	2
APPLICATIO	3 OPA603/	1
	1 OP07/7592/7545/2732/4040/74LS74/8640BN/4011/	9
	1 MPX2010D/LM358/	2
POEL TESTS	3 UPD1986C/MSM4069/STR381/2SB562/1S2076/LD271/R02A/SG901/	3
FIRST STEP	1 MPF102/	2
PROJECT	1 MPSA13/MPSA42/MJE340/MTN10N10/MTMP810/	5
	1 MPSA42/ZTX300/1N4000/	3
	1 SP9685/MC1662/MC1660/MC10231/2N4261/	5
FEATURES	3 CP640/U431/2N5160/2N5109/BCY79/BCY59/HPA2800/1N4448/	9
DEID	1 TPIC6595/1N916/1N4001/	1
HAHA	1 OP27/	1
ELNO	1 OP07/	1
	1 OP07/RD7540/	2
APPLICATIO	1 UPD77P56/LM386/	2
FEATURES	1 MPF102/2N3904/	2
ARTICLES	1 OPA104/324/2N3821/	4
FEAR	2 IRF430/566/3140/LM311/1N1202/1N914/	8
	1 MRF472/2N3866/2N2222A/HEPS3044/	5
	2 XR2211/2N3904/XR2206/	2
RTTY LOOP	1 XR2211/	1
IDDE	1 IRF730/2N2222/1N4007/	2
FEATURES	3 IRF511/2N2222A/1N34A/1N914/	2
UPDATES	1 IRFP140/4047/4049/	4
	2 IRF511/J202/LM381/	6
REPA	2 XR215/4013A/7400/4007A/2N2369/741/	3
RTTY LOOP	1 XR2206/	1
ARTICLES	2 XR2340CN/555/74121/741/E176/2N2222/44004/	6
PRODUCT TE	1 MRF966/MC78L05/1N4148/	2
	3 XR-L555/CD4017/CD4066/CD4013/CD4070/CD4050/2N3904/XC526R/	9
FEAR	6 XR2443/55256/27256/XL9346/XR2402A/XR2401/XR2321/74HC374/	5
ROBOTICS	1 IRFD123/	2
DEID	1 IRF730/CYN51/IN5240B/IN4936/	2
	3 XR2240/CD4538/LM556/CD4071/OR504/LM386/2N3904/	7
	2 XR2211/LM567/LM324/7402/2N2222A/	4
	4 XR2206/XR2211/1458/LM348/MC3403/LM317MP/4011/2N3904/1N4148/	4
APPLICATIO	1 XR2103/CD4066/MC1488/MC1489/2716/74HC74/2N2222/	7
	1 XR2206/LM386/PN2222/	3
INNUSP	2 XR2240/14528/157/75189/32/27/14/10/06/02/00/	9
	2 XR2240CP/276-1059/1N4001/1N3016B/	4
DESIGNER'S	4 XR2240/	2
RFDENO	2 SRA1H/1N4001/	1
2 PARTS	2 XR4739/	1
	3 IRF523/IRF510/MPF102/2N3904/2N3053/2N3906/2N2907A/1N964/	5
	4 MRF8004/MRF472/SN7438/MC1458/48J/2N3686/2N2222/2N3866/	7
IDDE	1 IRFZ30/556/2N2222/1N5419/	3

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	1 MRD500/LM311/2N3904/276-2016/	4
SHPA	1 HSCS5510/	1
HANO	2 BSX20/2N2369/OA90/1N34A/1N4148/	2
	1 RS8038/TL081/DG200/BU105/BC182L/	9
	1 LS138/LS151/7407/LS00/	5
TECH NOTE	1 LS161/LS85/	4
	1 SSM2038/741/	2
SHCO	1 RS590/	0
DEID	1 LS74A/	1
	1 SSI202/276-1303/4514B/2N3904/1N4001/ERZC14DK201U/276-570/	3
CICICE	6 MSD3201/MK5102N5/3045/3044/MC1458/LM741/LM567/74LS02/1N914/	9
SYSTEMS AR	3 LS161/PAL16L8/LS04/74S373/PAL16R6A/PAL16R4A/	3
PLCH	2 BSXP60/2N2222/BAUP18/UL1111/CA3046/	3
DESIGNER'S	2 NS74151/SN7493/SN7490/555/7400/741/74164/7448/	9
	1 2SC1775/2SA872/1S1587/5BT3/	2
	4 2SC1675/2SK61/1N5148/1SV50/UPC577H/NIS103/NIS105/2SC1674/	9
FEATURES	4 SSI201/4515/4076/MC14053/M4053/4042/4002/BA516/TC9122/7809/	9
FEATURES	2 BS170/MPF102/MV2109/1N34A/	3
NOTES	1 2SC1173/	1
	1 MSA0204/MSA0304/	2
	5 BSX29/74LS04/BSX28/	4
COLUMNS	2 ISD1016P/	1
HOMING IN	1 SSI202/TS32P/CD4025/2N2484/2N2219/LM309/7805/1N4001/	6
DESIGN	1 2SK133/2SJ48/2SA872/2SD755/2SB715/1S2076/	7
MICRO DATA	3 NSA5140/MAN71/DS8857/7447/7475/7402/7442/	6
CIRCUITS	2 2SC710/2N2222/	4
FRENEL	1 2SC3356/	1
	1 AT8061/	1
DEGU	5 LT1070/LT1017/LT1086/LT1072/LT1022/LT1010/IRF9531/74C04/	7
TRSONE	2 CTX128/X131/	1
RFDE	3 LT1028/DG508/OP177/74F74/4029/555/OP27/74F04/78L05/U430/	9
	1 NTE51/7407/555/74HC04/74HC74/74HC192/	9
	1 VT200/LM338/2N3899/UZ712/1N4005/	3
DEFE	4 LT1006/LT311/IRF540/M1P7P05/2N6667/2N6387/74C04/MR850/	3
DESIGN ENT	2 WTL1032/WTL1033/WTL1066/2901/	4
IDDE	1 LT1123/MJE1123/2N4276/	2
	6 LT3525/LT1002/LT1001/LT1012/LT1011/LT1037/LM301A/LM107/	5
CIID	1 DTS423/1N960/	1
DEID	1 MTP12N10/MPF910/1N3044B/	2
	1 BTW58-1000/	1
	1 MTM12N10/MR876/	1
	2 LTC1052/	1
COAIDE	4 ZTX239/BF240/	3
	1 ZTX300/	5
IDEAS FOR	1 MTP20N10/MTP8P10/MTP10N10/MPSA56/MC14001/2N3763/2N3906/	9
	1 ZTX109/BC109/ZTX502/BC327/1N4001/2N930/2N5819/	2
	1 MT8865/MT8860/74154/7404/	6
SUPA	2 HTVR623/LF356/LM311/UF4FH/CD505R2/	6
FEATURES	2 MT8870/MC14514/MC14081/MC14073/MC14049/MC14017/7805/VN10KM/	7

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APID	1 BUZ/BC107/	2
	2 LVC517/LM358N/2SC1173/CP1.4-71-10/ICL8069D/	2
PROJECT	3 MV8870-1/74LS244/4098/4063/74LS93/74LS74/74LS47/74LS14/2114/	9
RFDEFE	2 MWA120/HP2800/MAR1/	1
	2 MWA120/NE564/NE592/7808/7815/2N2222/MDB101/MBD101/2N706/	7
EXWO	2 TX1824N/78L05/7805/MPF102/	2
DEID	1 IXSE502/AD557/74HC4538/LT1097/74HC14/DPMBL100/LM385Z1.2/	5
DEIN	1 IXID7100/IXID7200/	2
HARATE	4 UX210A/210/201A/852/89/802/	6
SHCO	1 PX164005BD5V/PX164010D5V/LM324/LM741/LM317/	9
WOID	3 UX201A/117N7GT/2N371/2N370/	2
DEENMIBA	1 8X300/82S215/2N5320/8T32/8X350/	6
CIID	1 BY164/BYV19/	0
CODI	2 AY3-8910A/8255A5/74LS138/74LS30N/LM386/74LS10P/2N3904/	6
HOME-BREW	4 AY5-1013A/ADC0804/74HC161/74HC86/7414/74HC04/74HC00/6N138/	6
CICICE	3 AY3-1014A/CD4051/NE555/NE567/LM386/XR2211/LM1458/LM741/	5
	1 AY3-8910A/LM386/4069/4013/	4
NOTES	1 HY2002/	1
SUPA	1 HY6/7782/DSA1.2-16A/	1
RATECO	1 S042P/BF982/	2
FOREGROUN	1 8088/8755A2/8355/8284/8185-2/8155/	5
DESIGN ENT	1 8086/8088/87216/8284/	3
FEAR	4 8031/2764/CS212/MAX232/74LS373/LM311/40107/LM2577-15.0/	5
	2 10G040A/10G004/10G021A/VA707/	4
	1 8080A/8228/8024/8205/2708/8251/8255/2111/	7
DEID	1 L084/	2
DESIGNER'S	1 8038/741/1N753A/	3
	1 4060/4046/74C90/4522/	5
	1 308A/741A/BC109/BYZ88(5.6V)/	3
FIFU	2 8032/8031/2764/6264/74LS373/BS170/2N2907A/	9
HAHA	1 4049/	1
ARTICLES	2 40174/40106/4538/4017/4001/LM78T12/BC337/1N4148/	9
PROJECT	1 4049/4017/4050/	3
ARTICLES	1 50K/	1
CCT CELLAR	2 8052AH-BASIC/74LS245/8255/7404/74LS373/74LS138/2764/27128/	9
FOR THE AM	1 801-2001-01-00-00/TIL906-1/1N4733/TIL414/MJE34/741/7805/	6
	2 8051/7220/7230/7110/7254/7250/7242/DS1489/DS1488/VN10KM/	8
	1 8085/8755/8212/8155/74LS74/74LS04/74LS00/	9
	1 8085/AM9512/74LS138/	3
	2 8035-6/2716/74LS373/4N33/2N2222A/LM341P5/U LN2003A/1N4148/	6
NUEL	1 100150/100102/	2
CIID	1 4078/40106/ZTX500/	2
	1 10192/LH0033CG/1S97/LM317T/LM337T/	4
COMI	3 80C31BH1/2764/74HCT573/HYB511000/74HCT138/74HCT74/HD1105G/	9
	1 8023/	1
WEEKENDER	1 40673/MPF102/	3
PROJECT	1 4093/C106D/272-1145/TIP122/1N4007/	5
COSC	4 4027/4011/555/	1
CIID	2 4040/4028/4011/2N3705/	3

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CIID	1 8038/LM319/2N5458/	3
	1 80C31/HC595/HC373/16V8/MAX232/AC245/ACT244/	5
	1 301/	1
SOLID STAT	8 8038/LH0094/555/2N2222/1N4001/	2
FEATURES	1 4093/2N3904/	3
CICI	5 4017/4093B/2N3906/2N3904/2N2222/1N914/	5
ELCOCI	1 8085A/8253/8251/8155/2732/	7
INNUSP	1 10016/10231/1664/	7
APPLICATIO	2 8052BASIC/80C52BASIC/6264/62256/74HCT373/74HCT138/MAX232/	5
CIRCUIT CI	3 4001A/4049/2N2222/1N914/	3
ELSC	3 4011/555/2N2222/741/	3
PROJECT	1 4060/4011/1N4148/	2
	3 8080/8228/8224/74LS373/74LS245/74LS240/74LS139/NE562/	5
TENO	1 4013/4098/1N3062/	2
IDDE	1 8005/8020/4464-150/2804A/	5
	1 80186/82586/8288/82501/	3
DESIGN	4 8086/8086-2/8282/8287/8288/8283/8205/8284/	5
	1 8080A-1/8251/8228/8224/8212/8102A4/2708/	9
CIID	1 4077/78L05/BC337/	3
	3 7199/EL34/GZ34/12AU7/	4
COAR	1 T106D1/NE2/	1
SCARSPCOIN	1 3140E/LF351/TL071/2N6059/2N6052/2N2907A/2N2222A/IN5252/	9
CITEAN	2 311/741/555/	2
	4 11C90/J308/MV109/CD4040/4046/74LS168/74LS260/CA3140/7474/	9
APPLICATIO	3 4151/4152/RC4131/1N914/	2
	2 R1250/MMH00026/HCPL2200/4528B/IRF840/	5
APPLIED ID	1 3140/	1
APTE	1 710OPA/SN7400/2N3819/BFY52/	5
INSTRUMENT	1 H11F1H/	1
	2 N1599/1N540/GP12B/	1
	1 311/3527/7474/74121/	5
TECH-TIPS	1 3140/	4
	1 813/NE51/1N4001/	2
	1 12AU7/	1
APPLICATIO	2 M2DRHL-SP/LM358/	2
	1 220001/4001/	2
	1 8253-5/'123/'51/'74/LS19/LS'10/'04/LS00/	9
	1 8279/8255/8155/DAC1408/	3
	1 8255/ADC80/4020/74121/	3
CIID	1 8202/8203/74LS157/LS32/LS04/LS00/68000/	6
	1 L298/L297/ICM7217A/NSB7881/NSN781/CD4538B/CD4510B/74C00/	9
	1 7205/	1
STRE	1 324/KPY10/	2
COAR	1 12SA7GT/1N4007/	1
APPLIED ID	1 723/1N4148/VA3410/	1
	1 8255/8253-5/AD532/AD579/8259/	3
PROJECT 80	2 8255A/82C55A/82C53/82C54/74LS153/74LS47/74LS193/74LS138/	7
	1 529/733/R647-04/7474/74123/741/TLR102/40H000/	8
	1 8251/SN75189/MC1489/SN75188/MC1488/	3

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IBPC	3 8255/74LS682/74LS245/6821B/NSC810A/HCT245/16R6/16R4/HCT238/ 2 H21A1/7805/2N3904/2N2222/	7 2
DEAP	3 82786/74ALS245/74ALS374/20L8/74AS74/74F86/74F125/74LS244/	9
POMA	1 3240/ICM8069/	1
DETECTORS	1 R329/7400/TIL114/2SC780/2SA495/RD29/RD6A/	6
REISPA	1 1350/741/2N4126/1N4152/1N914/	5
SPSP	1 733/986/72510/AM303/LF356/DG201/50J/ 2 9316/74128/MH0026/7474/LH0032/U401/1N5312/ 1 4341/1458/356/	9 8 4
APTE	2 531/741/	4
SIDACO	1 4302/	1
DEID	1 74LS374/2N3906/	2
EDFO	1 74LS14/	1
THINK TANK	8 7476/7404/2N3607/2N3055/2N2222/2N508/2N188A/2N170/TIL414/ 1 74HC943/7805/TIL113/4N33/2N2222/ 1 74LS374/74121/74LS125/74LS32/7805/	5 5 5
FEAR	2 74ALS573/74LS541/74ALS540/UAA180/74LS157/MOC3010/74LS04/ 2 74HC14/1N4148/ 1 74HC161/4013/4030/4049/ 1 7417/ 1 741/	9 1 4 1 6
RFSPEDQUTE	2 7400/BC108/1N916/	3
ARTICLES	2 1458/7912/7812/BC337/1N4148/40800/ 1 74121/7476/7403/4N26/2N2222/	3 8
SYNO	1 7400/ 3 741/CD4043/74C08/CD4001/CD4050/CD4049/	1 7
BUILD THIS	5 74LS221/MC4044/4066/TMS9128/4416/CA3126/LM1889/SN75108/1N914 1 741/2N4923/BD131/	8 2
AIANCH	1 741/FPT100/	1
IDEAS FOR	1 F40098/80C98/ 5 741/356/4016/311/796/083/H0002/BFY81/ 1 741/6BK4A/	1 9 4
BUILD THIS	2 7400/7486/7476/7413/RS306-061/RS307-092/2N3055/ 1 74LS377/74LS541/74LS138/4024/UCN2005/UCN4205B2/U LN2003/7805/ 1 74LS193/74LS138/74LS123/74LS12/TIP121/BC182/BZX61/ 3 74LS08/74LS74/74LS153/74LS32/74LS160/74LS04/74LS157/74LS00/	9 7 6
NOTES	1 A495/2SH20/1S1887/1S1585/ 1 74S283/74S175/HM6147P3/	3 4
PROJECT	6 74F157/825212/TDC1016J/74LS645/74LS164/74LS374/ZN423/OP07/ 2 74121/BC237/AC187/ 1 74LS373/74LS169A/74LS08/ 1 741/	9 6 3 1
NOEX	1 74155/HOA1397/	4
TEME	5 74HC4316/74HC4053/74HC164/NE5532/CA3280/AD712/AD711/OP260/ 2 7472/2N3704/1N4001/74121/LM309H/ 9 74HC00/74HC02/74HC74/7555/74HC4511/1N914/7805/1N4001/	9 4 4
ARTICLES	1 74121/7490/7420/7408/7402/7400/4049/	9
COAR	1 74HC595/74HC190/LM7555/2N4403/1N914/	5
DENO	1 741/	1

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DESIGN SOL	1 74LS283/74174/HMI7641/	7
	1 74123/7473/7437/	4
	1 741/2N1893/1N4001/	2
SHPA	2 741/BC107/	4
GACHBADE	1 74154/74221/LS123/7438/7430/74S04/7404/7402/7401/	9
BACKGROUN	1 741/7493/7486/	4
CCT IDEAS	1 74HC132/1N4148/	1
	1 7473/7420/7400/	5
	1 74LS374/BC108/	3
	1 7406/	1
	1 741/CQYP40/	2
	2 74S74/74LS123/8254-2/74LS138/74LS27/74LS240/74LS279/74LS08/	9
	2 74LS273/74LS244/74LS154/74LS00/	6
SUPA	7 74123/74121/74100/7476/7474/7576/555CN/7407/7406/7404/LM340/	9
	1 741/1N4148/	1
SHCO	1 741/7915/7815/SE9401/SE9301/2N3053/1N914/1SB10/	8
FATE	1 7432/2N2222/	2
SCNO	1 741/	2
DECA	1 741/H11F2/1N2070/	2
NEW IDEAS	1 741/1N4001/	1
DESIGNER'S	1 74163/7442/7400/	3
HINTS & KI	2 741CN/TL081/	1
ENGINEER'S	1 74LS190/74LS162/74S20/74S04/74S74/74S86/74S02/74S08/	9
TECHNICAL	1 74LS164/74LS04/74LS86/	6
	1 74LS90/74LS13/74LS47/FND507/74LS11/1N4001/	8
DESIGNER'S	1 741/	1
	1 74LS75/74185/74LS47/276-053/	9
TENO	1 741/	6
	3 74LS123/74LS374/74LS645/74LS155/74LS174/74LS645/74LS193/	8
DEID	1 74LS139/74LS86/74LS00/	3
	1 741/XR2208/	5
	1 74121/74C00/	2
	1 747/2N3054/	2
APID	1 74F74/74F86/7404/	2
CIID	1 741/TIP662/BF299/1N914/	5
INSTRUMENT	1 74121/7473/7400/	3
TRPA	1 741/2N3055/BPY50/BPX25/1N4003/	4
SHPA	1 741/	1
DECA	1 74C00/	1
BUILD THIS	2 74LS393/74LS164/74LS163/74HC158/74LS74/74HC14/74HC04/MPS6515	9
COMI	1 74HCT574/74HCT123/74HCT32/7805/	5
TRSONE	2 741/LM741CN/276-007/CTX128/78L08/AN78L08/2N2222A/PN2222A/	4
DESIGNER'S	1 74188/N8223/MAN72/	3
	2 74221/7432/7400/7404/7474/7402/74374/74373/74197/93L422/	9
	1 74121/1850/18LS02/	4
	2 74LS123/74LS147/74LS373/74LS85/74LS138/74LS175/74LS240/	9
	1 741/	8
APID	1 74LS00/74LS08/74LS74/74LS04/	4
	1 74LS164/74LS373/74LS86/7404/74LS136/74LS20/74LS74/	9

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	1 741/1N4148/	1
THINK TANK	5 74164/4093/7474/4026/7404/7400/7812/SDP8403-301/1N4001/1N914	4
	1 74LS175/74LS00/74LS08/02/32/	5
DESIGNER'S	1 741/1N914/	5
	1 741/	3
CODI	1 7414/	0
TENO	1 741/FCD820/1N963A/1N753A/1N4148A/V33ZA5/	2
	1 74221/74161/74121/7493/7442/	5
REPA	1 741/	8
	1 74221/	2
COMPUTERS	1 74LS32/74LS04/74LS138/MSM5832/74LS245/74LS373/74LS74/74LS75/	9
ENGINEER'S	1 741/CA3140/1N34/	3
APPARATUS	1 741/2N3055/	2
	1 74123/7402/XR2250/7432/74128/MC14049/	6
	3 74LS240/74LS193/74LS157/74LS273/74LS393/74LS175/74390/	5
NOTES	1 74C221/LM324/74C86/	4
PAPERS	2 741/	9
	1 741/	2
HI-FI STER	1 741/	1
CICICE	1 74C00/2N2222/	8
	1 74123/7400/7406/	2
PROJECT	2 555/ZTX453/2N2219/	2
DESIGNER'S	1 555/2N3055/2N2222/1N34/	3
FACTCARD	4 556/555/2N3906/1N914/	2
CIID	1 5534/072/	2
DEID	2 555/7555/2N5064/MOC3010/	2
	1 555/2N2222/	2
	4 555/74193/74121/7486/7474/7407/7400/2N222/2N3706/	9
	1 4528/4066/4040/4049/	3
LAEX	1 555/ICM7555/	1
APID	1 4520/4011/4012/4070/	4
	2 4538/4516/4508/4040/4027/	5
	1 555/LM339/276-1123/	2
BUILD THIS	1 65SC02/S26C41/V62C64/74HC541/74HC393/74HC245/74HC244/S18C62/	9
ARTICLES	2 555/ECG2V115/	1
COAR	1 4518B/4093B/4081B/4013B/LM309K/1N4148/1N4003/	8
BUILD THIS	2 5558/LM1458/1N4148/	1
FEATURES	1 555/276-1723/LM324/276-1711/7905/276-1660/1N914/1N4148/	3
DESIGNER'S	1 555/2N4400/2N4402/	4
	1 9595/74S197/74193/	5
	1 4522/	1
	1 4538/4093/4023/	3
CIID	1 5534/5532/	5
PROJECT	1 555/2N3904/2N3905/1N4148/	6
APPLIED ID	1 558/TL071/	2
CCT IDEAS	2 4522/4046/4040/4060/1596/4011/	6
	1 556/4520/4042/	3
HOBBY SCEN	1 555/HEPR1301/HEPZ0211/	3
DESIGNER'S	2 555/MJ1000/1N4002/	6

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	2 555/	1
	1 555/74193/7485/	3
	2 556/741/2N2218/	6
CICI	3 555/567/2N2222/2N3904/2N2906/2N5060/MOC3010/2N2904/1N4002/	4
BUILD THIS	2 555/40841/40673/7805/2N2222/1N4001/	4
IDDE	1 4531/4098/	2
IDDE	1 4584/1N914/	1
DESIGNER'S	1 555/741/AD821/2N3707/2N2907/	5
PROJECT	4 4512/40163/4011/4013/MOC3010/4050/74LS195/74LS47/TIC206/	9
	1 7555/4020/4093/	3
DEID	1 556/	1
THINK TANK	3 558/555/LM339/2N2222/1N914/	2
ENGINEER'S	1 555/	1
ELSC	3 555/4066/4011/2N2222/LM3905/1N914/	6
NEW IDEAS	1 555/2N6384/	2
SUMOTE	1 555/	1
	1 555/	1
TECHNOLOG`	2 555/2N2222/	1
	1 555/SN7474/7408/D2410/MDA962-3/	6
GEIN	2 4538/BC547B/1N4148/1N4001/	3
DEID	2 555/2N6714/2N3904/1N5233B/1N4448/1N5245B/1N5819/	3
EXPERIMENT	2 567/555/1N4001/SSL55C/TIL31/FPT100/	5
	1 565/4500/	0
TENO	1 3670/3572/741/	5
CICI	2 567/7808/IRF511/1N4004/	3
	4 567/566/555/LM380/741C/4001/7905/340K/7805/309K/HEP156/1N914	4
	1 9601/7470/7432/74H11/7400/	7
	2 1733CG/7404N/2N3904/79M05/78L05/	5
	1 8748/74HCT245/74HCT164/	4
APPLICATIO	1 8751/	1
BENCH	1 8751/LM555/MAX233/GP1U5/BS170/PN2222/TIL39/	6
	1 777DM/MPS3638/2N3716/MPS3704/PE8050/PE8580/1N5282/1N751A/	6
INME	2 2716/AD537/4060/4040/4050/4020/74C86/74C30/74C08/LM340-5/	9
PHIN	1 3703/SST309/SST213/MMBTH81/	4
	1 1702/	1
	1 276-035/PTC205/276-1714/	1
	1 8748/TMS9901/TMS9900/	4
	1 8748/LM339/NS75452/MOC3011/	7
LAEX	1 276-1146/	1
	1 272-1145/VS447/276-1020/	2
FEATURES	1 272-7052/	0
COMI	2 87C51/7406/LM317L/78L05/1N5338B/1N4148/	4
NUEL	1 D779/	1
DAACSY	2 D779/2N2222/2N918/	3
STLI	9 Z80/2716/6116/LS367/LS93/LS92/LS138/ZN427/6402/4514/TIP3055/	9
FEAR	2 68HC711E9FS/MC68HC11/LM393/4051/74LS393/74LS145/MAX232/	9
NEW IDEAS	1 78L05/MC14541/74LS38/	3
	1 7805/7400/74121/2N3055/EC103/DR150/NE555/SL100/	8
APID	1 084/X9503/	3

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	1 7805/	1
	2 Z80/74LS151/4164/74LS374/74LS138/74LS367A/MC4024/2716/	9
APSU	1 3805A/CS3805/CNY17-3/VN1306N3/VPO104N3/IRFP250/7812/TIP29C/	7
APPLIED ID	1 78MGU/GM472W/	1
DEAP	2 8832/8837/8836/8818/8838/	4
GEIN	2 6802/27C64/74HC374/74HC20/HP5082-7613/7805/BC557B/BC547B/	7
COMI	2 Z80CPU/2764/27128/74HCT574/74HCT245/74HCT139/74HCT04/7805/	2
	1 7805/LM309K/	1
	1 6805E2/74HC139/444/27C64/MC146918/ADC0804/74HC/	8
PRCO	2 68000/68010/8530/8536/58274/	4
	1 P8748/ICL7109/P8251A/DM74LS151/DM74LS93/CD4017/LM324/LM329CZ	7
EDTR	1 6821P/6802P/LM324/TL507C/UJLN2003N/7442/7400/2716/2732/LM340/	9
IDDE	2 X9503P/	2
REVIEW	1 M927/CD4515/CD4511/741/74C14/CD4049/1N914/	8
CQ REVIEWS	1 7910/6164/2764/	4
	1 2920/	1
	5 UA2240/UA555/	2
TECHNOLOG`	1 MAX232/	1
	1 TAA2761/BZX7.5/1N4148/1N4003/	2
BUILD THIS	2 CA3179/ICM7216DIP1/74LS74/DL4770/78M05/PN3638A/PN5139/	7
	1 HA5033/LM733C/MVL407/1N4148/2249A/4448/	4
	1 UA741/UA709/MC14066/	4
FUSION	1 UA741/UA710/ROL31/1N914/	2
BUILD THIS	1 MAR1/SBL1X/LM7812/25137/MPS3866/2N3563/MV2107/HP5082-2800/	6
	1 EA9002/EA4700/8212/	4
	6 DAC377-18/AD524/LH0042/LH0052/BB3680J/LF356/LM143/LH0002/	8
	5 CA3160/CD4046/RDD104/J308/MC1590/LM380/SL6440/MV209/MBD101/	9
	4 MAX666/4013/LM324/555/2N4401/78L05/1N5819/1N4007/	4
NUEL	6 DAC888FX/UA733CN/LM725CN/LF356N/UA311TC/74LS244/74LS174/	7
APSU	2 CA3164A/	1
DEID	1 CA3420/	1
COPA	1 CA3140/OP490/TPQ6502/BAT85/BZX79C7V5/1N914/	3
	1 TA7205P/	1
PAPERS	2 UA741C/7414/1N4148/	2
APPARATUS	1 UA733/NE529/DAC312/74193/74/2SC458/	9
	2 DAC-UP0BC/555/7805/122-105/	3
	1 PAL16L8/74S260/74S74/74S00/	9
	2 SAD512/LF347N/TL084CN/SAD1024A/SAD1025/CD4049/2N2222/MV5053/	4
	1 HA5130/436B/	9
	3 HA2625/LF357/XR205/LM393A/2N2222A/NE527A/74LS86/LM310/ME60/	3
	2 UA4136/2N5458/1N914/1N4002/	3
BUILD THIS	2 CA3126E/CD4040BE/NE564N/CD2240/LM733CN/CD4053/74C00N/LM7905/	9
	4 DAC1208/DAC0830/LF412/LM399A/LM363-100/LF351/LM311/DAC1000/	5
CIDE	5 CA3080/NE570/TL084/TL082/TL081/4066/2N3819/BF256C/BC108/	3
	3 DAC0801/TL701/CA3080/SFC2458/741/TL062/TL081/WL35/74LS154/	9
TRBR	1 CA3140/	1
ENNO	1 UA723PC/BH705/FA22E/TIP32/1N4002/	3
	1 CA3028/	1
	3 UA741C/LM111/	1

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APTEPH	1 UA741/	2
DEID	3 HA5114/HA2539/	1
	2 UA741C/LM556/2N222A/CD4071/BFJ64/BA513/	6
STSOST	1 CA3218E/	1
TENO	1 UA741/MC1648/BB709/BFY90/BF494/MYK7/BF256C/	9
	1 UAA2000/MC68705/BC239/BF245B/BC307/ELC1043/	9
	2 CA3146/TLC27L2/TLC27M2/LTC27L4/TLC27M4/2N2222/LM334/LM336/	7
APTE	1 UA741C/CD4017/CD4518/CD4013/CD4073/CD4047/UA78L15AWC/OA202/	7
	2 CA3140/755P/1N914/	4
PAPERS	2 UA733/CV2492/	1
	1 CA3085/HEP175/DA1703/	2
TEME	1 CA3080/	1
CITHDE	1 PA630/	1
	1 UA2240/BC252C/1N914/	2
	1 CA3080E/MC10231/MC10114/CA3127E/2N4416/2N3906/2N3904/	9
RF DESIGN	2 DAC0800/DAC88/LM747/74LS241/H-P5082-3080/	5
	4 SAA1058/LN1031/MC10231/SL1640/SL1621/SL1612/SL1610/TL081/	9
FEATURES	1 CA3059/LM358/555/276-1723/MOC3010/276-134/Q4008L4/276-110/	5
	2 GAT6/	1
TECO	1 MAR3/MSA0304/MSA0385/	1
	1 CA3130/NE555/14066/14528B/14070/14011/14001/14522/	9
	1 GAT1-010/GAV80/GAV20/	1
APID	1 OA7H/	0
APPLICATIO	1 MAX281/	1
ENGINEER'S	1 CA3130/	2
REPA	2 DAC1208/2764/356/311/308/14046/14050/	4
TENO	2 UA711C/UA741/7472N/	6
	1 UA742/555/741/7400/L1461/SC260/	5
PROJECT	1 CA3046/	2
DESIGN ENT	5 MAX612/1N4001/MC14504/MAX611/MAX610/	2
APPLICATIO	1 CA3022/CMP01/1N4148/2N5179/	3
DEID	1 MB8441/80486/68000/74LS139/LS04/	8
	1 SBR1/	1
CORRESPON	1 TBP38S22-18/SN74ALS191/74ALS08/74LS122/	3
COAR	1 TBA820M/	1
DESIGNER'S	1 BB4213AM/BB3500/	2
IDEAS FOR	1 TBP18S030/27256/27128/2764/	4
	1 BB105/	0
ARTICLES	2 2B31J/OP27/TIP31C/MJE3055/2N3642/1N914/F3102/	6
	1 MC14528/	1
CIRCUITS	2 MC1330/MC1458/MC1358/NE565/LM386/2N3563/MPN3404/1N4002/	6
	3 AC128/VA8650/	2
SOSTDE	1 MC13024/TA7376P/	2
APPLICATIO	4 ICL8038/TL072/74HC04/74HC14/7912/7812/7805/TIP32/TIP31/	4
	4 MC68705P3/LM324/74HC14/78M05/7805/MJE802/LM350/MJE702/TIP126	5
	1 MC1456/776/2N5555/102455/	5
LEED	1 RCA8854/BAY74/	1
INPOCOSYDE	1 MC68020/TMS320C25/MC68000/	3
	1 MC4024P/7475/74161A/74151/7414/7404/	9

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DEID	1 FCT161A/IDT7174/7174S35/FCT240A/49C602/FCT139A/49C601/	7
DESIGN	4 BC177/BC109/BC107/	3
	3 MC14536B/555/2N3904/1N914/1N4001/	3
	2 ICL7106CPL/CD4030/1N34A/	2
DEAP	5 MC34118/MC34119/MC33171/MC14023/MC145412/MC34017/IN4730/	2
APNO	1 ICM7045IPI/74147/7414/4050/7406/	6
DECA	2 ICM7217A/ICM7207/MC14527/MC14027/MC14017/4011/K1116A/	9
APPLICATIO	4 MC68HC705B5FN/LM358/LM324/MC1455/MPX2200GP/MPX2050GP/MPX51	4
	1 MC14584BAL/TIP31A/1N4007/NE2/	2
	1 MC14053/	1
	2 RC4739/XR4739/5100H1/MV5491/LM340T15/LM320T15/79L15/7915/	4
DEAP	3 TCM2203/TCM2222/74HC04/	3
IDDE	1 MC33033/MPM3002/	2
CICICE	2 MC14543/CD4047/DF411/	2
39	2 UC3823/UC3901/311/74LS74/74LS08/74LS02/IRFD9110/IRFD110/	7
PROGRAMMA	4 UCN5810A/UCN5821A/UCN5895A/LM339/DAC08/TL497A/IRFD9123/	9
	1 BC147/SL100/SK100/OH1/	4
	1 MC14490FP/MC681/312-313/601-1401/PSF106/	4
	1 TCM4204/	1
MENUSP	5 MC1035/MC1020/1N4148/	2
COAR	1 TCM1506/	1
APID	1 BC182/IN914/	3
BRCO	1 ICL7106/	1
COSEBIPI	2 MC14553/7448/7447/2N3638/FND510/	8
ASK R-E	1 ECG5400/2N3638/2N2222/	3
	1 UC1825/	0
BUILD THIS	1 ECG123AP/LM324/4046/4016/4013/1N4148/	7
	1 MC10198/MC10138/9602/MC10124/MC10125/MC10104/2N5189/2N3644/	9
DESIGNER'S	1 MC14572/MPSU45/1N5352/1N4002/1N914/	3
BUILD THIS	1 MC1648P/2N2219/MV1404/CA3130AE/CD4060/CD4059/CD4013/1N5229/	9
ONE NIGHT'	1 BC109/BC239/	3
APPLIED ID	2 MC14557B/MC6821/MC14598B/MC4011/	3
CQ REVIEWS	1 TC5061AP/TC5082P/MC3359P/NJM4558M/TC8122P/2SC2053/2SC2342/	4
	2 MCM68A364/8255/74LS240/74LS00/1N4001/	5
SOSTDE	3 MC34012/LM393A/2N3904/1N914/	3
ORWO	1 ICL8038/LM311/LM317/TIP120/1N914/	4
VAREPRRE	1 MC1458/	1
CIID	1 HC4046/BC548/	2
CIID	1 MC14541B/BC173/1N4006/	3
TENO	5 PCM54JP/40193B/7240/4027B/OP07/071/LM317T/TIP121/BC183L/	7
ORAR	1 MC14538/4N33/LM311/2N4400/	4
LAEX	1 ECG163A/ECG125/	1
	1 ICM7226B/MC14538/TL064/LM358/	4
CIID	1 OC72/	1
	1 AC127/D2E/	1
	3 MC68705P3/ZTX300/4001/TIP121/2N2270/1N4148/RS261-328/	5
DESIGN	1 BC550B/	1
PAPERS	1 ICM7555/BC557/BC547/MJE340/BAW62/	6
TEME	1 BC547/	1

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CIRCUIT ID	1 BC182/BC212/1N914/	3
	2 MC6821/Z80/MC6868/8253/LS123/MC6850/NE555/	6
ARIS	2 IC723/7490/7473/7402/TIS58/	4
	3 ICM2742/74191/74LS114/74175/74LS21/4075/4071/4049/4001/BC214	9
THINK TANK	6 ICL8038/LF351/LM747/LM380/LM386/4027/555/MCT2/7912/7812/	6
	2 ICL8038/LM741/1N914/	2
DEID	1 AD548/	1
ENGINEER'S	1 MDA10Z110/741/2N4351/723/	4
	3 AD7528/AD7111/AD644/JA311/	4
FRENEL	2 AD741/MMT3960A/2N2222/151050G/	6
CIID	1 CD4046/TL074/3140/IN4148/	3
FEAR	1 ADC0820/MC6821/TL084/HEF4001/SN74LS38/SN74LS27/TH7806/	8
FEAR	1 ADSP2101/ADSP28MSP02/27512/74LS74/7474/	4
	1 AD625/	3
FEATURES	2 CD4013BE/CD40106BE/MM74C14N/2N3906/2N3904/1N914/1N270/	4
PAPERS	1 ADC0804/Z80CPU/2716/741/7486/7432/7404/LM336Z/H24A1/MCR65-4/	9
DEID	1 CD4001/LM7805/IRFZ40/1N4148/1N4004/	3
AUHIFI	3 TDA1524A/TDA1180P/TL082/TL062/CD4528/CD4066/CD4053/CD4052/	9
	6 AD7542JN/LF356/AD584/AD7225/AD7549/AD7547/AD544K/AD644K/8035	4
SUPA	1 AD572/AD7510DJ/AD521/	3
DECA	1 CD4051A/CD4024A/CA741/CD4030A/	4
TECHNOLOG'	6 ADC0808/MC1408/741/	3
	2 CD4093B/74C132/2N2222A/RS276-1617/1N914/RS276-1620/	3
	2 AD7537/AD644/AD667/8254/8255/HCTL2000/	4
COAR	1 TDA2004/BC548/	2
	1 ADC-EH12B3/SCL1/SHM5/MX1606/	4
IDDE	1 AD706/AD705/AD630/AD620/6114A020L4P48344RTD/	4
IDDE	1 AD820/AD654/2N5089/	3
	1 CD4016/741/746BT1/	3
DESIGNER'S	1 CD4067/CD4042/CD4029/CD4001/	4
ARTICLES	1 CD4528/CD4518/40174/CA3140/TCA440/ICM7224/4067/4029/CD4018/	9
DEFE	8 AD639/LT1221/LT1196/LT1194/LT1191/LT1190/LT1172/LT1150/	7
COAR	1 CD4001B/MC14001B/	1
	1 AD7574/	1
	1 AD547/741/PM35XAC110/	9
ARTICLES	1 AD507KH/741/	6
ARTICLES	1 CD4528/CD40106/IRFPG40/IRFD012/2A264/1N4694/1N4148/	9
DESIGNER'S	1 CD4007/1N4148/	1
CIRCUIT ID	2 AD532/LF411/	2
APPLICATIO	2 AD639/AD654/AD611/1N4148/	5
	7 ADCHZ12B/DACHP16B/ICL8038/LS154/TA7523S/LS393/4066B/741/123/	9
DESIGNER'S	1 AD507/	1
APID	1 AD7523/DG200/1702A/	3
BUILD THIS	1 CD4059/CD4046/CD4060/CD4013/CA3130AE/MPS-A13/78L05/2N3906/	8
	1 AD521/JA791/	2
APID	1 AD639/LT1056/LT1011/2N4391/LM329/5082-2810/1N914/	8
	2 AD40J/741/7815/2N6124/	3
ELCOCI	1 CD4516/CD4075/4060/CD4049/CD4028/CD4019/2N2222/	9
ENGINEER'S	3 AD811/JA748/FD300/1N4001/JA723/	2

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DEAP	4 AD1322/AD7228/AD586/AD712/AD96687/AD845/CD4007/	4
CIID	1 CD4010UBE/LM13600/	2
ARTICLES	3 AD549/AD630/AD524/AD585/OP27/AD667/AD524/Z80PIO/3584JM/	9
ANDE	3 AD7581/6800/8085/74LS138/8205/8212/74004/	3
	4 HDAS16MC/74LS574/AD567/UA9706/AD544/74LS645/74LS138/74LS74/	4
	1 EDH0008H/	1
PAPERS	2 AD9685BD/MC10125/NE529/LS373/LS244/LS240/F160/LS138/LS123/	9
PROGRAMMII	4 AD301AL/TL082/5837/741/AD581/ZTX500/AD590/GL23/	3
CITEAN	1 CD4007/	1
IDEAS FOR	1 AD7542/LM124/VQ3001P/	3
REPA	1 AD7572JN12/74148/LF398/RD5106A/	4
	3 NE602/MC1350P/LM386/1458/MRF476/2N3906/BS170/MPF102/1N914/	6
	2 NE555/2N3819/741/ZTX300/1S44/	4
	1 NE72084/	1
DEAP	1 PEB2070/PEB2080/PEB2060/8051/	4
FEAR	4 NE602/78L05/40673/NTE222/ECG222/2N3906/NTE610/NTE614/	2
APPARATUS	3 NE566/LM340-15/1N4729/	1
CICI	3 NE602/LM567/LM386/2N3904/1N4002/1N914/	3
	2 NE567/NE555/7402/2N548/2N3906/7805/1N914/2N5060/2N5061/	9
	1 WEP801/2N3821/1N914/	1
INDUSTRIAL	5 NE544/NE5522/NE566/NE535/IRF510/IRF9520/NE5560/NE5561/1N914/	9
FEATURES	1 NE602/J310/1N753A/	2
DEID	1 NE571W/NE570N/NE5534N/LM321AN/1N4148/	3
DESIGN IDE	2 NE5532/2SK146/TA101/MA332/LF412/LM335A/2N4401/2N4403/	6
REPA	4 NE5534A/LF356/CA3140/14538/4066/4013/FD300/	4
EXPERIMENT	2 NE543/555/TL507/	2
	6 NE5534/LF411CN/7812/MPQ6600A2/2N3819/2N4401/2N4403/2N3053/	9
AMSC	3 NE5539N/741/	5
	2 NE565/MV57164/74273/74221/74191/7493/7485/7445/7410/7404/	9
NOTES	2 NE555/74LS74/74LS32/74LS08/74LS00/74LS04/A683/	8
WEEKENDER	1 NE555/276-1723/2N3903/2N3053/276-2030/1N4001/276-1103/	3
	1 LF351/LF353/2N4401/1N4740A/1N4148/1N4002/	3
CIDE	4 LF351/DAC1020/LM319/LM329/1N4148/2N3810/LM394/LF356/LM311/	9
	1 BFT24/	4
ARTICLES	1 LF411CN/LM337T/LM317T/79L15/78L15/2SK216/2SK170BL/2SJ79/	9
APID	1 LF353/	1
TRBR	1 LF398/LM566/74LS123/	3
10 SHORT P	1 LF351/LF356/2N3905/1N4148/	2
NUEL	1 BFT92/BFR92/	3
	3 LF411/LF412/2N6504/2N6506/2N2905A/2N3906/2N2219A/LM336/	9
APTEPH	1 LF356/	1
IDDE	2 LF351/	1
TENO	1 LF351/1N914/	0
	1 LF398/ZN425/7555/74LS221/LM336/7474/7405/7414/TL074/ZN4401/	9
NEW IDEAS	1 MF10/555/4518/TL081/	5
	1 LF355/72741/AD531/MRD500/	3
NEAPTE	3 LF13006/LF13007/2N3810/LF347/LF412A/LM394/LM329/LM385-1.2/	4
CQ REVIEWS	2 LF441/MC14013/MC1723P/MC3423P/MJE520/2N5087/MPS6514/2N5301/	9
	1 LF356/LM311/DG201A/	3

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APID	2 LF351/CA3096AE/	3
FACTCARD	1 BF244B/BC109/OA91/	4
RATE	1 CF300/7808/1N4001/	2
	2 LF356/MC14538B/MC14066B/LM310/LM339/LF398/	3
	1 LF356N/	1
	3 LF411CN/NPD5566/AH5020CJ/LM317T/LM337T/2SJ74/2SK170/MPSA56/	9
PAPERS	2 LF353/NE555/D45E1/2N3904/1N4003/IN914/IN4003/	4
CIID	1 BF547/BF423/BF422/	3
	3 LF353/LF351/	1
NOEX	1 LF355/	1
	1 LF353/40106/7812/IRF540/BS170/	5
	1 BF256/	1
NEWS	1 LH0082/78MOS/SPX3169-102/	3
INMENSUP	1 LH0032/2SA495/2SC373/	8
	2 LH0032CG/ZVP2106L/ZVN2106L/74HC04N/	3
ARTICLES	1 LH0002/	1
	5 HI508/	2
	2 TIP121/74LS273/74LS244/74LS32/	3
	2 TIL32/1N2175/	0
DRAWING BO	1 TIL414/2N2222/741/	2
APPLIED ID	2 TIL149/308/1N4148/	2
EXPERIMENT	2 TIP30/2N2222/555/1N4004/	4
PAPERS	2 PIN-LSC5D/741/LX315/	4
CIRCUITS	1 6JS6C/1S1555/	2
ORAR	1 MJE800/MCT6/1N4002/	6
	1 SK3111/	1
RFDEAW	1 CLC400/	3
DESIGNER'S	8 TL071/741/	1
INCI	1 ML2111/	1
	1 TL074/TL071/2N4117A/IN914/	6
SCNO	1 TLC271ACD-P/	1
CIID	1 ML2111/LM318/	3
DEID	1 TL084/	1
	2 TL182/TI441M/	1
PAPERS	1 TL072/TL071/	2
	3 ULN2001/4098/7812/BC108/1N4001/	2
	2 TL074/ECG142A/	1
CIID	1 TL072/	2
DESIGN SOL	1 TL072/MN3014/74LS241/MN5133/TL078/74LS193/7414/74121/7408/	9
HOMING IN	1 TLC555/NTE555/	1
	1 TL082/	0
DEID	1 TL592/	3
DEAP	3 ML402/DAC0832/ML8464C/ML501R/ML2258/8031/27356/LS138/LS373/	7
IDDE	1 TL074CN/CM301AN/MM74C914/HEF4538BP/HEF4001BP/	7
FEATURES	1 TL084/2N3904/2N4124/1N4001/1N914/IN4148/	2
	2 TL084/TL185/74LS148/74LS161/74LS74/74LS183/2716/	7
HAHA	3 SL490B/SL486/LTC1092/	1
CIID	1 TL074/ADC0804/27C16/CD4511B/VN10LM/IN4148/AD592/CD411B/	6
GEIN	1 ILD74/74HC368/7808/CD4050/B80C1500/BZT03C12/1N5634/A81C90X/	7

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APPLIED ID	1 TL074/IN4148/2N4093/	4
	1 TL072/TBA820M/	2
	1 TL082C/TL081C/4016/	3
APPLIED ID	1 TL074/	1
DEID	1 TLC27M/VN46AF/AD590KH/	2
TEME	1 TLC251/BC547/	3
ELNO	4 TLC272/ALD2301/TLC372/2N2222/	2
	2 TL074/TI575/2N5771/2N3904/TN5770/10216/	4
APID	2 TL082/BC237/TIP32/	3
WEEKENDER	1 TLC555/2N2222/1N914/	5
	3 PL504/PL509/PY801/PY500/PCL82/PCL805/30FL2/	1
INMEHIENPH	1 CLC400/SP93602/UA741/MC10116/MC10102/2SC1424/1S1665/	9
CIRCUIT ID	1 TL062/3140/1N914/	3
COSE	1 TL071/TIL222/TIL81/	1
CITEAN	2 TL074C/4066/4012/4011/	4
COMMUNICA	2 LM3046/LM1496/LF356/LM7915/LM7815/2N3906/2N3904/1N4148/	8
	2 LM358/NE532/BRX47/BC547/MOC3020P/TW7N600FZ2/C6V2/ECG6406/	9
	1 LM1035N/	1
	7 MM5321/LM334/VN2222L/DG200BA/LF356/2N5401/LM338K/LT1037ACN8/	9
	1 LM308N/1N914/	1
DIAGNOSTIC	1 AM29818/AM2910A/AM9168-45/AM27S85/	4
	1 LM733C/LH0002C/2282B/1N4148/	2
PROJECT	1 LM386/	1
	2 TMS1000/4081/4016/4013/4011/4001/2SA1015/1N4148/1SS53/	6
ARTICLES	3 LM310/LM301/1N914/1N4004/IN2070/	7
	1 LM318/1N649/	4
ASK R-E	1 LM386/	1
	1 LM386/276-1731/276-116/	1
LAEX	1 LM324/2N2222A/IN4001/	2
	1 LM317/OP07/	2
BUILD THIS	3 LM1880/TL081CP/LM1881N/LM565/LM318N/CD4528/74C93/7400/2N3904	9
APID	3 LM339/74193/74123/7400/BC337/1N4148/	8
	1 LM567/NE567/XR567/	1
ARTICLES	1 LM308/LM741/74C221/KE4861/MPS2369/MJE340/2N3644/OA91/ORP12/	9
COAR	1 LM3524/VTL3A26/890-0226/Q4025L6/7812/HT32/1N4003/1N4001/	4
SCNO	1 LM339/CD4011B/	2
HOMING IN	1 LMC555CM/MMBT3906/MMBR951L/	4
COMMUNICA	1 UM9415/	0
DAACSYCI	1 AM685/MC10H131/MC10H116/DAC312/LS193/F191/LS74/11C90/2SC2367	9
DEID	1 LM224J/LM317T/VN10KM/1N965B/1N4001/	3
	1 LM308AN/LM339P/4096/4002/MJE521/MJE371/MPS6562/MPS6560/1N914	9
	4 LM318N/TL074CN/74C932/CD4053BCN/TL072CN/LM340T6/MV2115/	8
	1 MM5837/	1
TENO	2 LM322/74123/7432/7410/7400/74122/	4
	1 LM386/	1
	4 LM317/LM337/7805/337/317T/	2
COAR	1 LM239/LM339/	2
COAR	1 LM3915/LM324/LM7809/	5
ELCOCI	1 LM311/HLMP0101/1N916/	1

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	4 LM317/LM309/7805/LF355/1N914/	2
DEEN	1 LM604/	1
PROJECT	3 LM358/1N4148/1N4418/	1
DENO	1 LM725A/LM201A/TIP32/TIP31/2N2219/	9
PAPERS	1 LM555/LM741/LM74121/ECG5641/	5
BUILD THIS	2 LM555/74LS74/2N4400/1N4735/	5
BUILD THIS	1 TMM2016P2/8088/74LS373/74LS139/74LS541/ADC0804/SN75478/	9
	1 LM399/ADOP27E/2N2609/	4
APID	1 LM361/	2
DEID	1 LM339/CD4538BP/CD4001BP/	4
	2 LM339/7414/10124/74121/1N414/	3
COAUMECO	3 MM5357/F4052/74LS670/74LS374/74LS373/74LS279/74192/LH0070/	9
SHPA	2 AM2910A/AM2901B/74LS541/74LS377/74LS374/74LS253/74LS151/	9
PAPERS	1 LM733C/LM319/CD4016/HFBR2406/	4
APPARATUS	1 LM3900/MPS6515/122D/EM410/	3
APPLIED ID	1 LM319/TL081/7400/DG303/	4
	1 LM318/2N2222/1N914/	9
	1 LM13600/LM386/	3
IC TESTBEN	1 LM3909/	1
PROJECT OF	1 LM3909/2N2222/1N4001/	4
APID	1 OM335/2N918/BB10S/	2
	1 LM318/LM555/BC337/BD140/BC327/MPF106/1N4732/	9
DEID	1 LM319D/CD4030AE/1N4148/	2
	2 LM3900/LM301/2N5458/1N3063/	5
PROJECT	3 LM308/CD40106/1N4148/BZX55C15/	2
IDDE	1 LM1894/	1
FOREGROUN	3 TMS4044-45/74221/74177/74125/74122/7474/7442/7420/7416/7408/	9
	1 LM306/74S00N/IRF332/VN98AJ/2N3011/1N3931/	6
ORPA	1 LM308AH/	1
PROJECT	2 LM360/LM311/74LS241/CD4013/7905/7805/1N4148/1N4001/1N914/	4
CIID	1 LM311/4043/4017/2N5458/	5
RFDEAW	1 LM324/74HC74/4016/74HC04/C700/U666BST/1N4148/	6
PAIN	1 LM311/TL072/555/CD4047/CD4013/2N2907A/2N2222A/1N752/1N4148/	9
CIID	1 LM2917/741/TIP121/	4
	2 LM317/LM339/1N751/	2
	1 LM741CN/CA3140T/MD50E2/LF356N/2SC945/1S953/10D10/	4
BUILD THIS	1 TMPZ84COOP/SP0256AL2/M956/8255A/ADC0809CCN/27C64/LM234Z/	4
	1 LM555/ECG858M/ECG4045/74LS00/ECG123AP/EC123/	8
	1 LM324/4011/	2
SEDEMA	1 LM3046/TPQ2907/	3
FACTCARD	9 LM346/LM108/LM107/LM102/LM101A/2N2920/2N2605/1N914/1N457/	5
QRP	1 LM324/4001/7812/LM317L/IRFZ44/MBR1635/1N4001/1N419/	7
NEW IDEAS	3 LM324/TIP29/555/	2
	3 LM1894N/LM3915N/GL112R13/1N4002/LM341T12/LM78M12/	2
PAPERS	1 EM401/	0
CORRESPON	2 LM555/ECG918/74LS32/74LS00/ECG123/	3
APPLIED ID	1 LM324/4066/	2
	2 LM311/TL074/555/2N3642/2N2218/74LS14/74LS221/7406/1N914/	5
	9 LM301A/741/AD534/LT1056/LT1055/AD522/LT1016/LT1001/LT1011/	0

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CICI	3 LM386/MPF102/2N3904/1N34A/	2
PRSP	1 LM338/	1
ADIC	2 AM95C85/AM29863/AM2966/AM29809/AM2952A/LS125/AM20RP10A/	5
	5 LM311/CD4013/CD4001/74LS51/7400/74LS42/74LS93/74C922/7414/	4
	1 LM334/LM3046/	7
NODI	1 LM318/LM310/CD4584/CD4518/CD4098/CD4066/	6
	9 LM339/SG3401/FND350/LM723/UA0802/LF351/741/74LS393/74LS124/	9
	1 LM377/	1
SPCO	2 LM324/LM7912/LM7812/MJE800/MJE700/	3
	3 LM351/226R5A1/75121/75122/6N137/7413/MCA8/	3
	1 LM324N/2N4124/2N4126/IN4004/2N6024/	5
REPA	1 LM741CN/	2
	2 DM74121/DM7490/DM7475/DM7473/DM7400/	9
	2 MM74C373/DAC208/759U1C/MUX16/1N914/	4
	2 LM207/1458/7915C/7815C/7805C/1N914/	4
	1 LM324/CD4020/CD4013/CD4011/BC109/	7
TENO	1 MM74C00N/2N3643/BZY88/1N914/	2
TENO	1 AM450-2/OP07C/2SA1015/2SC1815/LT9512U/S1188-01/	5
DEID	1 LM358/VP1204N2/LM4041-1.2/	2
FEATURES	2 LM380/LM324/LM317T/2N3904/1N5231B/1N4148/	4
CIRCUITS	4 2N4124/4049/4040/4011/4001/4023/4046/	3
TECHNOLOG`	5 2N3904/	1
PROJECT OF	1 2N2222/2N2907/	2
	1 IN4148/	0
=	1 SN74390/BC183/071/	6
PAPERS	1 SN74121/SN7400/	5
ENGINEER'S	1 SN7448/SN7445/7400/5082-7740/2N3904/1N914/	7
HINTS AND	1 1N34A/	0
NUEL	1 2N4448/2N2894A/1NN4734/1N4154/1N3731/ID10-050/	3
	2 2N5248/SL560CDP/LH0002C/UA733CN/BC107/	4
LETTERS	5 2N3792/2N3716/BD140/BD139/	4
HAHA	1 ZNA234E/2N3904/1N4148/	2
CIID	2 2N6254/2N3771/2N3772/BC639/BC557/BC547B/BD140/AC128/AC132/	7
	1 2N5109/1N4001/1N914/2N4401/	3
CICI	3 2N2222/2N3906/2N3904/2N3638/2N5062/LM324/	3
CICE	1 2N2222/2N2907/TI01/7406/1N4001/	9
CIID	2 2N5882/2N5880/2N5210/2N5087/2N3907A/2N2222/2SB737/MJE722/	7
ARTICLES	1 SN7442/	1
IDDE	1 2N3906/2N3904/1N5712/	8
CCT SPECIA	1 ZN414/BC109C/1N4148/	2
	1 2N3904/ECG5452/1N914A/	3
SOLID STAT	6 SN76477/2N2222/74107/LM309K/MCR103/1N5400/	7
ASK BYTE	1 2N2222/1N4728/	2
	1 1N270/	0
DENO	1 1N914/	0
	1 INA110/	1
QRP	1 1N34A/1N60/	0
ANRA	1 1N4502/NE2/	0
PAPERS	1 ZN1304E/7400S/RS7486/BFY50/BC108/1N4002/	9

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	1 2N2222A/1N914/	1
NEW IDEAS	1 1N4002/	0
APID	1 SN75177/SN75178/	1
	1 2N5457/	4
	1 1N914/RS2025/	5
CIRCUIT SU	1 1N5401/MM4002/MC1723/2N3232/2N3053/2N3904/1N5401/1N4148/	9
IDEAS FOR	1 2N4401/NE555V/1N914/	2
	1 2N3906/2N3904/	3
CQ REVIEWS	1 1N9148/1N4148/	0
ASK R-E	1 2N3565/2N2646/1N4004/	3
	1 2N3904/2N3906/	9
AIANCH	1 4N32/IM324/LH0021CK/	4
	1 BNE4R/	0
	1 2N3866/10MA/	1
	1 IN4007/	0
	1 2N6385/1N5297/	1
DESIGN	5 ZN1066/BUX47/ESM161/IN4148/	3
	1 2N2222/C-7104/	1
NOTES	1 SN74190/SN74132/SN74121/LM311/SN7490/SN7410/SN7404/TK160V/	9
	9 2N1304/2N2437/2N500/2N465/2N1287/2N2063/2N1613/2N2322A/	3
WEEKENDER	4 2N3055/276-2041/TIP3055/276-2020/	3
RFEN	1 2N3569/	1
	2 2N2907/1N4005/LM317/1N914/	1
PROJECT	1 2N5064/MC3423/LM3909/LM317T/LM336Z/LM339/2N2222/1N914/	9
	1 2N2222/1N23/	1
REVIEWS	1 2N3904/	1
IDEAS FOR	1 1N4148/	0
	1 ZN428/OP07/4528/ZN448/OA202/	4
CORRESPON	1 2N4427T/	1
APPARATUS	1 2N5457/MJ2501/MJ3001/2N4250/2N2484/2N3646/741C/IN4007/	8
	1 2N3055/	1
	3 SN7416/80CCD-V/741/MJE700/MJE800/1N914/	4
	1 2N2222/1N4001/	4
TECHNICAL	1 2N4209/2N2222/2N5179/	3
	1 2N3904/2N3906/	9
	1 2N2222/7404/74154/7805/	8
NOTES	1 3N152/2N390C/1N914B/1N4454A/1N4864/	2
	1 2N5457/2N5460/ME4102/	3
ARTICLES	1 2N4080/2N2857/	3
BUILD THIS	1 2N2484/2N5951/	4
	1 1N9148/1N4148/	0
RENO	1 2N4037/2N3569/	7
APTEPH	1 VN10KM/	1
AMDE	2 SO41P/4066/TL084/4013/7805/3N201/2N2369/TBC549/BC309/OA90/	9
PROJECT	1 MOC3041/CD4538B/LM393/SC150M/IRF511/7805/1N4148/1N4001/	8
CCT CELLAR	5 COM2017/COM5016/LM324/HP7340/ICL7660/LM3914/MC1488/MC1489/	8
BUILD THIS	4 TOLD9200/TA75358CP/PN2907/PN2222/D40D5/2SC1959/2SA1015/L14G3	5
DESIGN ENT	1 DP8392/DP8391/DP8390/	3
	1 OP07/4127/3528/7432/7402/2N4401/1N914R/	9

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FEATURES	3 MPF102/276-2062/1N914/	1
APID	1 OPA404/LM34/1N4148/	2
DEFE	4 OPA2604/OPA602/OPA111/OPA37/	1
APPLIED ID	1 DP8464B/	1
APID	1 OP215/3140/1N821/LM334/	3
ARTTICLES	3 OP07CN8/LM399/LM741CN/4N26N/7915/7805/TIP122/2N5195/1N4744/	4
DEIC	1 DP8463/DP8466/DP8460/DP8464/	3
COAR	5 MPF102/NTE312/40673/NTE222/ECG222/NTE618/	1
	1 MPSU60/2N3904/7473/74121/	3
CQ REVIEWS	1 UPD1708AG/2SC3772/MC3357D/2SC2053/2SC3770/UN2114/NJM386M/	9
CQ REVIEWS	1 UPD7503/2SC2259/AY3-9410/40288/MC3357P/2SC2786/UPD2819/	9
IDDE	1 SPO256AL2/27C16/LM386/CD4520/4042/74HC147/7805/	7
CQ REVIEWS	2 UPD75112GF/HD404608/LC7385M/M56760FP/MC3372D/NJM386BM/DAN22	9
FEATURES	1 MPF102/276-2062/	2
	1 OPA111/OPA101/FO02-400/160IRE/	2
	1 OP16/LM308A/2N3565/1N5248/1N942/	9
DEID	1 SPO256AL2/2716/4520/4042/LM386/7555/4013/CD4093/7805/	9
	1 MPSV10/1N914/	7
CIID	3 OP160/	1
CIID	1 OP07/	1
IDEAS FOR	1 OP09/2N4123/1N914B/	2
DEID	1 OP97/OP42/MAT03/MAT04/1N4148/	4
	2 XP2020/	1
DEFE	8 OPA2604/OPA627/	1
PRODUCT PR	1 LP2950/	1
FOREGROUN	1 MPS3702/2N3903/	2
POSUBACH	2 CQY80N/TIC226D/TIC106D/BF245B/BC557/BC547/1N914/1N4007/	4
DETECTORS	1 HQV810/733/	0
	7 XR2250/74123/74193/74LS244/2708/74LS373/74490/MCM6810/7493A/	9
DESIGN APP	2 IRF9531/BUZ71A/4528/4013/LM339/74SC245/74LS08/	5
	2 IRFD9120/VPO300M/OPO7/CRO33/IRF9520/IRF520/MC34074/	3
DESIGN FEA	1 MRF918/	1
APPLIED ID	3 XR13600/	1
	2 XR2206/CA3100EM/CD4518/MM74C192/CD4023/CD4066/CA3240AE/4049/	9
	2 XR2206/7805/7905/2N2222/2N3772/2N3055/1N4001/	4
RF SIGNALS	1 SRA1/1N4148/	1
	1 XR2208/CA747/	4
	1 IRF520/UES1303/	4
DEID	1 IRF980/MMP5550/MMP3906/	3
	3 MRF449A/TIP32/1N4001/1N34/2N2222/1N914/ECG5191A/	3
	1 IR106A1/	1
BUILD THIS	2 MRF654/5082-2800/1N4007/	1
DENO	2 NS32008/NS32201/LS373/LS245/8251A/14040/LS138/74LS00/1488/	9
	2 IS32/6402/4702/LS74/LS393/LS73/LS245/6116/LS164/LS86/LS122/	9
	1 RS276-022/RS276-041/	0
NEFR	1 MSA0204/MSA0304/MSA0404/HP5082-3379/	0
MIDE	1 2SC1215/	2
WORLD OF I	2 2SC1815/ND487C1-3R/MB3614/3SK73/2SK19/2SC460/MC3357P/AN612/	9
ACBEHATA	1 RS2042SK/RS2012CJ/	2

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COMUNICATI	1 TSC428/	1
	7 DS8629/E304/ICM7216B/5082-7446/2N5770/MC10216/ICM7216A/	9
BUILD THIS	2 SSI202P/MC14013B/LM555N/MC14049/7805/2N5401/MPSA14/3N246/	9
APPLICATIO	1 ISD1012A/ISD1016A/ISD1020A/	1
APPLICATIO	2 TSC429/1N4004/	2
	5 2SK184/2SK161/2SC1252/2SC382TM-W/2SK19GR/3SK51/BFR91/U310/	9
	2 SSI204/ULN2803/74LS273/74LS244/74LS138/74LS04/1N4001/	9
REPA	2 RS556/RS555/2N708/BAY93/OA47/	4
LETTERS	2 2SK134/2SJ49/SK133/SJ48/MJE182/MJE172/MPS8599/MPS8099/LM337/	9
	2 MSC85856/NEC77362/MPS-A20/BB221A/1N914/	2
APID	1 BS170/	1
SYDEINCI	1 NSC800/NSC810/NSC830/	3
VIDEO	2 2SC388ATM/TA7607AP/F1030/2SK30A-GR/2SC1815Y/2SA1015Y/	9
DEFE	2 2SK281/NE72089/747/2N3643/	3
	1 2SC681/ESJA52-10/V06C/	1
	2 2SK160/AN7221/RV1BA1360F/AN7216/2SD596/2SB709/2SD601/MA150/	9
	1 2SDG61T-U/2SC4581G/1S1555/D528.82/SEL172DY/	2
APID	2 RS7663/RS7664/BC107/2N4861/IN4148/C12-12ID/NM1212/	5
	1 MTP25N05/BUX88/	2
DEID	1 LT1170/LT1073/1N5823/	2
NEW PRODU	1 LTC1040/	1
IDDE	1 LTC1064/LTC1062/LT1007/	4
DEID	1 LTC1041/VN2222LL/2N2222/LT1009/	3
DEID	2 LTC1040/LT004-1.2/2N3906/2N3904/	3
	1 LT1012/LT1013/74LS221/BC560B/1N4151/	4
SPRE	5 LT1115/LT1078/LTC1043/LT1022/LT1017/LT1010/LT1006/LM301A/	9
PAPERS	4 8T20/OP07CP/SN74128/74S162/74157/74150/SN74121N/74S112/LM306	9
PAPERS	2 MUX24AQ/SN74154/TL084/H11D1/2N3638/2N423/1N4004/	9
	2 KV1603/1N4733/V130LA10/	0
DOSPRAMEA	1 MVL407/MAN2/MC10198/MCL10192/2N5771/2N5770/1N6263/	9
DEFE	1 HXTR3101/	1
	1 LX031F/MC1458/8Z205/5082-4352/SN74LS123/B272/SN7406/IH5019/	9
CICICE	2 CY300/LM741/ICL7660/1811/2N2222/1N914/	4
ARTICLES	1 CY500/7474/7430/7404/	4
	3 5-6086J/DACHI10B/SN74LS283/SN74LS273/SN74LS86/SN74LS74A/	9
DEID	2 8085/	2
RATECO	4 4046/LM324/4053/4049/CA3046/BF256A/BC558B/BC550C/BC548B/	8
	1 4013/74C173/4016/4042/4001/4011/4050/7406/2N222/2708/	9
FEATURES	1 8051/	1
HIKI	1 40673/5749/6BA6W/1N4148/1N914/	4
APPLIED ID	2 4011B/40106B/4069UB/	2
	2 8085AH2/74283/74138/8291A/8231A/8155H2/8755A2/74373/	6
	3 4011/H11A1/H11C1/H11C2/H11C3/2N3904/2N2222/	2
	1 308/	1
BUILD THIS	3 80C32/27C64/74C922/74LS244/74LS138/74LS00/6N138/MOC3010/	8
IDDE	1 4060/TL082/BSS98/MPS3904/1N4148/	5
EXPERIMENT	3 4046/2N2222/4011/4066/	3
HOMING IN	1 80C31/27C256/74HCT373/93C46/MAX232/7805CTH/2N2222A/1N4001/	7
LETTER BOX	1 4060/	1

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CICI	4 4066/567/741/4017/MOC3010/2N3904/2N2222/RS276-142/1N914/	3
	2 4044/4511/2N3904/74C14/4528/4011/4017/1N914/276-067/276-130/	9
	1 308/	5
TECH TIPS	1 4093/	1
TECH TIPS	1 4093/	1
DESIGN FEA	1 8021/ADC0803/555/2716/ZN4263-8/L200CT/LM309K/2N2905/BCY59X/	9
APPLIED ID	1 4011/4520/BC182/	6
	8 40673/3N211/2N3904/2N2222/2N3906/741/1458/2N3053/SBL1/1N914/	5
EXPERIMENT	7 4011/	1
	2 4040B/40106B/4051B/4027B/4555B/MC14584B/HM6504-9/4015B/4023B	9
FASTBUS	1 10131/10113/10102/	3
CIID	1 4089/H11AA2/TIC206M/BC184/1N4001/	4
NOTES	1 5082-3039/1N914/	0
FEATURES	1 4013/276-2413/4011/276-2411/MPS2222A/2N2222/276-2009/1N914/	3
IDDE	1 4066/	1
FEAR	1 80183/8282/8283/8286/8287/	3
CIRCUITS	2 4017B/4001B/	3
PAPERS	1 4030/4016/4001/	3
DESIGNER'S	5 40106B/1N4148/74C14/4049B/74C04/	4
	4 4050/4049/555/2N2222/H11G3/	3
	1 10125/LS240/LS279/LS151/	4
MEMORY SYS	2 8086/8203/8288/8283/8286/74S373/74S32/74S157/74S74/8205/	9
FEATURES	1 4051B/	1
CIID	1 40106/PS2021/BUZ10/BC547/1N5818/	4
DESIGN SOL	1 3130/	1
	2 S10192/MC10116/MC10105/MC10131/DDU11-500/1N5626/1N749/1N54/	9
IDDE	1 3140/555/4093/4017/4001/7812/IN4004/IN914/CLSM5L/	7
SPCO	1 2112/4066/4016/4009/555/	4
DENO	1 C1200/IN4757/IN916/	1
TEDE	1 S1790-04/	0
FM/RPT	1 8212/2N2222/721A05/3201/745-0008/	6
	1 723/MTM6N55/MTM6N60/1N5352B/1N5381A/1N5381B/2N6404/1N3826A/	3
	2 725/741/RS349-484/TIP31A/BFY51/ZN423T/44003A/	5
DENO	2 725/741/7805/2N3055/BC178/SK100/SL100/BC158/1N4148/1N4003/	9
PAPERS	1 8253/74245/7432/7430/7404/	5
	1 8251A/2797/MSM5832/8259A/6845/UPD7220/NMC9306/	7
CLCI	1 12AU7/12BH7A/6L6GB/5U4GB/6550/KT88/OB2/	7
CLCI	1 12AX7/6X4/	5
CLCI	2 12AX7/ECC83/6X4/	6
CLCI	1 12AU7/6GT5/OA2/	7
	1 8253/8255/8259/	5
	4 12AX7/ECC83/7815/LM340-15/7812/LM340-12/1N4004/	2
	2 8253/74LS240/75138/74154/2N2369/74112/74123/7474/7404/7410/	9
	1 12AU6/12BA6/6BH6/	1
NOTES	1 J309/BA244/	4
	9 F3871/96LS488/F3854/F3870/F6820/F6844/LS377/F240/LS373/F545/	5
	2 93LS488/F38E70/UA0802/74LS157/UA741/74LS47/74LS32/74LS11/	7
	1 F3871/F3853/F3861/F3850/	5
	1 733/TL074/BFY90/2N2894/	5

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DEID	1 6306/74LS193/LS74/	7
ELCOCI	1 4341/356/1458/	4
	1 733/AMC680/BR74A/	1
DEID	1 74HCT670/74HCT191/74HCT138/SN74LS125A/74HCT32/74HCT04/	6
DESIGNER'S	1 74LS174/7489/74LS163/74LS175/74LS04/	5
APPARATUS	1 741/FPT100/MRD160/276-130/	1
NOTES	1 74LS04/2N3905/1N914B/JH114/SRA1-1/JH131/PSC2-1/8202/RK3/	9
SPOTLIGHTI	1 74HCU04P/	1
NEAPTE	5 74S112/IMS2600-12/68B45/74LS175/74S158/74S241/74LS85/74LS378	9
APDENO	1 74367/7475/7404/	4
COMMUNICA	1 741/PIN040A/	1
IDDE	1 741/2N3866/2N3546/2N2857/1N914/	5
CIRCUITS	2 1458/LM386/	2
EQUIPMENT	1 749/	6
SUPA	2 74121/7400/R928/MTP2P50/2N4403/2N4401/2N4123/2N3805/VR200A/	6
ARTICLES	1 74193/74C14/	3
DESIGNER'S	1 74121/7405/	2
	1 741/CM15D200/	3
PAPERS	1 741/IN4148/	4
PROJECT	1 741/7815/7805/2N6057/2N3904/1N935/	6
APPLICATIO	4 74C00/ZTX325/BFR90/ZC824/ZC823/ZC821/ZC740/	1
DEID	1 74F194/74F151/74F04/74S30/	6
	1 74LS85/74LS86/74LS74/74LS00/	5
BUILD THIS	2 74HC245/74HC163/82C55/LM317/2N3904/2N3906/27C256/	9
	1 74HC04/74HC193/74HC139/	3
	2 741/2N4416/4011/4024/4052/4511/4028/4001/	9
LEED	1 74ACT11240/74F240/ACT244M/ACT74/AC04/ACT240E/F74/CD74ACT240/	9
FEAR	1 741/LM386/	2
	2 74121/VN67AF/741/74112/	6
NOTES	1 741/	2
	1 741/BC157/	6
UCDETE	1 74S161/74S74/	3
NOTES	1 741/TIC206/2A4891/2A93/	3
ENGINEER'S	1 74LS175/74LS164/74LS10/74LS74/74LS04/TIL209/	6
COMPUTERD	1 74C165/74C161/74C74/74C86/LM358/4093/1N4148/	7
PROJECT OF	3 74C192/4051/74C04/2N2222/	3
IDEAS FOR	1 74F190/74LS190/74F74/74LS00/74LS20/	9
DESIGNER'S	1 7402/	1
BUILD THIS	2 74LS367/74LS193/556/4013/4017/4011/74LS279/555/LM723N/7805/	9
DEID	1 741/74121/ALS00/79M05/1N914/FLU110/	4
DEID	1 74F74/CA3083/	2
	7 74LS374/74LS245/74LS175/74LS138/74LS10/7805/74LS85/TIP127/	9
FOREGROUN	3 74177/74175/74125/74121/2102A6/7474/7430/7420/7416/7404/7400	9
ELCOCI	1 14024/MC14068/4081/4071/	6
MICROSCOP\	1 741/30817/	1
COMI	2 74HCT688/74HCT541/74HCT245/74HCT32/74HCT08/	4
FEAR	2 74LS373/74LS244/74HC165/74LS164/LM317T/2N4401/1N5819/	9
	1 74122/LF398/7490/7485/	4
ARTICLES	4 14516/14512/MC14500B/555/4099/4081/4078/4071/4070/4069/4023/	7

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	1 74161/7414/7404/7474/74164/7400/1N914/	9
	2 741/276-1161/	1
DEID	1 74LS165/74LS175/74LS30/	4
LEED	4 747/741/318/13741/VN10K/MPS706/BF245C/308/358/BAX13/SG221/	5
DEAP	1 74AS1805/74FCT163A/74AS74/74F112/AS08/TI16N8/AS02/	9
PAPERS	1 74LS123/TIL149/74LS14/BC114/	3
ARTICLES	1 34071/OP07/TL072/356/4N35/2N6766/2N22/74221/555/IN914/PE0-52	9
INCOMPLETE	1 74C04/	1
	1 741/529/	3
DECA	1 74143/74123/7476/7486/7400/7408/1N914/	6
	4 74LS193/74LS192/74S174/74LS74/74S74/74LS32/74LS30/74LS27/	9
APPARATUS	1 M50/F5E1/LD242/M20/M60A/	0
	1 555/GE268/GE65/SK3124/BC547/SK3200/ECG145A/SK3063/	3
	2 555/741/	2
CICI	5 555/4049/4001/S4006L/2N5060/MJE3055/2N3906/2N3904/2N2222/	4
	4 7591A/7199/12AX7/6GH8/5AR4/GZ34/	9
	3 555/H11A2/LM4250/BC107/LM324/74121/MM5357/AD536/LM0070/	6
INSTRUMENT	1 554UD2/590KN4/	7
	1 556/4027/2N4401/	3
IDDE	1 555/308/741/CD4016/BC548/	5
	4 555/7476/7400/MCM6810/74157/7475/2102/74191/7404/TIL209/	9
	1 4522/4021/4013/CD4011B/CD4001B/1N914/	4
	1 555/	1
IDDE	1 556/7474/7402/	3
CIRCUIT ID	1 4538/4093/2N3704/2N3702/1N4148/	4
BUILD THIS	2 4514/M959/4011/7805/4001/555/2N2222/1N4001/1N4733/	8
APPLIED ID	1 4526/4027/IN4148/	3
EXPERIMENT	3 7555/4066/4017/555/	5
WEEKENDER	2 555/LM383/2N3904/1N34/1N914/1N5401/1N5402/1N3826/1N4733/	4
PROJECT	1 4541/4040/4093/4012/1N4148/	4
	1 355/321/XR2208/8038/2125/DD8/	4
IDDE	1 3500B/1N4154/	2
NOTES	2 556/2N2222/	1
DATA FILE	9 4510B/4516B/40192B/4033B/4017B/4518B/4520B/4029B/4001B/	5
	1 555/LF398/747/DG200/4011/4027/BC547/	9
TENO	3 4534/064/4098/AD2020/80C95/74C89/MSM5538/80C96/2732/74C157/	9
ALL ABOUT	4 555/LF351/2N3904/1N4148/CEM3330/SSM2040/CEM3340/	4
	2 R5606/7555/4024B/MF10/	9
	1 7555/4013/2N2222/LM334/1N5344/	8
	1 356/SD5000N/	3
FEAR	6 6502A/68B21/HI574A/HA5320/HI5680V/NCR5380/MF4/74LS374/LM555/	6
	1 257J/	1
APTEPH	1 551PH104/	0
	1 555/2N3819/1N4148/	2
	2 3542J/OP05C/2N6484/3N160/2N4867A/	4
CICI	4 555/4001/2N5060/2N3906/2N3055/MJE34/276-2027/1N5233B/1N914/	5
LAEX	2 555/741/SN74122/2N3565/	2
	3 8640B/TC5010P/4009/4063/74LS153/74LS221/75450B/74S00/74LS14/	9
	1 567/276-1001/1N4001/	2

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APID	1 3656/TLC74CN/LH0021/	3
INMEHIENPH	2 56AVP/58AVP/2N5194/SX3703/10D4/10D10/	9
BUILD THIS	3 8749H/8748H/MAX233/TSM1416/LM317LZ/7805T/2N2222A/1N4148/	9
	1 276-143/276-145/	2
	1 276-2035/RS2033/276-2033/1N914/276-1122/	3
PROJECT	1 2716/BC184L/	9
PROJECT	1 8748/NSM4005A/MOC3010/TLC548/MPS2222A/7805/276-1796/276-134/	9
	2 D779/2N2222/2N918/	2
	1 4731/4070/	2
DESIGN ENT	1 68454/63484/68459/80C51/68070/	7
PAPERS	1 6821/084CP/74LS373/DAC0800/	5
	1 6802/S3528/	2
	1 6875/74LS126/74LS00/74LS04/	4
	1 58174AN/2376/6402/	3
BUILD THIS	4 Z80/82C52/NE5532A/LM348/74HC573/AD0820/DAC0830/4051/4052/	9
	1 6821/6522/74LS245/74LS123/MM5817/74LS244/2N2222/74LS138/	9
FEATURE	8 6803EM/6821/2716/74LS74/74LS27/74LS11/74LS00/74LS04/2N3904/	3
DEAP	1 18P8B/AM2971A/	2
IDEAS FOR	1 Z80ACPU/Z80A-PIO/74LS74/74LS123/74LS27/74LS08/74LS373/2716/	9
	2 8850/2N3439/IN914/	7
SCNO	2 P85AU/BB312/40362/2N4063/TIP30XA/SP8918/MJ2400/MJ3000/1N1342	8
	2 4837/AD533K/40J/741/CD4016AE/CD4047AE/NE555/1N914/	9
	1 290A/292A/	1
	1 CA3240/RC4558/	1
CISYLE	1 UA741/	3
ARTICLES	2 CA3028B/LF356N/4066/4013/4011/2N2369/BB112/HP2811/	8
	3 HA11225/5532/HA12016/MPS5172/TIS86/MP5A13/1N4003/	8
DAACSY	3 UA733/LM360/HCT08/HC279/75110/75107/HC109/HC148/F109/HC138/	9
APPLICATIO	1 TAB1043/	1
	1 CA3140AE/BPX79/	1
CICE	7 MAN74A/74LS164/78S40/8052/74LS245/74LS373/8255/LM337/1488/	9
DESIGN ENT	6 HA2542/7476/HA2541/HA5170/TDC1007J/HA5320/	4
	1 MAR4/7815/1N4004/	3
DESIGN	1 MAX265B/	1
CLDENO	1 CA3240E/CD4011B/	3
TENO	1 CA3140/308-067/ICM72121J/	4
IDDE	1 CA3164E/MFT6030/T2800/	3
	1 UA7912/UA7812/2N6550/2N5245/BFR99/BFY90/	6
	1 CA3140/	1
APPLIED ID	1 UA4136/CD4046B/IN914/BC549/	4
APID	2 GAPO1/	4
DEID	1 UA766/OP7/H11B1/2N3565/	6
APSU	1 SAF1091/SAF1092/IN4148/	2
IDDE	1 MAX170/74HC595/6N136/74HC04/	7
DEID	1 MAX359/MAX400/	5
	1 CA3080/TLC555C/LM324/4098/2N3819/BC478/BC108/1N4148/	8
FEATURES	2 CA3240/CA3140/741/	3
HAHA	1 BA1404/	1
	1 CA3080/LH0033/LM210/MC10116/MC10102/BF272/MBD501/	8

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SOLID STAT	4 UA7391/4001/1N4005/D3202U/D1201B/	1
ARTICLES	2 CA3102E/2N5397/2N4416A/1N5468A/	3
	2 CA3100/LF353/LF356/2N3906/SD5000/R2184/	6
REPA	1 UA741/	4
TENO	3 DAC0808/LF356/AD578/AD346/AD565AK/74LS154/SN74100/8255A5/	5
COLUMNS	1 MAX910/	1
	1 GAT1-010/AM107/	2
DEID	1 6BK4C/6EL4A/6EN4/LM318/IN4148/	3
LASERS	1 BB3650/	1
	1 BB3656/CA3028/CA3046/TL062/H11F1/2N5169/2N3348/ICL8069	9
	1 KB4417/BC109/BC119/	3
	2 BB3656/LF356/LF353/OP27/2N3904/SW7510/HEF4051/74LS273/74C85/	9
FEATURES	2 MC1496G/MPF102/2N4036/2N3904/2N3866/2N2222A/1N914/	5
	1 MC1496P/	1
FOREGROUN	9 MCS6530/MCS6502/3624-4/74279/74260/74197/74157/74153/DM8835/	9
PROJECT	5 MC68701/2764/6264/74HCT573/74LS374/74LS138/MAX232/78S40/	5
	1 BC107/BC108/BC171/2N3819/BZY88C8V2/1N4148/	3
CQ REVIEWS	2 MC3362/74LS145/LM358/LM317J/3N204/SBL3/SBL1X/J310/2N5109/	9
	1 MC1692/MC10102/LM301/	3
	1 UC1901/CA3140/1N914/	4
	1 MC146805E2/MC146818/MC14444/MC146823/MCM65516/MC14051/	9
PRMO	1 ICM7209/	1
LETTER TO	1 HC04/	1
DEID	1 MC74HC595/6805/	2
INMEHIENPH	1 BC111/	2
CIID	2 BC547/BFR90/5082-2800/BA234-4/	2
ARTICLES	3 MCP3033GI/2N2222/TIL414/FPT100/XC880A/	1
	2 ICM7215/HP5082-7653/LM309K/	8
	3 BC216/2N3906/BC109/BB103/2N2222/AA121/1N34A/BF173/2N3391A/	4
	1 TCG108/TCG128/	2
READOUT	1 AC04/ACT240E/ACT240M/F240/ACT11240/ACT74/	7
	2 RCA4522/2N2219/MV50/HP5089-4990/HP5082-4590/	3
ANDIINCI	6 HCMP96870A/MC10176/MC10H115/MC10101/2N5179/	3
DESIGN ENT	2 HCPL2400/74S04/8085AH2/ADC60-08/74164/	6
SOLID STAT	3 ICM7205/555/324/NSL5023/NSL5024/	2
TENO	1 MCR2918R3/B40C1000/	1
	6 MC3359/ECG860/MPF102/2N2222/LM386/	2
CQ REVIEWS	4 MC1723/2N5486/2N5060/MCR69-2/2N6519/MPS6514/2N5301/2N5109/	5
FEAR	2 VCP200/UCN5804B/LM555/LM324/7420/4070/4069/4013/4011/4001/	9
REVIEW	1 MC3357P/2SC945/M54929P/M54466L/74LS123/M50787/RP5G01/AN829/	9
	1 BC213/OP500/BC183/	3
CQ REVIEWS	1 HC64A01VIC80/UPD82C43C/4021/UPD2834C/UPD555C/2SK241/3SK74/	9
DEID	1 MC14466/4011/TIL149/	4
	3 XC880A/RS276-143/TIL414/LM555/RS276-145/	2
	1 MC68705P3/MC68705R3/MC68705U3/MC14040B/MCM2716/MCM2532/	8
APSU	1 UCN4203A/UCN4202/	1
AUDIO AIDS	1 ICM72501JE/ICM72501JE/MOC3011/Q4010L4/4584/78L05/1N4001/	5
CLCI	1 ECC83/12AX7/6X4/	4
SHCO	1 ICL7611/	3

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	2 MC146805E2/2716/4508/4056/4034/4008/74LS374/74LS244/TL081/	9
DESIGN	5 ICL8048/ICL7650/HA2500/HA2600/741/IT120/	2
APPLICATIO	1 MC34071/1N5711/1N4148/	1
AUHIFI	1 NC560C/BC550C/BC517/1N4148/1N4002/	4
CIID	1 TCL27J4CN/DPM125/8069/	2
SOLID STAT	2 SC146B/2N5779/2N4992/LM387/7400/555/L14D3/DZ806/	8
	2 MC10116P/10125/DS0026CJ/MPS-A42/1N914/4902/	6
	1 MC1648P/LM340T5/	2
DEID	2 HC4046/LM358/2N2222/	2
	1 ICL7650/HP4351/OP05/356/3130/ICL7605/	8
FEATURE	1 MC14574/MC14027B/MC14049UB/BS170/TL431/MTP10N10M/1N5307/	6
	1 MC10231/MC10105/MMT3960A/	9
	2 MC1648P/40673C/LM733/2N2369A/LM317T/LM340T5/	4
	3 MC4528/NE556/S2533/LM1458/2N2328/1N5229/1N4141/	6
	3 BC108/BFY50/7812/	3
	1 MC14028B/MC14050B/MC1471B/MTP5P20/MPSA42/MPSA05/1N914/MPSAC	9
	3 UC3906/LM350/LM396/2N2222/TIP32/LM358/TL074/1N4001/	5
CONSTRUCTI	2 TDA2030/741/78L05/IRF510/2N3819/2N3866/BC183/1N4148/1N4001/	4
	1 ADC304/AD678/AD585/HI508A/AD524/	4
	1 SD205/	4
DEFE	2 AD578/DAC-HP168/HA2625/74HC564/74LS04/	5
	2 AD7522/AD7550/3130/AD521/741/7805/1N914/	7
COSC	2 ADC0820CCN/DM74LS157N/LM324/276-1711/1N4001/276-1101/	3
DAACSYCI	1 AD380/SD5000/	3
DEFE	9 AD834/AD539/LT1223/LT1220/LT1194/LT1193/LT1190/LT1122/LT1097	8
ANCI	1 AD7502/AD625/	2
CODI	2 WD1772/74LS367/74LS175/7442/7406/74LS174/74LS00/	5
BUILD THIS	5 TDA1074/MN3101N/MN3008N/LF353/LF347N/78L12/1N4148/1N4001/	4
CICICE	6 ADC0808/IL1/LM301A/LM339/74LS30/74LS02/LM334/REF01/7400/1N34	5
DEAP	4 AD1147/PA12/PA85/1N4148/SWR200/	2
DEID	1 AD630/AD711/LM311/AD581KH/L7805/HP6N137/1N4148/	9
APPLICATIO	1 CD4029/74C85/74C32/74C04/DAC80CBI-V/	6
	1 UDN6118/MC68705/MCM2801/	4
	1 CD4042/CD4020/CD4048/CD4049/CD4081/1N4148/	4
	4 WD2797/74194/74245/LS245/244/LS124/LS74/S85/08/07/04/00/	9
ORRE	1 CD4059/7474/	4
DEID	1 CD4040/CD4011/CD4049/2N2222/	5
DAACCOSY	2 AD849/AD847/AD585/MAX162/EL2003/	4
SPCO	2 AD558/ICL7760/LM324/74LS138/2N2222/MV5054-3/276-142/1N4148/	5
NOTES	1 AD524/	1
	1 BD675/BSW68/BAX12/BA316/BTW58/BZX87C10/	3
DEAP	2 TDA4814A/TDA4919A/LM358/BUZ355/BSS125/CNY17F2/BUZ330/2N4401/	7
FIFU	2 ADC0808/M6242B/74HCT138/74HCT74/74HCT02/LM336Z5.0/LM335/	4
	3 MDA7708/GPD401/MV2115/MV2103/GPD402/MV2109/	2
	1 TDC1029/NE5539/BC109C/TL072/	4
	4 CD4047/4017/4013/4011/741/2N5460/2N3906/2N3904/AD542J/1N751/	7
	2 ADC80/ADSHA5/UAF31/AD515/2N3704/7493/74121/LM339/7474/7486/	9
ELCOCI	1 AD210/OPA21/2N6073/2N2907/2N2222/1N4148/RL4510-50-120PTO/	5
DEID	1 CD4047/BC109/	2

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	3 TDC10075/5195/74F181/93S16/74S174/74F08/74S74/74F244/C67401B	9
PAIN	4 AD7506/MF6-50/LM339/LF353/CD4046/74LS169/74LS161/74LS109/	7
PAPERS	2 AD847/BC184/2N3958/	2
SIUP	1 HD618308/74HC75/74HC4050/	3
	4 NE555/2N3819/MPF102/2N3904/2N2222/2N3866/2N3906/CA3028/	4
	5 CEM3340/13700/LM324/UA741/TL084/CA3080/TL074/7810/1N4148/	9
HIKI	1 NE602N/LM386/	2
CIRCUIT	1 NE5532/XR4136/	2
DESIGN FEA	1 NE56787/	1
STSOST	3 NE5532/	2
HINTS & KI	1 NE2/	0
DEID	1 NE555/IRF730/VS847/C103/1N967/1N6449/1N4148/	4
HAHA	1 NE2/	0
HIKI	1 HEPR0170/NE2/	0
FEATURES	4 NE602/741/SBL1/MPF102/2N5179/2N5109/2N4036/2N3866/1N914/	5
RFCOST	1 NE64535/	2
PROJECT	2 NE555/TIL220/1N4001/	1
	1 NE2/	0
DESIGN ENT	1 WE32201/WE32200/WE32104/WE32103/WE32202/	5
	3 NE566/CD4017/CD4098/TL082/78L12/BC107/BC477/1N4001/1N914/	6
	1 NE592/BC109/	2
	2 LF347/4066/555/4029/	4
REPA	2 LF356/CD4051/	2
DENO	1 LF357/HAS1002/	1
AUHIFI	1 LF411CN/BF256A/BC639/BC556B/BC546B/1N4148/1N4002/	9
PROJECT	1 LF411/LM324/566/1N4004/1N914/	3
	2 LF356/74LS132/74LS112/FPA106/74LS86/	6
REEL	3 LF353/SD210/357/1N4148/	4
CITEAN	1 LF356N/CD4013/CD4007/	3
AIANCH	1 LF353N/LM311N/NE535V/DG300CJ/74132/SN74123/SN74121/1N4148/	7
FRENEL	1 LF353/2SK371/	5
IDDE	2 LF351/KM318/324/SW02/74C107/74C14/40106/4081/78L08/	5
	1 BFQ23/SL560C/1N4148/	4
DEAP	1 LF356/	1
SOSTSW	1 HFBR2524/7815/7812/7805/74HFL100/	4
	3 LF357/	4
	1 LF356/	1
LETTERS	2 LF411CN/1N5245B/	1
ARTICLES	1 LF357N/TLP551O/C2655/1S1588/	4
CITHDE	1 LF356/MC14016/	3
REPA	4 LF351/741/VCR4N/	4
	1 LF351/2N4392/SFH205/	4
OPCO	1 BF992/BFT92/BFR92A/	6
AUDIO	4 LF351/	2
	2 BFW61/BFW10/747/725/LM393/LM311/CD4007/CD4066/CD4016/	9
APPARATUS	1 LF356/AD535/UDTLSC5D/	5
	3 DGP201A/DGP508A/J230/OP27/J500/J507/2N4400/	6
DEID	1 UGN3503T/LM324/7474/MCT2/BT137/2N3019/7414/	7
DEID	1 LH0021/AD202JY/TL074CN/	3

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PAPERS	1 LH0036CG/LM318/LM107/DG190BP/	6
RFDEAW	2 LH0002CN/1N5711/1N914/	1
APDENO	1 TIP41B/MRD711/1N4002/	1
	1 SI8901/	1
	1 SI8901/	1
FEAR	2 PIC16C56HS/78L15/78L05/2N2907/2N2222/1N4148/	4
DRBO	1 TIP31/2N3055/2N2222/1N4003/	3
SPFE	1 MK3880N4/MK3880N6/Z80CPU/2764/27128/74LS245/74LS138/74LS123/	9
	3 SK3065/ECG222/1N914/7812/276-1152/	3
GEIN	1 MK1V135/1N4007/	0
	2 MK5009/LS7031/74F190PC/ECG9602/ECG74LS74/AD507J/AD544K/	6
PAPERS	2 SK2086/2N2222/1N4148/1N4001/NTE960/W107DIP5/	4
CQ REVIEWS	1 TK10420/TA75339/TC5029/BA526/TC5042/S2559E/MX315/UPD7503G/	9
THINK TANK	8 TLC555/741/4049/4N33/ECG5453/Q4015LT/2N3904/2N2222/1N4744/	4
KIRE	1 TL074/	3
DEFE	2 CLC401/CLC400/	1
ELECTROPHC	1 TLC272/40106/4067/4066/4051/4049/4040/4024/4013/BC327/1N4148	9
NODI	1 CL905L/	0
SHPA	1 ML741/	6
	1 TL071/2N5484/	2
	2 TL071/2N5484/	2
POSUBACH	1 TL431C/TIC126M/BC327/	3
FEATURES	2 ML2036/ML2035/74150/LM741/74LS93/74LS73/74LS32/CD4049/74LS08	9
NUEL	1 CLC4208JE/CLC400AJE/AD966858BQ/AD846JR/AD829JR/MC7908ACT/	9
REPA	1 TL081/741/4070/4046/	1
NUBO	1 TL084/	1
IDDE	1 IL300XC/OP97/REF08/1N4148/	5
FEATURES	1 TLC271CP/DP650/1N914/276-1122/	2
	3 LM324/LM741/	2
	1 LM741/LM556/LM319/2N2270/2N2222/1N914/	9
	2 LM382/	1
	1 LM747/LM308/LM741/BC148/1N914/LM556/	9
68MA	1 MM58274/H11F1/74LS374/1N4148/74LS244/74LS74/	5
PEPO	2 LM6361/2N3904/	1
DOSPRAMEA	1 LM733C/LH0002C/	2
COLO	1 LM339/74HC4016/74HCT154/HCT112/74HCT02/	6
SOLID STAT	5 VMP4/DS8866N/LM134/NSB3882/2N4403/NSL5053/SE9401/2N5457/	9
FEAR	4 LM324/LM311/LM741/74LS123/74LS74/7912/7812/7905/7805/2N3906/	9
	3 AM464-2/LF356/BD139/BD140/BC556/BC546B/1N4148/	9
	1 TMM2018D45/82S191/74HCT244/74LS244/74F374/74LS393/74HCT04/	7
	1 PM2202/	1
	1 LM3046/	3
IDDE	1 LM13600/	1
FACTCARD	4 LM317HV/LM338/LM138/LM238/LM329B/2N2905/2N3792/1N4002/1N3880	2
	1 MM5837/S2688/LF353/TL081/1N4744B/1N914/XC556R/	5
CITEAN	2 CM758-1/UA741/	2
ARTICLES	1 LM3578/LM13700/741/MJ2500/	3
	2 LM339/5369EST/ICM7224/FPT100/4518/4520/M5745/4027/4070/	9
TEUP	2 LM2577T15/LM2577T-ADJ/	1

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REVIEW ART	2 LM308/CA3140/UA741/BU105/50824350/2N3638/	5
BUILD THIS	2 LM3909/2N3906/2N2222/	3
	1 LM311/7408N/7432N/LM555CN/RL128/74123N/SD011-11-11-011/	3
BRCO	2 LM741/LF351/LF441/	3
ELCOCI	1 LM3900/TIP31/1N645/	2
	1 LM311/MRD450/	1
DESIGNER'S	1 LM339/7404/	2
	9 LM210/LM1458/TIS75/CA3080/LM741/TL082/TL083/CA3094/RL50/	4
KIT REPORT	1 TMS3899/CD4027/CD4060/1N914/1N4001/	3
	1 DM74S287/DM7474/DM7414/	3
	3 LM324/LM741/1N34/1N914/	1
DEAP	2 LM1851/RV4145/	1
ARTICLES	1 LM741/MJ11014/	2
IDDE	1 LM2905/LM3905/	3
	2 LM317M/082/A111/C373/4515B/4027/4047/4040/ZN425/	9
	2 HMS6116/2716/74LS32/74LS00/2SC945/	4
SOLID STAT	8 VMP2/DM7401/LM3900/VMP1/E231/VMP2/34011/2N4402/MPSU56/1N914/	8
	1 LM339/	2
BUILD THIS	1 LM3909/	1
TECH TIPS	1 LM1458C/4017/1N4148/	3
TECH TIPS	1 LM3914/40106/BC214L/741/4011UBE/4066/1N914/	9
NOTES	1 LM311/74LS74/8471A/74121/VR102/2N3439/IN914B/IN4005/	8
2 PARTS	2 LM3900/1N914/1N34/2N2222/	3
BUILD THIS	7 LM1875T/LF347/MN3101/MN3008/7912T/7812T/1N5400/	3
BUILD THIS	1 LM393N/7812/2N2222/NTE5332/NTE5882/NTE140A/1N4004/	1
ARTICLES	2 LM324/7401/IRF540/W226R7-5A1/1N914/	3
DEFE	2 VMP4/	2
IDDE	1 MM74C107N/2N6027/P13T1/	2
TENO	1 LM308/741/	2
QRP	1 LM386/LM383/MCLSBL1/	2
FACTCARD	3 LM331/555/4016/	2
RFFETE	3 LM1211/MV2109/	1
CIRCUITS	9 LM389/LM388/LM386/741/2N3704/2N3702/1N4148/	3
	1 LM311/4N37/2N3439/7474/74LS74/7406/	4
	1 LM324/BC547/BC548/BC549/	2
	6 LM11/OPA27/OP104/LM301/LM311/LF13332/ICL7106/4051/4066/4N29/	9
FEAR	1 LM317/	1
	3 LM339/555/LM317K/TIP29/4093/4081/4017/4027/4082/4049/4011/	9
	1 LM3046/	3
:	1 LM386/TIL81/TIL31/LM1458/LM324/LM339/TMS2516/SC01/CD40105/	9
IDDE	1 LM334/741/	3
NUEL	1 EMI9839A/	1
INNE	1 LM311/H13B1/	2
DRBO	2 LM3900/2N2222/	1
CORRESPON	1 LM13600N/	1
APPLIED ID	1 LM358/2A3726/TIC126D/4N28/2A923/1N914/2A338/	9
DEID	1 LM13080/1N914/	1
	4 LM318H/CA3091D/2SK18A/FM3954/2SK15/2N3819/	5
	1 MM74HC257N/CD74HC193E/DM74LS155N/SN74LS123/SN74LS85N/SN747C	9

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NUEL	1 AM685HL/VV101/	2
PAPERS	1 LM3524N/IRF540/SN2407/2N2222/	4
	1 2N2222A/HEP-S3001/1N5293/1N914/	1
	1 2N2270/1N914/	1
	1 2N2222A/2N3866/2N2270/2N4037/IN4003/HEPS3008/HEPS3001/	6
	1 2N3704/2N3703/1N914/MCLSRA1/	9
DEID	7 2N3906/2N3904/1N914/	2
COAR	1 2N2222/	1
FEATURES	1 1N34/	0
TECHNOLOG`	9 2N3906/2N3904/1N4001/	2
	1 1NA101/	1
DEID	1 6N135/6N136/6N137/BC577B/BC547B/IN4691/IN4148/	3
	1 2N3392/	1
ANDE	5 4N28/2N4275/2N3904/2N3055/1N914/	2
FIRST STEP	3 1N34A/	0
	2 2N3906/DAC08/	1
	2 3N138/2N3797/	2
	2 FND503/1N34/4044B/4511B/4510B/4072B/4049B/4012B/4528B/	9
	2 2N4416/MPF102/TIS88/2N3553/2N3866/1N4152/1N973B/1N4152/	5
	1 2N5777/	1
	1 2N708/BPW17N/HLMP1340/	3
HOME ENERC	1 1N5759/SC142B/1N5758/	3
RFDEFE	5 2N2222/	3
COAR	2 1N4004/NE51/	0
	1 VN10KM/	1
EXPERIMENT	4 2N4870/536/339/7404/555/7400/7490/7441/1N914/2N2222/	9
APNO	1 2N3055/2N1536/2N2706/2N2430/	4
	5 2N3819/MRF629/2N5945/MRF641/1N34A/MPS3904/2N3866/1N4733/	4
	1 ZN1034E/ZN425E/741/	5
NOEX	1 SN72741/BL1670/	4
PROJECT	1 1N4001	0
	2 3N211/MPS918/2N3866/6146B/276-2038/276-2011/276-2045/	3
BEGINNER'S	2 2N4416/1N914/MPF102/	1
	5 2N5457/2N5460/2N3819/VN67AF/417/4011/2N2529/CV1C595/2N3704/	9
	4 UNL2003A/LM339/LF351/TC5517APC/X2212/ER1400/2817/74LS174/	5
	3 SN741C/MC.1456/ICL8048/NE550/L005/WO4/	3
	1 2N3703/HEPS0019/276-116/NE2/1N56A/HEPR0052/1N56A/HEPR9134/	6
BEGINNER'S	1 2N5179/2N5109/	3
IDEAS FOR	1 SN7408/SN7486/SN7476/	4
CIRCUIT SP	1 2N3055/BT149F/BZX61C3V3/BZX61C6V8/TIL209/	2
	1 2N3904/2N3906/	3
RFDENO	1 2N918/	2
	5 4N28/2N4275/2N3904/2N3055/1N4148/1N914/	2
QRP	1 2N5179/2N3905/2N2222A/	2
EXPERIMENT	3 VN10KM/4066/VN67AF/	3
	1 2N3904/BYP62-1/XC880C/	1
COAR	1 2N3904/2N4124/	2
IDEAS FOR	1 2N3958/HA909/VTB9413B/	2
WEEKENDER	1 2N2222/276-2009/1N914/	1

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	6 INA102/MPC801/OPA21/MPC16S/MC14538/D6201/OPA606/MPC85/SHC298	6
PAPERS	1 1N957B/1N4148/	0
	2 1N4007/	0
THEORY	2 1N914/	0
ANTENNAS	1 1N34/	0
HOBBY CORN	1 2N222/	1
SPOTLIGHTI	1 DOC386H3/DOC386MC/	1
	1 MOC3011/2N5574/2N4871/1N4744/1N4004/	3
LETTERS	1 MOC3031/1N4003/	1
DEAP	8 OPA177G/REF102A/REF101K/REF101J/OPA77G/REF10K/REF10J/	2
INMENUSP	1 XP2041/LH0033/	3
TENO	1 OP27/TL062/BB3656/	3
DEFE	2 OPA627/OPA111/UV100B/	1
	1 FPT100/	1
QRP	1 MPF102/1N914/	1
	2 OPB710/LM358/ADC1005/74LS373/8052AH-BASIC/	5
DEID	1 MPF102/1N914/	1
REPA	1 HP4207/	0
INTERNATIO	1 SP5051/SP5050/2N3904/	2
	1 FPT100/	0
DESIGN ENG	1 UPD765/UPD8257/UPB8212/	3
	4 MPF102/2N708/74LS192/74LS175/74LS247/5082-7731/LM323K/	9
	1 FPT100/	1
EVAU	1 MPSU55/MPSU05/MPSA05/MPSA55/MJ491/MJ481/2N3906/2N3905/	8
	1 BPW50/LF347/	1
	2 DP8421/74LS245/74LS138/7406/74LS540/74LS541/74ALS32/74ALS00/	9
NOTES	2 OP27/LF356/1N4148/	3
NOEX	1 BPW21/1N4148/	0
SPCO	1 OP07/ECG778A/ECG184/PIN3DP/MV5054-3/	7
TECHNICAL	1 SP8793/MC145146/2N5031/BB105B/	3
CQ REVIEWS	1 UPD7801G/UPD549C/M5078/M54929P/M54466L/UPC577H/3SK74/7404/	9
CIID	1 OP17/BCY78/	1
PROJECT	3 OP07C/TLC251/TL064C/LM358/LM324/4046BE/UA741/ICL7660/UA78L05	6
FEATURES	1 MPF102/276-2062/40673/2N2222/276-2009/	3
DEID	1 OP44/TL071/HCPL4562/700/2N2907/2N2222/UA431/	9
IDDE	1 RPT81/CMP01/	2
	1 XP2020/	1
DEID	2 OPA602/	1
	1 OP07/TL0741/IH5012/1N4154/	4
PAPERS	1 NPD5564/	2
RADESY	2 XP2020Q/10103/16F70/11C70/1688/SP9687/BFT66/	9
RENO	1 OP07/MPS3704/	2
DEID	2 MPSU05/H11AA1/1N4001/	3
INMENUSP	1 XP2312B/BF472/BF471/ZF6.2/1N4146/	9
DESIGN NOT	2 HP2-4207/7490/74123/5369/555/7492/7442/7446/LM317HV/ECN055/	9
	2 GP81B/OGP76-45/C137PB/1N4005/	3
ANAP	1 XP2020Q/	1
PRODUCT TE	1 TPV508/	1
	4 OPA404/1N4154/	1

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	3 MRF150/LM358/LM317/2N2222/1N4148/	9
TEUP	4 XR2209/XR2206/ICL8038/1N457/	1
	8 XR2206/741/7413/LM331/LM308/TIX300/2N3819/BC178/BC160/2N3708	5
	2 IRF511/276-2072/276-1144/276-1101/276-1123/276-025/	1
	1 TRA1000/TRA401/MVL406/BAW62/	3
FEAR	2 XR2209/2102/4024/74C923/4011/1408-6/741/7805/7905/1N914/	8
COAR	1 ERZ-C140DK201V/ERZ-C140K201U/N2H/	0
PART II	1 IR160PFT/IN1190/IN3295/	1
	1 LS21/LS11/	2
DESIGN ENT	2 ISO102/ISO106/MPC8S/PWS740-3/PWS740-1/PWS740-2/	5
DEFE	2 3SK87/	1
APSU	1 CS235/	1
CICICE	2 NS455/74LS240/74LS373/74LS138/74LS374/74LS154/MC1488/MC1489/	9
COAR	1 LS7210/TIP42/MJE34/TIL414/1N914/	4
SCIENCE	3 DS912SM56/DS2106SU36/BK472/BK7703C/GXF500/	0
CQ REVIEWS	1 2SK241/HD44795/2SC2407/TC4089/2SC2458/TA75383/UPD571C/	9
CQ REVIEWS	3 3SK74/2SK125/2SB562/2SC945/2SC2053/2SD661/2SA1015/UPD650/	9
APID	1 HS7584/SP2510/	5
DEAP	3 ISO113/ISO107/ISO103/XTR101/RCV420/INA110/VN2222/2N2222A/	4
	1 BSV81/	1
	1 MSD2/	0
HOTHWO	1 2SC1815A/2SA1015G/	3
DEBR	1 SSM2044/OP249/	2
	1 3SK73/2SK241/2SC2995/2SC2669/1SV55/1SS110/	5
DESIGN ENT	4 LTC1043/LTC1052/LT1013/LT1004/LT1056/2N2907A/	3
SEDE	1 BTR58/	1
INPOCOSYDE	1 STH10N50/BYT16P400A/	2
DEFE	7 LT1223/LT1222/LT1220/LT1194/LT1190/LT1006/AD565A/EL2004/	9
	3 FTP100B/2N3646/2N3906/2N3859/TMS9980/74LS191/74LS157/	5
	1 MTH13N50/MTH35N12/MPSA29/MJE13009/MJE5820/MC14050/MJE210/	7
TEUP	2 LTC1060/LTC1062/LTC1052/	3
IDDE	1 LTC1150/LT1097/2SK147/2N2907/	5
DEID	1 MTP3055A/2N2369A/2N3904/1N965A/1N914/	3
DEGU	5 LT1022/LT1013/LT1012/LT1055/LT318A/LT1010/2N5415/2N3440/	7
DEFE	4 MTP3055EL/74LS26/74HC04/74LS04/74F04/MC14049UB/1N914/	2
ATOP	1 HUV4000B/OP07/ADC80/	1
	1 MVL407/MC10125/74LS164/74LS93/74LS74/74LS11/74LS04/	9
APNO	1 UV100/CA3140/	1
ENTERTAINM	1 CX899/CX890/CX7914/CX4505P/CX7940/	3
COAUMECO	2 CXA1076AK/CLC404/AD98867/AD7226/LF412/2N3906/100114/	6
	2 HY13/E180F/LM555/	2
	4 AY5101-2/8008/8212/8205/2708/MC14411/74L121/74L74/4016/1489/	9
TECHNIQUES	2 4-400A/	1
TECHNIQUES	1 4-400A/	1
ENNO	1 8085/8755/DACO800/	3
DESIGNER'S	1 4013/4081/4572/MDA100/MPS5172/	9
	2 40M21PCEN/SG600R21/	1
	7 4006B/TL082/LF353/CA3080E/LM307/2030/LM394/MM5837/ICM7555/	5
	1 4040B/LM339/4066B/7402/1N251D/74LS14/2N706/	6

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APNUPH	1 5082-4207/	0
FEATURES	1 70L7/	1
	3 8085/27128A/27513/27011/27512/74S373/74S139/74S74/	9
ASK R-E	1 4049/	1
	2 80186/29843/AM29867/AM29848/AM16L8/AM7970/AM29827/AM29863/	8
FEATURES	3 2064/74LS244/74193/74161/74151/555/74LS20/74LS00/	9
COMMUNICA	1 40601/40673/2N2222/	2
	1 50MV120/	0
APPARATUS	1 6032/2039/2040/	3
CIRCUITS	1 4069/1N914/	1
FEATURES	6 8044/LM2941T/7812/BS170/PN2222/NTE123AP/MV2104/MV2101/MU209/	3
	4 709/1N4148/1458/2N5655/MPS3393/	3
SPSEHOAU	4 80C52BASIC/2764/8255/MAX232/XE0002/SSI204/NEC2506-4/SA5090/	8
COMPUTERS	5 8085/8355/8155/8212/74LS244/74LS240/74LS156/8279/LM3900/	9
APIDLEED	1 11DQ04/	0
TENO	2 L144/BC109/1N4148/	2
	5 4193/CD4017/4046/DAC88/DAC76/DM2502/LM324/LM311N/7486/	6
CIRCUITS	9 C106D/C206D/2N2646/1N4001/1N4004/	2
	1 710/BC109/2N3055/	9
TENO	1 L141/	1
HARDWARE	5 81LS97/74LS374/74LS175/74LS32/74LS30/74LS14/7812/7805/7905/	9
APID	1 T1N6/ROL02/IN4007/	1
ARTICLES	1 F1094/	1
SCTERE	1 3140/741/74121/	4
PAPERS	1 K13YD5/KT3107/KT3102/K303/	9
PROJECT	3 4136/TL072/7815/7915/CLM6500/2N3904/2N3905/1N4148/1N4002/	9
	1 F100107/11C06/F100114/WF36A/	3
SCTERE	1 3140/	2
DEID	1 8251/FOE380B/FOR361B/2N2222/	4
BUILD THIS	6 V25/74ACT574/74ACT521/74HCT245/74ACT163/CY7C128A/MAX232/	9
ORAR	2 8253/74LS138/AD567/LH0070/	3
	2 32DV01/4528/41256/LM386/1458/7805/2N3906/	5
	1 12X4/1N4003/1N4004/T13-4/	1
GOID	1 723/2N3055/	2
	1 12AX7/	2
REPA	1 C20A1/2N5484/1N4007/	2
APNO	6 82510/1489/1488/PM7022/TL497AC/LT1085/LM317/LM2391CT/BUZ11A/	4
	1 52B13/74LS138/74LS123/74LS04/	4
HIENPHIN	1 32/27/38/121/	4
	1 8373/8245/8244/8374/	5
NOTES	5 13741/741/LH0032/FW400/LM340T15/LM331/	2
	1 733/	2
	1 234J/40J/LM399H/	3
READOUT	1 74ACT8999/74ACT8994/74ACT8990/74BCT8373/74BCT8245/74BCT8244/	8
	1 74LS244/8304/74LS374/74LS138/	6
IDDE	1 741/2N2222/	2
DESIGN ENT	1 74ALS138/74ALS245/82786/80286/	4
PAPERS	3 741/LM334/2N3906/2N3904/2N2270/TIP140/VT50L/HLMP3301/CMD3350	4
	3 741/LM201A/	1

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	2 741/7413/MC6821/ZN427E/74LS72/7474/	4
	1 741/	1
CIID	1 741/BC140/2N3055/1N914/	6
	2 747/LM3911/1N3064/2N3904/	2
	1 74164/7493/7414/	3
PRUP	1 1464/2N3904/2N3906/VN1210/VP1210/ZVN1209/ZVP1209/	6
ACBEHATA	1 747/	1
CODI	1 74LS245/74LS175/74LS74/74LS08/74LS00/74LS32/	6
COMMUNICA	1 74S74/74S151/74161/74154/74160/74S10/74LS113/9322/7402/7414/	9
	1 741/310/	3
ASK BYTE	1 7432/1N914/	1
SINO	1 7495/7485/74159/4520/XR556/HLMP1300/	5
	4 74LS273/IMS1400-45/74LS169AN/74LS242/D2147H1/82S83/INS8255N/	9
	1 741/RC4558/	1
DEIDFEAM	1 74HC5043/	1
CIRCUIT SP	1 74LS367/74LS30/74LS04/	3
DESIGNER'S	1 741/	1
	1 74LS164/74F74/6349/74LS125/74LS00/74F32/74F10/74F04/	8
DEID	1 74HC374/27C64/74HC74/	5
PRRE	1 74HCT251/65C816/8530/NE558/74HCT245/	3
PROJECT OF	1 74193/74154/74147/555/7404/7400/74145/741/LM339/	9
ENGINEER'S	1 74123/74151/4004/74L04/	5
	1 74LS85/74LS193/555/7805/2N3904/MAN84A/1N914/	8
	1 741N/748/710/LF398/ZN448/74121/2N3819/	7
PAPERS	1 74121/7413/	3
	1 741/2N3055/2N3053/1N4002/	4
	1 741/	4
	4 741/BC148/BC157/	3
APID	1 74HC4053/4053B/4069UB/	2
FEATURES	2 74HC132/7805/RS276-1770/	1
	1 1425-01/LF356/1321/3508J/HA2627/	4
	2 741CPI/2N5109/2N5583/	5
	1 741/	2
FEATURES	2 74HC161/74HC163/74HC04/78M05/2N2219A/2N3906/2N3904/1N914/	4
	1 1494L/UA741/MPF102/	5
	5 74173/7496/7476/74111/74157/74100/7485/7483/7486/74154/7472/	9
	1 74191/7474/7400/	3
DEAP	2 1486/IDT71589/IDT7174/74FCT823A/74FCT374A/74FCT163T/F74/	5
4 PARTS	2 741/	1
RETU	2 7414/7400/7490/7474/3341/7408/74164/	9
APNO	1 741/	2
MISP	2 74LS157/74LS283/74LS02/74LS14/	9
FEATURE	2 74FCT521/74F157/74FCT241/74C341/80376/82370/27C203/82510/F32	7
APTEPH	2 741/MFOE71/2N3904/MFOD72/2N2222/	3
FEATURE	1 74LS245/74LS244/74LS21/74LS08/74LS02/74LS04/	7
	1 14572/4050/	2
MASPED	2 74LS651/74LS374/LS161/2732/74F521/PAL16L8B/PAL16R8B/	9
AMSC	1 741/	2
SCNO	3 555/741/	1

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LETTERS	1 555/7404/1N914/	2
TENO	3 4543/74LS192/TIL139/4011/40106/4001/4049/4077/	7
BUILD THIS	4 555/74C926/NSB5881/4011/2N3904/7805/1N4001/	9
THINK TANK	5 4511/4584/4193/4026/4017/4013/74LS93/74LS75/7447/74C08/7805/	5
	1 95H90/74LS151/2N5179/1N914/2N2907A/2N5771/	4
	1 558/	1
	1 555/276-1723/	1
POEL	1 555/74123/7476/	3
ARTICLES	1 3584JM/	1
CIRCUIT SP	1 555/1N4148/	2
CIRCUIT SU	1 555/BZY88C9V1/BFY51/1N916/MR751/MJ2955/1N5401/	8
COMMUNICA	1 555/4528/4013/4024/4066/1536/2N3904/	8
73SPPR	1 555/C555/LM386/MC7812/2N2222/2N2904/2N3904/2N3053/4001/	9
DENO	1 4511/FND500/4508/4049/4017/4518/555/2N2222/1N914/	9
	1 555/74121/4011/741/1N4148/	6
	1 555/1N4148/	1
	1 356/	1
CICI	4 555/2N3055/2N3906/2N3904/1N4003/NE2/	2
SUMOTE	1 555/	1
	3 7581/308/DM8130/6522/7421/7425/319/7400/	4
	1 R5614/LM308AN/LM311N/74LS74/LM555/	5
	1 3554/OPA104/TA3C/	0
ARTICLES	6 566/MC1458/UA741/BFW10/2N3440/2N2906/BC109C/SK100/6C4/SK100/	5
ORAR	1 566/CA3140/TI081/741/1N914/	6
	1 3626BP/MC1458CP/LF398H/DG304CJ/	5
	2 7621/7611/BC477/BC107/1N4148/	4
	1 16F60/	3
OPINIOBE	2 U733/U760/74393/74LS374/74LS244/74190/74123/74S40/2N5769/	9
FEATURES	2 8749H/SSI202/LM555/LM358N/4098/4050/7407/LM7805/2N2222/	9
BUILD THIS	2 8749/LM393/LM324/LM340T5/LN524RA/74LS145/2N2222/2N2907/1N914	9
EDSEICDESE	1 2716/CD4042/CD4040/CD4011/CD4016/	7
CICICE	2 8751/74LS245/7407/74LS21/2N4401/74LS241/145406/	8
	1 27C64/74HC374/74HC14/2N3906/1N4148/	5
	1 1702-01/1N48/	2
	1 U741/2N2369/	2
	4 2817/74LS244/8T97/74LS32/74LS74/74LS09/TL497/2N3553/GEZD22/	9
DEIDFEAM	1 6805P2/LP2950/MC34064/VP2410L/VN10KM/1N914/	6
	1 7805/	1
COAPNO	1 68008/6821/AD574/AD565/	6
	2 6821/6802/AD7574/1458/LM324/LM556/74LS00/74LS04/	5
	1 78S40/TIP34/1N4001/	2
	6 3825/6320P/LM293/2525/MC3423/IRF640/4N26/IRFD9123/IRF540/	7
PROJECT	2 6821/6820/8255/8052/74LS373/74LS273/	5
APPLIED ID	2 78L05/79L05/	2
PRPR	1 68000/8530/6522/26LS32/26LS30/AS253/LS257/LS393/3440041/	7
FEATURES	1 Z80CPU/8255/2661/8291/74138/	6
TEAD	1 T9000/T400/T225/C104/C100/	9
	1 592/CXA1016P/CA3080E/HQV802/	3
CIRCUIT	1 7915/7815/1N4003/	2

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NUDAAN	1 CA3046/	1
	2 CA3140/AD574/6522/AD582/74LS123/	5
	1 MAA502/UA709/	1
	1 CA084/IN4007/	1
	3 DAC20/CD4508/OP15/OP02/CD4066/	4
APNO	1 MAX261/MAX262/7805/1N4148/	2
ARTICLES	1 CA3140/4053/	2
APSU	2 MAX646/MAX644/1RF540/1N5817/	2
DECA	1 CA3189E/BF594/	3
	1 SAA1027/	1
	6 TAB1042/LM339/74148/TAB1043/2N3819/LM319/VN88A/74LS123/BB104	5
COLUMNS	1 MAX690A/MAX692A/	1
TECHNICAL	1 TA8610N/TC9016N/TC9017N/	3
BEGINNER'S	2 CA3046/MC3346P/1N5251/	1
CITHDE	4 UA741/CD4016/	5
	1 UA733/MC10125/SN74LS221/SN74LS74/SN74LS15/SN74LS165/1N4150/	6
DEID	2 HA2547/	2
	1 UA741/	1
NOTES	1 UAF31/	1
INNUSP	3 UA741/BFR81/BFR41/TIP32/TIP31A/1B40K10/TIL209/IN825/IN4148/	4
	1 UA747/	1
ARTICLES	1 MAX274/	1
	4 MAX644/1N5817/	1
	1 CA324/UA741/2N2222/	3
	1 CA3140/	2
ENGINEER'S	1 CA3031/CA3130/	2
PRUP	1 MA7180/MA7188/MA7186/MA7190/	9
	3 UA741/MC1723/2N3055/MJ2955/SC157/BD139/BD140/BDX53B/BF457/	9
HAHA	2 MAX455/MAX452/	1
BUILD THIS	2 LA4460/2N5088/1N5400/1N4739/	2
BUILD THIS	2 CA3140/TLC555/4017/4011/LM7812/1N4148/	9
CIID	1 CA3140/741/BF245A/BAY38/	8
BEGINNER'S	1 CA3028A/MPF102/MC1350P/MC1306P/2N2222A/1N914/	6
	2 CA3100/LM741/LF351/LM319/DAC0800/DM2502/LM555/LM308/TIL111/	9
	1 UA740/UA301/SHM-IC1/	3
	1 HA5195/	3
	2 6AQ5/6AQ5A/	1
	2 CA3140/7805/	3
FEATURES	1 CA3240/SK7697/1458/1N4001/276-1101/	1
SOSTDE	3 CA741CE/CA3306/SG1524C/	2
	3 6AK5/6AQ5/12AT7/6X4/	6
BUILD THIS	5 LB1009AE/SSI202/SSI75T202IP/8256/SSI980/SSI75T980CP/79C30/	4
COAR	1 TBA820M/	1
PROJECT	1 TBP24S10/74LS257/74LS393/74LS139/74LS122/74LS245/4416/	9
TEUP	3 PBL3717A/LM621/	2
DESIGNER'S	1 BB3500B/INA101/	2
TEUP	5 PBL3772/SG3272/UDN2936W/TDA5140/MC33035P/MPM3003/MC33039P/	3
STHALA	1 SC01A/74LS374/74LS04/LM388/1N914/	4
FEBABOMO	1 ICM7555/	2

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COLUMNS	1 MC10322/LM385-1.2/	1
IDEAS FOR	1 MC14015/MC14001/2N3906/1N4148/	3
NODI	2 RC4151/LM331/LM307/	1
	1 MC14008/	1
TEUP	2 ACP10010/UPG100/UPG101/	1
	1 MC14046B/74LS169/MC14163/HN462732G/CD4073B/CD4071B/74LS85N/	9
	1 3CX400U7/1N2071/	1
NUEL	1 4C35/	1
ALL ABOUT	2 MC1330/MC14015/MC14013/MC14040/MC14011/MC14072/MC14081/7812/	9
	1 MC1741CG/	2
BENCH	1 UCN5801A/74HCT245/74HCT174/74HCT138/PN2222/	9
POSUBACH	3 MC34064P/IRF9530/BS170/BUZ10/BC547B/SB251/BYW29-100/	4
ARTICLES	1 MCP40/	0
APPLICATIO	1 MC1383/	1
	4 MC3403/	1
ORAR	1 ICM7556IPD/LM311N/TL082CP/2N2222/IN4740A/1N914/	4
SEMICONDU	1 UC1846/2N4150/UES1402/1N4245/	3
THINK TANK	9 ICM7555/LF351/BC179/BC109C/BFY51/TIP41A/2N5777/ORP12/BZY88C/	4
SPCO	1 MC1456G/1N456/	2
DESIGN	1 SC11313CN/74LS165/4060/TL082/74LS74/	8
APPLIED ID	1 BCY71/BC109/	4
NOTES	1 BC547/	2
CQ REVIEWS	1 3CX800A7/1N5404/	2
	1 BCW32R/BCW30R/306-083/	6
INMEHIENPH	2 MC10216/741/2N5191/2N3906/2N3904/BFY90/1N4151/	5
TENO	1 MC14520/MC14541/MC14025/MC14538/2N4141/2N4143/	6
ELELSYSE	2 XC68HC11A8FH1/74HC373N/74HC151N/43256/TLC27M4/LM2931-5LP/	5
FEATURES	3 ECG127/ECG153CP/ECG179MP/MPSA42/1N4007/1N4002/1N914/	2
APID	1 BCY59/BCY79/IN4148/	9
	1 MC34119/	1
SHPA	2 AD7574/AD558/2N4351/2N3906/	3
DESIGNER'S	1 AD536A/AD534/TL071CP/	4
IDEAS FOR	1 CDP1868/CDP1823/CDP1802/CDP1853/CDP1852/	9
RFCOST	1 AD9002AD/AD9002BD/AD9610/AD9685/HOS200/	3
PAPERS	4 ADC0808/DAC0831/NE555/LM1458/74LS138/7490/7404/7400/C1308K/	6
	1 AD45J/1P28/1103/VR12B3C/	2
	1 AD523L/	2
	1 AD582/AD561/LM324/4040/4528/LM3302/LM741/	9
ARTICLES	1 AD528J/40J/	5
	1 AD611/	1
	2 TDA2030/5534/	2
INMEHIENPH	1 AD846/HA2425/4053/	3
	1 ADSP1008/74S158/74S373/	4
	1 CD4051B/7490/VN67AF/LM7805/2N2222/	7
FEAR	3 HD64180/62256/27256/8255/ADC0808/AMPAL22P10/NMC9346/MAX232/	8
NOTES	1 AD532/	1
	1 AD530/BB3501/SN72741/UPC55/MD5C3/	3
	2 AD534J/OPA128JM/	9
EXCO	1 CD4013/CD4011/	3

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APTE	4 AD515/CA3140/741/2N2222/1N914/	4
NOTES	1 AD603L/AD530J/AD45J/AD40J/741/FTJ1100/1N821/1N714/1N4148/	9
DESIGN	2 AD524/AD624/74LS138/7407N/2N2219/AD581/ICM7226B/ADVFC32/	3
REPA	1 AD7521/OP77/OP15/	6
	1 WD76CDLP/WD76C30/WD76C20/WD90C61/WD90C20/'151/32/80386SX/'04	7
	1 AD311/AD581/AD590/	2
	1 AD311/AD590/AD581/	2
	1 AD311/AD581/AD590/	2
	1 ADM501D/	1
PAPERS	2 TDA2030/7650/BC109/2N2905/J112/1N4148/	5
	2 AD712/AD711/	2
	2 ADO45/2N5777/2N5681/	3
NOIORA	2 NE5532/AD736/	1
ALL ABOUT	1 NE570/	1
	1 NE5520N/TL084/	2
	1 NE555/2N3904/7400/	3
COAR	1 NE602/MC1350/LM324/LM386/2SC2570/2N3904/BB405/BB505/1N270/	6
APID	2 HEF4538/HEF4528/NE5512/BC550/	5
	1 HEF4015BT/HEF4093BT/HEF4521BT/HEF4538BT/BPX81-3/	4
FEATURES	2 NE5532/NE5534/	6
	1 NE555/LM301/LM358/78L09/MPF102/2N2222/2N3553/2N3053/2N3906/	9
	2 NE592/AM685/MC10216/1N4154/	2
ARTICLES	1 EEV-CX1535/	2
CIID	1 NE564/4027/4066/LM339/	4
ENRE	1 NE5534/	1
CONSTRUCTI	2 BF245A/BC108C/BC109C/BF180/BZX61C9V1/OA91/1N4148/	4
	2 LF355/CA3080/741/MC14011B/MC14066B/3668/	9
TEME	2 BF245C/1N4001/	1
	1 ZFM4/CLC130A/HLP1600/	1
PAPERS	1 BFR91/BFY90/2N3906/2N3904/	6
PROJECT	3 LF353/TL064/4011/4016/LM3915/4017/4070/4006/2N3904/1N4148/	9
	1 LF356/CD4047/TIP120/LM317LE/1N4004/1N4001/	6
	2 RFP10N15/UES1303/	1
	1 LF351/	2
A=	1 LF356/	1
ENGINEERIN	2 LF351/BC548/BC558/	3
INCO	2 TFA1001W/UA741/LM317/	3
	3 VFC32KP/5108/LM324/2N2222/6BK4C/NIL81/7812/TIL31/1N4146/	8
	1 BFY50/	1
	1 LF356N/SN7475/	2
DECA	1 LF354/E174/1N914/	2
APPARATUS	1 SGA301/OP07/BC108/BD136/BD135/1N827/	5
	1 5GOP07/	2
ARTICLES	1 TG70/TG50/TG5/DOG31/DZG2/BZ1C13/	8
	1 SG600R21/	1
	4 LH0032/OP17/LH0033/SD210/SN825123/R5601A2/DS0026/74F175/	8
	2 LH0032G/LF356/ECG506C/NE529/MC1496L/1N4742A/1N914/	4
	4 LH0033/OP03/1651/10H136/CX20052/10H130/10H117/67558/7060/	9
	1 AH0134/CA3140/LF351/LM310/LF156/	6

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PAPERS	1 HH106/DS113/JH131/CD50/DC2000/	5
SHPA	3 AI5104-5/TL062/	1
PRODUCT DE	2 TIP29/2N3055/TIP30/MJ2955/1N914/	4
EDITORIAL	1 TIP31/7404/	2
	1 MJ3001/BC212/BC187/BT152/1N4148/1N4007/	8
	2 MK3881Z80PIO/4043/74C923/74LS374/MC14511/DAC0806/LF353/	9
	3 SL565C/MVL100/2N5771/IN4148/SL360C/10105/BF480/BC327/	4
DATA BRIEF	2 SL6270/	1
CONSTRUCTI	3 TL074/1N4148/2N2920/LM394/3086/	1
	6 TL074/4059/4046/4518/MF10/4001/4024/78L12/4013/2N2905/2N2219	9
INMEHIENPH	1 TL074A/TL064A/DG508/BSR58/BCF30/BAV99/BAS16/	6
ARTICLES	1 TL071/	1
	1 TL071/TL072/TIL81/1N4154/	2
	1 TL084/SPD110/	1
GEIN	1 TLC555/232269190001/	1
BUILD THIS	1 TLC555/2N3906/2N3904/1N914/	4
	3 TL072/LF353/2SC2578/2SC2837/2SC2675/2SC2591/2SC1567/2SA1186/	9
GEIN	1 TL071/4070/4044/4011/1N4148/	6
DEID	1 TLE2037/	2
	1 TL082/LF13202N/LM311/SN74123/	5
	1 TLC272/386/	2
ARTICLES	1 CLC420A/LH0063/SPOT9DM1/	4
	1 TL071CP/1N914/	1
HIENPHIN	1 SL560/10102/2N5771/2N5770/1N4532/	6
	1 TL074/ECG238/ECG525/2N6045/4049/NE555/2431053/	6
LEED	1 ML741/	1
	1 TLC555CP/	1
	1 TL071/	1
STATE OF S	2 LM35/LM385-2.5/LM34/LM3914/	3
NEWS	1 AM93422/AM29516/AM29501/AM29520/AM25S374/AM27S181/AM27S35/	6
IDDE	1 LM2935T/CD4541/2N3904/	3
PROJECT OF	2 LM747/MC1458/LF353/1N914/2N2222/1N34/	2
DESIGN ENT	1 LM6264/	1
QRP	1 LM78L08/	1
SHPA	3 TMS320C25/DAC-HK12BUC/ADC80AG/5764/74F374/LF356H/SHC5320/	9
	1 TMS32010/8255/74LS245/74LS138/	5
PEPO	1 LM627/LM385-1.2V/1N914/	1
COAR	1 LM741/LM386/2N3904/1N914/1N60/	5
COAR	1 LM386/	1
GEIN	1 LM741/CNY17-2/BC327/B40C1500/1N5408/1N4148/	4
SIPR	6 TMS320C10/80C31/DAC0800/AD7575/82C53/62C64/27C512/MAX292/	8
	6 LM339/IRF610/VN66AF/ZTX314/ZTX302/TIC126M/ZTX451/BZX61/7915/	3
	2 LM324N/2N3646/2N5194/2N5191/	5
	1 LM3900/MCT2/T1L111/CD4520/CD4020/CD4013/1N4148/1N4002/	5
QRP	1 LM3914/7805/1N5240/1N4001/	2
CIRCUIT CE	2 LM741/CD4011/CD4024/CD4051/CD4066/CD4049/2N2222/MC1458/	9
ASK BYTE	1 LM386/SC01/74LS367/74LS123/74LS75/74LS02/7416/2N2222/	9
WEEKENDER	1 LM358/1N914/1N4148/1N4002/	1
	1 LM358/1N914/	1

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BUILD THIS	4 LM3914/LM2917N/14553/74C48/74C161/MM5369/4011/2N3904/4001/	7
LETTER BOX	1 LM324/4148/	1
ENHANCING	2 LM358/CD4060/MOC3010/276-134/7812/ECG5635/VN0300/MPSA56/	9
	3 LM318/R955/2SK646/2SK310/2SJ117/74F04/	3
IDDE	1 LM324A/CD4049/MC14049/	2
APNO	2 LM2577T-ADJ/LM2575T-ADJ/1N5821/	1
DEBR	6 LM723/SL560/TLC27M2/1N4148/BAR28/	1
ENGINEER'S	1 LM723/	1
RFCOST	1 UMA1000/83C552/TDD1742/UMA1010/UMA1012/NE5750/SA5750/NE5751/	5
DESIGN ENT	1 LM621/	1
APID	2 LM339/LM393/	2
NOTES	2 LM308/CD4006B/LH0022/CD40II/2N5193/2N5190/2N3904/1N4148/	9
APNO	1 LM741/2N3055/2N2955/2N3906/2N3904/	8
CQ REVIEWS	5 LM3914/MR508/MJE520/MPS6514/3CX800A7/1N4738A/1N5408/1N5401/	5
SINO	1 LM393/TIP47/2N2907/2N2222/	4
PAPERS	4 AM6012/OP77/OP07/AD7542/AD7548/REF01/ZN0540L/SD1100/	6
	1 LM723CH/2N3819/1N4001/	4
ENGINEER'S	1 LM384/1N4003/LM78L15A/LM79L15A/	4
	3 LM310H/UA715/LF356/234J/	4
INSTRUMENT	3 LM308/LF356/	1
ELNO	2 LM3909/1N914/	1
ARTICLES	1 LM2907N/CA3140/	3
COAR	1 LM2931Z5.0/LM324/2N3055/KC001N-ND/	3
DEID	1 TMS320C2X/MT5C1008/CY7C132/GAL16V8/	6
FEAR	1 LM7905/LM317/	2
FEATURES	1 LM386/IRF511/276-2072/2N2222/276-2009/1N4744/1N4001/1N270/	6
TECHNOLOG`	1 LM324/MAC36-6/S320/IN483/IN645/2N2907/IN965/	3
	1 LM733CH/AM685HL/2N709/	3
ASK BYTE	1 LM741/	2
	6 LM339/IRF610/VN66AF/7815/7915/ZTX302/ZTX314/ZTX451/TIC126M/	3
TECHNOLOG`	1 LM339/LM7812/2N3906/1N4002/	4
CIRCUITS	2 LM379/	1
DEAP	2 TMS320C10/TLC0820/TLC7528/74LS393/TMS27C292/74LS138/74LS465/	8
REPA	2 LM1498/LM311/8212/LS393/LS221/LS132/7474/LS08/MPF102/1N914/	8
	1 LM358/	1
LETTERS	1 LM386/	1
AIANCH	3 LM307/LM311/MX808/7486/7475/74121/7402/TLO81/IN3366/	6
	3 LM311/ICL7667/MC14528/CD4001/SMP60N03-10L/SMP60N05/HCPL2211/	5
ARTICLES	3 AM685/74192/74151/74121/7490/7473/7442/7420/7408/7400/74S00/	9
WEEKENDER	1 LM383/	1
POEL	2 LM318/LM311/TL082/4030/4016/4013/SN7493/SN7485/SN7474/SN7473	9
	4 LM358/ICM7555IPA/NEO2133/9002/2N2222/	3
FEATURES	1 LM555N/2N3906/2N3904/1N4148/1N4002/	5
ENGINEER'S	1 LM340-06/LM320-05/2N2219A/2N2907A/	5
NEFR	1 1N23/	0
	1 1N191/	0
ADELSY	1 2N5771/2N5770/	8
FIRST STEP	2 1N34A/1N67A/	0
TECHNICAL	1 2N4036/2N2102/2N1711/	2

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	2 1N914/276-1122/1N34A/276-1123/	0
	2 2N3053/	1
MATH'S NOT	2 1N4002/G22B/2N3904/2N3053/MJ3001/	4
QRP	1 1N758/	0
	1 3N82/7307/4385/CR110/R1173/	3
	1 SN74121/3140/LM311/SN7476/DG172/	6
AUDIO, SPE	1 2N3054/	2
	2 2N4918/2N2222/2N2907/1N4001/	8
	2 2N3904/1N34A/1N914/	2
SOSTPH	1 2N2646/	1
	3 2N2222/	1
	5 2N3053/TIP31/HEP170/8877/3CX1500A7/7812/LM317/1N5408/276-568	3
AUDIO AIDS	1 2N5878/2N2219A/1N4003/	2
	3 FND500/7490/74123/7493/74109/7475/74121/7485/74193/7483/	9
	1 2N869/	1
BEGINNER'S	5 2N3866/2N4036/2N2222/2N3904/1N914/	2
	1 IN100/1N4934/	2
TECO	1 2N930/	1
	1 2N5590/1N914/	1
	1 2N5064/1N4007/	1
NOTES	1 2N6385/2N718/1N5308/1N5297/	2
	2 2N3906/CA3083/LH0042C.D/2N3904/LM219/2N2905/1N4446/	7
	1 2N3705/1N4749/1N4001/1N40/2N2219/	3
	1 4N31/2N3904/	4
HIKI	1 2N4036/2N3553/2N2222A/	3
	1 2N2369A/50820835/50822213/	1
	1 INA110/	1
	1 4N26/9602/7407/IRF712/2N4401/2N3725/2N3467/NTE125/	7
WOID	1 2N2222/	5
REIN	2 2N2907/2N2222/	2
FEATURES	5 2N3019/2N2222/1N914/NE2/	2
LETTER TO	1 2N2222/MPSA42/MJE340/1N4148/1N4005/	4
BUILD THIS	1 2N3565/	1
	1 SN7413N/1N5230/1N914/SN7402/2N2222A/	6
	4 INA110/OPA37/2N2222A/	3
	1 2N3903/TIP3055/2N2955/BFY52/1N4148/1N4007/1N4001/	6
LEED	1 2N2219/	1
IDDE	1 2N5109/IN5712/	2
	2 2N4400/	1
	3 2N3906/MV2111/2N3904/MV840/MPF102/	2
VHF	1 1N34/	0
	1 1N34A/	0
	2 3N211/2N5179/CA3140/HCD/2N4416/2N3866/1N4152/1N647/	6
APNO	1 COP42OL/MM58201/2N2222/	4
	9 MOC3010/7240/555/2N2647/IRFDZ13/C457M/C180EX500/D4C3/SC265E5	7
TETI	3 MOC3010/2N2222/2N3904/276-134/276-1001/	2
RFEN	2 SP2002/NJ88C33/	1
COMAPH	2 OP27A/8085/8279/8253/2716/6116/8255/DAS1155/	6
TETO	1 MPSA18/2N2222/	2

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RATECO	3 TPE1378A/TDA4650/TDA3505/TDA4660/CD4053/CD4052/CD4040/CD4011	9
	1 UPC1651G/1N914/	1
	1 XP2020Q/	0
	1 BPW21/303-719/	0
	1 OP02CP/UDTPINSPOT2D/	4
DEID	1 OP27/2N2905/MAT02/	4
	1 MPF102/1N103/1N56/	1
	1 VP0808/2N6660/MC14502/1N914/	9
	1 HP2800/	0
NOTES	1 FPT100/	1
	2 MP SH81/MP SH34/1N4446/	4
	2 OP470/	1
QRP	2 MPF102/2N3906/2N2219/2N2222/2N2224/	3
	1 OPA128/	1
	1 MRF646/	1
	1 XR2206/LM2917/CD4001/78L05/	4
PAPERS	2 IR81RDT/IR81RM80/IRR18CGF10A/IR40HFL100S05/	6
IDDE	1 XR205/MV8865/4066/CA324/	4
	1 IRF450/BYW30-200/	2
	1 2SK182E/	1
COAPNO	2 RS427/MMD1/741/324/7475/	4
CCT CELLAR	3 MSM5218/4014/MSM5204/CD4013/CD4011/CD4050/MC1458/CD4069/	9
APPLICATIO	1 CS4328/	1
	1 NS32032/NS16081/NS16082/NS16201/	4
PAPERS	3 SSD250C/2N5179/2N4123/2N4222/F5ET/	8
SOSTDE	1 SSM2044/TL082/	2
DESIGN ENT	1 HS9151/	1
	4 MSA0404/	7
PAHY	1 2SK310/2SJ117/DS0026/1SS122/	2
	1 2SK18A/LF356/	3
DEID	1 MT12N10/MC34002AG/	3
DEFE	5 LT1223/LT1220/LT1194/LT1193/LT1191/LT1102/LT1097/NE592/UA733	4
IDDE	1 LTC1150/LT1010/2N5486/2N3904/2N2905/2N2219/	6
	2 ZTX300/	3
	1 ZTX300/1N4148/	6
DESIGN ENT	4 XTR110/LM324/IR513/IR9573/IRFF9113/	5
ELDERE	1 STEL2130/STEL3310/STEL2120/STEL1174/	3
CIID	1 LT1070/7812/7912/	3
DEID	2 LTC1043/LF412/LM311/DG308/CD4013/CD4011/LM336Z5.0/	6
MISP	1 BUS63910/BUS63920/BUS61559/245/244/	4
DEID	1 BUX81/	1
	1 BUZ45A/GZ14216B/	1
	4 MVL100/AM685/MC1662/MC1670/QT100C/2N2369/2N3640/2N3819/74150	9
SOSTDE	1 RV4140/X0103DA/	2
	1 IXGH40N60A/MUR3060PT/	9
	2 8X300/2N5337/8T32/2651/2513/	3
DEFE	1 HXTR2001/	1
	1 2X2A/	2
TENO	3 CX1599/74121/7407/IRF840/2N3904/BFY90/1N4148/1N4007/	5

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	1 AY5-1013/75150/4518/74C14/4001/7408/4049/1N4002/	8
	1 8038/710/7432/741/	7
DRBO	1 4011/4017/	2
OPCO	1 80286/AD678/8254/	3
DEID	1 741/	7
	1 74107/7470/7400/	3
CODI	4 74LS74/74LS393/74LS138/1489/1488/74LS32/74LS08/74LS00/555/	5
CORRESPON	1 74C174/74C151/14078B/74C86/74C04/	7
	1 7447/MAN72/7493/74123/74109/7492/7490/74121/74151/	9
PAPERS	1 741/7812/BC107/IN4007/	3
REPA	1 74LS123/74LS109A/74LS132/74LS30/74LS14/	5
	2 GAT1-010/CA3100/BC184/BC212/BC182/	5
CIRCUITS	9 CA3140/4011B/2N3906/2N3904/2N3055/TIP47/1N4148/1N4002/1N4149	4
DENO	1 MC14419/MC14585/MC14163/2101/4011/	5
	1 BC107/1N4148/	1
DEID	2 AD532K/AD741K/H11A1/2N3904/2N3906/1N4744/1N4001/1N4740/	6
DESIGN ENT	3 AD538/AD589/	1
	1 AD436B/AD528/BB3500C/RCA3100/BC477/	8
APPLIED ID	1 CD4020/M14093/	2
CITEAN	1 LF356/MC14066/LM311/MC14528/	8
NOTES	4 LM339/555/7493A/7474/7408/7406/7404/7400/	4
PAPERS	3 LM348/LM324/4066/4013/4011/TIS93/TIS92/1N914/1N751A/	9
PROJECT OF	1 LM3909/	1
APPLIED ID	1 DM74LS374/DM74163A/DM74198/DM7486/DM7430/	6
	1 SN74123/SN74193/SN7474/	3
INPA	2 SN7442/SN74165/SN74151/SN7486/SN74164/	5
NOTES	1 OP07/	1
	2 SS1202P/CD4051/CD4028/CD4040/74C86/74C14/78L05/U LN2003/	9
STATE OF S	1 LT1014/2N4391/LT1004/1N4148/	5
	1 CY7C510-45/AM9513/AM2925/AM2914/CY7C474/	6
BARE BONES	1 3-500Z/	1
DEID	1 8038/TL084/	3
DESIGNER'S	1 4093/	1
FEAR	3 8031/72C81/74LS373/74LS244/74LS154/74LS138/27512/74LS74/4464	9
	2 10116/10115/2N3904/1N914/	3
SINO	1 4020/4526B/4025/	4
CIID	1 4015/	2
EXPERIMENT	6 4001/1N914/4046/4017/4011/3130/2N2222/FPT100/	3
	1 4017/555/4040/4012/4518/2N2222/1N914/	8
CICICE	6 8031/MAX232/74LS244/74LS373/27512/74HCT244/74LS374/74LS139/	9
COAR	2 8052AH/80C52/2764/6264-15/74LS373/74LS138/M959/74LS08/4069/	9
IDDE	1 8031/74HC374/74HC74/	5
FEAR	3 80C31/80C32/27128/62256/74HCT573/74HCT541/74HCT138/MAX232/	4
COAR	1 4093/4040/TIP42/1N4006/	3
APPLICATIO	1 8049/8048/8748/LS74/LS86/LS08/	4
CIRCUITS	7 4001B/2N3904/2N3704/1N4001/	3
HOBBY SCEN	1 4001/	1
DEFE	1 5082-3080/	0
	9 10116/10131/11C70/74LS154/74F00/F191/F175/F74/MRF901/NE645/	7

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	5 8085/27256/27128/8155/8755A/74138/LM317/7805/2N2907/7401/	6
PAPERS	1 4066B/	1
MOD	1 4040/4001/	2
IDEAS FOR	1 4049/4050/D29E6/74C138/1N4148/	6
	1 4040/4017/BC517/4049/1N914/	4
	2 4013/4081/BCY70/TP121/4060/BC107/	9
	2 40673/74S196/74192/7490/7473/7448/7475/2N2222A/7407/74S00/	9
TECH TIPS	1 4051/4049/4024/4041/	5
	1 40841/BC168/	3
PART II	1 50J/Y567B/4CW8000F/171/	4
CIRCUITS	1 4069UB/4066A/	2
PROJECT	1 4013B/BC184L/2N3904/C206D/1N4007/1N4148/BZX61C12V/Z21L271/	3
FEATURES	4 80C31/8870/27C64A/74HCT373/74HCT138/74HCT32/74HCT00/7805/	7
APID	1 8085A/8155/8355/AD1139K/AD558/RS74C922/AD707CQ/RS1414/	9
DEID	1 40106/2N4124/B823-100/	2
DEID	2 4070/SMP60N06-18/ZTX750/IN4148/	2
APPLIED ID	1 4013/4021/4514/1802/	7
	1 4060B/BC239/4093B/1N4001/1N4148/	5
	3 4066/4503/4022/TL084/LF353/555/TL081/TL081/TL091/2N3906/	6
	1 4017B/4025B/4013B/4069B/BC107/	8
PROGRAMMII	1 4066B/741/BFY50/1N5001/	4
PAPERS	1 8080A1/8228/8224/	3
LETTERS	1 4049/2N3055/1N914/	2
DRBO	1 4066/7486/2N2222/	3
DEID	1 4024/LM339/7815/MTH15N20/MDA2502/IN914/	5
	1 A123/LH0063C/	3
	1 H11L2/SK9411/SK3444/1N4007/	5
HAHA	1 H11AA1/	2
	1 4136/E113/1N4148/1N4001/1N4752/	4
INSTRUMENT	1 710/	1
SPECIAL FO	6 8131/TR1802/74367/74LS132/MCT2/NE535V/567/555/74LS85/7805/	9
COAR	1 T106A1/MPSA20/1N4002/	2
	1 813/	2
CIID	1 3140/74C14/	3
CIID	1 J113/5082-2811/1N4148/	1
POMASE	1 H11AA1/IRF150/2N2222/2051536/C2M1/	4
BYBU	1 2102A6/7400/7404/	5
ARTICLES	1 4127KG/741K/1N916A/	5
DESIGN SOL	1 F100125/F100170/F100160/F100124/F100150/F100155/	3
DESIGNER'S	1 C106B2/	1
PROJECT	1 6116/4071/74LS244/74LS245/74LS139/BC184/BC214L/74LS32/	9
FACTCARD	2 C106Y/C106D/	1
FEATURE	9 4136/TL072/TL082/LM13600/NE555/6402/74164/4024BE/4001BE/4017	5
APNO	1 C106/	1
	1 714/741/	2
	4 311/RS308-843/RS304-560/091/RS304-467/RS302-659/741/	2
ARTICLES	4 119A/183/741/923/914/900/2N1307/1N914/1N747/9083/552-15/	7
ELANRA	1 01A/22/	3
REPA	1 3140A/3554/	2

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FACTCARD	4 C103B/2N5062/SK3950/C106B1/RS272-1100/	1
TRBR	1 8252-4PR60C/	2
	1 8255A/8253/7400/7406/	6
DEAP	1 22V10/299/393/273/374/GI74OL6000/	6
HARDWARE	3 8255/2716/74LS74/7476/74121/556/74LS138/7406/74LS08/LM317/	9
	4 6264/4040/74LS244/74LS02/4013/74LS175/6402/4520/7805/2N2222/	6
CICICE	3 8255/2716/74121/Z6132/2N2222A/7406/74LS30/TIL224/74LS04/	7
	3 82731/82730/LS139/LS163/LS75A/LS74/80186/	6
PROJECT 80	1 8250/8748/74LS244/74LS245/1488/1489A/74LS14/74LS04/1N914/	8
PAPERS	1 725/741/1N916/FZ3.3/	3
	1 8255/6522/6520/6502/Z80/	6
BACKGROUN	1 8251/MM5307AA/74LS161/1489/1488/74LS04/	6
NOTES	1 725/356/307/2N6550/2N6483/	6
DESIGNER'S	1 7250/NE555/7490/7420/	5
	2 723/2N4905/	2
DESIGN	2 82S105/25LS2536/LS395A/LS365/LS244/S225/	4
RFDEFE	2 J310/MTM3960/J309/IN4148/	1
	1 S31801/5972/	2
OBSERVER'S	5 931A/ECG5100A/276-2028/276-2071/276-1715/276-1771/276-1152/	4
	1 C31D/2N5457/2N4992/2N718/1N5297/	4
	4 531/747/BC184/BC108/2N3904/LM319/324/7812/	8
	3 7309/2SJ77/2SK214/74121/	7
	2 74C08/2N5401/2N4888/2N2222/DTS804/DTS802/DTS801/	3
	2 74LS14/74LS121/74586/	3
	1 74LS138/74LS10/74LS123/7805/1N4009/	4
ACNUPH	1 74193/74150/7476/	3
PROJECT 80	1 74LS138/8253/74LS367/74LS14/74LS04/74LS00/74LS32/	7
HARDWARE	9 74154/74LS368/74LS367/74LS32/74LS73/2N5308/74LS08/	9
	1 74123/7474/7400/7404/	5
EXPERIMENT	2 74147/7447/LM339/7404/	4
	7 741/AD161/AD162/4001/2N4954/1N645/1N3007/2N4871/2N2926/BC109	3
	1 741/2N6216/2N3584/2N3494/2N1711/1N914/	6
	3 74123/7493/7476/ZTX300/	3
CIID	1 74LS266/74173/74100/7474/	8
UPDATES	1 74HC14/74HC08/7405/74HC02/	4
	1 741/	1
	2 74121/PAL16R6/PAL16L8/7414/7407/7402/	5
APID	2 6402/CD4060/BC214/BC184/IN4148/	4
TENO	4 741/2N3704/2N3702/TIP32A/	3
APNO	1 74ALS646/74LS125A/74F74/	6
	2 7490/7473/7400/7805/	3
CIID	1 74373/	1
SPCO	1 741/DM74193/DM7408/DM7402/7812/7805/TIP29/2N3904/	9
ELNO	1 741/	1
TENO	2 542C/74C154/74C161/74C221/555/74C14/4011/2N5550/2N3904/	9
	2 7402/7400/	1
REPA	3 74S112/74193/74164/7425/74192/74S04/74S10/74S30/74S20/74S85/	9
THINK TANK	2 74C08/74C04/D42C/2N2222/SDP8403-301/SEP8703-1/1N4001/1N914/	5
PE TESTED	2 74165/2513/4011/74LS08/4066/2N4402/4013/74LS32/74LS04/	5

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HARDWARE	2 1489/1488/AY5-1015/74LS123/74LS93/555/1N4001/276-1794/	5
DESIGN ENG	3 741/	9
	2 741/9014/1N4148/	2
DEID	1 74LS163/74LS75/74LS04/2N2222/1N914/	5
	3 74HC74/74HC20/74HC244/40105/74HC00/74HC75/5101/5105/	5
TUSC	1 74LS374/74LS273/74LS244/74LS138/CD4040/7406/LM317/2N3906/	9
COMPUTERS	2 741/2N2222/	2
	1 741/1N914/	4
RFEMCO	2 74LS74/75451/2N3904/TIP42A/5082-0180/5082-2810/1N4001/	3
CIID	1 741/	2
CAXYRE	2 7490/7492/7400/74121/SPS5103/2N3053/2N3904/	9
	1 74121/2N2222/BF338/EM404/	5
PAPERS	1 D469AP/ECG4528/MCI4049/T88B-XF221703/T88N1700/IRF840/BST74/	9
COMMUNICA	1 1458/LM339/2N2222/1N914/	4
BUILD THIS	3 74LS174/74LS74/7406/2N3904/1N914/1N4733/1N4742/	4
	4 7475/7473/7408/HCPL2601/7493/7492/7410/7404/7420/7400/	9
	1 1403/	1
	1 7470/4406/74123/7400/7413/	4
IDDE	1 74HC14/	1
COAUMECO	1 74AS867/74AS574/10H189/10H186/10H136/10H131/10H125/10124/	9
	1 7400/MOC3031/	2
	1 74LS245N/7407N/7432N/	4
	4 741/	2
CODENO	2 74LS123/74LS374/74LS107/2716/74LS151/74LS156/74LS32/74LS00/	9
COAR	1 74HC00/TIP120/1N751/1N4003/	2
UPDATES	1 74HC73/2N2222A/1N914/	2
DESIGNER'S	1 7404/	1
	2 74LS374/	2
ARTICLES	1 741/SCL4016/SCL4001/MD922-4/GE504A/	4
	1 74LS123/74LS112/NE555/74LS04/74LS02/	5
DEFE	1 74F04/1N5712/	0
ENGINEER'S	1 74C221/MV5054/MV525/2N5378/2N5376/74C02/1N916/1N5248/	4
PROJECT 80	5 74LS74/74LS367/2726/2732A/4164/8255A/Z80/74LS244/74LS245/	9
	1 74LS367/6116/1N191/	7
	1 741/4520/4528/BC549/4069/1N4148/	5
APPARATUS	1 741/74121/MM5395/7493/7490/555/ADC0809/74151/LF398/LM113/	6
BUILD THIS	1 741/2N3766/2N3904/2N2605/2N2484/1N4001/2N3740/2N3906/1N754/	9
APPLIED ID	1 74LS157/74LS244/74LS255/74LS32/74LS20/	7
SHPA	1 7473/74123/TP4025/7400/BFW11/	5
	1 741/	2
WEEKENDER	1 7492/7475/7400/	8
	1 7475/6821/7432/7425/7421/	5
CODI	1 74LS138/74LS02/1N914/	2
	1 741/BC477/BC108/	5
TEEX	2 74191/74164/7404/4011/4049/BC184/IN4148/576-327/	6
AIANCH	2 74193/VFC15/562/553/8163/PR5/W6110D5X1/CD4049CN/OLV15/	7
FIFU	1 74HCT374/74HCT244/74HCT74/74HCT32/74HCT02/	6
ENHANCING	5 74LS374/74LS175/74LS165/74LS164/74LS138/74LS123/LM124/LM7805	8
BUILD THIS	1 741/2N3904/MV2109/	2

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FEAR	1 74LS374/LS244/LS138/	5
CISYLE	1 74LS123/555/74LS393/LS02/	4
METHODS	1 74S240/74S08/74S10/74S00/74S32/7408/502FFRS1/	7
ARTICLES	1 741/2N6216/2N3494/2N3584/2N1711/1N914/	6
ENNO	3 74LS241/74LS161/74LS122/74LS86/74LS74/7425/74LS14/74LS08/	8
APPARATUS	1 74C221/2N1711/TIL32/TIL78/1N4003/	2
	1 741/	2
	3 741/BC108/74121/7470/710/914/NE536/2N2905/2N3819/2N1711/	9
LETTERS	1 D40D5/2N2646/2N4443/1N4007/1N4001/	4
	1 741/74565/74C93/CD4018/74C73/74C221/74C32/74C00/74C86/	9
TUSC	1 74LS125/74LS273/74LS139/	3
ARTICLES	1 74LS374/74LS373/74LS169B/74LS161A/74LS114A/74LS90/74LS32/	9
	1 741/2N697/ECG124/2N3055/1N914/	7
CIRCUIT SP	1 555/BD140/	2
APPARATUS	1 555/SN7815/1N914B/	2
	1 555/2N2222/2N3904/2N2907/2N3906/	4
	4 6500-11/52801/8051AH/59308A/59306A/8085/74259/74191/	4
ENGINEER'S	1 555/MC663/MC672/MC680/FLV112/	5
	1 555/2N3703/2N3705/1N4001/	4
COAR	1 556/1N4001/	1
	1 555/2N2222/PN2222/	4
DESIGNER'S	1 555/2N3702/2N3704/1N4001/2N3055/1N4148/	4
	1 555/1N914/	2
THINK TANK	3 555/SK3444/2N3053/7474/1N4001/	3
	1 555/276-1723/MPS2907/2N2222/	3
COAR	1 555/1N914/	1
	1 555/1636-3/4148/	1
NOTES	1 555/276-116/	1
	3 353/324/386/MFP102/IRF511/1N914/1N34A/	4
DRBO	2 4528/4093/2N3904/	2
ARTICLES	1 4528/4027/4093/MOC70T2/4001/2N5193/MJE371/2N5190/MJE370/	9
LETTERS	1 7555/AY3-1350/386/TIL111/2N2222/1N914/	6
	1 555/7812/M9570/1N4001/	9
DEID	1 555/ICL721XCPA/LF398/4528B/	5
LETTERS	1 555/	1
BUILD THIS	1 556/74LS123/7805/74LS244/2N3906/TIP120/74LS04/1N4148/	8
APPARATUS	1 555/BC107/BU205/BF459/TIL111/	5
FEEDBACK	1 356/	1
	2 555/BC548/2N3053/1N4148/BZY88C5V1/BZY88C10V0/	3
NEW IDEAS	1 555/74L04/1N914/	2
SINO	2 555/7555/2N5064/MOC3010/	2
LETTERS	1 555/4011/	2
PROJECT	3 555/4049/BC212/BC107/TIL78/TIL32/1N4007/BFY50/2N3904/2N2219/	9
DRBO	2 4520/4017/4011/4049/1N914/	7
	1 3527AM/ADC-EK128/I2708L/74LS158/DAC80CCD-V/747E/54L93N/7425/	9
	5 3501T/UA741C/2N5812/UGN3501M/LM324/UGN3019T/2N5811/40669/	3
	4 75451/HFBR1500/HFBR1501L/HFBR1600/HFBR1601/DS3631/78L05/	3
	2 75ARB31/	1
	3 6522/AY5-1013A/7486/7406/	4

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	1 555/TIL145/2N3053/TIP120/1N9148/	6
	1 555/4093/MPSA13/2N2222/1N914/	4
COLUMNS	1 555/	1
ASK R-E	1 555/	2
PROJECT 80	2 R65F11/ICL7660/6264/R65FR1/74LS373/74LS138/74LS00/1489A/1488	6
	2 567/555/74164/4018/4N33/4011/4049/7486/2N2222/1N914/1N4004/	7
PAPERS	1 9601/LM309H/2N4959/2N2222A/2N918/IN5618/IN3600/IN756/IN752A/	5
	5 6688/6AK5/2N3823/LM324/LM308/747/BPM15-200/2N2222A/26S02/	7
DEID	1 8640AN/CD4040/X9102P/	3
FOREGROUN	1 F6T5-BLB/NE2/	1
IDEAS FOR	1 M6800/74LS74/	1
	4 M6809A/6850/6821/4116/I3242/2732/1793/LS280/LS245/LS175/LS04	9
CICI	3 567/2N3906/2N3904/	3
	2 567/74LS00/2N2222/1N4148/	2
PROJECT 80	1 8748/8250/74LS374/74LS245/74LS74/74LS14/1488/1489A/IN914/	8
	1 2732A/74ALS157/	3
HIKI	2 272-707/	0
	1 27128/74HC161/74HC04/74HC00/	9
CIRCUITS	1 276-035/	0
PROJECT	1 276-1662/1N4001/	1
REHE	1 07/	1
ERRATUM	1 1733CG/79M05/78L05/2N3904/	5
FEAR	4 87C51/PM7528/22CV10Z/LT1016/LM324/74HCT74/74HCT00/LM317/	8
	2 276-1185/276-068/1N4001/UA78HGASC/	1
	2 68000/555/74LS138/74LS148/74LS244/74LS245/74LS161/	9
ASK BYTE	1 7812/7912/7805/276-1171/276-1772/276-1770/	4
DEID	1 Z80A/74LS74/74LS08/74LS04/	1
BUILD THIS	2 7808/2N3904/2N3906/1N914/1N4148/1N4004/	9
	1 G82716-3/50256P15/74LS245/2N3904/74HC04/2N3906/74HCT14/7406/	9
	4 6809/6821/R6522/6850/146818/R6551/ADC0844/DAC08CP/LM124/	9
FEAR	1 6805U3/MC68705U3/74LS244/MOC3030/MAC3030/2N4401/	9
	1 T800/T414/T212/IMS100/	9
	1 68HC000/ADSP2101/80C652/80C552/ADSP2105/A82786/	4
	2 Z80CPU/74LS688/74LS374/TIL311/74LS32/74LS04/	7
	1 6850/6821/MAX232/74LS04/74HC4040/1N4148/	5
COPA	3 Z8671/2732/HCLP2731/SG3549/OP37/OP07/LM555/7545K/ALS540/	9
	1 6821/RS574/LF398/	3
TEUPCOSU	1 88200/88100/87033/68562/68230/68155/	7
APPARATUS	1 Z80/CD4052/PIO/	3
	2 7805/LS628/LM338/	2
CONSTRUCTI	1 7805/	1
CCT CELLAR	9 Z8001B/Z8581/74LS393/74LS373/74LS245/74LS133/74LS138/6116-3/	9
	2 M956/8748/CD4515/2N3906/2N3904/LM7805/	9
FACTCARD	2 CA3140T/741C/	1
FACTCARD	2 CA3140T/741C/	1
DEID	1 MAX666/2N2907/2N2945/	2
	2 CA3140/741/BB4127JG/1N4748/1N4003/	6
PROJECT	1 CA3140/4069B/1N4148/	6
NOTES	1 CA3130/	1

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TENO	4 CA3038A/2N1132/2N4416/2N1711/IN100/	5
	2 CA3080/308/741/MPF161/BF244B/BC213/BC183/	9
	2 UA741/	7
	2 DAC08/REF01/741/UN66AF/2N3904/HP10534A/74LS38/2N3638/	9
	9 CA3140/LF351/BC107/1N4148/BC212/LF3551/	3
RENO	1 CA723/7812/BC107B/BC108B/2N6565/BU536/2SC2068/TY6004/1N4007/	9
	2 CA3140E/LM311N/CA3240/4011/555/4518/4013/14553/14543/2N4402/	9
SCIENCE	1 CA3046/	1
BUILD THIS	5 SAA5010/SAA5012/SAA5000/40138/UPC1373H/74C00/74HC00/BPW50/	4
	1 CA3140/2N5418/BF258/BZ99/BZ9/1N4148/	9
ARTICLES	1 UA741T/	1
CIRCUIT ID	1 UA9706/4528B/	2
TECHNICAL	1 UA78HGASC/	1
ELCOCI	1 BA5406/	1
DEAP	2 PA21/PA05/	1
TEUPINCI	1 SAA9051/SAA9060/TDA4680/TDA8709/TDA8708/SAA9057A/	5
CIRCUIT SU	1 CA3059/TIC226D/	2
	2 CA3084/CA3096/CA3046/LM307N/LM741CN/	7
	7 DAC1222/CA3140/MC34071/74LS373/LM741/LF356/ECG969/ECG968/	8
NUEL	1 UA709/SN74121/2N4416/BF520/BC177/2N930/BAY95/	6
	1 DAC9-898B1/CA3140/SN74191N/555/78MG/2N2646/SC265D2/2N3705/	9
CIID	1 UA2240/3705/SN5493/1N4148/	3
UPGRADING	1 MAX252/MC145407/LM7805/	3
	1 CA3080/	2
DEID	1 GAL16V8R/7805/VN66AF/1N5339/1N5320/1N4007/	3
INMEHIENPH	4 UAF15BB/40JAD/L141N/HC2000/AD521/BPX42/	3
	1 UA733/AD50J/U257/	4
APPARATUS	1 UA741/ICL8013/CA3140E/MC1483R/NE555/IN4148/	6
BYBU	1 UA78S40/	1
	1 UA741/	1
ARTICLES	1 TBA231/LM307/	3
	3 6BQ5/276-563/276-041/276-1103/	1
TECO	1 MBD101/	0
DAACSYCI	1 MB43458/	1
DESIGNER'S	2 MC1455/2N4903/2N2222/1N5804/1N756A/1N967/	7
	2 MCM6268-25/F244/MC74F521/	5
CODI	2 MC68705P3/2716/4040/7805/2N2222/1N4748A/1N4742A/1N4001/	6
	1 MC6821/2716/7824/7475/1N002/7805/	5
	2 ICL7107/LF351/LM710/2N995/BFW11/	3
UPDATES	1 TCM3105/2N2222/LM385/1N914/	4
DEBR	1 BC109/HP822303/	1
	1 MC1496G/CA3001/CA3028A/HEPS0022/SK3549/	4
	4 OC44/OA85/2N2222A/2N4400/1N914/	1
REPA	1 MC12061/LF347/2N4923/MV1404/1N914/	3
NOTES	1 MC14536/MC14521B/2N2222/SBM28512/	4
DATACOMMS	2 SC11027/SC11037/SC11016/8031/2732/4N25/LM386/1489/1488/LS373	9
TEBR	1 MC68HC11/MC145041/MC144110/MC145000/MC14499/MC14046/	6
BUILD THIS	5 ICM7216B/CA3140/CA3030/SP8629/MC10116/LM324/MC1458/4066/7915	9
ARTICLES	1 ICL7652/OP07/AD7512D1/	5

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ARTICLES	3 LC3717/CD4098/LS86/LS74/1489/1488/	5
ENGINEER'S	1 MC14433/MC14511/MPSA20/1N4148/MC78L05/MC1413/HP5082/	5
TECHNOLOG`	2 MC1357/MC1350/TL071/4013/LM339/1N4148/4001/4518/4040/2N2222/	6
CODI	2 MC68681/74LS322/74LS175/74S74/74LS32/7406/1488/1489/74LS373/	7
	3 ECG103A/SK3835/1N34A/	1
	4 MC14017/MPSA13/MPS3096/MPSA70/2N5064/MPSA20/2N5780H/MPS3094/	9
	5 ICM7555/CD4017/C103B/MOC3030/MOC3040/2N3859/SC160D/H11C1/	3
BUILD THIS	2 UC3637/LF13202/LM2907-8/SN74LS74/74LS14N/ULN2081A/LM339/	9
FEAR	3 MC68HC11A1/74HCT373/74HCT245/43256/M6242B/MC34064/MAX232/	8
RAFU	1 MC14410/78L05/1N270/	2
	3 MC14069B/VP0808/VN67AF/OP15/LF398/OP07/CMP01/AMP01/CA3127/	9
	3 3CX3000A7/	1
	1 BC108/2N3866/	2
	1 MC6821/74161/7404/	3
	1 SCL7613/SCL4066/	4
REPA	1 BC184/BC214/IN4148/	9
NOTES	1 ICM7555/C74/75/25/02/	5
RFDEAW	1 MC1648/MAR8/2N2857/TL431/KV3902/1N5711/1N4004/	4
	1 ICL8500A/2N3904/LT1012N/H11F1/	4
DEID	2 MC68030/MC68681/74LS273/74F245/74F164/74F38/74F32/74F04/	9
	4 SCS11C3/TIL111/LM567/4001/2N2222/1N4001/555/7805/1N914/	6
RFDEAW	1 MC10131/MC10101/	2
ONE NIGHT`	1 MC3423/C106D/	2
	1 MC6805S2/LM2903/	2
	2 ICM7226A/2N3906/2N3904/1N749/10115/10102/10104/14049/74LS08/	9
HINTS AND	1 RC4136/ECG997/	1
BOB COOPEF	4 MC1458V/BB105G/J310/SD1006/2N6122/2N3563/BB105G/UA7812CU/	9
	4 MC10319/LS686/MC7905.2/MC34081/MC1404U10/LS168/LS132/8421C/	9
	1 MC10216L/A401/1N4152/	3
DEAP	3 MC68705P3/MC144111/MC144110/MC14497/MC3373/MC68HC05C4/	8
IDDE	1 MC14541/2N6239/MPS4124/2N4124/IN5402/IN5236/IN4001/	3
PROJECT	2 ICL7106CPL/2N5632/2N3904/	2
MOCOSY	1 ICL8500A/AD533/ICL8013/OP07/	6
	1 ICL7109/CD4051/	2
CIID	1 BC337/1N4148/1N4006/	1
	1 MC68HC805C4/6805/C012/MAX232/2N3904/HLMP6620/1N4148/	4
HAM RADIO	1 6CL6/	1
NOTES	1 MC1489/MC1488/6403A/ICL7109/AD7503/	5
PRPAPRSE	4 MC68701S/MC6821/6551/C012/MAX232/26LS32/26LS31/74LS139/78H05	9
CICI	4 MC34119/ULN3718M/2N5060/2N3904/1N914/	2
APPLIED ID	1 BC108/	2
BUILD THIS	2 RC4136/1N4002/	1
COMPUTERS	7 ADC0803/DAC08/DAC0800/74HCT4051/74HCT573/74HCT540/LM6218AN/	9
IDDE	1 CD4093B/2N3904/2N3906/IN4001/IN914/	3
ARTICLES	1 AD506K/LM311H/123N/PC504/SD210/	6
	1 AD515/	1
	2 AD521/3140/LM319/TIS151/BD131/IN4001/	3
SPCO	1 AD7528/ADC0844/ICL7621/	4
COMMUNICA`	2 HD64180/ADC0816/8255A/UPD43256/74HC373/74HC138/27C64/LM358/	9

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HOW TO	1 CD4082/CD4518/CD4018/1N4148/	6
IDDE	1 AD594/AD595/MAX138/ICL8069/	2
BUILD THIS	1 ADC0834/AD558/2N3906/1N5229B/	3
	2 AD532J/739/555/741/74121/7473/1N5239/1N5227/1N963/MV5052/	7
	1 AD524/AD515/74LS75/74LS00/7407/	5
FEATURES	3 AD7574/AD7224/LM324/LM741/LF398/74LS138/74LS05/74LS00/1N751/	9
ARTICLES	1 AD563/AD3554/AD510/ZVR506/HL8314E/	9
	1 AD654/4047/TL071/BC107/4040/4011/ZVN2106A/	8
APID	1 CD4051/AD537H/MCS8031/AD590/	3
	1 BD136/	1
DEID	1 AD538/LT1025C/OP07/1N914/	3
SIUP	1 TDA8708/SAA7191/SAA7192/	3
	1 BD137/	1
	2 AD524/VFC52/LM366/ETG50/MA06-250TK10C/LM7812/LM7912/	2
	1 AD521J/	1
ARTICLES	1 TD550/2N3906/2N3904/1N914/	4
SIUP	1 HD64180/Z80180/Z180/27256/62256/74LS245/74LS138/	7
	5 AD650/LM309/MF10/AD544/AD7545/AD582/311/AD7510/SD211/	7
SUPA	4 AD574A/SHC298/AD521JD/MPC8D/AM9513/CA3140/OP27/741/REF01/	9
LETTERS	3 AD625/TL074/AD624A/AD644/TL072/LF412/	3
SHCO	1 AD558/4584/4193/	4
ARTICLES	2 AD514K/MC853/MC851/MC846/MCL610/CAG30/	6
	2 CDP6402/IM6402/ICM7555/74C02/1488/	4
NEW IDEAS	1 CD4541/LM317/VN67AF/1N4002/1N4733/1N4742/	3
	5 LD130CJ/LM353N/TL072CP/LM351N/TL071CP/LM13600N/LM13700N/J201	9
APSU	1 AD7840/79L05/	2
DEID	1 CD4017/CD4016/	2
UPGRADING	6 ADC0809/IM6402/MAX237/74HC4060/74HC244/74HC14/74HC04/74HC03/	4
RFDEAW	1 AD630/LM6325/LM356/TLO52/NTE617/	4
POMASE	1 AD523L/1N4148/	1
	2 AD582/DG181/UA760/0042C/74221/7400/356N/AD537/74193/9667/	9
COSY	2 HDG0805/10124/10101/	6
NUEL	1 TDC1035/OPA603/LT1016/OP07/LS465/LS123/2N2907/LM313H/IDT7200	8
LETTERS	1 AD736/1N4148/	1
INMEHIENPH	2 AD547KH/UA741/R580-12/	2
NOTE	1 BD135/BD136/BC108/	3
	4 AD7502/LS378/74LS139/74LS377/TIL117/HP2630/TL081/OP16/	9
	7 ADC0831/ADC0838/DAC0832/ADC0801/ADC0820/DAC0830/LM393/LM339/	7
DEID	1 CD4093/1N4148/	1
TEBR	1 NE604A/NE602/NE532/	3
FEATURES	2 TEA6300T/TDA8425/	1
	2 NE592DB/MVL407/BSR12/10354/BF517/	5
FEATURES	1 NE602/LM386/	2
APPLIED ID	1 NE555/2N2218/2N2905/	3
	1 NE555V/RS2027/1N4001/	3
	1 NE564/74LS221/74LS74/74LS93/CMT05/74LS04/74LS86/2N3904/	9
PAPERS	2 NE555/LF353/D45E1/2N3904/IN4003/IN914/	6
	6 NE566/741/555V/TIL306/7805/74123/74192/7496/7451/7401/7413/	9
CIRCUITS	9 NE602/	1

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ARTICLES	1 OEI5021/95H28/256/9595/ 1 NE2/	5 1
BUILD THIS	1 NE566V/LM7812/LM78L12/TIP41A/2N3904/2N3906/1N4002/ 1 NE555/2N3053/	9 2
INMENSUP	1 NE72084/NE41137/	4
BUILD THIS	3 NE570/LM311/LM324/LM358N/4066/2732/74LS244/74LS161/74154/	9
INMEHIENPH	1 NE592/	1
HAM RADIO	1 NE602/LM386N1/78L05/1N4001/	3
INPA	1 NE5534A/TIP31A/TIP32A/	3
SINO	1 NE564/74LS221/74LS74/CMP05/74LS93/74LS86/74LS08/74LS04/ 5 NE566/LM1458/TIP32A/2N3904/2N6124/7812/LM1458/556/1N4004/ 2 NE41632E2/1N758/1N914/ 1 LF351/LM194/2N5087/LM329/	9 9 1 9
AUHIFI	3 LF411/SSM2220/SSM2210/BD912/BD911/BC880/BC560C/BC556B/BC550C 5 BFW11/LM371/2N4391/2N2369/2N911/2N918/2N995/SM102/HJM17/	9 7
THINK TANK	4 LF353/MC14093/4070/4001/2N3904/2N2222/TIL414/1N914/ 1 LF355/4066B/ 2 LF411ACN/LM11CN/2SK134/2SJ49/2SK216/2SJ79/MPS8099/MPS8599/	2 2 9
LAEX	1 LF351/276-145/276-143A/	1
COAR	1 LF353N/7912/7812/2N2222A/1N914/	4
UNWI	2 LF353/H21A3/SK9040/	2
LETTERS	2 LF351/LM317/2N4400/6DJ8/	3
RATECO	1 LF351/TBA820M/78L08/SBL1/BB204/MPF102/BF199/BFY50/1N4148/ 1 HFET1101/	9 1
SHPA	1 LF356/P6KE12A/1N4148/	1
RETU	1 LF157/	1
INNO	1 BFY50/BC477/BY206/ 1 BFR90/	2 2
ELCOCI	1 SG3549/IN758/	1
BUILD THIS	1 SG3524/SK9155/2N6678/SK9140/VM08/1N4936/1N4934/MR751/1N4004/ 2 SGA301/REF01/UA741/MC1458/SMP01CJ/SMP11FY/SN74136/DG201/	6 8
IDDE	1 UGN3503T/LM324/7474/MCT2/BT137/2N3019/7414/ 1 SG1524C/BUZ41A/BYV21/IN4001/ 1 LH0032/LM102/LM101A/UA741/2N3646/1N914/ 2 AH5012CN/2SK216/2SJ79/2N2920/2N3811/2N5401/2N5550/LM334Z/	7 2 6 9
PAPERS	1 LH0002CH/HA5195/MC1741/2N4416/HP2811/	5
ARTICLES	1 LH0042/	1
DOSPRAMEA	1 OHI3100A/S1723-08/S1723-04/ 1 SHM-LM2/AD534/7486/741/OA202/	1 9
APTE	1 LH0032/LF355/LH0063/	4
PAPERS	1 QHF3-.300G/GHF3-.060G/	2
ENHANCING	1 PIC16C55XT/PIC16C55HS/MC1489/DS1489AN/78L05/AN78L05/	4
NEW IDEAS	1 TIP30/ 4 TIL311/74LS193/74LS21/CD4071/CD4584/74C244/CD4077/CD4068/	1 9
LETTERS	1 TIP31/1N914/	1
CIID	1 TIP112/TIP54/BC107/2N3568/1N4009/1N5406/SK3099/ 1 HI1-0201-5/HA4605/	4 9
HIKI	1 6JS6C/2BY7A/1S1555/ 1 MJE521/MJE731/1N4007/NE2/	3 2

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RTTY LOOP	1 MJE3055/2N2222/1N4003/	2
APID	1 MJE340/2N2222/MPSA42/IN4148/IN4005/	4
HINTS & KI	1 SK3327/	0
FACTCARDS	4 SK3950/SK3466/C106B1/C203Y/	2
IDDE	1 TL082CP/	1
ELDERE	1 CLC912/	1
POSYCOCO	2 TL081/318/311/AD7513K/AD633/	8
LETTERS	1 TL071/	1
APPLIED ID	1 TL071/TL072/TL074/	1
	1 TL074CN/	1
NOTES	1 TL082/LM322/LF356/081/SN74S121/361/SN74S112/BFX37/BSX39/	9
	1 HLP1400/	0
CONSTRUCTI	1 TL074/TL072/	2
INSTRUMENT	2 TL074/TL072/	1
POSUBACH	2 TLC272/CNY17-2/7812/TIP3055/TIP2955/BC557B/BC547B/BD140/	9
HARDWARE	2 CL3803/75453/TMS2516/MC14040/74LS74/74LS374/74LS138/74LS08/	8
	4 TL062/4N33/3-400Z/741/2N5496/2N1711/7815/7905/1N914/	9
CIRCUIT SP	6 TL072/TL062/TL082/13600/	2
TENO	1 TL082/4528/308N/LF398/4093B/4066B/BFY51/	8
TENO	1 TL082/UA741/4302/NE555/DG303/TIP30/TIP29/HBMLY11/	8
LETTERS	1 TLC555/	1
	1 FLB3513X2/ICL7106/CD4070/UGN3501M/LM7812/	5
RFEMCO	2 ULN3820/ULN3841/ULN3846/TPJ308/2N2222/SFG460F/ULN3845A/	8
ARTICLES	2 TL071/LF411CN/AD711JN/79L15/78L15/2SK389BL-V/2SJ109BL-V/	9
CIRCUITS	5 MM53020/MM5321/4098/LM1310/LM733/2N4124/40673/2N3565/IN914/	3
DEID	3 LM301/LM324/TIP42/TIP41/2N5302/2N4403/	9
>50	1 UM9401/	0
AUDIO	1 EM80/EB91/EF41/EF80/EF85/	6
THINK TANK	7 LM3900/LF351/8038CC/CA3130T/MC3302P/TCG857M/NE531/NE5534A/	3
BUILD THIS	1 LM317T/2SC1308/276-2055/2N3904/1N4005/	3
HOBBY SCEN	1 LM317K/	1
	2 LM339/LM318/LM555/S5474/LM320/1N4003/IRF300/	7
DAACSY	3 AM687/CA3130T/UA733/MVL407/TL820C/SD213/10131/MP532/2N4261/	8
	2 IMSCO12/F244/LS164/LS151/LS138/LS74/LS04/LS01/20/02/00/	6
QRP	1 LM317/	1
PEPO	1 MM74C86N/2N3906/2N3904/	3
NOTES	1 LM339/74121/7474/74LS08/1N914/	5
	1 LM1458N/	1
	1 LM747/MJ802/	1
FEATURES	2 LM380N/LM317L/	1
COAR	1 LM555CN/CD4017B/CD4001B/MOC3011/T2322D/BS170/1N4004/	6
	2 LM2907N/941/7486/7414/2N2925/ECG289A/1N4742/1N4735/	4
DESIGN SOL	1 LM324/741/	2
	1 LM3914/276-041/276-1707/	2
FEEDBACK	1 LM383/	1
FEEDBACK	2 MM5369EST/CD4098/	1
AMSC	1 LM555/MRD711/MLED71/	1
PROJECT	1 LM324/741/BC182/BC212/2N5825/2N6015/1N4148/	4
	3 LM139/ECG291/NSM39158/1N4741A/1N4735A/1N4750/1N4001/	2

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COMMUNICA	1 LM324N/LM392N/LM331N/ICM7208IPI/ECG232/2N2222/NSA1188/	8
NOTES	1 LM747/NE555/4024/4070/2N6246/2N3906/2N3904/2N3055/	9
ARTICLES	1 LM324/MPF102/1N4148/	2
	1 LM311N/276-2024/276-116/	3
DESIGN ENT	1 AM7936/AM79C30/AM7938/AM79C31/	4
DEID	1 LM350K/2N3906/	3
COAR	1 LM317/	1
	1 LM324/	1
DEID	1 LM741/2N1671A/2N3904/1N4148/	4
CICI	3 LM386/LM324/LM741/	2
APNO	4 IMSG171/IMSG176/LM334/TL431/IN4148/	2
DESIGN APP	2 AM9580A/AM9582/AM2971/AM2971/26LS32/26LS31/7438/74LS14/	5
APNO	2 LM3914/HDSP4830/	2
THINK TANK	5 LM3905/555/2SF521/2N2907/2N2222/1N4001/1N914/	5
COAR	4 LM311/KM386/CLM6200/LM335/MC7812ACT/T106D1/2N3906/XFT45U/NE2	4
DENO	1 LM324/MPSA06/	3
	5 LM311N/AD532KD/TL081/AD7512DIKN/SN74LS76/74LS00/2SK325/A115E	7
	1 MM74C221/MM74C915/MM74C192/MM74C151/MM74C193/CD4025/CD4093,	9
	1 LM358/1N270/	1
IDEAS FOR	1 LM117/2N2222A/	2
	1 LM358/HEDS1000/	2
HOBBY SCEN	1 LM309K/	1
	1 LM3914N/LM324N/2N5129/1N5250B/1N4001/1N914/	3
DEID	1 LM334/1N5819/	1
BUILD THIS	1 LM723/BD139/TIP3055/1N4002/1N5257B/ECG373/	3
BUILD THIS	1 LM3914/1N4007/1N4001/	1
	2 LM1458/NE555/2N3904/2N3906/7805/7905/1N4002/1N914/	4
DEID	3 LM555/CD4093/LM339/1N4148/2N2222/	2
DEID	1 LM393/2N2896/TIP47/	3
DEID	1 LM339/74HC164/LM556/74HC00/74HC273/MC1489A/	6
	3 LM386/2N3486/741/2N3904/1N914/	4
RFDEFE	2 LM118/CD4052B/QHF2A10.7B/TRW-V100E/1N946/	3
WEEKENDER	1 LM117K/1N4002/	1
	2 LM556/LM318/1N4148/	1
	1 LM380/TIL201/	1
APPLICATIO	1 LM363-100/LM308/LM329B/	3
CIID	1 IM6402/IM4702/HEF4528/MAX232/	4
REIN	1 LM311N/	1
HAM RADIO	2 LM386/2N3904/SRA1/SRL1/SRL1-1/	3
DEID	1 LM555/MTP8PO8/2N3906/2N3904/	5
	3 TMS320E17/TLC32040/LF355/LM386/7805/7905/74LS14/	4
	1 TMS4500ANL/TMS4164/74LS245/74LS138/74LS164/	9
FEAR	1 LM317/TCG156/	1
DOSPRAMEA	1 AM685/74LS73/74LS00/CA3083/1N914/	5
DECA	1 LM324/MPSA12/2N5193/2N4401/2N4250/1N4148/	7
FEATURE	1 LM317/	1
TECHNICAL	6 MM74C157/8255/IM6101/1M6402/AD7522/LM311/8052A/8053A/7101/	6
SUMOTE	1 LM339/SLM13M/SLM13V/OP593C/	1
IDDE	1 LM318/LM339/	2

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	1 HM6116/1N914/276-1620/	1
	1 LM3900/2N2222/	2
	1 LM301AH/2N3792/2N3715/2N3645/2N3643/	9
ALL ABOUT	9 LM317K/TIP32A/7812/MJE2955/7912/2N3053/1N4002/1N4001/3140/	2
	2 LM324/MCT81/LM317/BC638/BC637/	8
	2 LM348/4526/4027/78L12/TIS43/BTX18-500/1N4148/1N4001/	5
DAFI	9 LM381/LM381A/LM382/LM387/	1
	2 2N5551/G3M/	6
	1 2N2222A/	1
NODI	1 2N4413/2N4126/	2
	1 ZN428/74123/DG211/747/DG201/741/BC212L/	9
BUILD THIS	2 1N4001/1N4004/1N914/	0
DEID	2 2N3906/1N4148/CA3019/	2
TETA	1 2N3055/2N3772/	1
UPDATES	1 1N914/	0
	3 2N3904/2N3563/2SC1687/2SC829B/2SC710D/MPS3704/2SC1359B/	9
	1 2N6284/2N3773/LM317K/2N2904/293904/	7
UPDATES	1 VN10KM/	1
	1 2N6271/2N2905A/2N2219A/TIP519/IN2991B/IN751A/IN3016B/IN3005B	7
NOTES	1 2N1711/40410/VG3X/VC80/1N4157/1N3866/	3
INMEHIENPH	1 SN7525/UA761/9602/9318/	4
DEGU	2 INA110/OPA2107/OPA27/REF102/MC1403A/	3
	1 2N3390/	1
BEGINNER'S	4 2N2222/SBL1/TL081/1N914/	2
BUILD THIS	1 1N4002/	0
	2 2N5911/2N3906/2N3904/1N914/	9
	1 3N204/2N5397/1N756A/	2
	5 4N32/2N3019/1N4148/	6
CIID	1 CNY17/4N35/TAG280-500/TAG70E/BC264D/BC237B/1N4901/1N4005/	8
CCT CIRCUS	3 2N2222/1N34A/	1
NOTES	1 2N3904/1N4007/	1
DENO	1 2N2222/	1
NOTES	1 1N4608/SCF2500/	0
NOTES	1 1N4005/	0
	1 1N4001/276-1101/276-068/	0
LETTERS	1 1N4003/	0
SHCI	1 2N2907/2N2222/78M05/	6
INNUSP	1 2N3640/2N2369A/2N918/	4
TECHNICAL	1 1N914/	0
TECH TIPS	1 2N3904/1N4148/	5
HINTS AND	1 2N2222/1N4149/	2
	5 2N5486/2N2412/MPF102/MPS-U31/CX161/2SC668/CX162/2SK42/	9
	1 2N3391A/1N914/	2
PROJECT WC	1 2N3324/1N34/	1
	1 1N270/1N34/	0
CCT IDEAS	1 2N5462/TL084/74LS123/74S74/2N3904/1N4148/74LS122/	6
	3 2N1305/741/2N2222/1N270/1N914/LM3900/2N305/2N222/1N34/	7
TEUP	1 2N5064/1N4007/	2
	2 SN74121/2N2217/1N914/UZ8806/	2

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DEID	1 2N3954/741/1N4148/	3
NOTES	1 INA101/OPA104/3650/722/	5
CONSTRUCTI	1 1N34A/	0
QRP	1 2N2222/	1
UNDER CONE	3 2N2222/2N4416/2N2222A/	3
	1 3N211/2N3904/	2
	3 INA101/LM361/75450/AD515/1488/74221/4066/	4
	1 1N751/	0
SPTEAP	1 2N1597/	1
	1 INA104/OP27/OP12/	3
FEATURE	1 2N2646/MOC3010/SC142E/1N4001/	3
PROJECT	1 1N5360B/CG75L/	0
	3 2N3904/2N2222/	3
	1 1N4000/	0
FEATURES	1 2N2904/	1
PROJECT	1 SN76495/4066B/4011B/4023B/4012B/4520B/4093B/TL084/TL082/	9
HOCO	2 SN76495/2N2222/2N3904/2N3906/1N914/	4
APID	1 IN4148/	0
	2 2N4124/2N2925/2N3961/2N5132/	2
CCTS	1 INS8073/74LS125/4N25/74LS04/2716/2114/2N2222/74LS75/2N5777/	9
	2 1N914/	0
BUILD THIS	1 1N5360B/	0
THINK TANK	3 MOC3010/7805/1N4001/	1
BUILD THIS	2 MOC3010/Q4006L4/2N3904/1N4002/	3
BUILD THIS	3 COM9046/LM358/MC34119/78L05A/2N2222A/	4
ASK BYTE	1 COM2017/AY5-1013/COM5016/CD4049/MC1489/1N914/	3
	5 FOT110KG/FOR110KG/LM318/LF353/TEK151-0109/TEK153-0556/1N34A/	4
	3 MPS-A13/SD1274/LM317T/U310/2N2222/1N4001/1N4148/1N914/ECG581	3
PART I	1 OP15/OP07/LF398/DG506A/	4
DOSPRAMEA	3 OPA111/353/317/REF02/FET620/	4
	1 OPA111/LM11/FLT-U2/AD541J/S994-19/	4
CQ REVIEWS	1 MPS2222/1N4735A/1N747A/	5
	2 MPSA92/2N3439/2N2222/ADC0800/CD4047/	6
FEEDBACK	1 MPSA13/1N4001/	1
DEID	1 HPWR6501/2N3724/2N2905/MBD501/	3
	2 OP07/DIV100/	5
VEDE	3 SP9680/MC10198/MC10105/UA733/741/BFT25/BFT92/BC108/2N5771/	8
SPCO	2 OPA111/5534/PINSPOT-2D/2SK146/2222/A12/CR470/	6
	1 TP53130/MM53130/LM386/	2
NUEL	3 XP2040/MPSU10/1N4765/1N4767/1N4771/2CK82E/	5
BUILD THIS	1 MPSA65/TL062CP/1N914/MV50/1N4148/	3
ARTICLES	1 OPA111/	1
	1 UPD7514G/MB3756/UPD2834C/UPB571C/S7116A/TC4094/MC3357P/	9
IDDE	1 OPA2111/MC1403A/	1
DEID	2 OP260/OP160/	1
ELNO	1 OP07/	1
	1 FPT100/	0
	1 OP27/2SK117/2N4116/	3
AUDIO AIDS	2 NPD5566/2N2920/AH5020CJ/2N5551/2SJ79/2SK216/2SK175/2SJ55/	9

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	1 OP111/LT1028/2905/2219/	4
DEFE	7 OPA627/OPA602/OPA111/2N6907/FIL3V/22BH18M/UV100B/5802-4201/	4
IDDE	1 OPA501/	1
BUILD THIS	1 MP5A64/MP5A14/1N5742/1N4002/20K201U/CL90/	2
REPA	1 SP93808/SP92701/100136/100113/11C06/	9
PAPERS	1 OPA606/OPA602/	1
ARTICLES	2 OP77E/AMP01E/LM299A/LF411/LM11/LM7806/2N6660/2N6057/2N6050/	9
DEID	1 LP2950/2N3906/2N3904/	3
SCNO	2 MPU133/2062E/2N2218/2N1378/D3202Y/MDA980-5/IN4446/	3
	1 IR3C02A/LT024MFO/	2
PAELCI	1 IRF530/11DQ04/	1
	2 MRF901/LM317/1N4004/	2
	2 IRF522/IRF520/VN46AF/VN10LM/VN10KM/2N3055/BZY88C15/40HFR40/	3
	3 XR2208/741/8038/7812/1N4001/	4
	1 IRF333/MJ4646/2N2907/7905/74121/	5
DATA BRIEF	1 IR2E04/	2
	1 CRT9028/8051/NMC9306/LS240/1488/1489/	6
	1 IRF330/UC1842/MUR840/	2
	2 MRF901/	1
LETTERS	1 ERZ-C140DK201V/N2H/	0
	1 RS2036/1N914/	2
	1 LS244/LS240/LS374/LS174/LS155/LS125/05/LS04/	8
SHPA	1 2SK241/	4
CQ REVIEWS	3 3SK73GR/2SK125-3/UPC14308/TL494/S2VC10/AC08FIER/2SC2751/	9
FEATURES	2 2SC1675L/1S2688EB/1S2075K/	1
ACBEHATA	1 CSP300A35/	6
	1 BS170/XC5491/	1
	2 LS374/LS138/S161/SL541/2N5836/SW201/	9
DEAP	1 DSP56001/ADC080/HC4501/2716/74LS32/74LS374/	9
DEAP	1 DS96175/DS75176B/LS123/LS86/LS74/LS132/LS04/LS08/LS00/74A04/	9
NOEX	2 RS7216C/308837/SN7413A/308455/BC109/587024/	2
COAR	1 ISD1016/LM7805/2N4403/	3
FEATURES	2 HSP45102/CA3338/74F132/MM74HC14N/7805/CTX120/1N4148/1N914/	4
	1 LS123/741/	2
	1 2SC945/	1
CCT IDEAS	1 2SA564/2SC828/	2
	2 DS0026CN/IRF9630/IRF340/2N2369A/IN4742A/IN914A/	4
DESIGN ENT	1 CSC7008/	1
CQ REVIEWS	1 3SK74M/2SK125/3SK74K/2SC945/2SC1636/2SB562C/M1204/1SS53/	9
	2 2SC1008/2SC681/1S1834/440CFB4/TA7609P/VO9C/	2
	1 3SK88/ECG455/	1
COAR	1 BS170/IRF511/276-2072/	1
TENO	1 RS307-957/	1
	1 2SC756/2SC595N/2SC400Y/SD22B/RD5A/UPA15/	9
	1 RS276-066/	0
	1 CS209/	1
APDENO	1 2SC711E/CDG00/	2
	1 2SC1815Y/151555/F40192/MSM5501/MSL980Y4/MSM561/MC1416P/	9
SCIENCE	1 LS776/	2

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SINO	1 LTC1052CN8/LM336-2.5/LM335/	3
IDDE	1 LT1115/LT1097/LT1010/1N4002/	3
DEIDFEAM	2 MTP1N100/1N758A/	1
NEAPTEANDE	6 LT1002/LT1001/LT1006/VN46/DM74C74/LM199/2N4393/74C906/CD4022	9
NOTES	2 NTE67/	1
	1 ZTX300/1N4001/BC184L/	2
HISTORY	1 MT3/	7
	4 BU208A/TIP142/741/555/	5
ASK BYTE	1 MUX08/LM741/LM134/	3
	1 TU301/	0
	1 UV202/	1
BUILD THIS	2 MV2117/1N757/MPF102/1N34/2N3563/2N3564/1N4002/2N3866/2N3565/	9
ENGINEER'S	1 MV1650/MZ2360/1N757/2N3704/T1407/LM1496/	4
CORRESPON	2 MV209/	0
DESIGN FEA	2 HXTR5101/HXTR5102/	2
APPLICATIO	1 MX594/MX595/MAX138/	2
APSU	1 FX204/MC14046/MC14020/MC14013/MC14016/MC14023/MC14093/	9
LETTERS	2 CX20197/TL072/	2
ANTENNAS	1 UX199/	1
FEATURE	1 AY3-1015D/74LS04/7490/7493/74LS121/74LS07/2N2907/2N2222/	9
DEGALIDE	1 BYV26B/	0
CICICE	4 AY3-1015/74LS374/74LS175/555/74LS02/CD74HC4040/7805/LM317/	9
	5 AY3-1015D/ADC0804/74LS162/74LS161/74LS157/556/555/74LS74/	9
CLLO	1 AY3-1015D/MAX232/74LS244/MC14411/74LS04/	4
HOME BREWII	2 AY3-1015D/LM555/74LS74/ICL7660/74LS00/74LS32/MC1488/MC1489/	7
ARTICLES	3 AY5-1013/TIL112/74123/7404/74C914/2N2905/7493/7492/7400/	3
	4 8085/8253/8251A/8279/AC5947/HDSP6300/XR2211/AD558/6116LP/	7
BUILD THIS	1 8038/741/1N914/	3
PROJECT	1 4017B/4024B/4000B/SGSM083/TL071/BC184/2N3906/	6
ELDEREPLDE	1 10H8/74LS374/74LS193/	3
INMENSUP	2 10192/10124/10110/10103/2N5179/1N914/	4
MICROPROCE	2 8088/8205/2004/7474/2817A/8259A/8282/	8
	4 8048/LM741CH/LM340K5/LM340K18/4195/2N6388/7215/SPD530/PIN5UV	3
NEWS ANALY	1 8088/8086/80150/8284A/	3
	1 10161/F10016/10162/10131/	6
LEED	2 8038/LH0032/8007/741/2N4857/2N3904/3N248/1N749/1N485/1N914/	9
DEID	1 4051/LF353/	3
CCT CELLAR	7 80C31/74LS373/27C64/43256/74LS374/DS1210/LM311E/82C54/SB170/	8
COAR	1 4049/7805/TIP120/2N3055/	4
	2 2016/MB114F307/10125/74LS221/74LS132/75454/74LS109/74LS138/	9
FEAR	2 4093/	1
PAPERS	1 8031/8155/2732/MC14433/CD4067/74LS373/	7
ENGINEER'S	1 4093/4030/	2
	1 8086/8288/8284A/8282/	4
INRE	1 8088/8259A/8255A5/82375A5/8284A/8253-5/74LS373/74LS245/8288/	9
DESIGN ENT	3 8023/68440/68450/	2
DRBO	1 4068/4051/4042/	3
ARTICLES	1 308/2N3906/2N3904/1N4148/	6
	1 8039/8755A/AMI5101/8251A/	4

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BUILD THIS	2 4018/LM555/LM358N/LM311/1489/1488/7414/74LS05/74LS00/LM7912/	9
FEAR	2 8031/27256/MAX232/74LS373/75176/74LS00/7407/LM7805/1N4148/	8
FIFU	3 80386SX/74F521/74LS374/74LS245/74LS221/74LS139/74LS138/7407/	7
DESIGNER'S	1 4011/	1
IDEAS FOR	1 4011/40193/4508/4068/4368/	8
	1 9080A/9555/9551/	7
	1 0033/5539/SD380-23-21-051/	4
DEID	1 8048/8748/74LS240/74165/1488/1489/2N3904/	9
ARTICLES	1 4004/4003/4002/4001/	4
PROJECT	1 4017B/TL072/4001B/7812/IRF511/BC548C/1N4001/	8
	1 80C51FA/6821/2764/6116/MC3486/MC3487/4052/74LS373/74LS244/	9
	1 8085/EH8B2/R8B/7438/7414/	7
DESIGNER'S	6 4011B/4001B/	2
HOBBY CORN	1 4093/74C14/	1
	8 7106/7107/3902/1N752/2N4402/2N4400/2N4403/1N753/2N1711/4077/	3
PROJECT	1 3140/4001/BC214L/ZTX500/1N4001/	6
ARTICLES	1 712D6/	1
COPA	1 81C55/4584/4081/4013/RC302/RL512G/	5
	1 710/LS26/LS00/2N3906/1N3064/	9
EXTE	1 H13A1/CD40106/74C901/	1
	1 3139E/TLC555/BC214L/BC184L/78L05/4016BE/7555/2N3904/2N3905/	9
BUILD THIS	4 7106CPL/CD4066/CD4051/CD4030/555/1N4734/	7
NOTES	1 8122/	1
CIID	1 3140/LF357/555/CD4066B/4148/	4
DESIGN FEA	1 315-001/	0
BUILD THIS	1 V130LA10A/	0
NUEL	1 T212/AM2130/74F30245/10124/10125/74ACT191E/74F138N/	9
PAPERS	1 T212-20/EP310/EP600/1630/74590/PM7548/OP215/	8
READOUT	1 82359/82358DT/82353/245/82357/82352/82351/	5
FEATURES	3 Q2220/CA3338AE/7805/SE1109/1N4004/1N914/	2
TENO	1 324/2N3904/IN914/	2
LETTERS	4 12AX7/	1
PROJECT 80	1 8255A/AD570/AD571/AD7501/74LS138/74LS04/74LS32/	6
SPISPA	1 12500SCF/	0
	1 8212/74LS148/2716/Z80A/SPO256/SPR016/VN10KM/LM386/2N3904/	9
PAPERS	2 V20/8155/8755/8284/MC1408/XR2208/	5
UCDETE	1 82C82/	1
CIID	2 82C55/Z80/HC164/HC161/HC123/HC14/HC08/07/1N4148/	5
	1 725/235/741/MV5752/HEPP0001/LM299/TIP3055/2N2222/HP400/	9
PROJECT 80	1 8255A/AY3-1350/74LS138/74LS74/74LS04/74LS02/74LS32/2N2222/	9
	3 4202/14528/4016/	9
DEAP	1 82C55/26LS31/26LS32/	5
STATE OF S	1 L272/	1
DESIGN	1 82730/IAPX186/82731/	3
INMEHIENPH	1 R3036/R3345/	1
	1 4367/8007/DTS704/	4
	1 C31005B/2N4957/	2
	1 C30902S/	0
ARTICLES	1 C31034/SN75733/1N5277B/	2

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	2 C31034A02/MPS6530/MPS6518/6N136/1N5242/1N4756A/1N965A/1N967A	4
	1 C30921S/	0
IDDE	1 74HC04/1N914/	1
COPR	4 74199/7485/7447/7402/74LS90/74123/NE555/2N2222/276-1646/	9
BEBE	1 741/	3
	3 741/	4
	1 74121/556/AD534/710/741/7474/SHM-LM2/TAD32/4050/4049/	9
COSC	3 741/	1
CIID	1 7474/2N3904/2N2222/BC546/1N4148/	5
TENO	1 747/AD571/2N4401/4066/4010/4013/4011/	9
	1 74LS02/74LS367/PN2222/	3
BUILD THIS	3 74HCT688/74HCT240/74HCT221/74HCT32/74HCT14/74HCT00/2N2222/	8
	1 74LS299/74LS00/	2
	1 74173/LM311/74193/7404/	5
PROJECT	2 74C926/74LS132/MC14046B/74LS221/74LS390/2N3904/74LS04/W02M/	9
DESIGNER'S	2 74121/7404/2N3563/2N4258/	4
DEID	1 74S244/FOX1100/74LS14/74LS00/74S38/1N5817/	5
	1 74C922/4013/4016/4024/NE555/74C150/50240/4047/2N3904/LA3080/	9
	1 741/AD426A/DG201/	6
REPA	1 741/1N34/	5
PAPERS	1 74LS590/LM317/2N4401/	5
EXPERIMENT	3 7404/7413/	1
	5 741/TIP3055/MPS2907/	4
DEID	1 D41D/D40D/2N3906/2N3904/1N4148/	4
	4 74LS161A/74LS245/74LS273/74LS74/74LS03/74LS32/74LS08/74LS21/	9
COAR	1 1458/1N914/1N4148/	2
APPLICATIO	1 7475/7447/7432/7404/7402/MAN72A/	9
APPARATUS	2 741/301/S642B/RCA2205/	1
	1 74LS126/6116/74LS367/8212/7408/74LS138/7411/7404/7474/7432/	9
DEID	2 74LS193/74S85/8T97/	6
ARTICLES	1 74121/7413/2N3904/	4
	2 74LS393/NE555/2764/74LS157/741/7805/2206/DC10/2N4401/1N914/	9
IDDE	2 44BH05M/OPA128/	1
DAACSY	1 74LS244/74LS112/74LS260/74LS04/74LS00/74LS32/74LS10/74LS33/	9
INNUSP	7 74164/74154/74S140/74128/7474/7420/74S04/74S02/7401/7400/MV1	9
DENO	1 7430/2N3904/	5
CORRESPON	2 7408/7402/7400/	2
NOEX	2 741/TIC47/BD437/MEL11/1N4448/1N4005/	4
	1 741/	6
	2 74LS155/74LS138/74LS47/74LS86/74LS90/555/74LS85/74LS21/7805/	9
	2 74148/74LS138/74S374/74ALS374/74ALS74/74ALS169/	4
	1 741/	1
ARTICLES	1 74123/7476/AM685/10125/7406/	6
TECH TIPS	1 74LS10/2N3905/2N3965/CA3046/SN74S188/SN74S288/SN74S287/	5
IDEAS FOR	2 74123/74175/2N2222/74132/1N4148/	2
	2 74LS123/74LS192/74LS85/74LS04/74LS76/74LS191/LH0063/	9
LETTERS	1 74LS367/74LS244/74LS193/	6
CIRCUITS	1 741/	2
EXPERIMENT	2 7404/74LS04/	1

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	2 74LS273/74LS244/74121/7407/7402/7400/	5
APPARATUS	1 741N/AD582KD/3140/4093/741S/4528/	6
EXPERIMENT	2 74125/74173/	1
SYNO	1 74126/7402/7474/7432/	5
DEID	1 74LS245/74C373/	2
	1 74LS641/74LS244/74LS175/	4
FEATURES	1 74HC175/74HC86/74HC30/	5
COLUMNS	1 74ACT374/74ACT373/6116/27C256/20L8/80C186/	7
GRAPHICS A	1 74LS245/TMS34010/PAL20L8/TIBPAL16L8/74AS841/	5
CIRCUIT ID	1 74C922/ULN2001/4528/4016/1N914/	4
	1 741/	3
CIRCUITS	1 74C04/4049/	1
	2 74ALS14/1N4148/	1
DEID	1 74HC574/74HC138/74HC154/74HC32/74HC02/	7
	3 74LS76/74LS132/	2
	1 741/BU105/318/BC109/BC108/RCA30816/	9
NOEX	1 741/091.608/091.609/	2
	3 1489/2N3906/1488/XR2211/XR2206/2N3907/2N3904/	4
	1 741/LF398/74121/74107/7400/	9
	1 74367/74245/74138/74122/7474/	7
BUILD THIS	5 74LS364/74LS245/74LS244/74LS30/74LS25/74LS02/74LS15/74LS04/	9
COMPUTER P	1 74LS257/74LS194/74LS151/74LS74/	6
UPEN	4 74S240/74S38/74S00/1N4148/	6
FEAR	5 555/2N3904/1N4001/	2
HOBBY SCEN	1 555/	1
DESIGN ENT	2 6522/TSC7660/TSC500/TSC701AM/	3
	1 555/1N914/	2
CIID	1 555/6502/6532/ZTX108/74LS04/1N4148/	3
IDEAS FOR	1 556/TIL112/7812/	4
	1 555/4001/BC109/	4
	2 L567CP/LM386N1/4001/2N2222/2N3904/1N4001/1N59/	6
	1 555/7486/7474/7432/7408/7402/7805/2N2222/1N914/	7
	3 R5621/1N914/741/	1
DRAWING BO	1 4553/4511/	2
NEW IDEAS	1 555/2N3819/1N4001/	2
LEDO	2 555/	1
THINK TANK	7 555/TL072/LM383/ECQ5453/2N5400/2N4401/TIL209/1N4001/1N914/	4
NOTES	1 555/	2
HARATE	2 45/83/80/	2
DRBO	1 4508/74LS257/2716/4051/4040/4049/2N3906/	9
	1 357/HEDS1000/78L05/	4
ARTICLES	1 3551/	1
TECH TIPS	1 555/BC558/	2
DEID	1 555/74LS244/AM25LS2521/74LS374/2716/74LS74/74LS161/74LS32/	9
IDDE	2 L5380/74LS374/74LS123/74LS74/74LS20/7407/74LS04/	5
	1 R647-01/	1
NOTES	3 56210N/56210M/BYX38/7413/7490/1N4001/1N914/7805/	2
TENO	1 361/302/	3
CICI	4 567/7808/IRF641ND/MJE3055/2N3904/519HT32/1N4004/	3

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IDDE	1 P6KE16A/TR22/	0
FEATURES	2 567/	1
	2 U760/74221/7428/7408/7485/74161/74123/7404/1N914/	5
	1 276-068A/	0
BUILD THIS	2 8748H/U LN2803/7805/	2
PART I	1 8755/8940/MMT2222/	7
	1 Z8108/Z8410/Z8440/Z8536/74LS373/	5
VHOS	2 6805/ZN428E/SL1640/4508/4503/4046/74HC374/2716/74HC10/78L05/	9
	1 1802/	2
	1 7805/	1
DRAWING BO	1 7805/	1
	2 S83006E/4900/	1
DESIGN	2 1802/2716/1852/1822/4066/4042/	8
DESIGN ENT	1 68000/68010/16R6B/20X10A/673103/	4
	5 Z80/8255/74LS32/TIL111/74LS240/RS276-1648/74LS367/74LS244/	5
ARTICLES	1 7812/1N4001/	1
	2 38P70/F6856/8216/	3
DAACSY	1 68230/68681/AM7990/AM7992/MC68020/WD33C93/AM7996/	3
BUILD THIS	2 G8870/4514/4001/7805/2N2222/	4
HARE	1 Z80/6301/7508/	3
FOREGROUN	1 6860/CH1267/CH1262/LM301/1458/1489A/1488/7486/7407/7404/7400	9
APID	1 78L05/BC558/BC546/	2
DEAP	1 182358/182357/182355/182352/182596/	6
DETECTORS	1 8852/R1017/6N135/2N3439/1N4735/	3
DEAP	1 1860/IDT49C466/73720/	3
PRSP	1 7805/LM340T5/	1
ANDE	1 592/TL081A/	2
	1 393/741/301/200/747/	9
	5 CA3065/MC1358/733/NE592/LM324/MC1357/MC1350/74S112/MC5121/	5
	2 CA3524G/CA4140/2N6107/S7310M/D2540M/D2540A/1N914/	3
ARTICLES	2 CA3080E/LF411/LM311/4013/	6
PROJECT 80	1 OAC5/74LS138/7474/74LS32/74LS14/	6
DEID	1 MAX622/LM10/IRF541/1N914/	3
NOTES	1 GAT1-010/	1
	1 CA3280/CA3240E/2N4036/	3
	2 CA3140E/	2
DEAP	3 DAC8408/OP471/2N4393/1N753/1N4371/1N4148/	2
ENNO	2 UA749/UA739/	1
	1 HA4950/	1
	1 DAC0800/LF351/74161/76161/4016/7430/	8
DESIGN ENT	2 IAPX186/8283/8208/2164A15/74S00/74S10/74LS245/74LS74/	9
SPOTLIGHTI	1 TA7120/TC5051/TC5022/NE555/NJM2903/TC4069/UPD4049BC/TC4011/	9
PAPERS	1 UAF41/732/2N5779/TIL31/	5
	1 VA703/	2
DENO	1 CA3140/3N200/BC109/	4
	1 CA3049/OA70/	1
	2 OA47/	0
	1 MAS1202/74107/74123/THC0300/74157/	9
	1 HA2539/HA5033/	5

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APTEPH	2 6AW8A/2N5223/FPT100/	1
HIKI	1 UA723/TIP42A/	2
REPA	6 CA3140/NE555/BA320/	4
PROJECT	1 CA3240EE/	1
LETTERS	1 CA3140/RC4152/	3
	2 SAA5235/SAF1135P/SAF1134P/	2
	1 SA3000/SA3001/SA2995/P8182/	4
DEBR	1 MAX155/DAC08/74HC373/4060/4069/4017/	6
	1 CA3130/	3
	4 MAX450/HA2520/2N3704/3554/4066/	3
ENRE	2 CA3080/LF353/	2
IDDE	1 CA4007A/	1
	1 BB3554/HP5062/	1
PAPERS	2 BB3551J/BB3540J/DAC-IC8B/TL084C/BB4204J/LM741C/LM319/NE555V/	7
	1 MBS4991/2N6343A/1N4003/	2
CIRCUITS	1 MC1350/MC1310/MC1330/MC1358/LM386/2N3565/	7
	6 MC3356/MC1648/MC1376/MC12013/MPSH34/3N201/BFY90/MPS6518/	6
	2 ICL7145/LF356/OP07/1N5711/ICL7650/ICL8078-5DO/	3
SYAR	1 MC88000/2681/68440/53C90/88200/7990/	4
IDEAS FOR	1 MC14528BCP/	1
	6 HCPL2601/311/4049/ZTX551/ZTX451/ZTX314/4011/4584/4027/4528/	6
	1 ICL7106/2N3819/B212/	3
ARTICLES	1 MC1456/LM311/LM310/SN74121/7420/7400/	9
ALL ABOUT	1 MC1330A1P/74123/BFQ85/2N3904/7812/1N5231B/1N914/	6
CAE CAM	1 MC68HC11/MC68HC5C4/MC68HC05C4/MC68HC04P2/	4
ANALOG CCT	1 MC10318/	1
	5 MC6805S2/MCM2716/MC14520/74LS197/MC1408/MC1455P/MC145414/	6
NEAPTE	3 ICL7115/IH5108/74LS191/AM542/AM543/74LS198/SHM6/LF398/4013/	5
HOW TO	1 MC4024/	1
WEEKENDER	1 BC109C/ECG123AP/1N4148/	1
APPLICATIO	1 MC68HC05E0FN/27C64/	2
	3 MC14027B/4N50/2P50/8P10/8N10/MC14011B/MJE15029/BD789/MJ16020	8
	3 MC6802/74LS138/74LS373/MC68230/MCM6836R16/	8
DESIGN	3 BC327/BC109C/1N4001/	4
HAM RADIO	1 ECG100/1N34/	2
CIID	1 BC108/BC179/2N2905/1N4004/	3
	1 MC6821/TMS2516/MK48Z02B/SN74LS00/	6
	1 MC14583/2N2905/BTY29800/1N414A/	6
NOTES	3 MC1660/2N2905/MMT4261/MMT3060A/TD263B/Q6-100/1N4447/	3
CQ REVIEWS	4 RC4558/LM3900/2N54/3N201/MPN3404/HP3379/MBD101/2N3866/MV209/	9
	2 MC10186/MC10181/MC10179/MC10101/MC10125/MC10115/MCM10139/	9
	1 MC34002P/TL082CP/LM386/	2
	2 MC1468705G2/MC146816/MC145001/MC145000/GE69D3R09/2N4125/	5
BITS	1 MC3403/NE570/NE571/7806/78L05/7812/78L12/	4
LETTERS	1 BC327/BC109/1N4001/	4
	2 MC3418/741/2N2222/	5
	2 MC1496P/74164/CD4017BC/CD4070BC/CD4072BC/CD4066BC/CD4013BC/	9
	1 BCY71/BF758/BF761/MD3251A/1N914/LM394C/CR200/MD1129F/	9
DOSPRAMEA	1 ICL7106/CA3140/2N2222/TIL78/TIL32/BY127/1N4001/1N914/	6

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CLCI	1 MC1458/MPS8099/MPS8599/2SD426/2SB556/2SD525/2SB595/MPSU57/	9
VIIN	1 NCR5380/53C80/74LS245/74LS156/PN2222/	4
	2 MC34004P/4051AU/4047/C7V5/	3
INMEHIENPH	2 RCA4552/MC10116/2N2369A/HP5082-4484/	3
GEIN	1 BC547/BAT85/	1
NOTE	1 HCPL2601/D469CJ/MTP1N100/ZNR-C20DK102/	9
DEID	2 MC145503/TP3054/	1
ARTICLES	1 MC10192/MC10161/MC10114/MC10H016/2N2222/	7
IDEAS FOR	1 MC14411/4011/74164/2N3904/7493/	6
	2 LCW10F/78L05/BPW28/	1
	3 ICL8048/AD538BD/3CDP/1N914/MC78L12/PCIM176/	3
DEAP	1 BCT8245/BCT8244/16R4A/20L8/	7
LEED	2 MC10115/MC10158/MC10186/MC10125/10H8/16L8/MC10124/MC10104/	9
	1 MC68000/74LS373/MC6844/74LS130/74LS148/74LS138/74LS32/MC6854	8
DEID	1 AD630/BC237/LST710L/1N4148/	2
TECHNOLOG`	2 AD536AJD/LT1088/LT1013/AD2026/2N2219/LT1004/1N4148/	3
	1 TDC1007J/HI8B/6800/	3
	6 SD1850/SD1801/LM317T/LM337T/1N5248B/BA182/MPN3401/UM9401/	2
ORAR	1 CD4098/74C00/TL074/1N914/	4
	1 AD0042/AD517/AD581/AD515/AD284/	8
FEAR	1 ADC0809/74LS245/74LS244/74LS175/74LS138/LM555/4N29/74LS74/	9
TENO	1 AD7521LN/4085/LM311/LF357/747/CD4098/CD4042/CD4024/CD4001/	9
	2 HDC9224/LSV38/LS245/UPD4016/25LS2521/LS161/LS244/FDC9216/	9
	1 AD712/SG1495N/	6
SPISPAVAIO	1 AD5539/LH0033/SD197-23-21-041/SD380-23-21-051/S1743/	4
	1 BD6/562/	0
NUBO	1 AD7110KN/CA3140/	2
PAPERS	1 AD595/ICL7660/2N2222/SA24CA/	3
	7 CD4001B/CD4001UB/CD4069UB/CD4049UB/CD4013B/CD4011B/CD4011UB	4
DEAP	3 GD620/GD610/IMSG171/LM334/74HCT374/74HCT245/27512/74HCT244/	9
BUILD THIS	1 CD4538/M290/CD4093/MOC5010/78L05A/TIC119/2N2222/1N4002/	8
SUPA	2 AD509/LM311/LF398/74LS121/74LS74/74S00/1N4305/	4
IDDE	1 CD4046/LF311/2N2907/	3
DEID	1 AD630/OP47/FDH300/	1
	3 AD536/OP27/OP07/3140/1N4148/	5
IDDE	1 CD4538/LM393/CD4081/78L05/1N914/	4
	2 AD9685BM/BFT25/BFR92/BFR30/	3
	1 LD604/NE529A/BSX87A/MPS3640/BAZ18/BAW62/	4
	1 AD515JH/GAP01/LM308H/CD4093BC/	5
	1 AD571/AD582/74LS244/74125/74LS138/7404/7400/LM741/	9
ROBOTICS	1 ADC0816/	1
REPA	2 AD834/	2
	1 AD589/IC7650/	3
INDUSTRIAL	4 AD592/AD1403/AD-OP07E/AD741/AD7590/AD670/	3
	1 AD7531J/LH24250/LM2901/NE555/74C193/74C192/MEM955/ID100/	9
	1 CD4017/LM555/	2
BUILD THIS	2 TDA3330/LM1881N/78L05/2N4401/1N4002/	8
FLMAEM	1 ADC601/OPA627/OPA600/	3
SPCO	3 AD508J/301/LM324/741/	2

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GEINPR	4 TDA1074A/XR2206/TDA2003/LM358/LM324/BF245B/BC548/1N4148/	9
	2 UDN3611M/555/2N2222/	3
	1 CD4041B/CD401023/CD4013B/CD4069B/2N5320/2N5322/2N4036/2N2102	9
PRIN	1 DDI4029/AM29005/74ACT245/	3
	1 AD536A/1N914/334Z/TL072/074/	5
SEHA	1 CD4053/	1
DEPE	1 WD14C10/WD14C11/WD-Z33C93A/80C188/27C64/LS245/373/27C256/	8
	1 CD4016/3140/4205X/	9
	3 AD736/AD737/7136/1N4148/	2
	2 ADC7311/MC27C16/74HC368/74C175/40085B/74C193/74HC4040/74HC51	9
PAPERS	2 AD523/AD515/AD503/AD832/	6
NEAPTE	6 AD536AJH/AD636/AD644JH/FD333/AD534JH/AD741CH/AD580J/AD589/	4
	1 NE64535/1N645A/	2
APNO	1 NE99532/	2
	9 NE5230/74HC02N/1N914/	2
	1 TEA1868/BZX79C8U2/BZW14/BAS11/	1
RATECO	1 NE5205/	1
DENO	2 NE565/NE564/741/	2
PROJECT	1 NE556/4011/4518/4511/	5
	1 NE592/2N918/MV209/	2
DEFE	1 NE71083/NE67383/	2
	1 NE521/PAL22V10/74HCT04/2N3904/	5
PAPERS	1 NE555/PVR1300/	3
TEBR	1 NE5570/SCN6400/	2
	1 NE555/741/LM311/CD4051A/SAD1024/7490/7493/	9
CIRCUIT CE	1 XE1203/74LS02/74LS30/	3
	1 NE555/SN7470/AD581/A540JH/	5
	1 NE536/LM311/DAC02/7474/7486/74191/7420/	9
RAWO	1 NE544/	1
73 REVIEW	1 NE555/2N2222/	2
RFDENO	1 NE555/4011/2N2222/IN914/	7
RFFETE	1 NE02135/	4
	1 NE555/1N4148/	1
NOTES	1 HEPC6052P/US74121A/SN7476N/HEPC3000P/GE18/2N3393/	7
ELSC	1 MF10/4049/	2
	1 BFY90/SL301/	6
GADE	3 BFT25/BFR90/BFR91/BFQ23/2N918/BSX27/BSX29/1N914/LM318/	9
	4 LF398A/MM74C193/LM555/MM74C04/LM301A/1N914/2N3904/	6
	1 BFR90/1N914/BFT96/	2
ICSE	1 LF400C/	1
DETECTORS	1 LF357H/SN74121/E308/HP2800/	3
FEATURES	3 MF4CN100/MF4-100/LM358/7808/	4
DETECTORS	1 LF355/	0
	9 LF412CN/5534AN/411/79L15/78L15/2SK170/2SK30A/2SJ74/1N4148/	7
	2 BFT96/BFR96S/LCW10/1SS99/	3
	2 LF357/CA3140/MC14016/MC14528/TIS98/2N5089/2N4036/SGD040/	9
TENO	1 LF347N/OP07/UAF771/2N5484/IN4148/	6
	1 LF398AN/741/555/	3
	7 LF400/2N3810/74121/74123/LM311/2N4393/LF13332/2N2369/LM329/	6

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	3 LF353AN/10124/10114/10105/10125/75114/75115/10115/	7
NUEL	1 LF356/TL071C/LF353/CA3127E/LM3046/2N3546/BF660/BSR18/BSR17/ 1 LF355/	8 0
PASOSTPOHI	1 BGTQ900A-2500V/SSIL40/	1
NEAPTE	8 SG3635/AD537/311/74C74/AD542/2N6308/1N4933/1N5061/ 2 FG1000AH-2500/	4 1
PROJECT	3 TGS813C/LM324N/2N3906/2N3904/AN78L05/ERT-D2FHL462S/1N4001/	6
LACO	1 TGS813/7805/ 2 SG3524/1N3883/741/CA3100S/7400/DS0026/D44H10/D45H10/1N914/ 2 SG3524/7404/4N28/2SK134/2SJ49/BC559/BC549/	2 5 9
ICRAEFHA	1 LH0033/	0
APTE	1 LH0033CJ/	1
INSTRUMENT	1 IH6116/AD7572/74HCT191/MF6/LF353/UA760/74HCT4514/74HCT221/	9
APPLICATIO	3 LH4200/LM358/5882-2800/5082-2824/1N914/	2
HIENNUPHRA	1 LH0002CH/LH0033CG/2SC2901/2SC1730/O5Z33/	5
NOTES	1 LH0063CK/AD46J/LM319/LM3900/CA3080/SD308/E431/BB3500E/DPAD1/ 1 LH0062CH/	9 1
CIID	1 IH5141/LM360/TL072/ 2 LH0032C/LF357N/FDH999/	3 2
NOTES	1 LH0032/LH0033CJ/1N6263/FD700/1N4001/ 2 TIL115/555/TL080/6840/74LS73/1N4148/74132/	4 4
ADIC	3 AIC010/AIC300A/AIC500L/8031/6264/2764/LS373/LS173/LS374/ 1 HI201HS/351/531/311/74F04/	9 6
INCO	2 TI32010DSP/74HCT244/74HCT245/74HCT138/	5
PAPERS	2 TIC126M/2N4444/1N4007/ 2 AIG420D/SP8629/MC1733/BC107/	2 4
DESIGN ENT	1 AIC500/AIC300/AIC010/8031/ 1 PIMOP07/AD515KH/UA748/ 1 DI803P/DI298N/DI258N/	4 3 3
TEFO	1 TIL209A/	0
ARTICLES	2 MJ4502/2N6331/MJ802/2N6328/40410/40409/2N5210/2N5087/1N5729B 2 SK3835/ECG103A/1N34A/ 1 SK97/	9 3 2
APTE	2 5KE400A/15KP160A/BUZ54A/HY1102/HY3202/HCP2601/VPO204/	6
BUILD THIS	1 SK3891/LM380/741/RS276-145/SK3090/	3
IDDE	1 CLC501/	1
INMENUSP	2 CLC401/2N5771/NE586/1N5282/	2
INSTRUMENT	1 TL042/BF245/BC183/HP5802-2303/	6
EXPERIMENT	4 TL490C/LM3914/	2
TEME	1 TL062/LM386/1N4148/	2
CIRCUIT ID	1 TL084/LM3914/ 1 CLC220AI/MC10103/MC10131/SP9680/2N4261/LH0032/SD5000/MC10166	2 9
RFDEFE	1 SL2521B-LC/MSA0870/	5
DEBR	3 IL300/OP77/741/	6
DEFE	1 CL231/16G044/MC12013/MC10131/ZAND21/100070/330/HTO1000/ 3 TL074CN/LM324N/1N300/1N4001/	3 9
DEGU	1 TL431/GP605/	2
SENSORS	1 TL082/THS103A/	2
HAHA	3 ULN2429/	1

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DEID	1 CLC200AI/OP41EJ/2N2222A/HP5082-2835/1N4148/2N4416/	4
DEAP	1 VL86C310/VL86C110/VL86C010/VL86C410/	4
PROJECT	3 ULN2429/555/2N2222/	2
APID	1 TL082/	1
ABBE	1 TL064/LM386/7805/	3
AUDIO	1 TL072/	1
GEIN	2 TLC272/4013/LM334/7805/BC547B/1N4001/	5
SCEX	2 TLC271/	1
ARTICLES	2 TL074/TL072/	2
	1 LM324/	1
	2 LM324/142PCC01D/142PC01D/74121/ICL7662/7805/1N4005/	3
	1 TMS9901/8748/TMS9900/DAC-HK12BGC/ADC-HZ12BGC/AD7501/	9
	2 LM1821S/	1
APPLIED ID	1 LM723/MB101/2N5496/KD167/BD140/BC173C/BA159/PL33Z/PL7V5/	7
RFFETE	1 LM318/	3
SHPA	1 LM741CN/	2
CITEAN	1 LM460/LF358N/7400/	3
	1 LM307/LM324/LM723/8197/85L54/2114L/14526/7493/7541/74174/	9
	1 LM2917N/CD4017B/CD4093B/LM78L12/FPT100/TIL63/	8
TEFE	2 HMF0310/MA46550/	2
ELTEVI	3 TMS9980/TMS9902/TMS9901/SN76925/SN76923/SN76922/SN76921/S12/	6
PROJECT	3 LM3915N/4051BE/4024BE/4022BE/LF353/1458C/LM324/555/BC547/	9
TEUPBIPR	1 LM310/DAC08/MN5245/HA5195/OP07/AD565/	5
BUILD THIS	1 LM324/74LS00/7805/1N4001/	5
	1 AM79C81A/AM79C82A/AM79C83/AM7984A/	5
RFDEAW	1 LM556/LM324/2N3906/2N3904/1N914/	6
	1 MMT807/MMT809/	9
	8 LM339/2N2222/2N4403/1N914/LM3915/	3
APNO	3 TMS9995/TMS9901/Z80/SN54LS612/SN74LS612/TMS9900/'LS74/'LS08/	7
AUDIO AIDS	1 LM339/2N2222A/1N5309/1N764A/XC5491/	3
INMEHIENPH	1 EMI9954K/	1
COAR	1 UM3482A/LM555CN/PS2501-1NEC/LM386-1/2N3905/2N3903/2N2222/	7
COAR	3 LM337/LM317/NE2H/	2
	1 LM380/MC3401P/LM3900/2N3904/1N914/	6
	2 TMM2016/LS181/LS154/6349-1/LS373/LS245/LS374/LS161/DAC0801/	9
HOBBY SCEN	2 LM322/	1
ARTICLES	1 LM311/LM310/SN74121/	8
CIID	1 LM158/	1
TEST CASE	1 LM119/5474/5400/	3
SUPA	1 LM318/SP9685/ZFL500/S00/ADC-HX12BGC/S1190/2SC2367/	6
	1 LM358/2N6015/BC558/2N5818/BC549/OA91/1N4148/	4
BUILD THIS	1 LM339/6402/4015/4520/4021/4027/4040/4029/4070/LM392/74C74/	9
	1 HM6147/TMS32010/74LS244/CD4016/	5
DEID	1 LM308/LM3362.5V/	1
APPARATUS	1 LM393/2N3904/2N4036/2N3019/2N3906/	5
	1 AMP05/VQ1001P/CMP404/	9
TENO	1 LM324N/BC184C/GM104/	3
	1 LM10CH/	1
NOTES	1 LM308/U311/MPS8097/2N3904/	6

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ELELSYSE	2 LM339/LM331/LM308/LM747/BH529/555/LM3080/556/7476/7421/7406/	9
PAPERS	1 LM339/747/74221/74122/	6
ARTICLES	2 LM337T/LM317T/7915/7815/1N5242B/1N4002/	2
	1 TMS9914/SN75162/SN75160/	3
IDDE	1 LM358/LM317L/MST8/	3
	5 AM733/BFR96/AD584/BD677/DAC1222LCN/LF356/MC1648P/74LS245/	9
	1 LM324/TIC216/BD138/TIP30A/DTS425/1N4002/1N4148/	5
ASK R-E	1 LM324/	1
	1 LM324/2N2222/2N3866/1N277/	5
	1 AM685/10125/74121/10124/2N4126/	4
PART I	1 DMC8612/LS169/LS574/LS541/	3
	3 IM6402/IM4702B/74LS164/ZN428/74LS00/74LS74/ZN424/74LS04/1489	3
	1 MM5056/MM5057/MM5058/SN7483/SN7408/	9
	3 MM5369/4017/4049/4011/1N914/1N4001/	6
	2 2N2222A/2N3906/HEP715/2N1711/HEP736/1N914/	2
	1 1N34A/	0
	1 2N706/1N914/	1
APID	1 1N4007/	0
WEEKENDER	1 1N914/	0
	1 ZN425/74373/7400/	4
QRP	1 2N2222/	1
PAPERS	1 2N3904/	2
REPA	1 6N137/BC547/BD132/BD131/7417/GED66DV/	6
TEFO	1 1N34/	0
DESIGN ENT	1 ZN1011Q/8237-5/Z80B/74LS373/	4
	2 VN66AK/UA715/	1
PAPERS	1 INA110/OPA541AM/	2
LETTERS	1 2N5210/2N5087/1N4148/	6
	1 ANZAC183-4/	1
	1 1N914/	0
BEGINNER'S	1 1N914/	0
DESIGN ENT	4 INA102/PGA102/ADC574/OPA121/OPA356/2N2907/REF10/	4
INME	3 2N2222/MFOD72/HP-HLMP-D155/SD3478/	1
CIRCUIT CE	6 2N3792/2207/74LS157/LM741/LM134/TIL78/7406/TIL220/TIL32/	5
	3 2N3904/	2
CODI	1 2N2222/1N914/	2
	6 2N3904/2N3906/MPF102/2N2222A/MV209/LM386/1N914/	2
CIRCUITS	1 2N3904/1N914/	4
DEID	2 2N2907A/2N5060/8048/	2
ELCOCI	1 2N2222/	1
TECHNOLOG`	2 1N4007/	0
BEGINNER'S	1 2N2222A/2N3866/	2
NEW IDEAS	1 2N3055/	2
	7 3N204/BF247A/SP8695B/CD4059AD/MC14522/MC14046BCP/LF355/BA182	9
DENO	1 ZN425/LF351/74LS244/74LS157/NE555/4040B/6116/74LS32/Z80APIO/	9
DEFE	1 MN5902/CLC400/	2
PROJECT OF	2 1N914/4011/	1
	2 6N138/1N914/LS74/	1
HIKI	1 1N34A/	0

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STSOST	2 ZN1034E/ZTX450/	2
HAM RADIO	1 1N34/	0
ARTICLES	1 2N4393/	1
TECHNICAL	1 2N5179/40673/	2
EXCO	4 1N21/1N23/2N2712/MM5837/S2688/4027/	2
	2 2N3819/SBA104-1/	2
	2 SN52733/TIP33A/2N2906/2N2369/2N2221/C30872/FD700/1N914/	3
	1 VN0209N5/VP0210N5/353/1N750A/2N6554/2N6551/2N5460/2N5459/	9
	1 3N154/3N159/40468A/	3
	1 SN74121/SN7406/BC251/2N2905/BC171/2N2218/1N4001/BU807R/	9
	1 1N34A/	0
	1 6N138/SL100/SK100/2N2222/	5
APID	1 SN74164/HA02/	3
INMEHIENPH	1 2N2894/2N2369/BFR91/	9
IDEAS FOR	1 2N5179/S132/MV1640/	2
CORRESPON	1 2N918/MV2110/	1
	1 ZN425/2516/4024/555/324/	5
IDEAS FOR	1 2N3762/MTM12N08/	2
CCT IDEAS	1 1N4004/1N4003/	0
	1 2N3904/1N914/	2
	2 2N6105/2N5918/1N4007/SG2007/CA3085A/40364/C30127/C30130/	5
HINTS AND	1 1N4000/276-1101/	2
	1 2N2222/556/555/CA90045/276-1101/276-034/276-1617/276-1728/	5
TITE	1 2N3904/1N914/	1
DEID	1 2N4957/2N2222A/1N914/	3
ELNO	2 1N34A/	0
CIID	1 SN74S288/SN74188/4040/4017/4013/4071/4049/BC107/BFX87/1N4001	9
ELCOCI	1 2N1777/	1
ELCOCI	1 SN74164/SN74121/LM555/SN7486/SN7474/	7
IDDE	1 2N3906/2N3904/1N34A/	4
	1 4N37/1N4383/	1
IDDE	1 SN7401N/BC212/BC182/1N914/	4
BUILD THIS	1 SN76488N/	1
PART II	2 2N6259/D62T/3573/MTH7N50/IR160PFT100/1N1190/1N3295/1N4005/	5
	2 KN22/	2
TRBR	1 2N2905/2N1893/	3
ARTICLES	1 3N187/MV5024/	1
PROJECT	1 2N4443/747/1N4002/1N4148/	2
	1 MPF105/MPSA20/	2
HISPOU	1 UPG701B/UPG707B/215/	3
ACBEHATA	2 OPA128/OP27/	2
FEAR	2 DP5380N/74LS240/	1
	5 UPD7002/8271/6522/6850/DS88LS120N/DS3691N/74LS393/74LS245/	6
BEGINNER'S	1 MPF102/2N2222A/	2
TEDASPRE	1 MP7246/MP7247/	2
SPT	1 OP27/OP07/	3
	2 MPC16S/MPC8D/74163/ADC80/74123/AD521/SHC85/7404/	5
	4 MPSA42/SK3044/	4
ANDINUELCI	1 QPA02/	1

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DEAP	1 OP27A/2N3725/2N2907A/IN959B/	5
FEAR	4 UPD78312/55257/LM2951/74LS373/UA9667/4027/4021/TSC427/OP509/	9
APPLICATIO	2 OPA676/	1
DRTU	2 SP9685CM/10114/1N4148/	2
PRTECOFE	2 UPC2721/UPC2713/UPC2711/1SV166/	3
INMENUSP	1 GPD402/2N4393/	2
PROJECT	1 MPSA06/1N914/1N4001/1N4002/	1
PAPERS	1 HPCL2601/SG3626/	2
	2 OPA111/OPA101/	2
WHTHBA	1 6P6/807/83/	4
AIANCH	1 OP27EP/LM11CN/IN4148/	7
REPA	1 OP27/B1818-01/	2
	3 OPI120C/LM7815/BUZ50A/XP2020/MRD500/ECG123AP/SK3854/	4
	5 GPD402/GPD403/MC1651/MC1670/10115/LM134/LH0033/10131/	7
ENAP	2 OPA2107/LF347/LF356/OP37/HA4905/74HC107/74HC02/74HC00/AD589/	5
	2 UPD7811/UPD41264/74LS257/74LS123/74LS195/74LS174/74LS163/	9
INSTRUMENT	1 TQ6330/TQ6331/	1
	1 MRF893/MRF843/	2
ENNO	1 MRF233/MRF229/	2
APPLICATIO	1 MRF176GV/MRF176GU/	1
	1 MRF641/MRF646/	2
BUILD THIS	1 IRFD1Z3/2N3055/555/7812/1N914/	6
	7 IRF350/ZTX551/ZTX451/CA3140/ZTX302/74LS14/LM319/LF356/ZIX502	6
NOTES	1 MR250-3/	0
	1 IRFD1ZO/	1
SIEVPH	2 IRF120/	1
ARTICLES	1 IRFPG50/2N3904/1N4148/	2
	1 IRF540/16CTQ100/	2
COAR	1 XR2240/XR2207/LM386N/	3
	2 IRF620/IRF9630/2N3467/2N3725/4050/	9
REPA	1 IRF740R/CIFE8F/1N4004/	4
APID	1 IRF531/IRF9531/BC178/BC108/1N4148/	9
APID	1 MRF901/BAW62/	2
	1 IRF640/MUR810/	1
LANEPA	1 IRF150/1N5806/1N3018B/	2
EXPERIMENT	2 XR2207/XR2240/2N2222/2N2907/	2
BUILD THIS	1 NSB7881/4511/4518/4046/4017/4081/14553/7555/2N3904/2N3906/	9
	1 DS0026/	1
SYDEINCI	1 DS3662/	1
	1 LS161/LS93/LS74/LS32/LS13/LS04/LS00/8T13/8T14/	9
PROJECT PA	1 DS548/1N914/2N2222/	4
ARTICLES	1 2SK170BL/2SC1775/	2
	1 DS0026/1W5301/1N4148/IRF131/	3
SPRE32BIMI	1 NS32332/NS32381/NS32201/	3
	2 ISO120/ISO121/PWS740-3/PWS740-1/INA102/OPA121/PWS726A/NE2H/	5
COAR	4 LS3404/4N35/LM7808/2N2222/1N4001/	2
	1 BS250/BS170/CD4028/CD40192/	4
HINTS & KI	1 RS9400/1N2175/276-1790/	1
NEW IDEAS	1 2SC106/1N4001/2N2222/	1

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COAR	1 LS3404/BS170/2N5064/MPS2222A/PN2222A/1N4733A/	4
DEEN	1 NS16203/NS16201/NS16082/NS16081/NS16032/	3
CIID	1 BSX20/	2
	2 DS0026/MTPIN50/74S04/	2
AUDIO	4 2SK134/2SJ49/IRF530/MPSA56/BFY50/BC184/BFX88/BSS17/MPSA06/	9
COMMUNICA	1 NSMF10/TL064/R5609/74C14/CA3080/	9
	1 2SK183/BYT30PI800/	1
	1 NTE263/	1
	1 PTC10001/2N1613/BY297/PTC866/	2
ARTICLES	1 LTO23MFO/LTO24MFO/	0
	5 ZTX415/	1
FEATURE	3 MTP40N06M/MTP10N10M/MC34129/MC33034/555/MPF480/TL431/MPSW51	9
POEL	2 BTR59/ZTX551/ZTX451/BY329/	2
DEFE	9 LT1012/AD539/LT1010/LT1013/2N5486/LT1001/V440/LT1018/LT1088/	9
CITEAN	5 KT939A/KT938A/	2
PRUP	2 LTC1062/LTC1052/	2
ABBE	3 LT1070/4049/MUR415/1N914/1N4001/	1
	1 UTO524/518/LM324N/AD7512D/517/HSCH3486/P-CPM150/AT6/AT101/	9
READOUT	1 XTR110/	1
CIRCUIT ID	1 ZTX510/BC214/1N914/CA3054/	4
	3 LT1070/2N5401/2N5550/MUR810/MBR735/1.5KE68A/1N5936/	3
DEID	1 MTH35N15/MC4013/2N2907/2N2222/1N4143/1N4148/	7
SOSTDE	2 LT1072CN8/MAX654-8/IRF9Z30/2N2222/MBR360/1N755/1N4148/IN5818	3
	3 LT1021-10/U440/74123/2N5160/2N3866/2N2369/2N2907/HP5082-2810	9
DESIGN SOL	1 BUS63125/BUS65600/BUS66300/1750A/	4
SEDEMA	3 NU195/	0
PRUP	1 AVP1400D/AVP1400C/AVP1300E/	3
	1 IVN5200/	1
INVITED PA	2 DVD150T/MRF150/MC1723/	3
	2 DVD150T/	1
SPOTLIGHTI	3 PX2425C/	1
	1 CX1625/	1
SPISPA	1 CX1154/	1
TENO	1 MX1005/	1
DESIGN ENT	1 8X802/8X801/8X374/8X372/8X360/7407/74LS138/8X305/	9
	2 AY3-9735-002/8048/8748/8416/74LS373/74LS125/74LS123/74LS04/	6
ARTICLES	1 HY1802/	1
DESIGN NOT	1 BY871/BY127/12SM1/	1
	3 AY5-1013/74LS151/74154/74LS367/LM311/74LS74/74LS175/1489/	9
	1 AY3-1350/386/2N2222/7555/TIL111/1N914/	6
	1 AY3-1350/MPS3904/MPS2907/2N3904/1N914/	6
	1 HY10/	1
POEL	2	0
DEID	1 1.5KE10CA/1.5KE16A/	0
ANRA	1 80/	1
DRBO	2 4093/4164/74157/7474/7404/	9
ASK BYTE	1 4049/2N3906/1N914/4016/	3
APNO	1 8088/74C02/74LS74/	3
DESIGNER'S	2 8039/IH5041/LF356/ADCEK12B/REF02/LM311/7432/74374/74164/	5

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DEID	1 8031/27C64-200/74HC1573/74HC03/	4
DEID	1 8051/2130-10/HCT107A/ALS00/	4
DEID	1 80386SX/74LS373/PAL16R6-12/74F04/	5
DESIGN SOL	1 20X8/74LS123A/74LS08/	3
	1 308/741/IN4148/	5
DEID	1 4040/4516/7240/	6
FEAR	1 8088/8284A/8288/	3
DEID	1 8085/74157/74LS164/	3
APID	1 4066/4528/4027/	3
	1 8085/8155/8755/8279/74156/	4
CORRESPON	1 1026/F4016-34015/	2
CIID	1 4016/4066/1N914/	1
	4 8088/7220-1/8282/74LS257/8205/8286/7250/7110/7230/7242/1N914	7
DECA	1 40257/74C922/4013/74LS365/	5
	1 3080/308/4027/4019/4016/	9
FEAR	1 8051/COM20020/HYC906B/74HCT04/	3
DESIGN NOT	1 8085/8279/8253/	5
	1 8085/74126/74138/74241/8255A/	9
	2 8080A/INS8224/INS8228/INS8292/74LS02/74LS74/	3
	2 8086/8255A/8284/8279/74174/7495A/7400/7420/7492A/	8
	1 8085A/8205/8355/8155/8279/74LS156/8755/AD537/AD571/DAC1200/	6
COTENO	1 8085/8255/8279/6116/2716/	6
	1 8085/8155/8255/	4
	1 8048/8251/8243/	5
GENERAL	1 8085A/8755/8279/8155/8205/	5
CIID	1 4066/4051/TL074/	3
BUILD THIS	1 4013/LM311/555/2N3823/2N3906/1N4148/1N4001/7815/	8
COAIDE	2 80186/HM6116P2/2764/8282/	5
DRBO	2 4017/4049/4511/FND500/	9
IDDE	2 8085A/74LS123/74LS74/	2
ELCH	2 50K/	1
GEIN	1 40147B/4070B/	2
DESIGNER'S	1 4011/	1
DESIGN	2 8086/8087/8088/8288/	3
	1 4081/ICM7555/4070/	5
SCOR	1 4051/7442/7493/	6
CIID	1 4046/4017/	3
	1 4069/	1
LETTERS	1 4030/4020/4001/	3
TEUP	1 8088/8086/80130/8284A/	3
	2 4017/358/TLC272/74C14/40106/MC14584/2N2222/	4
	1 1026/	2
APNO	1 S0024/FPT100B/FLV104A/	1
PRDE	1 4029/4024/8T94/74LS04/	3
GENERAL	2 8007AC/741C/	1
PRIN	2 80386DX/80486/80386SX/80286/82C100/82C206/SL9X52/SL9X56/385/	4
CIID	1 40174/4040/4029/4018/4093/	9
SPSE	3 80C31/62256LP/MC146818A/27C64/ADC08138/LM2953/DS5000/MAX667/	9
	1 8088/9513/8255/	3

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DEID	1 4093/	1
	1 4016/4007/555/	2
DEFE	1 10H116/	1
TEBR	1 8085/2N3904/	2
ARTICLES	2 8085A/AM9511/8219/8205/	8
APPARATUS	1 4011/4020/4013/7217/4076/4049/4009/	9
NOTES	1 4022/IVN6200/1N4004/1N758A/1N5370/1N914/1N4007/7812/	3
	1 4024/1N4001/1N914/	1
ARTICLES	2 50935/OP07/OP10/14528/555/4013/801A/4290/OP05/REF01/8411/	9
IDDE	1 40174/4093/4040/4029/4018/	9
CIID	1 4066/4013/74C14/1N914/	5
DEID	1 4015/4013/4023/	6
HARATE	2 30/10/27/81/50/	7
IDDE	2 4093/1N4148/	1
	1 4017/S2559/40106/1N4738/	4
	1 10G022/	1
APID	2 4070/4046/4016/4566/	3
COST	1 4046/4069/	2
	2 10H115/10H105/10H123/10H123/10125/LS74/LS02/LS04/10124/	5
CIID	1 8080A/74193/7432/7411/7410/7404/	5
IDDE	1 2003/1413/9667/HCT373/1488/	3
FEAR	3 80C52BASIC/SDA0810/27C64/6242B/MAX232/MM5369AA/CD4040/4N25/	9
GEIN	1 4040/4093/4068/CNY65/TIC106D/BC547B/B380C1500/1N4148/1N4007/	9
COAR	1 4020/MOC3041/2N2222/	3
DEHA	1 4071/MAC97-8/1N3682/1N4004/1N914/	2
FEATURES	1 4093B/2N5457/1N914/	2
IDDE	1 4013/4069/2N2222/1N4001/	3
DRAWING BO	1 4017/4001/	2
APPLIED ID	1 4093B/1N4148/	1
	1 4060/ORP12/BC327/4093/4017/BC338/1N4148/	9
DESO	1 8085/PAL20L10/8259A/	3
	1 203/	1
APID	1 4093/339/MOC3021/2A92/	4
CIRCUIT ID	1 4068/4051/	7
DEID	1 8051/74HC157/74HC10/	5
APID	1 4078/ZTX500/40106/	3
	1 5082-4207/	0
CIRCUITS	6 4066B/3140/555/1N4148/	2
	1 8080/8251/8228/8224/	4
APID	1 4051/MC14573/4070/	3
	2 8086/MC6854/8284/74LS390/74S387/74LS138/8286/8282/AM26LS32/	9
THINK TANK	5 4017/4066/NE555/4049/LM317K/1N4740A/1N4739A/1N4738A/1N4001/	5
DECA	1 4047/74LS00/276-1646/ECG253/521-9240/1N5060/	5
TEME	1 4077/	1
GEIN	1 4093/BC547B/1N4148/BAT85/	2
DRBO	1 4046/	1
DESIGN IDE	1 8085/8205/8253/	3
	1 8013A/741/2N4391/2N3054/U02/	9
APID	1 4001UB/	1

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TENO	1 301/14553/7446/74C04/7473/2N4125/1N4733/1N914/741/102/	9
DEID	1 4016/	1
	1 8085/SN74LS138/74126/74241/	8
	3 4060/74/73/BAW62/	2
	6 307-064/BFY50/3N3906/2N2904/1N914/	3
COSY	1 8088/8259A/8284A/82375A5/74LS670/8255A5/8253-5/74LS245/8288/	9
APPLICATIO	2 8031/80C31BH1/68HC11/74HC373/27C256/HC00/	4
CIID	1 4053B/	1
APPARATUS	4 308-045/8255A/7442A/ADC8703/2N3704/74LS00/	7
DESIGN SOL	1 8049/8355/8255/AD558/8251A/8212/7404/7400/	8
DESIGNER'S	1 4018/4001/	3
APPLIED ID	1 4093/4013/40192/4022/	5
IDEAS FOR	1 4071/VN10KM/	2
IC TESTBEN	1 4069/4060/	1
APID	2 4093/1N914/2A92/TIP31/TL172/	3
APID	3 4027/4001/IN4148/	2
	1 8086/8087/8089/8288/	4
CIID	1 4029/555/4024/4013/2N2222/4081/4001/	9
	1 4049/	1
DEID	1 80C32/27C64/74LS373/74LS138/	4
	2 8031/ADC0808/2716/74LS374/74LS273/74LS164/TLC336A/4N25/3DG6/	9
	2 4093/4017/4011/4001/TIC226M/BC108/1N4007/	6
DEAP	1 8088/8286/8282/8284/	4
	1 4040/4013/L144/4060/	5
APID	1 4078/4073/4072/4066/4002/1N4148/	9
ALL ABOUT	9 4049/4011/4001/1N4148/4046/	2
DESIGN SOL	1 8080A/8224/74123/MC14016/	3
CIRCUIT SP	1 4011/BC213/BC479/1N4001/	5
	1 4011/1N4002/	1
PROJECT	3 4049/1N4148/1N4001/	3
LETTERS	1 4093/	1
APTEPH	1 4093/2N3904/	2
	3 4020/4006/7474/7486/7400/7404/7437/7410/4049/7492/H11C2/	9
HIKI	2 40673/	1
ARTICLES	1 101802/	2
TEME	1 4060/BC547B/	2
CIID	1 4093/1N4148/1N4001/	1
TECHNICAL	1 40192/4511/4008/4093/1N914/	6
DRBO	1 4093/	1
ARTICLES	2 40J/310J/AD741K/2N3439/	3
AIANCH	1 4050B/74121/7400/	3
FEAR	2 4040B/2764/PXO1000/4013/74LS27/74LS00/2003/MJE800/1N4148/	8
DEID	2 4047/MOC3062/BC107/1N4001/	3
FEAR	1 4011/IRF511/	2
DRAWING BO	1 4068/4051/4042/	3
CCT IDEA	1 4011/	1
CIRCUITS	5 4007/	1
DEID	1 4021B/D1225/4013B/40014B/1N914/1N4001/	4
DEID	1 4040/40174/4029/4018/4093/	9

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DEID	1 4020/4526/4025/	4
DEID	1 4013/4029/	2
HEPHENRADI	2 10104/10198/10116/10107/2N918/LM120K50/1N914/	9
REPA	1 702/741/308/	5
BUILD THIS	4 4011/4017/	3
DEID	1 4051/74HC393/	3
DRBO	1 4040/4023/4011/4001/	4
CIRCUITS	6 4007/2N2222/7414/555/4013/	3
DESO	1 4017/4093/	2
	1 4051/8155/	4
DENO	1 4093/LM386/	2
MIEL	1 80C86RH/82C85RH/82C55ARH/	3
	1 8044/2N2222/H11D1/1N914/1N4006/	4
	4 8085/LS373/LS00/LS14/LS74/BC107/LS04/	5
NEAPTE	4 80188/82062/74LS374/74145/8282/8287/74LS393/8286/27128/2186/	6
SHNO	1 8013/	1
PROJECT	1 4011/2N3904/BC108/	2
CIID	1 4070/4017/4013/4011/	6
CIID	1 4047/4027/4070/2N3706/1N4001/	7
	1 C004/T800/T212/	6
BUILD THIS	1 4093B/1N914/	1
TECH TIPS	1 4017B/4093B/1458C/TIL220/1N4148/	3
DESIGNER'S	1 4049/2N3055/1N914/	2
DESIGNER'S	1 4017/4011/	4
TECH TIPS	1 4050/	1
	3 8086/8088/LS74/Z-SCC/Z-CIO/Z-FIO/LS73A/LS164/74125/	4
	1 4027/4011/1N914/	2
DRAWING BO	1 4017/4508/	5
	1 4020/2N2222/1N4001/1N914/MC14020/	6
	1 8085/8155/MC4044/74123/74106/LM1812/74121/	7
APID	1 4077/4538/4011/ZN425/4518/4511/3140/4520/4068/	9
HIKI	1 4049/	0
	1 8085/74126/74241/SN74138/8255A/	9
	1 10173/10153/10422/	4
DEID	1 8031/UCN5833A/87C257/	3
DEAP	2 80286/82288/AM2968/AM29843A/82C37/82284/82C288/AM29863A/	5
PAPERS	1 40J/	2
SOIR	1 4011/1N916/	2
CICICE	1 8086/8255A/8284/3625/8251A/8279/8286/2142/74LS393/74S373/	9
IDDE	1 4017/4093/	2
DRBO	1 5088/74LS373/	2
FEAR	1 8031/74LS373/74LS138/MAX232/74LS00/	5
ASK R-E	1 4049/2N3055/1N914/	2
GEIN	1 4013/4093/CNY70/BC560C/BC517/1N4001/	5
APPLICATIO	2 8031/75176/8051/68HC11/Z180/	6
FEATURES	1 4013/276-2413/4001/276-2068/SK11A-5020A/SK14A-5023A/1N4003/	3
APDENO	2 4066/4013/276-145/276-143B/	2
BUILD THIS	2 202P/MC14514/4001/7805/MPS12/2N2222/1N914/	9
	1 4011/2N2222/	2

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	1 4053/	1
	1 4081/4098/4073/4024/4017/4020/4071/4043/4011/	9
CIID	1 4052/4047/LM318/4018/	4
DETO	2 80C521/27C512LI/74ALS373/74F374/74ALS161/74ALS74/74ALS32/	8
CIRCUITS	7 4093/4049A/4001A/4046/	1
	3 4050/	0
DEID	1 4040/4024/4016/4066/1N5908/	4
	6 4093/4050/4584/4018B/4011/4069/	1
HINTS & KI	1 4027/4001/	1
IDEAS FOR	1 4001/1N914/	1
FEAR	6 4011/4049/4075/4050/4532/4514/4029/4072/	4
	1 80C51VS/D2732A2/	2
FIFU	1 8031/27256/74LS373/2N2907/	7
APPLIED ID	1 4017/BC107/4001/	4
DEID	1 7106/	1
DENO	1 317K/	1
	1 L144C/M9570/	2
LEDO	1 2114/7405/	2
	2 41051/	1
	1 318/1S1588/	2
ARTICLES	1 3130/	1
CIRCUIT ID	1 2114/74LS244/74LS164/74LS123/74LS393/74LS157/74LS32/40106/	9
	2 319/2N3053/7815/REC70/1N4148/	2
NEAPTE	5 7109/TR1602/CDP1854/HD6403A/OP01/TSC9495/CD4040B/DAC808/	5
PAPERS	2 3130/2N3055/BFY72/BFY70/	4
SPT	1 6146/	1
APPLIED ID	1 710/555/CD21/2N2221/	3
PROJECT WC	1 C106Y/1N4001/	1
	1 C106D2/	1
PAPERS	5 3130E/AD7590/2N3066/BFY72/BFY70/2N423/	4
PROJECT	1 C106/BC182L/74LS14/555/74LS107/74LS32/7805/OA91/1N4001/1N34/	7
ELECTRONIC	1 F100131/F10153/MC10H016/F10016/F10131/MC10H116/F10002/	9
	6 4131-30/SHM2E/1322/8255/741/DAC80CBI1/74148/74393/2513/	9
LEED	1 L141/	4
	1 A14A/	0
	1 2102/4001/4016/	9
	1 S1790/	0
APID	2 L120/L121/6N139/555/IN4148/ZTX502/	4
	1 V130LA20B/	0
	1 311/7660/BAT85/	2
CICICE	1 2114/7432/7408/	4
	2 3140/NE5534A/TL072/TL073/4528/4093/4081/4017/4016/IN914/	5
AUFASE34	1 4136/	1
	2 91SS12-2/78L15/	2
ENHEPHINAP	1 R1924/LH0063/1N4446/	2
FLDIDITO	1 5147/CDC404/C30956E/	4
IDEAS FOR	1 5101L1/2716/8212/8085/8155/8205/74LS138/1N4001/	6
APID	1 S181/'S151/'148/'LS241/'S04/	9
NOTES	1 3130/SN7413/MJ1000/2N3906/1N23/1N914/	4

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APID	1 3140/LM311/6N135/MC14538/REF.01CP/	6
REPA	1 T1XL59/	0
	1 319/4040/741/	3
	2 2110/710/2905/1711/SFC2318/SFC2310/SFC2710/2N5432/2N708/	9
	2 4194/4584/78L05/1N4001/S3012A/S3022A/TD1210/	4
IDEAS FOR	1 S1602/MC1488/MC1489/7442/MC14411/MM70C95/	8
DEID	1 H11AA1/MUC3020/	2
INMENSUP	1 R1513/1N4764/	1
	1 3140/7815/1S44/BYV358/TIP122/	3
	1 T1BS/	1
	1 3130E/RS11/AD636/BPY21/	3
	2 C1155/74123/	1
REPA	2 3140/741/725/6040/4016/4024/4051/BC212/BC182/BC441/BC461/	9
	9 C106Y2/CA3035/C106Y1/VN67AF/555/2N3704/2N3055/2N3054/2N3702/	5
	1 812/1N34A/276-281/276-1770/	2
	1 311/555/3140/4001/4016/	5
	1 710/741/4022B/7406/1N4148/	8
TEFO	1 311/	1
HARDWARE	1 6116/4040B/74LS00/2N3904/	4
DRAWING BO	1 5101/1N4001/4049/	1
APID	1 3130/40103/4042/4040/4093/BC183/	8
DEID	1 215A/	1
	1 3140/741/OP5/4N25/2N3904/TIP35/	8
	1 8155/74121/7493/7475/	3
ARTICLES	1 3140/4528/4066/2N3414/1N4148/1N118/	7
	3 7109/ZN433/4555/4539/4511/4051/4050/4047/4024/	6
IDEAS FOR	1 111/556/4011/4013/555/	5
	2 3140/	2
AIANCH	1 610/904/10-952/	3
	2 7109/4555/4539/4511/4051/4050/4047/4027/4024/	6
	1 C1571L/K715/K181/5VC203/	3
	1 7103/8052/2732/7493/BC107/7447/74151/	9
CICICE	3 6116/74LS374/74LS253/74LS138/8255/74LS244/2764/6264/74LS174/	9
	1 12AU7/	1
FEATURE	1 8250/74LS125/	2
FEATURE	1 8250/74LS125/1489/1488/	4
	1 8255/74LS32/74LS30/74LS00/	4
DEEN	1 8243/8748/9301/74151/74148/74S138/4912D/7400/	9
	2 8223/74393/14410/555/7410/7400/2N3638/7805/	7
DEID	1 12S5.5000UW/LM358/	2
CIRCUIT ID	1 8255/74LS125/74LS32/8212/	5
DEID	1 8259/8259A/8259-5/74LS74/74S00/74S08/74LS04/	5
DENO	1 8212/74160/7400/8080/7404/	5
HINTS & KI	1 324/1N34A/1N914/	1
AUDIO AIDS	1 U231/	2
DEAP	1 22V10/20RA10/20V8/	5
	2 7220/74LS244/8205/74LS74/74H04/74LS02/74LS00/7242/7110/7250/	9
SPSE	1 6264/74LS138/74LS00/	3
FEAR	1 X2816A/74LS30/74LS00/74LS138/	4

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TETRBO	2 82335/GC132/GC133/GC131/80386SX/80387SX/82231/82230/8042/	5
REBARE	1 8255/8253/MCT2E/74LS86/74LS00/7407/SL100/	9
DAAC	8 A203/A206/A111/A225/	2
FEAR	1 8255/74LS280/74LS74/74LS04/	4
PE TESTED	2 8223/74161/747A/7413/MAN2/74145/2513/7475/7495/555/74121/	1
BUILD THIS	1 8253/4046/74LS266/74LS74/HEDS6000/	4
SENE	1 121/	1
DEAP	1 82C455/74LS245/74LS244/	5
NOTES	1 4291/747/	6
CIID	1 8255/CD4050/CD4049/7405/7406/	5
	1 8251/SN7493/SN7430/7407/MC1488/MC1489/	7
GEIN	1 S201S04/1N4004/	1
DESIGNER'S	1 725LH/470501/4518B/74123/7479/4040A/174C174/	9
ARTICLES	5 829B/72/3B24/715B/73/3B26/715B/2J51/	3
DEID	1 8214/8212/7496/7474/	5
CCT CELLAR	4 8253-5/8251A/8155H2/8255A5/8272-765/74LS175/74LS153/1488/	9
	1 12AT7/ICP1/1N4007/	2
	3 82501/82586/IAPX186/8288/82730/82731/BB505/	3
	1 8211/XRL555/TLC555/	2
CODI	4 8255A-5/74LS138/2N2222/TIL111/1N4148/	2
IDEAS FOR	1 8202A/4164/74S153/7474/7430/7425/7411/7404/	8
APPLICATIO	1 324/	1
PROJECT 80	1 6264/2764/74LS138/74LS139/7416/74LS161A/74LS04/74LS00/	9
	1 324/	1
	2 8253/DAC703JP/MSM2114L3RS/SN74LS193/SN74LS244/SN74LS378/	9
	1 8255/74LS245/74LS138/74LS74/74LS32/74LS30/741/4049/74LS06/	9
ENHANCING	6 8255/82C55/74HC157/TLC555/MC145027/MC145026/4511/4001B/	4
DEID	2 8253/74LS74/74HC74/LM348N/74LS86/74LS14/ULN2003/UDN29528/	9
DEAP	1 L297/L298/LS244/	5
ASK R-E	1 S2561/1N4742/1N4004/	1
DEID	2 Q2220/DAC0802/74HC4046/74HC574/74HC390/OP27/74HCU04/MPS2369/	5
DEID	2 82C82/2N3904/	2
ANRA	1 P227/P224/	4
HARDWARE	3 8212/DAC0801LCN/LM339/7432/7430/7404/74LS244/74LS367/74LS38/	7
MICROCOMPI	1 8291/8292/8257/	3
TETRSY	1 82A442/82C441/82C437/IMSG171/	4
DEID	1 8271/74LS245/74LS139/74LS251/74LS74/74LS138/74LS04/	8
ARTICLES	1 426A/184J/741/	3
DEID	1 6264/74HC4040/74HC374/74HC273/74HC14/	5
ARTICLES	1 S2858-01/LH0033/	2
TECHNOLOG`	1 8253A/8251A/8255A/8259A/IAPX86-10/8066-2/	3
ROBOTICS	1 H22A1/	1
PROJECT 80	3 8259A/74LS74/74LS32/7416/74LS02/74LS138/74LS04/74LS00/	5
	3 5242/1N3064/2N3960/2249W/2228/623B/8575/	3
HAHO	1 82357/82358/82355/82352/82596/	6
	1 8255/8304/74367/74123/	8
	1 C206D/BC184L/MOC3020/	4
APTEPH	1 H21B1/H21B2/H21B3/	1
	1 725/741/OA47/	3

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IDDE	1 8243/4029/4050/4071/4002/4081/4013/ 1 8251A/1488/1489/	9 6
TETRBO	1 82355/82357/82358/82352/82596/ 1 8255/ZN448/ZN428/072/	6 6
APPLICATIO	1 U2400B/BD135/TLUR6400/TLUR5300/BYX86/M87/	2
HINTS & KI	1 324/741/4030/4070/	3
SHPA	1 8255/7521/7135/CD4051/	5
COMMUNICA	1 8255/8253/74LS373/	4
NEPRHIINCI	1 82C780/8751/82C784/	3
TEAD	1 82353/82359/82358DT/82351/82357/	4
COMPUTERS	1 43256-100/74LS245/74LS138/74138/74LS28/74LS04/ 2 F379/F373/LS373/F245/LS245/LS126A/	5 4
REPA	1 4350/EOD-LA10A/4200/LH0033C/ZPD5.6/	4
WEEKENDER	1 339/324/	2
SCAR	1 534/4194/084/	3
DECA	2 3341/7474/74175/7408/7400/7404/ 1 235L/52K/	5 1
MEDEMEIM	1 U310/ 1 L3091/L3000/TS5070/L3121/L3120/	1 5
HINTS & KI	1 339/	1
CCT IDEA	2 9368/74160/UA9708/7485/7473/7400/FND500/74123/	9
IDEAS FOR	1 S3525B/4027/4011/	3
TEST CASE	1 93LS24/LS74/MC3441/LS10/LS08/LS04/LS30/	9
DESIGNER'S	1 93448/82S82/7300/7304/9LS02/	9
NEW PRODU	1 B3110/B3120/B3210/	3
APNO	1 536/741/	3
CLLO	2 339/2N222/	2
AIANCH	1 3308-12C/2N3393/	3
NEIN	1 C30902S/	0
APID	1 531/710/741/74121/2N2369/BC159/OA91/	9
DESIGN ENT	1 5380/6500-11/8237/ 1 733/SP9687/	3 1
	2 S32/LS27/S00/S10/S04/LS161/LS138/LS10/LS00/LS04/	4
NOEX	1 Z300T/ 2 3341/CD4078/74C00/CD4012/CD4029/	1 6
ABBE	1 931/	1
DRAWING BO	3 S3525A/7805/MK5102/4514/ 1 C31034A/2N5415/2N3440/ 1 3353/	3 3 1
FURE	2 733/BC560/BC550/JD12/	3
ABBE	2 931A/1N4006/	1
DESIGN ENT	2 U3620/4538/14066/	3
SHPA	1 536/BC109/7490/ 1 536/2N4396/741/ADC0800/2716/725/DAC0800/SK100/BC157/7475/ 1 N3055/2N1711/	4 9 2
NEW PRODU	1 L4620/	1
CCT SPECIA	1 741/1N4148/ 3 74LS32/74LS08/74LS139/TMS9918A/4116/ECG123A/7812/ECQ5116A/ 1 741/725/319/CD4053B/	1 9 8

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CIID	1 74LS193/74LS151/BC108/74LS132/	4
NOEX	1 7414/741/	2
READOUT	1 74HCT4040/74HCT164/74HCT161/74ACT86/	7
COPA	1 741/	8
	1 74C00/MPSH10/2N4124/2N2222/1N914/	4
AUDIO	2 741/2N4302/BC182/OA95/1N4148/LP1186/	3
	1 741/2N3566/	5
TECHNOLOG`	1 74AS8832/74AS8833/74ACT8836/74ACT88337/74AS8834/74AS8835/	5
	1 74121/7438/	2
	5 74S153/74LS139/74LS125/74S74/74S37/74LS21/74S04/74LS03/74S00	4
IDDE	1 74C14/VN10KM/1N4148/	2
DESIGN ENT	2 74F764/8085/74F245/74F765/74F1244/74F244/68000/F139/	8
APID	1 74161/7475/7432/7408/7473/7414/4049/LM301/	9
TEFO	1 74LS257/74LS00/74LS74/	4
CIID	1 74HCT373/74HC373/2N2222/	3
REVIEW	1 74LS123/	1
	2 4464-15S/74LS42/1N4148/	2
COMI	1 74HC574/74HC541/74HC138/74HC123/74HC14/LM324/6N136/1N4148/	9
CIRCUIT ID	1 74LS04/74LS32/TMS4500A15/UPD41256-15/74LS157/74LS09/2N2905/	9
DEID	1 146805E2/27128/	2
PROJECT	1 7420N/74LS20/7400N/74LS00N/	2
FEATURES	1 74157/74155/	3
	1 741/5082-4220/	1
	1 7402/	1
ASK BYTE	1 7407/	0
APPLIED ID	1 8416/1N4148/74HCT138/	1
	1 74174/74S288/7414/	3
READOUT	2 L487/L296/	1
APID	1 7474/710/7486/531/741/2N2369/	7
	2 747/OA202/OA91/	1
ASK BYTE	3 14553/7447/7490/7442/74123/7402/7414/2N2907/2N2222/LM311/	9
	1 74LS221/	4
	1 74164/74191/7485/7474/S86/	9
VIPOELTE	1 U401/	1
DEID	1 74LS148/LS373/LS32/	3
	1 741/	1
DEID	1 74F74/74F00/7438/	3
	1 7493/RS304-560/7414/	3
HOME BREWII	2 74LS158/74LS153/74LS151/74LS393/74LS00/	4
DEID	1 74S169/74S174/3341/74S74/74S00/74S86/	7
	3 741/482BN/2N5191/LM312/7815/BYX10/1N53428/1N4148/	3
	1 74LS123/74HC151/74HC193/MCT2E/	9
	1 74LS00/H23L1/	2
	1 7485/7475/7447/SN7400/	9
CIID	1 7473/7413/7400/BC108/	9
	1 741/OP800W/	2
LEED	1 F4111/	1
DEID	1 74HC132/74HC02/	2
COLUMNS	4 741/4049/2N2222/	1

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IDDE	1 74HC244/ICL7106/ 1 741/	4 3
FEATURES	1 74LS123/2N3904/1N751A/1N4001/	2
FEATURES	2 741/G0008/	4
CODAPR	3 74LS375/74LS373/74LS175/74LS138/555/74LS85/74LS74/74LS32/ 1 74LS13/	9 1
APTE	1 741/BC337/BC308/FPT100/	9
NOTES	1 747/1N4446/ 1 1408L8/UA710/L141/MC14549/MC14049B/	1 5
APPARATUS	1 741/3625/BD139/BD140/ 2 7486/74LS86/7805/LM311/2N2222/1N4148/ 1 9404/9405A/9406/9407/9410/	8 4 5
DEEN	1 74LS148/8223/74S151/74S157/74LS193/ 2 741/4071/4585/4520/4508/4078/4013/4022/4502/4069/IN4148/ 1 74C373/	5 9 0
REPA	1 74LS374/ZN42/74LS373/74LS393/74LS123/4060B/74LS74/74LS138/ 1 74142/7473/7439/7475/ 1 7427/7407/IN4001/T1P32/ 1 74LS14/1N34/ 2 74LS374/74LS373/74LS138/NSA1198/	9 8 2 1 5
10SHPR	1 741/	1
DENO	1 7473/8253/AD583/AD7574/	3
APTE	1 74LS257/74LS75/TIP132/2N2222/1N4004/ 1 74LS241/74LS193/74S00/74LS74/74LS138/74S20/74S02/MPS6507/ 1 741/74C74/	9 9 4
NOTES	1 7414/276-142/2N5308/2N4410/2N4402/	9
PROJECT	1 74191/74LS191/555/74LS76/7447/74LS47/74LS00/7805/D1MAN8610/	8
AIANCH	1 74LS373/7406/	3
DEID	1 74ACT244/BC183/	2
CIDEID	1 74HC04/	1
CIID	1 74HC4060/74HC4017/2N3906/IN4148/	3
ASK R-E	1 741/F104/2N3391/	3
DEID	1 74HCT4053/	1
DEFECO	1 74LS245/ 3 74LS1611/74LS150/74LS74/TIL209/74LS161/74LS157/74LS132/	1 5
DESIGN IDE	1 74HC165/74HC595/74HC161/	3
IDEAS FOR	2 74154/7474/7493/LM339/2N2222A/7400/7490/7404/7408/ 1 741CE/ 5 741/VTT1113/934/TL091/7052-04B04F/2N4123/	9 1 2
SYNO	2 74LS04/6520/74LS42/74LS04/	4
TEFO	2 74LS121/LS7404/LS7400/555/LS7474/2N2222/IN914/ 3 7475/7447/FND507/MC1408L8/LM741/74368/LM311/7404/7400/74138/	5 6
COAIEN	1 74LS00/	1
BUILD THIS	1 74LS245/74LS00/74LS367A/74LS30/	5
DEID	1 14013B/14072B/14073B/14538B/14071B/4009/	9
DEID	1 74121/2N2369/1N914/ 1 74121/LM360/-74/-193/-244/08/7432/	2 9
CIID	1 741/2N2222/1N4148/	2
DEID	1 74F74/	1

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	2 74LS163/74S288/3622/74LS74/74LS32/	4
NOTES	1 74LS93/74123/7486/	9
BUILD THIS	1 74LS374/74LS244/74LS174/	3
	1 443-764/MM2114/443-807/74LS42/443-45/7408/	4
PAPERS	2 741/2N2222A/1N4003/	3
CIRCUITS	1 14538/14071/	1
APID	1 74HC193/74HC4040/74HC14/74HC00/	6
DEID	1 74HC14/MTP15N08EL/2N3903/	3
APPLICATIO	1 74LS374/7407/	3
ENGINEER'S	1 74121/7476/BC212/1N4007/	3
	1 741/	1
IDEAS FOR	1 74LS00/74LS112/74LS160/	5
CCT IDEAS	1 741/BC237/BC397/2N3053/	6
PROJECT 80	1 74LS138/8231A/8232/74LS32/74LS04/	4
	1 74191/7414/7486/	0
RENO	1 741/F7402PC/OA90/CZ6.2/	4
TENO	1 741/TL081/3080/ICM7555/1N914/BC212/BC182/	9
ASK BYTE	1 74LS123/74LS86/2N2222/1N4002/	4
NOTES	1 741/OA81/	2
APID	1 74LS244/74LS373/8085/74LS02/	4
	3 741/MJ3001/2N6051/BD137/BD138/BPW34/	3
	1 741/LM311/2N5459/MV5025/MV5253/1N4148/	6
CIID	1 74123/7474/7400/2N3019/1N4002/1N4001/	6
	1 74LS245/TMS9914A/SN75160A/SN75162A/74LS32/7404/74LS00/74LS02	9
COMMUNICA	2 747/741/4013/SK3593/SK3674/	3
DEID	1 74190/74S10/	4
	1 741/	2
	1 74LS251/2N2907A/	2
APTEPH	1 741/276-1020/	2
	9 741/7805/7905/4030/555/4066/4040/	3
	1 741/	2
COSE	1 74LS04/TIP120/1N4004/	5
CORRESPON	1 74LS374/	1
CIID	1 74HC190/74HC393/74HC74/74HC32/74HC4069/74HC4020/4093/74HC08/	9
NUEL	1 74123/	1
	3 74LS374/74LS74A/74S20/74LS08/74S08/74LS02/74S02/74LS04/74S00	6
	1 741/709/BC307/BC149/1N4148/	9
VIIN	1 7400/7407/TIP125/TIP120/1N4001/	6
LAEX	2 74123/7407/7400/305-434/349-383/1N4148/	4
MIIN	1 7475/DK40/1N914/	5
CIID	1 74HC14/	1
	1 74LS244/74LS148/7404/	3
ARTICLES	1 741/	2
	1 741/1N827/	1
ARTICLES	1 74121/7407/MOC5009/IRF830/	4
DEID	1 74HCU04/4069UB/	3
DESIGNER'S	2 74157/74162/7474/LM324/7400/	7
DESIGN ENT	2 74148/74S138/74S374/DSP128/7486/74LS245/7475/	4
IDEAS FOR	1 74LS175/74LS20/74LS00/	3

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	2 7401/7400/	1
EXPERIMENT	4 74C04/74C90/741C/2N2222/	2
	1 74F283/74LS374/74LS164/27S27/TDC1016J8/74S04/LM113/	9
	2 74121/7474/	1
HOSCQA	1 741/1N4001/1N914/	4
APNO	1 74121/DAC60-12B/74S174/7400/3342/	9
DEAP	1 74HCT373/27C64-15/5C121/	6
AMSC	2 741C/2N5448/2N3567/SK3026/CL702/CL705/CL703/	3
	2 741/555/2N3904/	7
	1 74196/74123/74168/7486/7420/7408/7404/	9
DEID	1 74ALS74/74ALS163/74LS592/74LS109/74LS08/74LS04/74ALS32/	8
APID	1 74LS393/74LS32/	2
DEID	1 741/301/398/AD759P/AD759N/	8
APID	1 74LS682/4040/4528/4011/4013/	6
BUILD THIS	1 74154/7404/4N33/	3
TECHNOLOG`	7 74HC4040/74HC133/74HC14/74HC00/2N2222/MPS2369/4011/74HC4049/	3
APID	1 74HC266/	1
SHPA	1 74LS193/74LS283/74LS175/74LS85/	4
	1 7400/7402/7404/	3
	4 7476/7474/	1
FEAR	1 7448/	1
TUSC	1 74LS273/74LS244/74LS138/	4
FEAR	1 7490/7448/	2
GEIN	1 741/BD435/BC214/	4
FEAR	1 7485/7490/7448/324/7400/	5
PAPERS	2 74LS161/74138/74132/74LS123/74LS74/7437/7427/74LS20/7414/	9
ARTICLES	2 741/74121/1N914/	8
CIID	1 741/	1
CIID	1 74190/74166/7400/	3
DEFE	1 74HC109/RFP12N10L/1N5806/1N4148/	4
DEID	1 74S163/ZC2811/	1
	2 741/UDT500/	1
CIID	1 74HC14/1N4148/	0
	1 1458/7486/7404/CD4054/CD4055/7420/	8
TECH-TIPS	1 741/MC3340P/	3
	1 74193/7442/7404/7400/	4
	1 1458/1N914/4011/	2
IDEAS FOR	1 74LS244/74LS85/74LS14/	6
HARDWARE	1 74121/7417/	3
	8 74LS374/74LS393/74LS139/4116-3/74S65/74S175/74LS74/74LS240/	9
APID	1 74LS14/1N4148/	1
	1 6402/ICL7660/4047/4040/74LS04/741/	6
CICE	2 74121/7475/NE555/7474/7400/7404/74160/2N2222/74LS367/	9
DEID	1 74LS74/	1
	1 1488/1489/74LS86/1N4001/	5
DEIN	1 S424/	1
APID	1 146818/74LS245/74LS332/BC108/74LS04/	4
APID	1 146818/74HCT244/74HCT245/74HC4538/BC108/74HC00/ITT2003/	6
DEID	1 74S288/7408/	2

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DEID	2 74LS74/74S74/7474/74S112/74LS112/	1
BUILD THIS	2 74HC688/74HC245/U LN2821/74HC273/74HC14/74HC00/74HC573/ 1 74LS138/74LS161/NE555/74121/74LS20/74LS10/7401/74LS00/74LS02	5 9
PROJECT	2 74367/74157/74123/7400/LM7805/1N4001/1N914/	7
DEID	1 7404/	2
DEID	1 7402/	1
BUILD THIS	3 74154/74LS193/555/7400/7476/7475/2N2222/	8
DEFE	5 74LS374/74159/74LS151/74150/74125/74LS74/74LS32/74LS08/78L05	7
NOEX	1 7493/7408/7414/ 1 F4123/	3 1
CODI	1 74LS154/2716/74LS367/556/74LS373/558/74LS257/FND500/4040/	9
COAR	1 741/2N2712/ 2 74AS760/74LS374/74LS240/74LS151/74LS138/74S38/74LS14/74LS02/	4 8
COAR	1 74LS86/74LS30/7805/	4
BUILD THIS	2 740S/	1
DEID	1 74123/2N3906/	4
1985 TECHN	1 74HC138/TIP3120/TP3051/	5
RAMBLINGS	2 7425/74S138/74154/BC183/1N4448/6840/7413/ 1 74121/74LS00/2N3704/2N2222/BCY72/1N4148/	3 7
APID	1 74151/74164/7414/CL100/8085/	4
APID	1 74LS191/1488/4702/555/CS4044/74LS123/74LS00/ 2 74LS76/74LS74/74LS04/74LS10/74LS273/74S287/74LS139/ 1 7400/7490/7485/7493/74121/7495A/6820/	9 4 9
APNO	1 74S00/74S04/7414/2N2222A/MV10B/	4
FEAR	1 74C14/74C914/1N914/	1
HAHA	1 74HC02/9103/	2
CIID	1 1458C/BC178/BC108/1N914/TIL209/	3
HOSC	1 7400/	1
DEID	1 7485/7493/74126/	5
EDUCSYDESE	3 146805E2/82C82/2N2709/2N2222/5517/27C16/74HCT00/74HCT138/	3
HOCO	2 7475/2N2222/1N914/ 4 741/555/74123/7474/7430/7410/7400/7420/7406/2N3251/ 1 741/IN5236/ 1 741/BFW10/	1 9 1 2
PROJECT	2 747/CL705HL/1N3022/1N4005/	1
ASK BYTE	1 7404/	0
NUEL	2 74192/74123/8212/7485/7474/7420/7408/7404/7402/7400/2N2124/	9
DENO	2 74S288/746S161/746S74/	3
COMMUNICA	1 74LS10/SRA1H/2N3904/PSC2-1/GPD403/404/	6
ARTICLES	2 74157/74121/74107/7490/7485/7474/7425/5082-7300/2N3904/	9
CIID	1 74HC4060/74HC390/74HC02/IN41448/ 1 7407/	5 0
BUILD THIS	2 74LS193/276-1936/LM324/LM339/556/7805/276-1171/1N914/ 2 74LS138/74LS30/74LS75/74LS04/74367/1N914/7805/ 1 74LS14/	6 9 1
TECH-TIPS	1 74LS393/74LS373/74LS74/74LS151/7445/74LS14/74LS08/2102/2716/	9
IDEAS FOR	1 74365/74174/74123/7485/74139/7400/7408/ 1 74/191/123/	8 4
APPLIED ID	1 7475123/74LS74/	3

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READER EXC	1 74LS123/74LS193/74LS02/	3
BUILD THIS	2 74154/7404/2N2907/	9
HARDWARE	2 74LS260/74LS133/74LS244/74LS30/74LS257/	3
	1 7474/74LS04/MC6809/	2
	1 741/	1
APPARATUS	1 74LS123/LM324/7476/2N2369/74LS121/	5
	2 14528/14022/14081/AD670/14504/14013/14071/	7
	2 741/	1
CICICE	1 74121/	1
	1 741/	1
NEW IDEAS	1 74LS04/1N34A/	1
	1 7490/MPF102/2N4401/	5
	3 7404/2N2222/	1
	2 741/BC148/	3
	1 74151A/7493/74L76/741/BC148/	5
APTE	1 74LS257/74LS75/74121/74LS04/74LS07/BFW10/	8
	2 74193/74192/74181/74161/74160/74123/74121/7476/7447/MM5061/	9
NOTES	1 74LS32/74LS08I/74LS04/	3
NOTES	1 741/	1
ARTICLES	2 7474/7414/7413/7402/2N6000/FPT100/1N81/	4
NOTES	1 741/BC178/BC107/TIL222/TIL220/	4
CICICE	1 74150/74123/7493/74LS75/7451/74LS30/7408/7404/74LS02/	9
COAUMECO	1 74HCT175/74HCT139/74HCT138/74HCT93/74HCT85/	5
	2 L4974/STVHD90/BD348/BYT13-1000/BYW98/1N4001/4148/	4
ARTICLES	2 74161/LM311/7474/UA7805/2N4124/2N3646/1N4001/1N914/	6
ENNO	1 741/7473/7400/2N4141/ECG188/	6
FIFU	2 74FS21/27256/74LS245/28C64A/74HCT32/74LS00/	4
APPLIED ID	1 7474/74221/7486/7408/7406/	7
	2 74123/7474/2N3440/GE38/2N3906/LH0033/LF356/1N914/1N5281/	5
ENGINEER'S	1 74121/2N4237/2N5961/	6
HARDWARE	1 74121N/7402A/7404N/	2
PROJECT OF	1 741/	1
	1 741/CA3140/74121/2N2905/2N2219/	9
DEID	1 74F74/74S175/74LS08/74LS02/LS04/	6
DEID	1 74HC4046/2N3904/2N5210/	2
WETHTA	6 741C/CA3130T/LF351/OC81/LM380N/BFY51/2N3819/BC179/TIP41A/	4
	3 7413/7406/SL490/TIL38/BC212L/BYF51/SL486/ML926/2N3904/TIL100	4
DEID	1 74123/7474/	3
DEID	1 74LS190/74LS73/	4
DEID	2 74139/7473/555/7400/2N3055/2N2222/1N4001/BY127/7404/	5
DEAP	2 74259/SN74S374/74S244/SN79259/SN74LS193/SN74F151/SN74LS123/	7
DEID	1 74123/7490/7485/7476/	5
	1 74LS373/74LS245/74LS244/	4
	3 1496/AM685/MV836/MM5837/	2
	1 74LS221/74LS08/74LS04/	4
DEIDFEAM	1 74HC14/	1
FEATURES	2 74HC541/74LS374/74LS373/74LS244/74LS240/74LS174/74HC157/7405	8
CIID	1 741/TIP31A/	2
LEED	1 747/2N3904/2N3643/1N751A/1N4154/FLV110/	5

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DEFE	1 74F283/74F175/74F164/74F163/74F157/74F109/74F14/74F11/74F08/	9
APID	1 74S112/74S74/74S32/	3
APID	1 7474/74LS74/74LS01/2N918/2N218/7404/	5
EXPERIMENT	1 741C/LM386/	2
ENGINEER'S	1 74188/MAN72/N8223/	2
APPLIED ID	1 74121/4016/LM733/LM710/R928/	6
IDEAS FOR	1 74LS85/74LS75/74LS161/74LS138/74LS04/	7
IDEAS FOR	1 74138/7400/7407/	3
NODI	1 74LS04/4N33/7414/SN28827/	6
	1 74LS74/	1
DEID	4 74LS51/7404/7400/7410/	3
SUPA	2 74221/74174/7474/7406/	6
THINK TANK	5 741/7476/4013/BRX49/2N3055/2N3904/2N2222/RS276-012/1N4001/	3
CIID	1 74123/74121/4049/14049/78H12/7805/BC182/	6
NOEX	1 741/BZY88C7.5V/BZY88C5.1V/	3
TENO	1 741/	2
CIID	1 741/BC212L/	3
CIID	1 74192/74157/74123/9368/7402/7400/555/BFY50/	9
CIID	1 74HC193/74HC132/	3
DEAP	1 74F803/74F244/74F04/	3
IDDE	1 74143/7486/7476/7404/7400/	6
NOTES	2 7400/1N4448/4051/2N3904/	2
	2 74154/7474/7476/74LS00/7493/7490/7400/8255/74LS240/04/7805/	9
APID	1 74LS193/74LS166/74LS83/2764/74LS05/74S86/	9
	1 7474/7493/7442/7402/	4
SYNO	1 74LS161/74LS175/74LS74/74LS00/74LS08/74LS04/	6
TENO	1 741/78L05/2TX303/2TX503/BC109/RS151-142/	8
	2 74LS123/MPSU10/2N3906/2N3904/SK3081/1N914/	2
NOTES	2 74S32/74S04/2N3904/1N752/	2
BUILD THIS	2 741/2N2222/	2
NOTES	1 74LS197/74LS164/74LS122/74121/74LS00/74LS02/KD1091/	9
IDEAS FOR	1 74LS04/74LS08/2N2222/	3
	1 74HCT32/74LS38/74HCT75/	3
IDEAS FOR	1 74C221/2N3643/4N33/LM311/74C00/	6
	2 741/74121/710/2N2369/531/BC157/	5
IDEAS FOR	1 74123/7413/7400/	3
	1 74LS123/R6522P/	2
	1 74LS245/74LS377/25LS2520/74LS126/	5
TECH TIPS	1 741/2N3053/1N4001/	2
	1 D40K2/	1
	1 74LS165/74LS161/74LS74/74LS86/74HC132/2N4400/2N4402/1N4148/	7
DEID	2 741/2N3906/	7
DEID	1 74LS273/74LS245/74LS00/74LS27/74LS10/74LS393/ULN2069/74LS30/	9
HANO	1 741/	3
DEID	1 74123/74LS123/	1
DEID	1 74LS162/74LS42/74LS32/74LS112/	9
DEID	1 74LS221/LS00/2N2222A/	3
DEID	1 74LS150/4514/4N37/4015/74LS173/4023/4050/	9
DEID	2 54LS244/54LS240/54LS138/2N2907A/1N4148/	6

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CIID	2 6402/74121/4702/1488/74LS04/	4
DEID	1 54LS74/54LS86/CD4050/	3
DEID	1 74HC139/2N2907A/2N2222A/MM74HC14/	3
	1 74LS74/74LS32/74LS00/74LS244/4001B/TIP110/1N4148/	6
DEID	1 74LS74/74LS00/74LS244/	3
DEID	1 74LS74/74LS374/74LS32/	3
DEID	1 7493/7474/74HC04/	3
DEID	1 7474/	2
FOREGROUN	3 7474/555/8080A/8224/7404/7400/	6
APID	1 741/BC148/	2
IDDE	1 74LS266/	1
DEID	1 74HCT132/1N914B/1N4148/	1
	1 741/	1
IDDE	1 74HC132/1N4148/	1
LETTERS	1 74190/74LS10/	2
IDDE	1 74LS123/1N3612/	1
DRBO	3 7486/4049/2N2222/	3
DEID	3 74HC688/74HC373/74HC245/74HC244/74HC138/74HC08/74HC04/2N3906	6
	1 74LS123/74HC74/74128/ZFM4212/MDC7225/MDC2225/MA2696-0101/	8
CIID	1 74HC14/1N4004/	1
IC TESTBEN	1 741/SK3466/2N4258A/ECG159/SK3444/2N3646/ECG123AP/	3
	5 741/	2
RENO	1 741/MC1458/8T363/LM2/DG184/SN74121/	9
	1 74LS14/7805/1N4004/	3
ENNO	1 74123/74279/7400/7486/	4
DEGU	5 74HC00/74HC74/	1
DEID	1 741/2SB596/TIP3055/1N5919/1N691/	5
EDPRSH	2 74LS164/74S374/82S50/74S157/74S124/74S280/74LS112/8T95/555/	9
DEFE	4 74ALS640/74ALS666/BUS65600/BUS63127/HM7621-5/74ALS245/	8
	1 741/	4
DEIS	1 74F64/74F11/74F10/74F08/74F04/	5
PAPERS	1 741/ILCT6/MCT6/MCT66/	4
COMAPH	3 741/8155/7493/7445/SL100/SK100/ECP55/ECN55/CD21/	6
TEST CASE	1 54165/	4
SPSE	1 7420/7402/7400/	6
APPARATUS	1 74LS74/74LS123/74LS03/1N914/	4
	1 74S109/74S00/74S140/74LS51/74S08/2N5841/	7
APPLIED ID	1 7474/IM6402/1488/8T16/7403/7427/2N2222/7430/	9
ENGINEER'S	1 74192/7442/74123/LM311/2N3702/1N914/7420/	8
	1 741S/	1
COMPUTER C	2 244/374/2716/2316/CRT9006SRB/CRT9021/CRT9007/LS160/2N3725/	9
CCT IDEAS	1 741/BC639/2N3055/1N4007/	4
	1 74LS244/58174A/	2
PROJECT	1 74HC85/74HC244/AY1015D/2N5818/7805/4020/4001/4050/1N914/	9
	1 74S140/74S08/74S112/74LS373/	8
CCT IDEAS	1 74LS151/74LS393/	2
	2 7438/7400/7474/8748/	3
	1 74LS245/74LS42/74LS175/74LS244/	9
	1 747/LF356H/TPS601B/	2

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	1 74LS00/1N4148/	4
APID	1 74LS221/4046/74LS74/74LS175/74LS20/	5
RETU	5 74LS30/74LS32/74LS04/74LS240/74LS374/MC75452/ADC0804/AD558/	5
TENO	1 747/4040B/BC107/4011/40106/	6
RENO	1 747C/	1
	1 74LS03/4N33/7414/SN28827/	5
	1 74LS04/74LS21/4528B/75150P/	4
FEAR	2 741/2N3055/	1
	1 741/	1
COMMUNICA	3 74121/CIL490/ECO52/OA79/AC128/BFW10/ADC800/74154/	9
	1 74244/N8T16N/N8T15N/7404/	7
	2 74LS175/74LS14/ULN2803A/R6522/74150/74LS10/74LS74/74LS244/	9
CIRCUITS	1 7490/7445/555/1N4001/	3
UCDETE	1 74LS259/74LS368/74LS257/74150/74LS139/	5
	5 74LS162/SC141B/4N39/74174/DAC1000/TL084/74LS365/2N2907/LM336	9
	1 74LS374/74LS393/	3
SPCO	1 74HCT00/2N3906/	2
REPA	1 741/308/	4
COCO	2 741/SL100/2N869/	3
	1 74151/74LS138/74LS161/74173/9314/	9
CORRIGENDU	1 741/74121/W10/2N2906/BC107/2N4093/1N4002/	8
NOTES	1 7474/7400/4N27/7404/BC508/BF508/BC507/BDX65/BAS34/BYX55/	9
PAPERS	1 741/78/79/	3
FOREGROUN	1 74193/7474/7486/7404/	3
APNO	1 74LS74/LM339/LM317T/1N914/	3
IDDE	1 74LS164/74LS86/74LS74/74LS08/74LS00/74LS04/	5
LETTERS	1 74LS123/	1
CIID	1 74LS248/74185/4050/7805/	9
CIID	1 7406/2N2905/	2
IDDE	1 74C14/IRF640/1N4148/	3
NOEX	1 7430/307-913/2N3904/7414/BA154/	3
CIID	2 741/BD136/BD135/1N4001/	4
NOTES	1 74165/74121/NE555/DM7493/7492/7490/7486/	9
APNO	1 74LS373/74LS151/74LS148/74LS138/74LS123/1489/1488/74LS30/555	9
ELCOCI	1 74LS193/74LS155/324/741/74LS08/74LS04/74LS00/7805/2N2222/	9
CIID	1 74121/74HC4066/7408/7404/7402/	8
IDDE	1 74HC04/	2
CIID	1 74HC4053/TLC3702/4069UB/	4
ARTICLES	1 74LS245/74LS154/74LS123/74LS116/74LS85/74LS32/74LS14/74LS04/	9
THINK TANK	6 74LS688/74LS123/74LS86/74LS30/78L05/7805/ECG5401/2N2222/	4
COMI	1 74HCT245/CNY17/74HCT32/74HCT04/1N4148/	9
MANO	4 741/2N3904/1N914/	1
NOEX	1 7486/BD137/1N4007/	2
TECH TIPS	1 74LS670/74LS00/74LS27/1N4148/	3
DEID	1 74HCT4060/82S153/	2
	1 7408/7805/	2
DEID	1 74LS161/74LS74/LS86/LS28/74LS04/	4
PAPERS	1 74123/7413/OP500/OP160/2N3904/BC107/1N4148/	4
	1 142603/1434/CD4066AE/2SC944/2SA603/1S1587/	5

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NUEL	2 74HCT244/74HCT164/74120/	2
CIID	1 74LS153/74LS253/AY3-8910/	2
PAPERS	1 741/7414/7404/FPT100/	3
GEIN	1 74HCT74/1N4148/	1
TENO	2 74HC4066/LMC660C/LP339C/74HC139/74HC123A/74HC86/74HC74/	9
NOTES	1 7414/74123/LM555/7432/7493/7404/	6
	1 9400/741/	3
NOEX	2 741/	1
	1 7407/TIL220/	3
CORRESPON	1 741/	1
PAPERS	2 74LS175/74LS32/6N137/2N3792/2N2219/7407/CA41/1N4007/	3
CIID	1 74HC161/74HC86/	2
NOEX	1 741/	1
HINTS & KI	1 7404/	1
APPLIED ID	1 74121/74164/7406/IN4001/	6
PROJECT 80	4 74LS161/74LS74/74LS04/74LS32/74LS08/7905/7805/7812/7912/	5
DEID	1 74HC04/2N3906/2N3904/1N4148/	4
	1 741UA/	2
APNO	2 74154/74121/7490/7473/7472/7407/7402/7400/1N4004/	9
CIID	1 1489/7805/1N4148/	2
TEFO	1 7407/	0
TEUP	2 74LS107A/74LS14/74LS05/74LS04/	5
HANO	1 7493/555/7474/	4
APPLICATIO	1 74C922/	1
DESIGN SOL	1 3524/3080/	3
EXPERIMENT	3 555/1N914/XR2240/2N2222/556/	3
	1 353/4066/4027/PKD01/	5
DEID	1 4518/4049/4011/	3
DRBO	1 556/	1
	1 M57745/	1
IDDE	1 555/1N5246/1N4149/	1
ARICLO	1 7541/	1
CIID	1 555/7474/1N914/	2
FOREGROUN	1 6502/74LS245/74LS244/74LS10/	4
	9 555/ICM7555/1N4148/BC109/	5
CODI	2 555/	1
DEID	1 555/	1
TECHNOLOG`	9 555/2N3704/2N3702/2N3055/1N4148/1N4001/	5
CIID	1 555/	1
	1 25LS2521/LS640IN/ALS04/	4
BUILD THIS	1 555/	1
IDEAS FOR	1 556/OT108/	2
	1 4528/4060/4043/555/4098/2N3904/1N914/276-036/OP2364/	7
	2 555/	1
EXPERIMENT	1 555/7490/7489/	3
EXPERIMENT	1 555/7490/7489/	5
WETHTA	7 555/2N5062/2N4403/FPT100/2N4400/LM386/1458/MC14584/2N5060/	3
DEID	1 7555/78L08/4049/4029/	3
IDDE	1 4543/4518/27C64/4040/7555/MM5369EST/4013/LCD004/IN914/	9

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ASK R-E	1 555/4017/	2
DEID	1 555/2N4093/1N4148/	2
IDDE	1 555/LM741/	2
NEW IDEAS	1 556/555/2N4401/TIL414/TIL414/1N4148/XC880A/	9
	1 3527/40106/2N5962/LM331A/LM348/LM393/78P05/LM7805/TL497/	9
	1 6522/BC107/BC477/	7
APID	1 4512/4510/4093/4006/4023/4511/4013/	7
TEACH-IN	4 555/68000/74LS148/74LS138/74LS05/74LS00/	4
IDDE	1 4538B/4520B/4044B/4001B/	4
	1 555/8253/	2
CIID	1 556/TBA820M/4017/	3
NEW IDEAS	1 7555/4066/4093/	3
PROJECT OF	1 556/555/2N2222/1N914/	3
HOBBY SCEN	1 555/7555/	1
TENO	2 4538/LM339/2SC1775/2SC372/2SK30/02Z10A/FOR1G/N13T1/MZ1022/	7
	3 5534A/TL074/TL084/VTL2C4/7918/7818/2N4401/2N2222/PN2222/	4
DRBO	2 4528/	1
APNO	1 555/	1
BUILD THIS	1 555/7555/7805/PN2222/7805/1N914/1N4002/	6
APPLIED ID	1 4514B/4042B/4040B/4024B/40106B/MC14584BCP/4011B/40688/40468/	8
DESIGNER'S	1 555/74C74/2N3643/	4
	1 555/74121/7430/7404/	4
SHCO	1 6522/7474/75451/74123/7410/7438/7400/	9
APID	1 4534/453B/4013/4011/	4
	1 356/311/74121/7474/7408/VFQ1C/	5
TENO	1 555/3080/741/1N914/	5
CIRCUITS	1 556/555/276-130/NE2/	2
HIKI	2 555/2001/4001/4002/	4
	1 556/555/	2
DEID	2 4543/4538/2716/4040/7555/4013/741/UUT43J1/2N2907/LC0002/4093	9
	5 R5101/TL074C/CD4066/CD4049AE/2N5210/	3
	1 555/2N3904/GB38P12/GB34P2/	2
APNO	2 8530/EPB2002A/EPB2001/62256/EPM5064/74AS373/74LS245/74AS245/	9
DENO	1 555/741/7408/	3
CLDENO	1 555/4401/2222/4148/	3
CIID	2 555/BC560/BC550/1B4148/	3
HOCO	1 555/	1
	1 4558/	1
APID	1 4557/4011/	2
PROJECT	1 555/4020/4017/4011/BC109/2N3904/ORP12/276-116/CL5M7/1N4148/	9
FEAR	1 555/LM324/7432/7408/	4
FEAR	3 555/3140/3130/358/1N914/	2
ASK R-E	1 555/4017/	2
	1 555/2N3053/1N4001/	2
TEST CASE	1 555/709/741/4N27/BAX17/	5
	4 5558/2N2712/UA741CV/1N914/1N4148/2N5129/1N4001/272-703/	3
LETTER BOX	1 555/	1
	1 555/LM311/MC1350/78L12/2N3906/1N6263/1N4002/	5
	1 555/	1

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DEID	1 555/74LS00/2N2905/	4
DEID	1 555/	1
	1 556/	1
	1 356/	0
PROJECT	3 555/74164/7413/7400/TIL209/	3
	1 555/1N4001/	1
NOTES	1 153K/	2
PAPERS	1 756N/915/SI1337-16BQ/	2
COAR	1 555/TIL414/2N2222/1N914/	3
	2 555/LM324/741/4020/	3
HAELRE	1 555/4029/	1
COAR	1 555/276-1067/2N3904/	4
NEW IDEAS	1 555/7490/7445/7404/CD4016/3909/	8
VIDEO	1 15-3017119-1/	1
NOTES	1 4529/8038/4066/UPC2002/TL084/1N4739/1N34A/1N3775/CQX21/	6
10SHPR	1 351/	1
CIID	1 555/BC178/1N4148/	2
	1 555/MJE34/2N3906/2N3055/1N5408/ECG197/	5
	1 6522/LS245/LS154/LS75/LS244/LS259/LS449/	9
	1 550/	0
ASK R-E	1 555/	1
ASK R-E	1 555/1N4001/	1
APID	1 555/	2
RESEARCH P	1 555/741/311/	3
IDEAS FOR	1 556/2N3020/1N4001/	3
CCT EXCHAN	1 556/7492/TIL209/	2
CIID	1 556/7492/TIL209/	2
	1 759/OP07/1N3716/1N3717/	2
DEID	1 555/2N3906/1N4004/1N914/	2
DEID	1 555/CD4066/1N4148/	3
DEID	1 4584/4051/1N457/	7
	1 555/OA47/1N914/	1
DESIGNER'S	1 555/2N3904/	4
	1 R5609/	1
CIID	1 4553/4511/4516/4069/4011/ZTX500/	9
DEID	1 4528B/4040B/NE566N/LM348/HI200/	6
HOMING IN	2 4511/7805/MPSA14/NTE46/ECG46/	2
	1 L555/ECG157/	3
AIANCH	1 2533/MM80C95/DM80C97/7408/	3
NOEX	1 6522/7421/7409/7405/	4
GEIN	1 4585/4538/4093/4013/7808/BD679/1N4148/1N4001/	7
ICLO	1 7541/	1
	1 555/	1
DEID	1 555/	1
E-Z MATH	1 555/7492/	2
ASK R-E	1 555/1N914/	1
ARTICLES	1 9558QB/LM741/	2
	2 555/7490/7402/7442/7404/1N914/	6
IDDE	1 6514/74LS138/	3

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	4 555/MHW592/7698/DM8830/DH0035C/74121/7406/2N4036/2N2219/	6
	1 6526/AD7552/CD4051/CA3140/CD4043/CD4001/2N3906/2N3904/MBR120	9
DECA	1 556/2N4871/BRX55/2N3646/BC557/1N4001/	9
FACTCARD	4 555/4011/VN10KM/BC109C/TIL209/ORP12/	2
SOSTDE	1 4543/4011/	2
NEW IDEAS	1 555/MPS3702/1N4001/	2
	2 555/BC548/2N3053/BZY88C5V1/1N4148/BZY88C10V0/2N5818/	3
	1 8500/741/	3
DEID	1 4528B/4011B/	3
DEID	1 4572/4518/4513/4019/4013/4046/4076/MAN4540/2N2222/1N914/	9
CIID	1 555/74164/7474/75188/75189/7404/7402/7400/1N914/	9
DEID	1 555/LM393/2N2222/MDA100/1N4002/	4
PAPERS	1 355/308/	3
CONNECTIME	1 2502-2/	1
	1 556/4518/4017/4011/BFY51/BC108/1N4148/	8
BENCH	1 75492/75491/	4
	1 2516/2532/2114/74LS245/74LS138/74LS32/74LS04/	5
TENO	1 4538/4040/4069/IN4148/	3
SPCO	1 555/AD7512/747/AD833A/	7
LETTERS	2 7555/1N4001/1N914/	1
DRBO	2 4528/4066/4049/4046/4040/4023/4011/4001/7486/2716/2N2222/	9
	1 555/7805/	3
DEID	2 555/	1
	2 355/INA101/TIP32A/	2
	1 3553/	0
APNO	1 555/7473/271-110/	2
THINK TANK	8 555/4017/4011/MOC3010/EC103D/IRF710/2N3906/2N2222/ECG6400/	4
CIID	1 4528/1N914/	1
	1 555/1N914/	1
IDDE	1 555/IRFZ34/	2
	2 555/	1
NEW IDEAS	2 556/2N2907/1N4001/	2
IDEAS FOR	1 555/276-1723/276-1161/275-236/NE2/	3
DESIGNER'S	1 555/1N649/GA301/1N916/2N3904/2N3906/	6
	1 555/	1
IDEAS FOR	1 4527/SAA1027/OPB814/74C14/	4
EXCO	6 555/1458/741/2N2907/2N2647/2N4891/FPT100/LM386/	2
	2 555/4017/4066/2N3906/1N4001/2N2222/IN4739/	6
PROJECT	2 555/4011/4001/4020/ZTX300/1N4148/1N4001/2N3055/VH148/BZY88C/	7
	1 555/4017/4001/4049/2N2222/	8
	3 25LS169/74LS373/2716/74LS374/74LS373/AM29811/74LS151/AM2902/	7
DRBO	1 4514/4520/4049/	3
DEID	1 556/SN7420/IN4148/	2
NEW IDEAS	1 555/276-116/	1
APNO	1 759/1N4001/	1
NOEX	1 555/ORP12/	1
DEID	1 555/78L05R/IFRD123/IN4005/	3
DEID	1 555/7490/7400/2N2222/	6
	1 555/AD506/339/741/2N2222/1N916B/	9

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DRBO	2 555/LM339/1N914/	2
IDDE	1 556/741/4N33/2N3019/1N5929A/1N4148/	5
INNE	2 555/1023/PP85AU/SIL4016/7474/7408/7404/SK3506/2N406/PFT100/	9
THINK TANK	5 555/4011/4001/2N3055/2SC945/ECG174/1N4001/NE2H/	7
	1 555/276-116/276-1657/	1
ATMOPH	1 555/OA79/	1
	6 2525A/LM3403/3543/IRF251/2N5038/2N2222/2N2907/LM339/1N5817/	4
DEID	1 9503/	1
	1 555/LM311/UA741/BC108/	6
SHORT NOTE	1 85/09/75/125/05/	9
ELTE	1 6581/TIL99/ECG3031/	1
PAPERS	1 6522/74393/74154/LM150/LM117/LM6365M/7406/7404/1N548/	6
APID	2 4528/OPB560/	1
ABBE	3 A50-12/2N5109/2N2222/1N4001/	1
TEAN	1 86C01/53C94/L245/H245/	4
DEID	1 16R4/74JCT74/74HCT04/	2
DEID	1 567/556/7474/7408/7404/	5
FEATURES	2 567/555/LM386/4001/7809/7805/7808/276-1152/	5
UPDATES	2 567/555/LM386/4001/7809/276-1152/	5
DEEN	2 96LS488/74F240/74LS157/74LS00/	4
FEAR	1 565/7476/555/	1
	1 16L8/41256/	2
	3 8602N/DM8130N/7432N/7486N/CD4050BCN/74LS244N/7493N/7476N/	9
DEID	2 16400PLCC/22V10/27256/62256/ACT573/ACT32/	7
DESIGNER'S	1 567/565/2N3565/	3
	1 16F60/	1
TEARCO	1 S6846/S6821/S6802/	3
BUILD THIS	3 2650/13941/U LN2813A/74LS373/74LS279/74LS139/74LS14/74LS20/	9
	1 7611/AD584/	2
SCAR	1 566/4098/4015/4081/4001/SK3024/4013/IN914/	9
FEATURES	1 567/2N3906/2N3904/	6
	1 866A/811/6H6/	4
PAPERS	1 7611/308/7660/	3
PRIN	1 86C103/86C102/86C101/86C150/86C130/86C131/86C301/86C401/	4
FEATURE	1 R6551/IN4148/	1
	2 1670/LM339/BB204/1648/10136/10125/10131/SP9685/2N3819/LS32/	9
MICROPROCE	2 M6800/6800/6850/F8/3851/3850/	9
TENO	3 7621/CD4027/CD4066/CD4098/LTC1062/1N914/	4
	2 3650HG/3652HG/3650JG/	3
DEID	1 9602/7432/7400/7407/MPQ6502/1N4004/	5
COAR	1 567/MPF102/2N3904/1N914/	9
	5 3600/74121/7400/7406/7404/8212/7442/Z80/7402/7430/	4
ASK BYTE	1 2716/74LS30/7404/	3
	1 77/76/	3
	8 2786/TMS4464-12/74HCT245/5C060/74LS241/	9
REPA	1 776/2N5457/BT2484/2N5087/2N5232/	7
	1 8748/8755A/8251A/	3
	3 8703/DAC0800/6402/TL082/TL081/555/4029/4024/4018/4013/4011/	9
SIUP	2 87C752/UDN2585A/MAX7219/LTS367P/2N7000/	9

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COMMUNICA	1 2732/74221/74LS75/74LS157/74ALS10/74ALS191/74LS191/	9
	1 071/7805/	2
DEID	1 F74/LS08/S04/	4
	2 8748/CA3130BS/LM311/AD7520KN/8212/	8
FEATURES	1 2716/	1
MICOPR	2 8749H/8039/2716/74LS373/7407/74LS07/	3
SPSE	2 67C4501/74HCT574/74LS245/74LS164/7414/22V10/	4
HARDWARE	1 276-1152/	1
FEAR	5 T7540/T7121/T7250B/BAT85/LM7805CT/	1
CIID	1 074/072/	2
	1 2716/74LS390/74HC390/74LS00/74LS123/	7
DEID	1 2732/SAR2504/'85/	9
	1 377/123/00/07/	4
ARTICLES	3 87C51/8751/TL074A/4148/	1
DEAP	3 T7250A/T7500/T7111/LS00/LS164/S38/LS245/LS04/LS27/LS08/	5
DEAP	2 8751/I860/74AS1984/74F827/74F821/74F646/74F245/	9
	7 8749/XR2211/LM324/NMC9306/74HC14/LM7805/2N3906/2N3904/1N4148	6
	2 071/165/759/OP37/ORP12/305-620/	2
IDDE	1 2704/2708/6820/7474/2N2222/2N1711/	5
ATV	1 276-1303/SS120P/7442/74154/	3
TEUP	1 3717/	1
ASK BYTE	1 2716/74LS30/74LS138/	3
TECH TIPS	1 2716/2732/74LS139/74LS10/74LS04/	7
	1 276-036/	0
CIID	1 8748/8048/7555/4066B/	3
	3 174/115/181/136/158/176/166/101/135/136/175/422/125/188/124/	9
DEID	1 3717/2716/74161/555/	6
DEID	1 2716/4543/4040/555/4013/LCD004/	9
	1 2716/	1
DEID	1 27256/74LS257/74LS374/74LS148/74LS32/74LS11/74LS04/	9
	1 2716/74LS374/74LS76/4040/1489/1488/74LS04/	8
DENO	1 27527/27529/2914/2910/2920/2729/	6
MODIFICATI	1 273/74HC85/4040/	3
DEAP	2 V7VGA/LS244/74AS125/AS32/HCT245/LS245/IMSG176/LM339/LS04/	9
	1 276-1101/	0
APID	1 27C256/PAL14L4/LS393/	4
CIRCUITS	1 275-215/	1
DRBO	2 2716/4051/4040/	2
	1 87C51/82C55/HEF4029B/74HCT00/	8
	1 2716/54154/54155/HLMP2350/	3
ARTICLES	1 276-086/276-142/	0
	1 57109/74C157/5203/1702/74C161/	5
CIID	1 4722B/4046B/1N914/	3
FEATURES	1 276-1171/	1
	1 176/135/136/181/174/188/145/164/158/101/422/	9
BENCH	2 68701/2716/TL082/74LS373/LM317/74LS00/1488/1489/2N2222/	7
ASK R-E	1 78-5/TIP32/2N2222/	3
APID	1 Z80CPU/Z80PIO/UPD41464/2732/PAL16R4/74LS257/	8
CIID	1 Z80/74F521/74LS164/74LS04/	4

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	2 Z80A/2764/6116/6264/INS8250/8255/7445/LM555/74LS393/CD4040/	9
	2 6840/6821/DAC1208/74HC4040/356/308/	4
DEEN	2 3870/3872/LF13300/6802/2112/6821/2332/6810/LD121/LD120/	5
THINK TANK	1 7812/1N4001/	1
	1 9841/	1
	2 Z8681/74LS373/2716/7406/7805/4049/7407/BC183/BFY51/BD705/	9
	1 0809/741/MCT2E/	4
ELDERE	1 R8071/R8070/R8069/	3
FEEDBACK	1 78L05/	1
DESIGN SOL	1 68701/2716/2758/74LS374/2N2907A/7407/1N914/	7
DESIGN ENT	1 68000/74S244/74S74/MK3901M/	4
	6 1802/2114/2716/74LS174/74LS138/1852/SC01A/4013/7805/4013/	7
DESIGN ENT	1 68000/PAL32R16/SCC8530/CIO8536/FIO8038/	5
COSE	2 6821/ADC0804/TL091/	2
	5 78S40/MC3423P1/4046/351/741/4017/4013/7815/2N3053/2N2905/	4
ARTICLES	2 1802/	2
ARTICLES	2 Y820/	1
SPRE	4 Z8601/Z8603/74LS04/MC6801/MC6803/74LS05/74LS244/74LS273/	4
	1 Z80/Z80PIO/74LS138/WD2002/	4
	3 7808/1N753/1N296/	1
PRSP	1 7810/	1
BUILD THIS	2 Z80/82C52/HC573/82C55/HC245/HC04/HC273/HC02/27C256/CRT9053/	9
PROJECT	2 6800/68705U3/27C64/6264/H2572/H2570/74LS138/74LS04/	7
ENNO	1 6820/4132-11/74121/7430/	5
DEID	1 7805/	1
CIID	1 Z80/74LS157/4116/74LS32/74LS00/	7
DESIGN	1 Z8/	1
DEID	1 Z80/74LS138/74LS175/74LS157/74LS00/	5
COPR	1 7805/1N4001/	1
CIID	1 7805/	1
	4 Z80ASIO0/555/741/74LS30/74LS04/74LS02/7805/MPSA13/1N914/	5
APPLICATIO	1 Z80/74LS764/74F244/74F245/74F1244/	7
DEID	1 Z80/2716/8212/	3
APID	1 Z80/74LS157/74LS279/	3
	3 68705P3/MC1468705G2/GMP5/	1
FEATURES	1 6802/74LS154/74LS193/74LS273/74LS244/	6
	3 Z8581/Z80B/Z8530/74S74/LS42/LS74/LS04/LS08/LS00/LS02/8086/	8
	1 Z80/2764/74139/74LS194/2N6388/	5
FEAR	1 68HC05CC1/	1
MEMORY TEC	1 Z80A/IMS2630/IMS3630/74LS32/	4
APNO	1 Z80ACPU/NCR5380/LS244/LS139/LS32/LS08/06/	7
DEFE	3 6801/8051/X2864A/ICL8212/74HC32/	4
LESOCOHA	1 Z80/	0
DESIGN ENT	3 68175/68155/68154/68000/	9
DEID	1 Z80CPU/AD558/LM311/AD7560/AD524/LS32/LS04/1N4148/	6
ELNO	1 386/741/555/	3
ASK BYTE	1 7805/74LS240/74LS04/	4
SERIES	4 7815/337/NE5534/OP27/337MP/340T15/LM394/5532/	2
	1 Z80/74LS04/	2

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INSTRUMENT	1 68000/ALS08/7417/LS125/LS20/ALS04/LS04/LS164/ 3 7812/276-1771/LM317T/276-1778/6EA8/	8 2
DEID	1 68000/74S138/74LS73/74S02/74S00/74S04/ 1 7812/741/1N4004/ 1 6850/6522/74LS125/74LS75/74LS02/74LS138/CD4024/CD4068/	6 2 8
HARDWARE	5 Z80/74LS08/74LS367/74LS00/74LS244/276-1161/7805/276-1770/	6
BIT BUCKET	2 6821/5557805/	2
RETU	1 M88876A/M88877A/	1
DEID	3 Z8530/80186/74LS74/74LS123/74LS245/74LS06/74LS08/74LS32/	6
CIID	1 7805/EL84/	4
UCDETE	1 Z80/74LS175/74LS174/	3
IDDE	1 Z80/74LS125/74LS74/74LS08/74LS04/	4
PROGRAMMI	3 5837/AD301AL/TL082/741/AD581/AD590/	4
BUILD THIS	2 P87C51/74AC244PC/74F244/LM339/MOC3023/LM335/7805/Q4004F31/	8
INMENSUP	2 C83062E/VN2406L/2N2222/HLMP3950/1N965/	5
BENCH	1 68HC705K1/75176/	2
INNO	1 084/3046/1N4007/ 1 1802/4050/555/4066/1N914/ 1 68020/F32/38/LS14/74LS244/	2 4 4
DEID	1 78L12/MC14093B/MCT2/2N2222/1N4001/1N4148/	4
DENO	1 7805UC/PN3643/IN4001/IN4009/	2
REPA	2 Z80CPU/8255/8253/8251/8212/AM8148/DAC0832/6116/CD4051/193/	8
DEID	1 18V8/HDSP-E101/BC548/	5
APPLICATIO	1 68HC11/28F256A/74HC4066/	3
STSOST	1 7910/2N2907/2N2222/ 1 3909/	3 1
NEAPTE	4 D94FQ4/2N6027/D39J1/C203A/D44T/GET2222/980AK1/UGN3019/A114E/ 1 29287/	5 1
DEID	3 X9503/084/	3
ICS FOR CO	3 2901/1458/IN914/CH1296/2045/CH1295/3044/MK5102N5/	7
SYSTEMS AR	1 29841/16L8A/	2
SHCO	3 592/741/BC477/BC107/ 2 3914/566/2N3906/2N3638/2N4249/2N3904/1N914/	6 9
HOBBY CORN	1 3909/ 3 7915/1N4007/1N914/1N4001/2N4401/	1 1
CIID	1 79MGUIC/7805/ 1 MAX232/	2 1
SERVICING	2 TA7070/1N4001/	1
ABBE	2 CA3130/LM386/	1
IDDE	1 TAA930/2N1132/2N930/1N914/	3
FACTCARD	3 UA4136/LF347/LM380N/BC109/	2
SOSTDE	1 DAC8043/OP77/	2
DEID	1 MAX680/1N5711/	1
SOSTDE	1 DAC8143/OP42/	2
PROJECT	1 CA3420/TL081/2N3904/2N3906/1N914B/ECG123A/ECG159/ 2 MAX232/4069/	6 2
TEME	1 SAA1064/HD1105O/BC547C/	7
IDDE	1 MAX721/2N7004/IRFS1Z0/2N5401/VE51102/1N5804/1N753A/	4
APPARATUS	1 CA3140/	1

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ENGINEER'S	1 CA3130T/	2
DESIGN IDE	1 CA3096/	1
CCT IDEA	1 UA9706/UA2240/74150/74H106/7408/7400/ 1 CA3140/BB420K/	6 4
DEEN	2 MAX690/MAX691/ 1 UA741C/PT6/PT4/	1 7
NOTES	1 CA3130AT/3140/	3
SUPA	1 UA733/CA3140/AH0015CD/CCD121H/	4
ENNO	2 CA3140/74C04/2N3906/2N3904/MV5491/XC5491/	5
COLUMNS	1 MAX561/	1
FEAR	1 MAX635/1N5817/	1
COLUMNS	1 MAX717/	1
DEPE	1 CA5422/	1
DEID	1 CA2004/CA555/2N2102/	3
IDDE	1 CA3450/CA3227/	3
DEID	1 MAX457/HP5082-2835/	1
AIANCH	1 DAC08/7520/3527/3510/741/8253-5/2716/VFC32K/74367/LM329/641/	9
DEID	1 MAX400/MAX170/74HC132/	4
DEID	1 MAX791/MAX630/CD4049/1N4148/	3
APPLICATIO	8 MAX232/4N35/74HC4050/74HC4049/ 1 UA733/MV5252/	1 1
PRPR	1 CA3259/	1
ARTICLES	1 GA301/	1
IDDE	1 DAC0630/NS3904/2N4403/	6
DEID	1 PAL16R8/ADC0803/LF412/HC14/LM185/	4
APPLICATIO	1 MAX138/DG509A/74HC374/	3
SCTE	1 UA741/	1
ENGINEER'S	1 CA3183/741/2N1613/1N4001/ 1 CA3140/	3 1
DRAWING BO	2 MAN1A/MAN74A/74S288/MAN74A/74LS244/74154/ 6 CA3059/CA3058/T2301D/ 1 CA3130/LH0002/P1-11H/	3 4 1
EDSPRE	1 MAX457/	1
POMA	3 MAC81/LM311/555/MC1458/TL074/2N4239/2N3716/1N4732/1N4005/	6
ARTICLES	2 MAA502/UA709C/BZP630C10/BA816/BAP794A/620C15/	8
SPCO	1 CA3130S/TIS58/	2
DEID	2 MAX457/MAX455/74HC191/74HC132/SD211/2N3906/1N914/	6
DESIGN	1 DAC08/BD139/BC107/	4
APPLICATIO	1 DAC0832/LF353/8052/LM385-2.5/	3
IDDE	1 UA741/ 2 UA725/LM741/Z80CPU/Z80PIO/HM6116/74LS139/2708/ADC0800/7404/ 2 CAZ7601/9400/4052/741/7224/4529/4040/4532/4001/4000/79L05/	2 7 9
PANOCISY	2 UA741C/1N4148/	1
IDDE	1 MAX7231/ICL7631/2N3906/ 1 UA733/MV5353/MV5753/MV5352/ 1 CA3140T/CA555E/2N6000/	3 1 3
BUILD THIS	1 CA3162E/CA3161E/FND507/2N2907/LM340T5/1N4002/ 1 IA296/4741/CA4093/CD4093/CD4016B/6N136/	7 9
LETTERS	1 MA1026/2N3904/276-116/	2

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	1 UA796/725/741/	4
TEUP	1 MAA2000/MAA2500/MAA2100/MAA2200/MEA2600/TBA2800/	6
SHPA	1 CA3080E/	2
	1 MAX260/MAX261/MAX262/	1
	2 UA741/SN7493/SN74175/AM460/	6
PROJECT	2 CA3140/LM311/741/1N4007/7912/7812/	7
PRIN	2 PA89/	1
DEID	1 MAX138/OP90/TN0102N3/AD590/CL603/	3
DEFE	1 PAL16R6D/74F114/74F74/74F00/	5
	2 CA3160/CA3140/LF357/LF356/BC477/BC107/	5
DENO	1 UA711/	1
TEMEPR	6 CA3140/LM311DP/4040/4528/4082/4081/4070/4043/4042/4027/4020/	9
	4 DAC1265/AD585/AD582/LM555/LF411/LF357/LF356/LF353/LOG100JP/	9
	1 HA5330/HI201HS/MN5245/	4
DESIGNER'S	1 UA723/2N5067/	3
	1 6AF4/6T4/1N34/	1
	1 CA3140/4051/MRD450/	5
REVIEW PAP	1 CA3140/LF356H/HF11F1/	9
	1 OA90/	0
DEID	1 HA4900/HI5042/74LS74J/74LS123J/74LS32J/74LS11J/	6
DEAP	3 CA5470/CA3019/	2
BUILD THIS	2 UA78S40/TL431/D45H10/D44VH1/D45H8/TIP31/1N4004/1N914/1N5822/	6
CIID	1 CA3140E/	1
	1 DAC0806/ADC0804/2716/355/LM555/	5
DEID	1 MAX630/U LN2013/74HC14/IRFD9120/1N5817/1N4001/	5
IDDE	1 CA3060/TL084/	2
NUEL	1 UA741/LM555/LF356H/LM361/LM7915CT/LM7905ACZ/LM7815CT/	9
	6 IAPX80186/MC68824/74LS374/74F138/27512-20/MCM2016P70/74LS148	9
HANO	1 6AH6/	1
	2 SAA1024/SAA1130/4028B/BF120/BF393/BC184L/BC182L/BC212L/AA153	9
EDFO	2 CA3140T/LM340KC/MJE3055/	3
DEID	1 MAX138/DG509A/	2
DENO	1 CA3140/	1
BENCH	4 MAX500/MAX637/MAX170/MAX633/ADC0831/74HC123/LM358/LM336/	7
DEID	1 MAX265/	2
GEIN	1 CA3240/LM317/BUZ11/BC560C/BAT85/BYW29/1N4001/	5
	3 UA741/LM111/	2
	1 CA3140E/CA3080E/1N2069A/MC3403P/1N4001/	5
	1 BAV10/	0
	1 SAA1639/	1
BRCO	1 CA3080E/	1
ARTICLES	4 CA3140A/MPOP07/74LS166/ADC1100/2N2222A/ICL869/	4
NEPRPO	1 MAX680/	1
ARTICLES	1 CA3127E/7400/BC1076/5082-4207/1N4007/	3
DEID	1 MAX635/74HC273/2N7000/1N5817/	3
	2 UA741/	1
APPLICATIO	3 MAX455/	3
CIID	1 CA3140/741/7815/BC237/1N4148/	3
ENNO	1 CA3140A/DG201CJ/	8

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CIID	1 CA3080E/	1
	1 DAC71CSB-V/LH0044/74HC573/74HC563/LM317T/	8
COLUMNS	1 MAX661CPA/	1
CIID	1 CA31406/BF256C/1N4148/	2
	1 DAC80/7475/74123/7493/7400/7406/	6
APPLIED ID	1 UA733/AM686/	2
APPLICATIO	1 SAB8086/SAB8282/SAB8286/74LS244/	4
DESIGN IDE	1 CA3260/CA3130/CD4053/SGSP321/	4
DEID	1 MAX232/74LS08/	2
	3 MAX455/MAX445/	3
IDDE	1 MAT03/LM385/	1
	1 CA3089/CA3189/KB4402/HA1137/BF224/BF594/BB109B/	3
MENUSP	1 UA740/DMC8412/	1
	1 UA741/	3
CIID	1 CA3080/741/	3
CIID	2 DAC312/OP27/373/2N3053/TIP120/BC109/	8
PAFRCOATM	1 MA45336/	0
DEID	1 GAL20V8/	2
DESIGN ENT	3 MAX630/4069/IRF543/1N5817/1N4148/1N4001/	4
ANALOG SPE	4 DAC0830/LM358/LM324/CD4040BC/4N28/LM334/92PU06/LM329/LP324/	7
IDEAS FOR	2 CA3140/CD4016/CZ6.8/2N2222/74123/74190/7475/7474/7447/	9
TENO	1 UAF355/290A/	3
	3 UA723/8255/74LS30/74LS32/75451/LM340-12/LM340-5/LM320-5/	6
TEUP	4 MAX632/MAX636/LTC1044/IRF9633/MTP5P18/1N5819/1N4148/RC4292/	2
RENO	2 UA741/CA3080/	2
DEID	1 UA723/	1
	1 CA3130/LM311N/TIP42/2N2222/1N4370/1N4001/	4
TRBR	1 UA741/	2
CIID	1 UA2240/TL081C/2N4222/	3
DEID	1 UA723/M324/C30954E/BF421/BC251/PL150Z/1N4148/	5
DESIGN	3 DAC-HA12B/DAC-HA14B1/DAC7541/AM460-2/	3
APPARATUS	2 UA741/CD4011/CD4016/CD40192/BD139/DM7447/BY127/CD4081/17766/	9
	5 DAC1220/LF351/1N752A/04/LD121/LD120/7403/08/74151/08/6522/	3
TENO	2 UA79M05/UA78M05/ICL8038/ZPD5.6/LF356/ZPD12.7/BC141/	3
TOCHIN	1 CA3140S/TI072/AI13/	4
COFE	2 MAX426/MAX425/	1
CIRCUITS	1 CA3140/1N914/	1
	1 TA7505M/LM301A/LM741/UPC152A/SN74121/SN7400/2SA733/2SA945/	9
ELCOCI	1 MAT02/	1
LTMIDE	1 HA5147A/2SK147/2SD786/	6
	2 MAX164/MAX163/74HC221/74HC244/74HC163/74HC74/74HC32/74HC00/	9
REPA	1 UA741/	8
NEW IDEAS	1 CA3079/555/4017/	6
DEID	1 MAX635/REF02/OP77/	3
DEID	1 DAC08/MAT03/2N5401/1N914/	3
PRSP	2 DAC0806/1458/741/CA3140/555/7493/4013B/4029B/	7
AIANCH	4 CA3140/LM741/CD4011B/2N4402/2N4400/VFC52/CD4050/	6
CIID	1 CA3140/LM335Z/	2
IDDE	1 HA5004/	1

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APPLICATIO	1 MAX270/DG508/74HC163/	3
DEID	2 MAX690/2N2222/1N914/	2
DEID	1 CA3189/	1
ARTICLES	1 CA3140/	1
	1 SAA1027/555/4011/	4
APID	2 TAA661/2N5245/	2
PAPERS	4 GAT3/	1
	4 DAC0800/DG303/LF356/6502/6545/6264/74393/74244/74240/2716/	7
	1 CA3140S/	1
SPCO	1 UA747/UA741/IN4148/	3
DEID	1 MAX8211/MAX680/IRF541/1N914/	3
ARTICLES	3 UA748/CA3130/2N2905A/2N2219A/FPT102/1N914/	9
PISPEDSE	3 MAX712/MAX713/MAX620/ICL7612/ICM7556/SMP60N06E/2N6109/2N3906	5
	1 UA741/BC141/BC161/	5
	1 DAC709/	1
	1 CA3440/CD4047/CD4013/CD4093/MJE344/CD4050B/1N4001/1N914/	9
	1 DAS952R/74138/8098/	3
	1 CA3140/BC107/1S920/4011/	9
ROBOTICS	1 SAA1027/	1
	1 UA741/740/UA749/BC108/OA90/AC187/	7
	1 CA3080/	3
ADIC	1 MAX232/	1
HARDWARE	1 SAA1027/TIL111/74LS04/	4
	1 CA3140/LM324/	5
APTE	1 UA741/UA740/KP302/KP304/	9
RFPR	1 MAX280/	1
	1 HA2625/LM308/LM311/2N4856/2N2222/1N4152/	9
PROJECT	1 CA3140E/BC547/2N3904/1N4148/	2
PROJECT	1 CA3140/TIP31A/	2
SPISPA	2 CA3183/	1
	8 CA3035/LM1808/TBA231/UA739/TAA930/4001AE/555/2N2905/BC109/	5
ARTICLES	3 HA2625/LF357/LM310/LM308/74C221/IRF511/2N2222A/1N914/	5
	1 CA3130T/LM318N/	2
IDDE	2 DAC08/CMP01/LM311/REF01/J175/2N4403/2N4400/1N914/	5
	2 UA356/74193/7400/8256/9368/2N5434/2N4125/2N2907/	9
	1 HA2400/LM311/531/VM101/7430/7420/7404/	9
COEL	2 SAA7323/MN6471/NJM4580L/2SC2001L,M/RDF02M/	5
DEID	1 MAX666/MAX158/	2
IDDE	1 CA3080/TL084/	2
DECA	1 CA3160/CD4011/CD4049/IEE233G/IEE233R/	3
GEIN	1 CA3140/BC547B/BC517/1N4148/	5
ARTICLES	1 CA3140/3N140/MVM114/	5
RFDEAW	1 HA5004/	1
DEID	1 MAX406/MAX404/2N5088/2N5087/	3
APPLICATIO	2 MAX251/MAX250/6N136/4N26/1N4148/	6
DEID	1 CA3096/	1
BENCH	1 MAX639/1N5817/	1
BENCH	2 MAX7219/HDSP5503/LM7805/	9
DEFE	4 PA02/PA10A/PA09/	2

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PRFO	1 UAA4002/6N135/BD244/BUW48/BYW98/BY2995/ESM4017/BA159/IN4149/	9
POELTE	1 CA3134/	1
ELSCTE	1 CA3140/555/MPF102/RD330/BD329/2N2222/1N914/	9
FEATURES	2 DAC08/NE5534/	3
	2 HA909/2N5416/TR75A/TR74/TR23/1N4006/1N4003/1N914/	9
INSTRUMENT	2 CA3140/7406/7805/BC109/MI1069/	3
ARTICLES	2 UA733/UA739/2N6550/2N2484/	7
DEID	1 MAX406A/MAX480/BC547/	2
DESIGN	6 PA83/PA73/PA10/2N4416/2N6327/2N6320/1N4570/	3
COLUMNS	1 MAX249/	1
APID	1 MAX664/BC337/BC338/	2
IDDE	2 MAX650/2N3906/1N970B/1N645/1N914/	1
	3 MAX232/7404/LM7805/78L05/	2
COLUMNS	1 MAX703/MAX704/	1
DEID	1 MAX921/VN0300L/	2
DEID	1 PBL3717/74LS266/7474/	4
	1 MB88303/74244/74138/74123/	5
	1 GB38P12/	0
DESIGN FEA	1 GBL10G070-4F/	1
	1 6BM8/1N4007/	1
COFE	1 FB2020/FB2010/FB2000/FB2030/	9
CIRCUITS	1 6BA7/6AQ5A/	2
FUSION	1 MB7071E/10.231/F10.000/	4
PRSP	3 SBL1-1/2N2222/MPF102/NTE312/MV2111/	2
SHPA	1 MBD101/	0
DESIGN ENT	1 RB1002/DC1001/LS175/LS138/LS245/4164/4416/LS139/8086/8088/	9
NOEX	1 SBV566/	1
CIRCUITS	1 6BN8/6GW8/6EA8/	3
DEID	3 MBR030/1N5231/1N4003/	0
TEUPCOSU	1 FB2030/FB2020/FB2010/FB2000/	8
	2 BB119/BB212/	0
NEPRINCI	1 PB50/	1
INSTRUMENT	1 PB50/	1
	1 TBA820M/LM1458N/741C/	4
	2 BB3553AH/PSC2-1/RAY3/BC558/2033A/	6
TEUP	1 PBM3960/PBL3771/	2
	2 TBA120S/ECG1292/74123/4001/7414/MPF102/2N918/2N4400/2N2222/	7
IDEAS FOR	1 ICL7650/	1
CCTS	1 MC1350/MC1330/2N3638/2N3904/1N914B/1N4001/IN4002/	5
DEID	1 MC3423/	1
FOREGROUN	1 MC14566/7805/1N4148/	2
IDDE	1 MC34161P/	1
COMI	1 BC547B/BD140/	3
IDDE	1 MCT9001/	1
COFE	1 UC3871/IRFD9020/IRFD020/1N5819/1N914/	5
ASK BYTE	1 MC1488/MC1489/DS8830/DS8820/	2
APPLICATIO	1 PCM61P/	1
DESIGN IDE	1 MC68008/8259A/UPD71059/UPD71011/74HCT164/74HCT10/74HCT04/	7
	4 MC5121/LM317/7812/3SK53/2SC1070/2SC1730/1SV59/MRF901/2N2905/	4

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ANALOG CIR	1 ICL7126/	1
DABR	4 MC1648/SL1648/MV1404/MV1401/	1
CICI	4 MC14538B/MJE3055/2N3904/2N2222/1N914/	3
COMI	1 MC145407/	1
APID	1 MC6809E/BAL3810511/LS05/	1
SIUP	1 MC68HC16/	1
DESIGN ENT	2 UC1903/	1
FEATURE	1 BCY72/LF357/4N27/LF356/LF351/LM311/BC108/1N4148/	9
MEMORY MAI	1 SCB68430/74LS245/1488/1489/74LS244/74LS245/74LS157/74LS74/	9
IDEAS FOR	1 MC14528/	1
APPLIED ID	1 ICL7611/ICL8069/IRF9520/	2
CIRCUIT SP	1 BC548/4011B/1N9148/	1
	2 PCB8573/PCD8571/PCF8577/PCD3312/PCD3340/	5
	1 MC10125/74123/7407/MC10124/	4
APID	1 MC14017B/MC14049B/2N3704/2N3702/DD10R/1N4148/	9
CICICE	4 MC1408-8/LM301A/AD558/LM311/7495/7493/7486/7400/NE555/	9
DEID	1 HC163/CD40103/CD4027/MF6-100/MFG100/	7
APID	1 ICL8211CPA/MM5368N/BZY88/BC109/1N4001/CUB1/346-665/	5
	3 BC109/74LS14/MEL12/2N3053/TIP32/	2
	1 BCT8245/BCT8244/ACT8997/ACT8994/ACT8990/	9
IDDE	1 ICL7107/CD4011/1N4148/	2
RFAM	1 MC1741/MTH25P05/MTH25P06/1N5245B/	2
CIID	1 MC1496/4046/TL071/4017/4013/4001/BC108/	8
ASK EDN	2 ICL7107/	0
DEPCSY	2 MC68836/MC68839/MC68838/MC68837/MMBV105GL/	4
GEIN	1 BC237C/1N4148/	1
	3 RC111/	1
	2 MC6850/MC1489/MC1488/	3
CIID	1 BC548/1N914/	1
APPLICATIO	2 MC68HC705C8S/LM358/X9103/MAX232/78L05/VN0300/MJE3055/FPT100/	8
	1 BC184/BC441/	2
	1 BC107/1N4148/741/7412/7414/	5
APPLICATIO	2 MC6108/DAC08/74LS273/MC6821/LS30/LS32/LS20/	5
APNO	2 MCS6522/MPS6502/AD574/LF356N/TIL111/74LS04/CD4066/	5
	1 MC6801/	1
	2 SCL4016/SCL4053/	1
COAR	3 MC1350P/NTE746/NE602/LM386/NTE613/NTE614/NTE618/	1
DESIGN	5 MC68000/MC6854/MC6844/LS373/LS368/LS367/LS138/LS75/	5
	1 MCT2E/SL100/	2
TEAR	2 SCU1/MK5160/ICM7128A/ICM7218B/75119/	3
DESIGN NOT	1 BC108/BF259/	4
	1 ECG105/1N3209/IN5400/LM340K12/	2
	1 MC3356P/VN10KM/MC4049UBCP/5082-2835/276-1124/	3
CONSTRUCTI	5 BC109/BCY72/1N4001/OA91/45100/	2
TETO	1 BC109/	2
RASP	2 SCL4001A-BE/2N1893/2N1132/IN755A/	3
	3 ICL7109/6522/ICL7660/ZN4231/305-434/BC109/	3
DEID	1 HC164/HC191/HC74/HC86/HC00/HC04/	6
	2 MC14499/ULN2003/MC68HC05C4/6805/	3

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	2 HC00/HC86/1N4148/	3
AIANCH	1 ECG389/ECG164/1N4007/	2
IDDE	1 XCA120/LM317/	3
DEID	1 IC723/1NA101/	2
ENHANCING	2 MC68HC68T1/68HC11/DS1286/6164/2764/HC373/HC138/4066/HC14/	8
CIID	1 MC1494/TL084/	3
	1 VC60/	1
TECH TIPS	1 MC1458/	1
CIID	2 MC10116P/MC10231P/BCY70/74LS197/74LS93/74LS151/	3
NEPR	1 RC4077/	1
DEID	1 MC68HC11/LT1014AC/LT1029AC/BZX79C/1N4148/	2
GEIN	1 BC149/1N4001/1N914/	1
BUILD THIS	2 MC34118P/MC34119P/TCM1512B/1N4733/RB115/MV5774/	3
INMEHIENPH	2 MC10116/MC10105/MMBR5179/MMBR901/1N914/	4
ANDIINCI	2 VC7695/HCMP96850/MC10H131/MMT3960/	3
IDDE	1 MC34084/	1
APPLICATIO	1 MC33033/MC34272/MPX5100/78L05/MPM3002/	5
PAPERS	1 MC1458/	2
APID	1 HCF4098BE/1N4148/	1
DEID	1 UC1825/2N2907/2N2222A/	3
DEID	1 HC74/HC126/HC32/HC14/	4
DESIGNER'S	1 ICM7224/ICL7135/CD4013/ICL7650/	5
SYNO	2 ICL7109PL/AD580/8212/74LS138/74LS30/7805/7905/1N4002/	6
	1 RC4136/LM380/2N3906/2N3904/1N4148/	7
CIID	1 RC4151/4024/REF257/1N4148/	3
DEID	3 ICL7660/IH5042/MTH25P06/MTP50N05EL/MTP50N05E/1N914/	3
PAPERS	1 MC741/AD820/AD810/2N5087/2N3904/	9
CIRCUIT CE	2 MC6850/74LS245/74LS04/74LS136/74LS74/74LS164/74LS05/74LS00/	9
	1 MC1458N/CA3080E/	5
DEID	1 MC3487/	1
	1 SC01/74LS244/LM386/2N2222/	4
	4 MC14511/MC14435VP/MC1405/MC14514/14025UB/MC3403/MPSA70/MAN7	9
ENNO	1 MC68701C/6801C/8155-2/74121/74LS86/74LS00/	5
TOCHIN	4 MC6820/MC1406/1458/741/556/74123/7473/74LS30/74LS27/7402/	9
	1 MC68008/74LS373/74LS163/74LS148/74LS112/74LS10/74LS04/	8
BUILD THIS	2 ICL7107CPL/7805/2SC945/2SA733/ECG5304/MAN4710A/1N4733/1N4007	6
COAR	1 ECG5616/V130LA120A/272-712/1N4004/	1
THINK TANK	4 ECG5616/556/MOC3010/TI914/1N4004/	2
APPLICATIO	3 MC14469/74HC4060/74HC4040/CD4013/74HC08/MAX232/7805/2N2222/	4
APPLICATIO	2 MC68HC705C8P/USC2240/MAX232/UGN3019/LM317/78L05/IRF512/	9
	3 ECG3034/2N6515/	1
IDDE	1 MC4044/MC12040/1N5711/	1
BUILD THIS	1 MC14511/MC14566BCP/LM339N/LM7805CT/FND503/1N4002/1N4148/	9
	1 6CG3/	1
	1 BC108/	1
CIRCUITS	3 ICL7106/IT1750/4047/	2
DESIGN NOT	1 MC14514CP/MC14528CP/MC14526/CD4059/2708/MC14011C/2N4401/	9
TECHNOLOG`	1 MC42468/MC34046/MBM2256/MC34044/	4
	1 MCM10149/MC10198/SP9685/F100131/NE219/LF398/F100125/MC10125/	9

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TEUP	1 MC34120/MPS6729/MPS6717/	3
TEDASP	4 SC868430/SCN68681/Z80/SCN68653/SCN68661/SCN68000/74LS163/	9
DEID	1 MC14411/4019/LM124/4030/	5
COAR	3 MC6845/LM311N/74LS245/74LS174/74LS161/CD4006/74LS74/74LS11/	6
	9 RC4194/LM317/SFC2376/LM320T15/UA78MG/UA79G/UA7805/LM341P05/	3
SETE	1 MC3419/MC14418/MC14053/MC14401/	4
IDDE	1 MC34161/MAC228A6FP/MR506/1N4742/	3
APPLIED ID	2 BC148/OA79/	1
	4 MC145805E2/MC14469/74C14/27C16/2N2222/	3
	2 MC14469/ADC0817/74C14/2N2222/	3
APID	1 BC148/BC157/741/	9
	3 MC1408L8/ILQ74/CA3240/2N4123/1N5235/2N3702/7805/7815/7912/	6
APID	1 ICL7106/FZ1.2/2N3053/	2
CIRCUITS	3 MC3340P/2N3906/	1
NOTES	1 MC4741/MC1494L/LM383AT/PXO1000/	5
	1 MC14411/74193/54122/MOC3030/2N6147/1489/	9
INCO	2 MC14521B/TL430/BC547/BD131/N5002/	3
PROJECT	2 ICM7555/TLC555C/4017/555/ZTX300/2N3904/	3
FEATURES	3 MC6840/LM555/7445/FPT110B/	4
FOREGROUN	1 MC6840/7405/	2
IDDE	1 ICM7555/ICM7218C/ICM7218D/74LS138/1N914/	3
TEBR	1 MC145030/	1
	1 MC6820/MC6821/SN7406/	2
COAUMECO	1 MC68000/Z8530/IMSC011/74LS244/74LS240/74LS139/	7
APID	1 MC10116/74HC4017/4017/2N5485/2N4258/BAW62/	7
BUILD THIS	2 MC3373/MC74HC74/MOC3011/MRD821/2N6071A/GP1U52X/1N4733/1N4003/	4
BENCH	1 UCN5804B/74LS74/74LS27/1N4148/	4
DESIGN SOL	1 MC34012/4N35/4017/4013/2N3906/4093/1N914/	6
IDEAS FOR	1 MC3423/	1
NOTES	2 HCPL2731/74LS374/	9
WETHTA	4 ICM7555/BC109/555/2N3904/BFY51/MPSA42/2N3906/MC1554/1N4001/	4
CIID	1 BC183L/7406/7407/1N914/	1
CONSTRUCTI	1 MC3401P/2N3904/7812/2N3055/1N914/1N4734/	5
	1 ICL8021/1N5290/	1
	2 MC3403/PKA2211P1/	6
REPA	1 ICL7611/	1
ARTICLES	3 MC1741C/MFE823/2N3906/2N3904/5651/1N5247B/HEP170/	5
BACKGROUN	3 MCS1/MCS6200/HEP-R0803/	2
FOREGROUN	3 MC1408L8/74170/MC1458G/LM301A/7493/CD4051AE/74LS30/74LS04/	9
LAEX	2 SCL4046A/LM308/SCL4030/ICL4011/	2
IDDE	1 PC74HC423/TL081/BC560/1N4148/	3
	1 DC005/DC004/DC003/74LS86/74LS04/	7
SYDEDACO	1 MC68000/74LS279/74LS163/74LS138/HDSR2006/74LS74A/	6
THINK TANK	6 MC34017-1/MC34017-2/MOC3010/7812/2N2222/1N4001/1N914/	9
DECA	2 ICL7660/LM10/	2
CIDEID	1 BC337/1N4004/	2
EDEDCH	1 ICS1700/IRLZ34/2N2907/2N2222/LM385BZ1.2/1N4148/	5
	1 BC107/2N2222/	1
DESIGN SOL	1 MC34012/2N3904/LM393A/1N914/	3

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APPLIED ID	1 MC14049B/4N25/TL430C/2N3704/	4
	1 MCT2/4N28/741/7404/2N3439/	9
APID	1 MC1408/UA741/LM723C/	6
	1 XC3020/8288/8086/8284/74LS245/	5
	1 MC14538/LF356/741/STK082/2N2222/	5
RENO	1 IC7408/IC7400/IC74174/IC7474/IC74273/	7
APNO	1 MC14499/M6805/	2
	1 MC10116/BSX27/1N914/	5
DEIDFEAM	1 HC4046/LF356/	2
DECA	1 ICM7555/BPX66/	1
NEW IDEAS	1 MC14553/4511/4043/1N914/UGN3020T/	5
TENO	1 MC14073/MC14538/MC14013/MC14066/	4
DEID	1 MC146805/555/1N914/	2
	3 MC796/TDA2590/TDA2591/TDA2592/M991BD-C/2N3906/2N3904/1N916/	8
DEID	1 ICL8038/LT1042/AD536/LT1013/VN2222LL/	6
CIID	1 ICL7134U/NE5534/	2
CORRESPON	1 ECG190/	2
	1 MC6800/M4-38/AM9511/74123/7416/	4
COMPUTERS	2 MC1489/MC1488/276-2521/276-2520/1N4001/1N914/BAX16/MAX232/	2
	4 SCN2670/SCN2674/SCB2675/SCN2671/8051/74LS245/74LS374/8048/	8
TECHNICAL	1 MC14414-2/CD4047AE/NE570/	3
	5 HC4017/74F138/74HC374/NC4000/DAC1600JP-V/ADC80H-AH12/AD585/	7
	1 4CX250B/1N914/ZX180/	3
DESIGN ENT	1 MC33030/1N753/MZ2361/TIP42/	2
DEID	1 HCPL3700/74LS114/IH5043/MC1488/MC1489/	4
	4 4CX250R/4CX250B/1N3005B/1N2999B/1N3307/5082-2800/2N2222/8874	2
	2 MC1596/SL6440C/	1
	2 MC68HC11A8/PCB8573/MDA2601/	2
	2 UC1834/GED45VHI/UPT721/2N6676/	3
UCDETE	1 MC6850/MC6821/74LS151/MC14411/1489/	5
COSEBIPI	2 ICL7109/7805/7905/BD139/BC109/1N4007/	4
	1 LCB300/LM337/LM317/7806/1N4002/	5
IDDE	1 UCN5832A/	1
FOREGROUN	2 MCT2/74LS30/8T95/74LS02/74L04/1N4002/	3
DEID	1 HCT4520/HC237/HCT74/HCT32/	4
APID	1 ICL7663/BC213L/	3
NEAPTE	1 MC68230/MC68000/74LS348/74LS244/74LS14/	5
IDDE	1 HC132/1N4148/	1
APPLICATIO	2 MC34060/MDC1000A/MTP50N05E/MTP33N10E/MPSA55/1N4746/MR850/	3
DEID	1 BC558B/BC548B/BF240/BAT85/	3
DEID	1 PCA80C652-12WP/MAX232/MAX1232/	3
	3 MC14028/MC14072/MC14081/MMH0026/7812/LM307/TIP31/MC14068/	9
CCT CIRCUS	4 SC141D/MOC3010/555/4001/	3
	1 MC6805P2/MC14027/MC14026/	4
APID	1 MC145151/	1
	1 MC68681/1574/MC3486/MC3487/MC1488/MC1489/	6
ALL ABOUT	1 PC900/	1
DEID	1 HC4051/LM393/HC393/HC132/1N5817/	9
	1 MC14433/4051BE/MC14049B/1N4148/1N746A/	3

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	1 ICL7663/2N3055/	2
IDEAS FOR	1 MC14520/SN74LS138/SN74LS253/SN74LS173/SN74LS123/SN74LS02/ 2 4CX1500B/1N34/HEP170/0B2/6SJ7/6AS7/	7 9
ENNO	1 MCT2/LM311/741/2N4401/ 1 MC34012-1/	5 1
DESIGN ENG	1 MC6805/	1
COMMUNICA	1 MC1488/	1
NEW IDEAS	1 SC141M/ST2/	1
PROJECT	1 TCM1520AP/2N2222A/MCR100-6/2N2646/2N6659/2N2907/272-1145/	7
ENNO	1 MCT2/CD4011/CD4009/2N3390/TIL209/1N4154/ 1 UC3620/	4 1
DEID	1 MC6845/74LS138/74LS32/74LS04/ 3 MC1489/MC1488/7909/7809/7805/1N4001/276-2520/276-2521/	4 3
TENO	1 MC3487/MC3486/74LS74/ 1 MCS6502/MCS6522/ADC82AG/	6 4
DEID	1 HC74/HC132R/LCA120/ILD2/2N3906/1N5239/	5
CQ REVIEWS	1 ICM7216DIPI/CA3179/8582C/MAR6/MC10116/4066/DL-DL04770/	8
ARTICLES	1 MC1594L/LM310N/TP1322/1N4446/ 1 SC10/	5 1
TEBR	1 MC14574/MC14027/MC14049/MTP10N10M/85170/TL431/MR826/1N5307/	6
CIRCUITS	2 MC14538B/4081/555/2N2222/4069/	4
ARTICLES	2 HCPL2200/74123/7476/MTP2N50/MTP2P50/ 3 MC68120/MC68HC34/MC146805E2/MC68000/MC6809/MC6801/	9 3
IDDE	1 ICL555/	1
APSU	1 ICL7126/NE5514/KP101A/LS513031-30015-1S/KTY81-120/	4
ARTICLES	1 MC838/74192/74121/7486/7474/7442/7437/7427/7425/7420/7402/	9
APPLICATIO	2 MC1408L8/LM723H/NE555/NEC2502/79L05/78L05/78L12/2N3055/	8
LAEX	1 MC140/SC107/1N4007/	2
FEATURES	1 ICL7673/DIG12-08-010/SMP60N06/1N914/1N4148/	5
APID	1 BC107/SFT353/KT206600/ZD10/1N4007/ 2 MC1489/7404/2N2222/2N706/1N914/ 2 SC141D/S576A/GE82/1N4148/1N914/	4 5 2
DEID	1 ICM7240/H11J1/VP01/T2500B/	5
HAM RADIO	2 MC1350P/NTE746/NE604/ 1 MC68000/MC6850/MC68230/	1 4
SHCO	1 BC338/MCT8/ 1 ICM7555/LH0002/74C221/ 3 ICM7201/1N34A/LT1005/ 1 MC6804P2/MC145001/MC145000/GE69D3R09/	6 3 1 4
TENO	1 MC68705P3/SN74C922/MPSU45/ 1 MC1445/ 1 ICL7611/UUT51J1/151-243/1N914/9491/	3 1 2
TEBR	1 MC14578/1N4683/HLMP-D150/HLMP-K150/HLMP-Q150/	1
CIID	1 BC548/	1
REPA	1 HCT4528/BC337/1N4004/	2
DECA	1 ICL7107/CA3140/LM339/MC14081/4053/CD4052/4066/MC14049/4027/	9
APPLICATIO	2 MC3371/1N5817/	1
COPR	1 BC547/1N914/	1
PAUSNO	3 MC3357P/TK10420/1S2209/	1

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COMPONENT	1 XC2018/Z80/Z85C30/27256/	4
DEID	1 ADC0852/TIP117/1N4003/1N914/	2
IDDE	1 AD632/	1
IDDE	1 AD632/OP77/1N914/	2
DESIGN ENT	4 ADC1205/ADC1225/CD4066/LM11/LF13508/LF398/LF13007/LM368-5.0/	5
DESIGN ENG	4 AD574/AD507/9940/AD7501/8048/AD565/AD583/AD542/8080A/8228/	8
NEPR	1 AD6012/	1
	1 AD588/AD7672/	2
APSU	1 TDA1596T/TDA1598T/TDA1574T/TDA1572T/	4
	1 ADC0804/74LS244/74LS08/74LS541/74LS138/74LS245/74LS367/	8
THINK TANK	2 CD4528B/LM339/1N4006/	1
APPLICATIO	2 AD667/AD7512D1/AD585/74LS365/7474/2N222/	6
	1 AD647/LM301/BBDIV100/AD524/BBOPA103/BBINA101/BBOPA102/	9
	4 AD630/AD524/LM11H/AD581/LM144H/AD759N/ADSHC85/AD542/XR2206/	9
DEAP	2 AD1175/AD7502/TL7705A/949/AD548/74LS688/74LS245/74LS174/	8
	1 AD524AD/HA2425/4538B/355/311/4583B/4071B/356/HI201/	9
	1 BD438/BD437/BC547/BC157/	7
	1 AD7512/AD7511/	2
DEID	2 AD524JD/	2
NEW IDEAS	1 CD4011/2N2219A/2N2222A/1N4004/	3
APNO	7 IDT7132/IDT74FCT138/IDT74FCT136/Z80/68000/IDT7142/	9
	1 AD630/AD624/TL081/	3
DEGU	2 AD712/AD711/AD580/2N3906/2N3904/	5
INNUSP	1 AD515KH/TL082CP/SN75454/AD7513/1N34A/	3
FURE	1 TDA1034/PIN5D/	1
TEME	1 AD636J/	1
	1 AD558K/74121/7474/7432/7404/AD544/	5
	1 CD74HC73/2070/	1
TENO	4 AD524/TL074/LF356/LM3914/MV57164/1N4733A/1N4740A/	9
IDDE	1 AD744/	2
NOEX	1 AD654/LF351/6522/	2
NODI	2 AD633/LF351/	1
APID	1 CD4051/74HCT273/74HCT193/	4
TECHNOLOG`	4 AD532/	1
BUILD THIS	2 AD621/TLC2274/74HC393/555/SCC15A/23226919001/	5
DESIGN	2 ADC10HT/OPA11HT/2N2905/1N3595/BZY88C5V6/	2
NOTES AND	1 HD0165/AY3-1014A/75150/4011/4518/74C14/4049/1N4002/	9
	1 AD754/F40097/UA741/DAC0800/2N2222A/1N4004/	8
DESIGN IDE	1 TDC1008J/	1
	3 ADC0809/LM1458/741/CA3130/MC1408/TCA780/MSM5832RS/LS373/7402	9
TENO	1 AD515/TC5565/27C16/65C02/74HC374/74HC138/PXO600/ADC0809/	7
	1 AD2B54/AD2B56/AD574/	4
APID	1 WD2001/AM7910/MC14411/MC6850/74LS245/74LS173/74LS138/74LS125	9
ENNO	1 CD40257/MAN6640/MC14495/MAN6740/	6
DEID	1 AD558JN/XR556/74159/HLMP1300/4520/	5
APPLICATIO	3 ADC0808/UA741/2N621/74LS32/74LS02/IN4148/IN3569/2N3569/	6
	3 AD522/AD7502/ICL7109/4001/4011/4528/74LS368/4013/LM336/	5
PAPERS	4 AD7528/AD390/HA4900-02/LF147/AM9513/A206/MAS1202/HM5-6564/	9
BRIEFS	1 AD7523/555/741/81LS96/14553/74121/7475/7416/7401/4027/4011/	9

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DENO	1 AD574A/8255A/AD585/74LS27/74LS10/2N2222/	6
DEID	2 AD7624/AD7528/MAX635/MAX235/1N5817/1N5082-2835/	2
BUILD THIS	4 CDP1802BE/HM6116LP4/27C16/MM5483N/LM331N/LM324/4584/SCX15AN/	8
	1 ADC0816/DAC08/741/7493/7400/BC108/BFY56/0A91/	7
	1 AD380/AD544/AD583/ADC80/AD589/AD7511/LM311/74LS221/74LS290/	9
TENO	2 AD524/LT1031/LF356A/2N4091/AD595/	4
HAHA	1 ADC0808/	1
REPA	2 AD507/OPO7E/AA023-250-300/	1
	4 TDA5660P/SL1451/LM324/4017/7555/TIL111/40106B/4066B/BC547B/	9
IDDE	1 CD4007/VN10KM/HLMP3300/1N4001/	2
DEAP	1 IDT7252/NCR5380/74FCT521/FCT240A/74FCT138/FCT373A/FCT823B/	8
INCI	1 AD1862/CXD1125/CXD1130/CXD1135/SM5813/NE5534/	6
FOREGROUN	1 CD4013/CD4050/	2
DECA	1 CD4098/CD4071/CD4027/LM324/555/277-1005/1N4001/	6
ARTICLES	3 TDC1012/UA741/BF907/BFW16/PSCJ2-1/KB113/	7
STATE OF S	1 TDA3810/	1
	2 AD7534/AD7535/	2
	2 TDC1018/LM113/MC10131/741/SP9685/MC10136/MC10158/	6
	1 BD137/UA555/BU205/	3
APSE	1 ADC0808/LF356/74LS175/74LS92/74LS126/74LS32/74LS04/74LS08/	9
	1 AD7502/AD625/AD574A/AD7226/ADOP07/AD584/7474/74LS138/	9
	2 AD574A/AD585/	2
	3 AD534/AD536A/AD741/AD580J/	3
DEID	1 AD534JH/OP05CP/	3
	1 CD4007/LM386/	5
	1 AD540/LM310/741/BC177/BC171B/	5
APID	1 CD4093/1N914/	1
BUILD THIS	6 AD558/MC44802/NE615/ADC0834/NE602/74LS688/74LS374/74LS245/	9
OPEL	9 CD4046/ML922/SL490/ZTX704/ZTX650/ZTX384C/ZTX214/ZTX213/BPW41	9
SPCO	3 AD7541/CA3240/LM1458/74LS393/74LS374/74123/7404/7915/AD581/	9
FEATURES	5 ADV0820/74LS241/74LS161/LM1458/74LS93/74LS86/74LS14/74LS04/	9
ACBEHATA	4 AD9500/10198/10131/NE5205/R2490/2N4957/BF290/1N5388/	4
APNO	1 TDA5664X/BB515/	1
DEID	1 CD4046B/LMC660C/74HC193/	3
DEFE	4 AD7628/REF43/4029/C244/AD590/	4
DESIGNER'S	2 CD4011/555/CD4015/1N4004/2N2907/2N3053/	5
	3 AD7502/SN74LS283/AD7513/AD7502/OPA101/OPA111/SN74LS193/	8
	1 ADC817/ADC827/	1
DEID	1 CD4052/LF347/NE572/	3
CIID	1 TDA2571A/74LS161/AM25LS2521/MK4801AN70/74LS74/	8
CIID	1 AD7110/NE5532/NE5534/4516/4068/4078/4013/4093/BCY70/	9
DEFE	8 ADSP2100/AD678/AD7528/ADG526AKN/AD526C/AD1334/VL82C37A/	9
	3 AD518J/AD507K/555/723/4066/4013/4011/HP2900/IN3064/	8
	4 ADC0801/ADC0831/DM8092/8048/SCX01DN/LT1014/74299/74163/7476/	8
FEAR	1 ADC0804/	1
FEATURES	1 ADC0841CCN/AD0841CCN/LM7805/2N2222/1N914/	9
DESIGN	1 TDC1007J/SL541C/4741/MC1403U/2N6034/2N5836/2N2907/2N2222/	8
ELECTRO/80	1 AD636K/AD589/	1
	2 AD811AN/AD744JN/	2

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PAPERS	3 AD526/TL604/TLC14/LTC1062/TL071/HC164/HC151/HC123/HC107/4066	5
DEAP	3 AD588BD/OP213/OP177/REF01EZ/2N2219A/1N4148/	3
ANDIINCI	1 SD5000/	1
DEBR	3 AD606JN/ICL7136CPL/	2
	3 AD7574/AD7524/7415/74LS74/74LS138/74LS04/74LS32/74LS125/	7
IDDE	1 AD9500/AD707/AD96685/10131/10107/1N4148/	5
COAR	1 RD5108/RD5106/RD5107/LF353/4013/ECG950/2N3904/1N914/	7
APNO	1 TDC1018/2N2907/LM313/	3
APID	1 AD639/AD632/AD630/TL084/	6
FEPAPCO	1 HD100102/LT026/	1
COAR	2 BD649/ECG263/BC557/MPSA05/BC547/SK3854/BC327/1N914/1N4002/	6
ENGINEER'S	1 AD435K/4136/2N2905/2N2222/TIP31/	5
DEID	1 AD630/	1
THINK TANK	8 CD4046B/CD4011B/SK2086/MOC3010/7404/LM337/LM317/1N914/	2
COMPUTER C	1 CDP1802/CDP1869/CDP1870/CDP1871/	3
IDEAS FOR	1 CD4051BE/74LS373/74LS123/74LS121/	4
COMPONENT	1 HDAC34010/	1
COMPONENT	1 RD5106A/RD5107A/RD5108A/	1
	1 AD522/SHA1A/MPX8A/	5
PAPERS	3 AD290/LM311/LM393/DC60S3/IN4007/	4
TENO	1 AD571/AD509/AD346/LM311/74367/74365/74273/74193/74123/7474/	9
	1 AD540/TP1425/LM307H/741K/2N2222/	4
CIID	1 CD4053/CD4020/	2
CIID	2 AD590F/1N914/	0
DEID	1 AD633/LT1025/AD7512DI/OP400/OP77/LM311/	6
	2 AD533H/LF356/LF398/NE555/74LS107/74LS08/	6
DESIGN SOL	1 AD7545LN/LF411CN/74LS374/74LS393/74LS279/74LS08/74LS04/	9
DESIGN ENT	2 AD569/74175/HA4950/AD630/OP07/	4
	1 AD537/741/AD532/	3
EXCO	2 CD4011/JA741C/LM339/	2
CCT SUPPLE	1 AD590/LM311/BXY88C5V6/BXY88C6V8/	1
STATE OF S	2 AD592/	0
	4 AD558/RC4558/LM319/TIL222/TIL220/MOC3011/TIC226B/2N7000/	5
	9 ADLH0032CG/M957/555/5089/AD3554AM/74C74/74C175/CD4514B/	9
NOTES	1 AD580JH/U709/SN7437/JA709/BCY59/TIL117/1N4001/CQX95/	6
NOTES	1 AD545/MFOD102F/	1
PRSP	4 AD536/CA3140/741/1N4148/1N60/	6
APDENO	1 LD271/SDP8405/	0
FEAR	3 AD7501/AD1403/AD594/AD595/AD741/AD592/	2
	1 CD4011/PFT100/HLMP3750/	2
	1 AD670/TLC272/	2
DEID	1 CD4538B/AD590/AD592/	1
ENNO	2 CD4052/LF351/301/74189/7493/7414/	9
COMIPR	1 CD4093/1N4148/	1
APPLICATIO	7 AD7501/AD1403/AD670/AD592/AD581/208/	2
ANALOG SPE	3 AD7527/AD642/LM224/AD644/AD584/1N4148/	3
HOBBY CORN	1 CD4060/74154/CD4044/XR2242/	0
	1 AD534/	2
SERIES	1 BD436/BFX64/TBA435/	3

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CIID	1 CD4518/CD4511/CD4011/	4
DEID	1 CD4053/CD40106/	1
APID	2 CD4098/2N3906/CD40106/1N4148/	2
DEID	1 CD40103/CD4518/CD4013/CD4049/	6
STSOST	2 TDA2320A/	1
ENRE	1 AD538/LF353/2N5566/2N3904/IN914/IN4148/	8
IDDE	3 CD4516/87C64/MOC3010/TIC216D/4543/LCD004/D30/7805/CD4070/	8
	1 AD558/6522/	1
AIANCH	1 CD4098/2N5551/2N3906/2N3904/1N914/	4
DEID	2 ADC85-12/DAC80CBIV/3627/CMP01/MC14508B/7427/2N2219/	6
PROJECT	1 CD4020BE/LM324/276-124/2N6027/2N3904/1N4148/	5
	1 AD561/AD509/LF356/HPLMP1740/	3
FEATURES	1 CD4066B/CD4011B/CD4002B/L805/78L05/LM340T5/2N2222/1N4004/	7
	3 AD598/AD588/AD562/AD508A/LM675/IN4748A/	4
PROJECT	2 TDA3810/TDA1524/	2
IDDE	1 AD7572/MAX162/MAX172/74ALS878/	2
IDDE	1 AD9698/LPC662AI/MC33172P/	2
DESIGN	2 AD7546/8085/8155/9900/8212/9904/	4
CIID	1 AD534/AD644/AD544/INA101/UA714/	5
TRBR	1 AD381/741/1N4739A/	9
	1 AD523/	0
TEAR	3 AD558/AD171/74L5221/AD580/2N2222/	3
NOTES	1 AD524C/UA741/	2
	2 CD4516/LM358/NE555/CD4081/CD4071/CD4069/CD4040/CD4027/78L15/	9
IDDE	1 CD4011/	1
IDDE	1 AD654/ICM7555/CA3140E/8C183/OPL1264A/1N4148/	6
CIRCUITS	1 CD4001/CD4066/	2
IDEAS FOR	1 AD537/74C926N/MPSA13/FND503/	9
SEMICONDUCT	2 WD279X/7438/7414/	2
INDUSTRIAL	2 AD537/289/74C221/74C174/CD4040/	5
ASK BYTE	1 CD4511/CD4508/74LS244/74LS00/74LS30/CD4069/	8
	4 AD210/AD7547/AD308/AD548/AD584/2N2219/2N2907/FDH333/1N4573/	6
APID	1 CD4013/HM6641/CDP1852/CDP1853/	4
SUPA	2 ADC80-12/6522/AD521/74193/7486/7414/7410/7404/	4
DEID	1 ADC4203/ADC4202/ADC4201/74HC74/74HC10/1N4148/	3
	3 PD500/555/2N3055/BF259/BU208/BY713/1N4148/	6
DEFE	4 AD208/AD705/AD588/AD246/LM10/LM358/AC1226/LM7815/TIP31A/J201	7
IDDE	1 CD4007/1N4148/	1
TOLASP	1 AD524/LM311/	2
	1 AD639/AD578/AD583/68HC11/	5
IDDE	1 AD590F/	0
APPARATUS	1 UDT455HS/	1
SCOR	2 CD4067B/CD4051/6522/YSI44031/	5
	1 CD4001/CD4013/	2
TENO	1 BD138/4049/SO42P/1N4007/	3
TRBR	1 3DG6/	2
NOTES	1 AD521/536T/IH5024/	3
PAPERS	1 AD581/AD590/	1
ANDE	3 TDA1541/OP44/OP42/AD845/4N33/LT1031D/LT337AT/LT317AT/BC327/	4

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TELEVISION	4 TDA3561A/7812/BF423/BF422/BF392/BC337/BC158/2N3906/2N3904/	9
ARTICLES	1 TDA1541/79L05/78L05/	3
ARTICLES	1 AD3554/	1
PRUPCOTE	1 ADNT300/TLC2201BCD/LT1016/	3
DESIGN IDE	1 CD4536B/CD4053/	3
MODS	1 CD4007/LM339/	2
INTERFEROM	2 CD4051/74LS193/74123/LM555/LM741/7413/	4
SEMICONDU	7 ADC0831/ADC0833/LM358/LM385/2N2222/ADC0838/ADC0834/LM38525/	3
READER EXC	1 ADC0808/555/	2
CIID	1 CD4051/CA3162/CD4053/CD4024/	6
DEID	1 CD4093/	1
DEID	1 CD22402/HC4066/HCU04/	3
DEID	1 ADC0820/LF412/1N914/	2
SINO	1 AD624A/AD644/	2
DEID	1 CDP1854/MC14411/74LS244/74LS123/1489A/1488/	4
	1 AD532/AD582K/AD741J/	6
COSEBIPI	1 CD4040/74LS00/	2
NOTES	1 AD43K/UA741/2N3645/2N3053/UM1.5N1500D/1N459/	7
IDDE	1 CD4051B/74LS373/74LS123/74LS32/74LS08/	6
SPCO	1 AD515L/NS-LH0042/	3
IDDE	1 CD4538/CD4070/CD4047/	3
DEID	1 AD829/	4
DEID	1 AD694/AD736/AD22050/	3
	2 AD7580/TLC393CP/TLC271/43256/27C64/74HCT373/74HCT164/74HCT74	7
CIID	1 CD4013B/IRF730/	2
IDDE	1 AD7245A/OP290/OP07/IL300/REF02/2N3904/1N4148/	6
ENHANCING	4 ADC0809/74HCT688/74HCT245/74HC245/74HC138/74HCT126/74HC00/	5
TECHNOLOG`	4 CD4007UB/	1
	1 AD522B/AD517/AD515/	3
	3 AD637/741/AD580J/AD5421/A544/	3
CCT IDEAS	1 CD4046/LM348/HBF4727/M086/78L05/1N4149/	5
DESIGNER'S	1 CD4042AE/CD4012AE/CD4049AE/RR4403/	7
	2 AD565A/AD711K/AD574/	2
COMMUNICA`	1 CD4016/	2
APID	1 AD7523KN/MC14520/LM741/LM129/OP07/	4
	1 AD534KH/CA3140/SHM-LM2/74121/MC14027/OA202/	9
CIID	1 CD4511/CD4071/4070/LT547R/4011/BC107/	8
	7 AD524J/AD624/LM741/SAD1024/AD5245/AD644/MJE180/MJE170/1N914/	3
DEID	2 CD4027/CD4011/CD4001/2N1711/1N4002/	5
	1 AD514/AD536/AD521/AD741/434/AD507/AD515/APX200/	9
DEAP	2 HD4074308/ICL7660/78L05/2N3906/2N3904/IN5231/IN4735/	6
ARTICLES	1 AD574/AD7501/6522/	3
PAPERS	4 AD7520/LM1496/LF351/LM319/AM2504/555/SN7447/MAN4610/SN74185/	9
PAINDE	1 AD532/7650/	2
SOSTDE	1 WD33C93B/80286/82355/	3
CIID	1 AD571/74244/7474/7411/7404/7402/	7
ARTICLES	1 AD534/LM741/	8
FLLABEPLPR	1 CDC404/5147/C30956E/	4
DESIGN APP	1 UDN2952B/HCTL1000/ALS138/LS373/LS04/	5

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	3 CD40106/74LS123/	1
ENGINEER'S	1 AD561/AD582/MC6820/1N4148/	9
DESIGNER'S	1 ADC-E8B/74LS380/74LS04/74LS125/	4
TENO	1 CD4097/7475/7404/7442/	9
INCL	1 CD4049/276-2449/CD4013/276-2442/	3
DEID	1 AD630/AD741/	2
	1 AD7512/4047/6N135/CA3140S/AM470-2C/	7
	1 AD571/74LS273/74173/8097/74LS138/1408L8/	7
	1 ADC0809/AD574/8T97B/SA810114BP/LH0091/SY6551/	4
	1 HD64180/74C150/9311/6264LP/27C64/74HC574/74HC245/FPT100/	7
COCOI	1 ADC0801/ADC801/	1
WEEKENDER	2 CD4047/CD4011/7812/2N3904/1N4001/	4
PAPERS	1 AD521K/4350/ZN423/	3
APID	1 CD4001/BPW34/	2
	1 AD45K/TL081/	4
IDDE	1 AD736/AD790/AD707/AD7512/559-01101-001/	4
CIID	2 CD4093/BC547/	2
COSE	8 ADC-EK12B/AD563/8212/CA3140/7475/7438/7427/7420/7414/7406/	4
IDDE	1 CD4098/CD4046/CD4520/CD4001/2N2222/1N914/	5
APDENO	1 ADC0804/	1
	1 CD4045AE/CD4040AE/CD4013AE/CD4012AE/CD4009AE/U741/2N2925/	9
	1 ADC60/8257/74LS373/	6
CIID	1 AD558/	1
INPR	2 CD4060/7810/BC557B/BD241/1N4148/	5
SPCO	2 AD7530/741/741S/CD4520/555/CD4051/CD4047/CD4042/CD4013/15TH1	9
APPLICATIO	3 ADC0848/8031/LM331/LF347/138/	3
REEN	1 AD7111/TLC27L2/TLC082P/TIP42/TIP41/	6
DEID	1 AD595C/2N2222/1N4007/	2
FEATURES	2 AD9617/AD797/	4
NUEL	4 AD9696/74HC365/BSD214/C30902S/HC04/	2
APPLIED ID	1 CD4018/	1
	1 AD565A/8255/AD509/	5
APID	1 TDC1021/TDA2576A/74LS00/MC4044/74LS624/TL072/74LS74/BC559/	9
	2 AD1139/AD711/AD7535/ADOP27/AD524/HP5082-2811/	4
APPLICATIO	3 TDA5140A/TDA5141/BD202/BD136/	2
	2 CD4046/IN4371/AD574/UP8BC/6526/	4
	1 CD4022B/CD4518B/CD4040B/MK4501/IDT7201/74C373/74C00/1N914/	9
	1 TDA8140/	1
	2 TDA8140/BU208/D45H5/	2
DEID	1 AD538/	2
	3 AD624/OP27/LH0002/LM385-1.2/	2
ARTICLES	1 AD847/AD744/OPA633/	7
PAPERS	1 AD624/UDT620D/	4
SPFE	2 AD7824/AD7226/RC4558/LM79L05/	3
DEID	1 CD4538BC/PXO600/CD4009C/	2
	2 CD4046/CD4013/MDA942-6/	2
DEID	1 NE604/NE532/	2
SPRE32BIMI	2 WE32104/WE32103/WE32101/74AS8834/74AS8833/74AS8836/74AS8837/	5
APID	1 HEF4528/HEF4011/HEF4049/	3

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TEUP	2 SE568/NE568/HMD11301-2/HMD11011-2/	2
RFFETE	3 NE578/	1
PRIN	1 NE5214/NE5217/NE5211/NE5210/	2
DESIGN IDE	1 NE556N/TL080/	2
	1 NE555/	1
	1 NE536/741/	2
DEID	1 NE564/74LS221/74LS74/74LS86/74LS93/CMT05/74LS08/74LS04/	9
	4 HEPF0010/2N2712/555/2N2219A/	5
	1 NE71000/	4
	1 NE5538N/IN5712/	1
NOTES	1 SEV117/CLC401/	1
HOBBY SCEN	1 GEC106F1/1N4000/	1
	1 NE555/2SC1815/1S1588/	3
	1 NE555/BC109/7805/BZX79/TAG625/BC154/MJ2501/1N4007/7400/	9
NOTES	1 NE555/	4
	1 PEB2080/	1
	1 HEF4752V/4011/4049/4047/4046/	3
	1 HEF4738V/HEF4014B/HEF4093B/IN914/	3
	1 NE566/7473/74LS08/74LS86/2N3905/SRA1/1N914B/	7
DEID	2 REF101/OPA111/MJE180/2N2222/	2
DEID	3 REF101/OPA100/	3
	1 NE5539/	1
	1 NE565/OP07/	3
	5 NE5532/NE5534/LM7905/LM7805/LM317/MPSA92/MPSA42/2N3439/	6
STATE OF S	1 NE5561/RAB020/2N3638/2N4920/	3
	1 NE555/8212/	1
	1 WE32106/WE32104/WE32103/WE32101/WE32100/	5
FEAR	6 NE5205/CA3100/MC1350P/40673/MPF102/	1
BUILD THIS	1 NE2/	0
	1 NE5534/	2
IDEAS FOR	1 NE5560/MPS8599/MPS8099/IN4151/	6
IMAGING &	1 SEA7100H/SED3181F/HA11732/	3
APID	1 NE567/TIP121/14049/	3
	2 NE567/SAB0600/LS7220/LM386/4017/4093/BC547B/7810/BC557B/	9
IDDE	1 NE567/74LS221/	2
CIID	2 NE592/MC1733/LM360/74F38/	2
DESIGNER'S	1 NE555/2N4401/	2
DEID	1 REF43BZ/OP90EZ/2N1711/1N4002/	4
COMPONENT	3 REF02/LM34/LM3911N/1N914/	1
BUILD THIS	2 NE529/5082-4360/6N137/7805/	5
	6 MEL4881S/	0
TENO	1 HEF4093BT/BCW32R/BPX81-3/	2
HINTS AND	1 NE555/	1
ASK BYTE	3 NE555/LM1812/LM309H/2N2907/7404/LM741/NE567/2N2222/1N5231/	4
	1 NE565/7493/7492/7404/BC308/	7
CIID	2 HEF4046B/XR555/	1
RFDEAW	1 NE604/SA604/LF444/7805/2N4124/2N2920/	5
TITE	1 NE2/NE51/	0
HARATE	1 1E4G/1H5G/1C5G/	3

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CIRCUITS	1 NE566/VN10KM/	2
W6NO	2 NE253/NE411/MRF555/2N3734/2N2222/	2
GEIN	1 NE555/4024/78L05/BD139/1N4001/	4
PROJECT	1 NE556/CD4077/CD4017/CD4013/2N3903/1N4148/1N914/	6
DEID	1 NE555/LM3900/BD675/BTW58/BD236/BC251/	7
DEID	2 REF101/OPA27/	2
PROJECT	1 NE555/SK3950/2N5060/	2
APPLICATIO	3 REF200/2N4340/	1
ARTICLES	2 NE356/74121/7486/7473/741/7408/D1/BC182/BC109/BFX37/BPX25/	9
ARTICLES	1 NE570/741/PA88/	7
BUILD THIS	1 NE5532N/74HC14/1N4148/	2
COMPUTER T	1 REF01/	1
	6 NE555/8085A/2114/74LS244/74LS374/2716/74LS138/3205/2N3440/	9
	1 NE555/CA083E/BC307/BC237/2N6254/1N4001/	8
	3 NE388/1N4148/	1
	4 NE5205/NE602/HEF4053/NE5534/HEF4066/7474/NE5514/HEF4060/	9
CIRCUITS	1 HEP230/	1
PROJECT	3 CEM3320/NE5523/LM324/MPF102/1N914/7815/7912/1N4001/	3
INSTRUMENT	2 NE555/AD7510/CD4012/CD4011/TL082/	4
FEATURES	5 NE5534/TL071/BD139/	9
DEID	1 XE2401/8051/	2
BUILD THIS	1 NE564/MC10116/MC7808/UA4136/MV2209/	5
	1 RE4515PM/	1
BUILD THIS	3 NE564/SBL1X/MC10231/V815/P5827/NEC02136/LM334/NEC5121/	9
ASK BYTE	4 NE555/LM1812/NE567/LM741/LM309H/2N2222/7404/1N5231/2N2907/	5
	2 NE555/SN7493/SN72741/MC1408L8/2N5002/2N5003/IRF610/1N5804/	8
CIID	2 NE5532/BC549/BS250/AA119/	2
APTE	1 ME60/	0
RFFETE	2 NE5212/MFOD1100/MFOE1201/MV209/	1
	1 TEA2025/LM324/CD4538/1N4001/7810/BC547/	6
	2 NE868196/AOP1510/IRE160FA/	2
APPLICATIO	2 NE5212/74F3037/10116/HFBR1402.4/HFBR2208/	2
NOTES	1 NE555JG/SN75452N/1N4002/	2
ARTICLES	1 NE5534/LH0002/	4
	2 NE555/2N4360/2N2222/276-116/	2
	1 NE555/	1
GEIN	1 NE565N/BC557B/BC547B/	4
	1 NEO2135/2SC2037/S1-2/	3
	1 NE521/SN74128/SN74123/UA733/	6
DESIGN ENT	1 NE5050/	1
APPARATUS	1 LF356/AD517/	6
DEID	2 VFC320/OPA27/	2
	1 LF351/	1
	2 LF353/LM7815/7915/IN4001/	3
	2 LF357N/OSD15-5T/4528B/4093/1N4005/BC109/	3
	1 LF356/ICM7555/NS-MM74C221/IN4149/NS-CD4066BM/	6
DEID	2 LF401/2N5484/HP5082-2810/NE02132/2N2222/	6
TENO	2 LF13741/LM741/5082-4204/	3
APID	4 LF356/2N3643/	3

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ORAR	1 LF347/	1
DEID	1 LF353N/NS405/	1
PROJECT	1 LF351/SK3466/SK3893/SK3274/2N2222/	5
TEME	4 BF245/BF194/AA118/1N60/	2
	2 LF356/AD515L/BPX94/	2
APPLICATIO	1 LF347N/IN914/	1
	1 LF411/LM300/LM218/LM124/	4
	2 MF10/HI774A/HI508L/HA5320/HA5033/	3
DESIGN FEA	1 LF356/	1
PAPERS	1 LF355/BPW34/	1
RATECO	1 BFG65/	1
	2 BFW11/	1
	1 LF353N/	3
ELSC	1 MF10/4049/	2
	4 MF10/XR2211/NE555/XR2206/MC1489/MC1488/2N3055/2N2222/7905/	9
EQME	1 BFY50/BC108/2N5574/N5500/133/65/	5
APTE	2 LF11508D/LM319D/SN74121N/SN7493N/SN7473/LM339/CD4066/2N2222A	7
TENO	1 MF10/74LS682/74LS393/74LS74/7404/	8
BUILD THIS	2 BFQ85/BFR90/1N4001/	2
	1 LF356H/LH0042/LM741CN/	3
OPIN	1 LF412A/SDC7931-010/	1
	1 BFR93A/	1
	1 LF351/	4
RFDEAW	3 BFR91A/PN3563/PN4258/BFQ23/BFT66/	4
	1 LF353/7805/2N2222/LM1458/1N914/	4
IDDE	1 LF347/	1
DEID	1 LF398/LMC13334/LF411/74HC74/74LS123/74HC08/	7
APID	1 LF356N/CA3280G/LM319N/4066BCN/N914/	4
DEID	1 LF347/AM3705/555/74LS93/	4
DEID	2 LF411/AD532/	2
NOTES	1 LF353/	1
PAPERS	2 LF356/7407/7406/H11F1/40410/40409/1N914/	9
DECA	1 LF398/555/74121/	6
SHPA	1 LF356/4016/	3
CIDEID	1 BFR91/1N4148/	1
	4 LF356/OAP37/LM311/MJE3439/2N3906/4302/SHC298AM/74LS123/1N456	9
PRFE	1 VFC101/	1
DESIGN ENT	3 VFC100/74LS191/HCPL2731/	4
	1 LF356/2N3904/2N3906/1N4733/	3
ORAR	1 LF356/PM156/OP16/	1
	1 LF355/RS165/IR3C01/LT020/LT024/	3
CIID	1 BF256B/BC549/BC559/C30920/	4
RFDENO	1 BF256L-B/BB105A/	1
APID	1 VFC110/LF355/	2
	1 UF413L1/TL071/LF357/LF398/DG211/LF356/74LS221/2SC372/	9
	1 AF100/AD506/AD741/1N702A/500PMA-S/	4
FACTCARD	9 LF356/LF355/LM311/LM310/LM301A/LM139/LM102/LM101A/LH0024/	4
DEID	1 MF10/	1
CODAPR	2 LF356/LM339/LM293/LS379/150/LS74/LS161/LS123/LS32/LS27/LS126	9

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BUILD THIS	1 BF199/BC183C/	2
DENO	1 VFC42/MM5402/2N2222/	3
TECHNOLOG`	2 LF412/TL072/74C14/	1
	1 BFW11/	1
	1 LF398/072/741/HI201/4013/1N4148/	9
	3 LF356/OP07/U406/CR200/FD333/DG301/	5
	1 LF353/BD537/BC212/1N4148/NSL385/7815/1N4003/7915/	5
DEID	2 VFC100/OPA606/	2
NEW IDEAS	1 LF13741/	1
DENO	1 VFC42/CD40103/CD4017/	5
REPA	2 LF356/CM860/	3
INCO	1 LF356/	1
	1 LF351/LM317T/BF246/BPW14B/	9
FACTCARD	9 LF357/LF353/LM307/LF147/LM110/	2
FEATURES	4 LF13741/TL081/LM311/7912/7812/2N2222/1N4001/1N914/	5
PAPERS	1 LF356/OP177/KSS110GRP/C640PH75/	7
APPARATUS	1 LF13741/741/311/914/	3
CIRCUIT ID	1 LF356/LM3915/OP07/BC107/	7
	6 LF347/BC107/4016BE/LF351/BD136/BC177/1N4148/	9
CIID	1 BFX305/2S305/	3
AMSC	2 DFA3000/TLC271CP/	1
MENUSP	1 SFC4121E/2N2905/2N1711/ESM140/	8
	2 WG8038/CD4001/VN66AF/CD4066/AD521K/48K/AD584TH/CD4050/1N914/	9
SOLUTIONS	2 DG569/SI7135/DG566/DG568/2N7004/	3
APDENO	1 DG303A/741/411/	3
	1 DG884/IN4148/	1
	4 DG884DN/SI582/SI581/IN4148/	3
LETTERS	1 DG308/	1
CIID	1 UGN3501M/555/741/BC182/	4
ENNO	1 DG507/CA3140/555/74191/1N750/	4
PRIN	2 PGA203/PGA202/OPA602/OP07/	3
DEID	1 DG413/1N4148/	1
DEID	1 DG243/	1
DEAP	1 VG803/VG502/VG501/80C186/	3
CIID	1 SG1526/LS121/LS74/	3
APPLICATIO	1 MG8N6ES1/TLP559/2SC2710/2SC2458/2SA1150/O4AZ22/	7
APID	1 SG2524/LM324/	2
TEUP	2 CGY40/NEPA1001/	3
	2 GG74LS73KO/QM4077BP5/QM74LS367P5/QM74ALS32P5/QM74LS08P5/	5
ARTICLES	8 SGS298/SGS297/SL490/SL480/LM393/4073/4071/4070/4013/4007/	5
DESIGN	1 SG1547/	1
IDEAS FOR	1 DG201/741/P503/	3
PRTRHOME	3 SGD100A/	1
DEID	1 DG508A/MAX270/74HC163/	3
SYAR	1 FGA002/68882/68020/68562/	4
	1 MGF1801/	1
PAPERS	2 BG305/	1
TEBR	1 SG3549/IN758/	1
DEID	1 DG403/MTP2P50/	2

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ENGINEER'S	2 LH0042/74123/7413/7404/2N2222/7408/1N914/7474/	6
PAPERS	4 LH0033C/DM7800/AM1000/LH0002C/74164/74121/7474/2N2219/1N914/	8
RECH	1 LH2400/	1
PRODUCTS	2 LH0082/MC10116/2N369/MFOD2405/	4
SUPA	3 AH0014CD/LM301A/74121/IN5231/	3
TENO	1 LH0052/776/	6
COMMUNICA	1 SHM-LM2/710/442J/74121/7474/555/	6
BRCO	1 EH8B1/H0053/CD4052/309-458/	3
NETE	1 LH0082/	1
	2 SHM-LM2/74LS74/74LS174/74LS193/74LS192/74LS00/74LS08/	9
DEID	1 LH0002/	1
	2 LH0032/LH0033/	2
NUSCPLLELDI	1 SHM20/LF356/	6
FOREGROUN	1 LH0021C/LM301/741C/LM306/LM311/	5
TEUP	2 SHM7/ADC815/74S299/AD389/	3
DEID	1 LH0032/LF156/LM161/HA2425/9600/LH0002/74LS00/1N4150/	9
	3 AH5011/AH5020CJ/LF411CN/2SB737/MPSA56/2SK216/2SK147/NPD5565/	9
	1 LH0052H/NE536T/1N457/	2
TENO	1 LH0022/458/741/301/2N3702/2N3704/1N935/1N747A/1N914/	7
NOTES	1 LH0024/LH0002/74LS08/HP10154/	4
AIANCH	2 LH0042C/74193/74123/74121/7474/7414/7408/7406/	9
ORRE	1 LH0022/	1
	2 LH0042/LM311/SN7401/BC478/BC144/BC107/	4
	1 LH0002/741/	2
DESIGN ENT	3 HI774A/HA5330/HI506/HI516/74LS93/74LS123/74LS174/74LS04/	5
PRIN	1 HI7159/	1
DEID	1 TIL138/	2
	1 TIL116/LS244/	2
	2 TIL117/MOC3010/7400/SB141B/	3
FEATURES	1 TIP110/1N4001/	1
DEGU	3 HI508A/OPA2107/PGA102B/DAC811/OPA27/INA110/MC1403A/	4
APPLICATIO	1 PIH2001/21DQ03/	1
CIRCUITS	1 TIP120/1N4001/	1
FEAR	2 TIC226B/74175/2N4401/TIC226B/MOC3010/MOC3030/	6
	3 TILIII/7404/4050/555/	1
ENHANCING	2 PIC16C57XT-P/MC1489A/DLO7135/	9
	1 TIP115/	1
	1 TIP120/TIP42/1N4748A/1N4004/	2
GEIN	1 TIL111/7812/BC547B/1N4148/1N4001/	3
	1 TIL138/	0
APNO	2 TIP120/BC238/BQ100/	2
NOTES	1 TIED56/	0
BACKGROUN	1 TIL111/7404/2N2222/TIL211/TIL209A/	5
PROJECT	3 TIP32/TIP31/BC108/BFX88/BFY51/1N4001/	2
IDDE	1 HIIAA4/2N6427/	2
IDDE	1 DIG12-08-045/MTP10N25/MPSA55/MPSA44/1N914/	7
ASK BYTE	1 TIL111/2N2222/1N4002/	4
DEID	1 TIL113/CD40106/	3
COAUMECO	3 CIT1148/CD4067/CD4066/CD4052/NE9085-1/SN7404/	4

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FIFU	1 TIL116/	1
ARTICLES	2 VIA6522/ADC0808/DAC0801/74LS373/74LS123/4N25/BC238/BU208/ 1 TIL111/BC179/2N2222/	9 3
ELSC	2 TIP30/1N4004/2N2222/1N914/	1
APPLICATIO	1 DIG12-08-045/MTP10N25/MPSA55/MPSA44/1N914/ 1 TIL81/LM307/1N4732/7404/TIL31/ 1 TIL111/RS276-132/	7 2 1
HARDWARE	2 TIL111/4N26/276-1067/ 1 TIL111/7404/ 2 TIL111/ 1 TIP41/2N3055/	1 2 1 2
CIID	1 TIP121/TIP126/BC182/TL084/1N4001/	7
DEID	1 HI506/LM311/ 4 MJE521/GE14/MCT2/2N3668/HEPS7000S/7410/MHT8901/CA3059/ 1 MJ4034/	3 5 2
ASK BYTE	1 MJ2955/7824/ 1 NJM4558/MC4066/74HC04/2SA1015/1S1588/RD5A/	3 6
NOTES	2 MJE350/MOC31/IN4007/IN4004/	1
LETTERS	1 MJE340/TIP50/	2
AUCO	1 NJM20435/ 1 MJE800/1N4001/	1 2
CIRCUITS	1 MJE340/	1
RTTY LOOP	1 MJE3055/2N2222/IN4003/ 1 MJ15003/MJ15004/MJE253/MJE243/2N5680/2N5682/MPS312/MPS352/	2 9
SPECIAL SE	3 MJE340/1N4007/2N2222/2N3904/ 1 MK45H64/74F158/74F00/ 1 MK68564/MK68901/74LS174/	1 4 3
NUEL	1 SKTE16-16/7500-3300-0.4/	3
TEDASP	2 MK5375/2N5550/2N5401/2N6660/1N914/1N746/2N2222/	9
BACKGROUN	4 MK50240P/74197/74154/74150/741/74L75/74L30/CD4010/74L04/7401 1 SK3111/ 3 MK4501/74LS244/74LS245/74LS232/74LS132/74LS32/74LS125/	9 1 7
EXWO	1 TK10487MB/TC4S66F/DTC114TU/2SC4081/2SC3770/FMG2/GFUM455E/	9
LEED	1 BK472/ 1 SK3638/GE246/1N4002/1N4005/	1 1
CIRCUITS	1 SK3688/LM3900/SK4049/	2
ACBEHATA	1 SKTE40-16/SKEA2.5-13/	3
INTERNATIO	1 SL9999/	1
PRIN	1 EL2020/EL2008/	2
IDDE	1 TL084/1N4148/ 1 SL1550C/2N5109/5082-4207/	1 3
APPLICATIO	2 SL6639/BFR92A/BFS17/2N3904/	3
APPLICATIO	1 EL2090C/	1
DEID	1 TL172/LM324/	2
BENCH	1 PLIX10/8052/	2
APPLICATIO	1 SL6140/	1
APNO	5 TL7705/TMS9940/TL7712/TL7715/TMS1000/UA7805/2N3993/2N2222/ 1 TL081/1N4001/ 1 TL072/	3 3 4

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APSU	1 VL6845/VT23168/74165/7493/	4
TENO	1 TL082/LF398H/MC14093BCP/2N3904/1N458A/1N914/	9
CIID	1 TL074/TL072/	2
	4 TL082/TL081/LM310N/LM361N/74LS221/TL601/LF357/VP0106N5/BS250	9
DEIN	2 ALD1502/ALD1704/ALD4302/	7
	2 TL074/TL072/7915/7815/	2
	1 MLM324P/1N914/	1
CIID	1 TL074/TL071/2N7000/1N4148/	4
COFE	2 EL2082/EL2030/	2
CHAOS	1 TL081/1N4148/	0
DEID	1 EL2424/	1
ARTICLES	1 TL072/LM311/LM6321/	2
	1 TL507C/	1
DEID	1 TL081/4052/4020/4013/4011/4009/	9
CIID	1 TL074/	1
CIID	1 TL064/	1
AUDIO	5 TL071/LM318/LM194/LM394/2N4058/ZTX750/ZTX650/BC384/BC214/	6
	1 TL081/GA45P2/	1
	2 TL084ACN/74LS74A/ICM72171J/74LS160/LN576RA/74LS32/74LS16/	9
DEID	1 TL497A/4040/7406/	3
AIANCH	1 TL081CP/	1
SPCO	1 TL08CP/BD677/	3
PAPERS	1 TL852/74121/7474/	3
AUHIFI	1 TL064/TL074/TL084/BC550/1N4148/	2
APPLICATIO	2 SL6653/TAB1043/J310/	2
TEME	1 TLC272/BC517/1N4148/	2
HINTS AND	2 TL091/741/276-1745/	1
FEAR	2 TL092/LM386/AD7574/AD558/7416/6522/7408/1N914/	4
IDDE	1 SL560/SP92701/	2
EDSPRE	6 EL2082/EL2030/LT1091A/LT1025A/AD834/AD811/AD633/MPY634/AD538	5
	2 ULN2232A/2N4921/1N3825/1N4001/	9
PROJECT	2 TL064/CA3240E/4016B/4011B/78L012/79L05/BC184L/2N3904/W005/	4
FEATURES	2 TL072P/J310/	3
	1 TL084C/	3
	1 TL061/BF297/CNY17/	4
DEID	1 TL7705A/1N4148/	1
	1 TL061/HEP50011/1N914/	2
	1 TLC548/LM317/7805/	3
	1 TLC27L4BCD/	1
	4 ALS244/LS125/ALS11/ALS08/HCU04/ALS04/ALS02/	3
EVAU	1 TL071/	1
DEID	1 IL300/LM324/4538BCN/	3
	1 TL081/LF356/TCA365/L165/	4
	4 EL2006/ELH0032/4192A/	1
APID	1 TL431/IN4454/IN5711/	2
	6 ELH0032/EL2006/	1
AIANCH	1 TL084/MC1594L/H23B1/LM338/ECG384/ECG283/TL081/ECG770/KBPC102	9
COMMUNICA	1 TL084/2N2646/BC108/BD135/BC109/	5
	2 TL084C/LM339/276-1712/CD4047/7808/2N2222/1N914/1N4002/	5

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DOSPRAMEA	1 RL721/S1790-02/	1
PAPERS	2 TL082/TL062/1N914/	5
	1 ML741C/	3
TECHNOLOG`	1 IL83-0003/	1
	1 EL2020/74HCT541/74128/74HCT00/PCAEP434/	6
CITHDE	2 TL074/	1
CCT IDEAS	1 9LS170/4702/9LS138/9LS164/	5
	5 TL082/TL072/LM311/4538/4053/7815/7915/7808/7908/BC327/79L15/	4
DEID	1 ML2035/74HC4060/74HC165/	3
	1 RL512G-10/CA10/BF246B/	5
NOTES	1 TL081/78L05/74121/7492/BC182/74LS86/	7
APSU	1 TL7705/	1
CIID	1 TL071/BC182/BC212/	3
APID	1 TL084/	1
DEID	1 TL7705/4007/2N2222/2N2907A/1N4448/	4
NEAPTE	2 ALS74/'ALS240/'ALS10/'S86/'ALS1616/PL20R8/'AS890/'AS897/	4
RFCO	1 ULN3845/	1
TEAD	1 TL-SCS1285/1N5817/	2
ARTICLES	1 TLC555/2SK246/ZTX614/2N5551/2N5401/2N3904/MJE803/ECG46/P505/	9
SPCO	2 TL074/CA3140/CD4071/CD4000/2N3904/	7
	2 TL071/NE5532/ICL8211/	2
DEID	1 TL7705A/MPS2907/MPS2222/1N4448/	3
DEID	1 TL431/	1
DEAP	3 EL2020/EL2003N/EL2015/1N914/1N5229B/	3
	1 TL081/TL082/LM311/DP352/S1336-5BK/	5
IDDE	1 TL084/1N4148/	1
APPLICATIO	3 SL6700C/BC337/	5
CIID	1 TL783C/LM317/74C74/2N2369/2N907/BZT03C/AD589/1N4007/1N4005/	6
CIID	1 TL072/NE5532/	1
	2 TL072A/SD5000N/CA3102E/1N914/S215DE/MPS3640/J510/	6
PAPERS	1 NL1039/	0
LEED	1 TLC27L2/4052/	2
	1 TL064/	3
	1 TL084C/2N4360/P1087/LN324/LN2901/	9
	3 TL071/	1
	1 TL084/555/MOC3030/4066/74LS74/7400/2N3819/SC141B/	9
REPA	1 TL430/2N3055/BD829/AD590/1N4007/1N914/	5
IDDE	1 TL7702A/LM358N/2N2222/1N4148/	5
	3 TL084/LM351/LH0070/2N2222/1N914/	5
	1 TL084/4146/4161/4070/4069/4046/4066/4015/4013/	9
DEID	1 EL2028/2N5911/EN2016/	3
DENO	2 TL082CP/TIP42A/BC212L/BC182L/BZX88C5VL/1N4002/1N914/	5
DEID	1 TLC372/TLC272/MRD300/IN4148/	2
RFDEAW	1 CLC400/SD5000/	2
ARTICLES	2 EL2020/MAN1LN/7812/	3
	1 TL082/VM08/7812/MOC3010/CD4047/CD4013/2N2222/1N4735/	7
DEID	1 TL054CN/'HC4053/'HC4015/'HC02/	4
PCEN	3 TL051/LT1037/HA5137/	1
	3 TL084/CA3065/7812/7912/	1

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AUDIO AIDS	1 TL084/7815UA/LF351/1N4002/ 1 TL064/	3 1
ENGINEER'S	1 TL064/2N5953/FPT130B/1N914/ 4 TL064/IH6108M/HAS064/MC14013B/MC14504B/ADC1210/74HC374/	3 6
PAPERS	1 TLC251CP/ 1 MM5369/7812/7805/1N4000/2N2222/	2 3
CIRCUITS	4 LM1800/LM1889/MC1330/MC1350/2N3638A/2N3565/1N5447/741/1N270/	5
DEID	1 LM11CLN/LM3362-5.0/	1
DEID	1 LM324/LM317K/LM317LZ/2N4124/1N4003/	4
FEATURES	2 LM723/LM380/J4-596/LM7805/78L05/MPSA12/TIP42/1N4001/276-036/	6
IDDE	1 LM324/2N2222/	2
IDDE	1 MM5369/2N4401/74LS14/8085/Z80/1N914/ 3 LM741/LM3900/LM386/	3 1
CIID	1 LM3914/4066/4011B/BC328/ 1 LM324/7400/7492/7493/1N914/	5 4
DESIGN ENT	1 AM8088/AM8284A/AM29845/AM9519A/AM79C12/AMZ8530/ 3 LM324/2N2907/2N2222/MV2111/ 1 LM747A/SN76502/1N4148/1N752A/HEPZ0212/	6 6 6
IDEAS FOR	2 LM339/1N4001/1N4148/2N4401/ 1 AM29821/AM74S251/AM29827/AM2910/74S251/ 2 LM311/LF356/4046/1N914/ 1 LM317/	2 5 3 1
MEMORY SYS	1 DM8599/ALS74/LS74/LS10/LS11/LS32/S160/S260/2N3546/2N3646/	9
DEID	1 HM6167LP/74F374/20L10/74F74/ 3 TMS32010/S04/02/74LS138/74LS244/74LS74/74LS138/	7 9
DEID	1 LM1812/D45C6/2N2222/	3
DEID	1 LM317HVK/LM337HVK/LM358/TIP122/TIP127/MA4K5/	5
DEID	1 LM334/LM301A/2N3906/LM371/LM350/LM338/1N4001/	4
DEID	1 LM398/LM311/4013/SD222/VN0106/	5
APPLICATIO	1 LM324/D7002C/9491BJ/ 1 LM3914/555/LM324/ 1 LM348/ 1 LM3046/	2 3 1 2
INCO	1 LM124/	1
RFDEAW	1 LM733CN/LM565CN/	2
PAPERS	1 LM13741/	1
PRIN	1 TMS34020/VDO1024/SDP1024/ADR1024/	3
PROJECT	2 LM723/2N3055/2N3771/TIP31A/1N5401/	3
NOEX	1 LM324/78L05/BZY5V6/	2
CRDIPHREAR	1 LM747CN/	1
ENNO	1 LM741/1N4148/	3
DEID	1 LM1881/LM139/LM124/4538/4013/	6
APPLICATIO	1 CMP100/	1
TENO	2 AM3705/CA3100/710/1N1509/1N1507/1N3828A/	3
APPLICATIO	1 LMD18400/LM2940T10V/LM2940T8V/LM2940T5V/LM2926/HC126/	6
POSYRECO	3 TMS320E15/HI574AKD/HI508/LF398/LM324AN/I8212/74LS245/74LS175	8
TEME	1 SMT160-30-18/	1
DEID	1 LM2902/1N914/	1
DEID	1 LM2902/1N914/	1

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Q&A	1 LM567/	1
	1 LM386/2N2222A/LM340-5/LM555/1N4001/1N914/	5
ICSE	1 TML1842/	1
TEUP	1 AM79C81/AM79C82/AM79C83/AM7984/AM7985/	5
DEBR	5 LM6181/LM709A/CD74AC00/	1
	1 HM7641/LS374/74LS42/	9
	3 PMM8713/4N33/TIP122/8T28/8255/4516/7485/555/8T98/74121/7414/	9
	1 LM317T/	2
	1 LM319/U LN2003A/RS306-061/	3
	2 MM58167/7430/7402/7404/LM555/MC1555/	4
APTE	1 LM310/TIL139/	2
DECA	2 MM5314/14520/74C04/1N4001/	3
CITEAN	1 LM13700N/	2
COAR	1 LM324/BC328/ECC159/1N914/1N4148/	3
FEATURE	1 LM4250/MPSA14/BC559/1N914/	4
	3 TMS9995/TMS9901-95/99541/SN74LS373/SN74LS682/SN74LS138/	7
IDEAS FOR	1 LM1458/FPT100A/	2
DEID	1 LM1881/2N2993/LM359/BC107/	3
BUILD THIS	3 LM1889/CA339/741/7812/2N3904/2N2219A/MPSA05/1N914/1N751A/	3
APSU	2 LM1881/MM74C193N/CD4066BC/MM74C00/	5
ICSE	1 RM5636A/RM5637A/	1
	6 LM337/NJM4560S/BA4561S/LA3170/PCM53JP-V/MC34081/CD74HC4053/	9
IDDE	2 LM317/	1
TEBR	1 LM324/7476/CD4016/74LS14/	6
TEBR	1 LM339/7250/74LS175/IRF9530/IRF540/	8
ASK R-E	1 LM1881/	1
IDDE	1 LM317/MCT2E/	2
	1 LM1496/CA3193/	2
ASK R-E	2 LM3915/LM3900/2N2222/	2
IDDE	1 LM3909/	1
ARTICLES	1 LM733CH/2N5434/	5
GLAT	1 LM555/CD4027B/CD4555B/IRF511/276-041/276-2072/	7
SPECIAL ED	1 AM427/	3
NEW IDEAS	1 LM1458/2N2222/1N4004/	2
DESIGNER'S	1 LM311/LM556/MOC3011/SC142D/LM340T12/1N4001/GB32P8/	5
	1 LM308/	2
CIID	1 LM2917N8/BD139/1N4007/	2
DESIGN ENG	2 TMS6011/74164/7410/1488/7493/74123/7400/7404/7408/2N2222/	9
	2 LM311N/1N914/2SK147/2N3904/2N3906/	7
	1 LM3914N/1N2009/1N90/1N2069/276-026/276-1707/	1
NEW IDEAS	1 MM5369/4024/4012/4011/	4
HANO	1 LM741/2N4125/	2
	4 LM12/	1
	1 MM74C925N/LM555/MPS3704/	3
	3 TMS99532A/TMS99542/TMS99531/TMS7041/TL084/75188/74LS257A/	9
	5 TMS9128/TMS9995/LM1889/LM318/CD4066B/LM361/74S74/74LS138/	5
DEID	1 LM383/LM320/1N4001/	2
TEUP	1 LM124/	1
	1 LM555/1N4004/	1

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	2 LM158/242PC250G/LM124/1N645/	3
DEID	2 LM363H10/LM324/UA759U1C/ZNREF100/ZNREF050/ZN423T/UUA41J26M/	4
APID	2 LM324/4066B/7805/BC548/	6
PRINDE	2 LM347/2N2222/	1
	1 LM741/LM740/	3
	1 LM118/	1
NOTES	3 LM324N/4013/74LS32/74LS08/	4
PROJECT	1 LM339N/TGS822/LM7805CT/1N4148/	3
DENO	1 LM311/4013/BC108/	4
TEAR	1 LM386/	1
TECHNOLOG`	3 LM331/LM35/LM34/AD590/AD592/LM385/	2
TECHNOLOG`	2 LM358/LM335/LM307/MPSA13/YSI44004/	3
FEATURES	2 MM5369/7492/7490/2N5770/2N2222/1N914/	6
	1 AM9511A/71438/74133/	3
CCT SUPPLE	1 LM324/741/BC182/BC212/1N4148/	0
PHHA	1 LM339/2N2907/RFP12P08/RFP12N08/1N914/	4
NEW PRODU	1 LM2925/	1
ANALOG CIR	1 LM2935/	1
APID	1 LM317HV/555/100P/2N1596/3A10/	4
DEID	1 LM317AH/7406/	2
	4 AM7910/AM7911/LM358/NE555/2N3905/2N2222/7905/7805/1N914/	5
	1 LM317HVK/2SC372/2SD685/	4
	3 EMI9816/MC4069/6N136/MTP2P50/MTP2N50/2N3251/2N2219A/	4
DEID	1 LM337/	1
	2 LM311/74390/74247/74192/74121/74107/SN75189/7400/4049/4047/	9
BENCH	1 LM1458/U LN3751Z/TIL413/1N4001/	2
CIID	1 LM301A/LM350K/LM7915T/LM7815T/LM385Z2.5/1N4148/	4
FEATURE	5 TMS32010/74LS688/74LS374/74LS258/74LS245/74LS244/2147H3/	9
DECA	2 LM317H/NSD134/LM329B/1N4733/1N4001/	3
DECA	1 AM9513/74LS161/74LS74/74LS00/74LS04/	6
APID	1 LM2917N/74LS73/2N6052/2N860A/BC107/1N4001/	5
LETTER BOX	1 MM5369/	1
	1 LM311/LM556/7400/	3
CIID	1 LM339/	1
GLAT	2 MM5369/7474/75451/555/7805/2N3055/	6
DESIGN ENT	3 LM385-1.2/LM34A/ADC0854/LM358/LM556/LF398/ADC0852/MM74C02/	8
	1 LM3900/556/2N3904/2N3643/1N4002/1N4148/	6
PROJECT	2 LM1894/LM3915/	1
MICROPROCE	2 MM5369/2N2222/RED3000-3600/	2
	1 LM324N/LM1830/LM329/2N2222/1N914/	9
	2 LM324/7413/HEDS1000/74LS04/74LS154/74LS125/	3
	2 LM324/LM3914/LM335/LM336/	4
BUILD THIS	1 LM386/50240/4013/4001/1N914/1N4148/	9
	1 LM358/6401/MPS6562/2N3646/1N4001/1N4148/	6
PRSP	1 LM311/	1
DEID	1 LM324/	1
DEID	1 LM319N/CD4013/CD4011/2N2222A/2N2907A/	5
DEID	1 LM311/	1
REPA	1 LM324/4N38A/1N4148/	2

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	2 LM1458/2N2222/1N4001/	2
SHCO	1 LM339/TIP32/	3
APSU	1 LMF90/	1
CRDIPHREAR	2 DM7400/2N2646/74121/	3
COAR	1 LM324/LM7805/2N2222A/1N4004/	4
IDDE	1 LM3900/H11A/2N2222/	3
IDDE	1 LM7908CT/LM7808CT/1N4754A/1N4002/	2
COAR	1 LM567/2N3906/2N3904/	4
THINK TANK	4 LM361/LM6361/555/2N2222/1N914/	3
COAR	1 LM3911/	1
DEID	1 LM556/2N3906/2N3904/74LS14/	4
COAR	3 LM337/LM317/1N4001/	1
COAR	1 LM567/LM556/LM358/LM1458/CD4011B/CD4001B/LM7805T/2N2222/	8
FEATURES	1 LM1458/276-038/1N34/276-1123/	1
COAR	1 LM556CN/2N3905/2N3903/TIP31/276-2017/1N4001/	4
	1 LM3900/1N4001/2N2222/NE555/276-1713/276-1723/276-041/	3
INPOCOSYDE	2 LM311TC/TIP32C/2N4403/1N4735A/N260/C635/Z33M102/Z660EH4/	7
BENCH	2 LM311/EE-SY101/EE-SY148/74HC14/TIL220/	4
	1 LM324/1N60/1N914/	1
CICI	3 LM324/2N3055/2N4360/2N2222/2N2102/2N3904/1N914/2N3725/1N4738	4
DEID	1 LM317/TL431/	2
DEID	1 LMC13334/CD4022/MF4-50/CD4069UB/	3
TEDASP	1 AM7991A/AM7990/555/	3
DEID	1 LM555/LM108A/	2
ARTICLES	1 LM318/LM311/LM307/LM301/4049BE/4001BE/2N3565/E111/IN914/	9
EXEMOTTE	2 AM490-2/339/4528/4026/4007/79M12/78M12/4050/1N5400/	7
	1 LM556C/4066B/4013B/4011B/L506/4049B/1N4148/	5
FEAR	2 LM307/4047/2N3904/YSI44006/LM385/	2
IDDE	1 LM348/	1
FEATURES	1 LM3914/74LS04/7805/2N3904/1N4148/	5
ARTICLE	2 PM-TR1001/MC145152P2/MC12022/TL064/	4
INDUSTRIAL	7 LM3914/LM34/4N2B/LM131/ADC0831/ADC0804/LM385/LM358/DM4101/	3
	1 LM565CN/LM741CN/MPSA13/2N2222/1N914/	4
ANALOG CIR	1 TML1073/	1
IDEAS FOR	1 IM6402/1488/1489/4077/4024/7555/	6
	1 LM555N/2N2222/1N914/LM353N/PTC205/	3
CIRCUITS	1 LM324/4066/	2
IDEAS FOR	1 LM318/LM310/	2
TENO	3 LM339N/TL082/LF398H/NSB7881/ICM7217AIP/ICM14584/MC14075/	9
TEUP	1 LMC669/MF6/	2
DEID	1 LM317T/	1
APID	1 LM10/AD590/	1
FRCO	2 LM324/	1
DEID	1 LM311/	1
IDDE	1 LMC555CN/TLC555CP/	1
APTE	2 LM725/TIL209A/UA78G1C/B40C1500-1000/1N4148/	4
BUILD THIS	1 LM339/LM741/2N2222/TIL414/SEP8703-1/	5
	2 LM555/LM3914/LM317/1N4001/1N4004/RS276-036/276-1707/276-081/	3
	1 LM309K/276-1067/TLR107/276-033/1N4735/276-561/1N4742/276-563	2

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	1 LM101/BPX65/	1
DEID	1 LM1881/74LS161/74LS138/2N3904/	4
	1 LM301/LM555/	2
TEBR	1 LM331/LM393/LM324/ICM7217A/HDSP5503/MC1489/2N3906/1N914/	9
PRIN	1 TMS320C30/DSP202/DSP102/	3
IDDE	1 LM331/LF398/LF351/	3
DECA	1 LM10/MTS102/	2
IDDE	2 AM687/AM685/MC10104/MC10102/	4
SPCO	1 LM555/LM7555/	1
PAPERS	2 LM324/741/LM35CZ/LM336Z/MJE1000/MJE900/1N914/	3
FEAR	3 LM741/LF351/LM310/LH0052/LM7805/	3
CICICE	4 LM2904/LT1052/LT1025/LM34/LM7805/	2
DEAP	3 LM2419/2N5109/2N3725/MRF544/	2
DEBR	5 LM710/LM392/LM311/EL2018/EL2019/TL082/74LS138/BC184/1N4148/	3
NOEX	3 LM741/LM310/	3
DESIGN SOL	1 LM2931Z5/	1
HOBBY CORN	1 MM5369/	1
NEPR	1 LM1881/	1
	2 HMC6207/80C88/80C86/68000/82C82/HM65261.5/82C86/74HC04/	9
DEID	1 AMP01/	1
	2 SMC9026/SMC9032/EGA059101A/MFM1115-20M/74HCT166/65C02/	5
DEID	1 PM7524/OP90/2N4403/	3
DEID	1 LM339/MC14490VP/SN7404/	5
ASK R-E	2 LM3909/	1
PRSP	1 LM101/LM201/LM301/	1
	1 LM747/	1
	1 LM3914/	1
	5 LM1800/565/NE561B/NE564/NE563/2N2222/	2
IDDE	1 LM139/1N914/	1
DEID	1 LM3900/TIP31/2N3904/1N4001/	3
CIID	1 UM1233/	1
IDDE	1 LM311/CD4013/2N2222/	5
CIID	1 LM741/CNY17/1N914/	3
IDDE	1 LM301A/LM324/2N3906/2N3904/1N914/	8
REPA	2 LM301A/OP90/LM317/MTH50N05E/2N3906/	3
COMMUNICA	1 LM311/7473/	3
IDDE	2 LM324/LM79L12/LM78L12/1N4002/	2
DEID	1 LM324/2N2907/2N2222/1N4148/	3
READER FEE	1 LM319/1N914/	1
SYSTEM DES	3 DM7416/7401/2N5130/1N914/	2
HINTS AND	2 LM348/MC4741/1N4148/2N4400/2N5485/	4
	1 LM324/2N3909/2N3904/MJE3055/2N3906/1N914/1N4001/1N4002/	8
	1 LM339/LM340T8/2N3906/1N914/	8
APID	2 MM58174/CD4069/	1
CIID	1 TMS6011/74S157/74S74/	3
	1 LM311/LPM210/178/2N2405/11N4003/	4
	4 LM741/LM10CLN/LM331/LM394/2N3904/2N3906/2N2219/2N3055/2N5486	4
REPA	1 LM318N/	3
PROJECT	1 LM556/	2

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	1 LM741/1N914/	5
	1 LM324/MOC3030/LM11C/LM35/	4
	2 LM607/LM3524D/LM123/2N2210/BD345/MR850/1N914/	3
CIID	1 LM158/74LS04/	2
THINK TANK	6 LM3080/LF351/LM311/4011/2N3904/2N2222/1N4148/1N4007/	3
ENNO	2 LM338/LM337/DM7475/	2
DEID	1 LM393/IRFZ40/	2
APID	2 LM386/SP0256AL2/BC184/	2
	2 AM2951/AM2952/AM2953/16R6/2149/2169/AM2950/16R4/74LS273/	9
APID	1 MM6055/74151/74192/74123/8102-2/7474/2N918/7407/7404/32/7400	9
	2 LM324/5089/LM311/CD4066/SSI202/74LS374/74240/74LS123/74LS139	7
BUILD THIS	1 LM1458/LF353N/LM3900/2N3906/1N4001/	3
QRP	2 LM7809/1N914/	1
ENNO	1 AM2910/AM2914/AM27S29/AM27S59/AM29775/AM25LS244/	6
APPLICATIO	2 LM324/74HC245/LM336-2.5/1N5817/1N4001/	2
DEID	1 LM13600/2N3904/	2
IDDE	1 LM311/BC139/BC138/	3
FACTCARD	9 LM108/LM107/LM102/LM101A/LM103/1N457/	4
FEATURES	1 LM337T/595-SG337AP/LM317T/595-SG317P/1N5402/1N4001/RS276-041	6
IDEAS FOR	1 DMF2A250A/26LS31/	2
	1 LM313/LF398/LF411/1N914/LF13333/	4
	1 LM348/LH0041/2N2907/2N2222/AD534KD/LM7815CT/LM7915CT/1N4004/	7
APID	1 LM111/74LS121/7406/DAC-HP16DGC/	3
SOFTWARE N	1 TMS2516/TID32/CD4051B/CD4098B/	3
DEID	1 LM2931/2N4126/2N4124/1N914/1N4002/	4
DEID	1 AM2812A/74LS629/74LS74/74LS393/74LS123/74LS04/	6
STSOST	3 LM3914/HDSP4820/HDSP4830/HDSP4840/	2
	1 LM13700/	1
	1 LM308/	3
	3 LM396/HM3-6562-9/MK5086/CD4528/CD4072/74C93/CD4023B/74C14/	9
	2 LM318/RC4559/AMS2006/1N4004/	5
DEID	1 LM358/MJE220/2N2222/	3
APID	1 LM10CL/1N4148/1N4003/	1
DEID	1 LM331/LF347/1N914/	2
	1 LM339N/2N2270/2N4400/2N2905A/2N4402/1N4002/1N914/	3
DEID	1 LM308/2N2222/2N2907/1N4148/	7
DEID	1 TMS32010/27128/74LS138/74LS244/74LS32/	6
NOTES	1 LM308/	4
BUILD THIS	3 LM358/7555/LM567/78L05/MPSH11/VT835/BS170/2N4403/VT1314/	7
FEATURE	9 LM3900/2N3904/	1
SHCO	1 LM387/276-1737/LM386/276-1731/LM317H/270-090/	4
FEATURES	2 LM317T/276-2043/	1
	1 LM3914N/LL7164-11/J36,644/	4
IDDE	1 LM3914/	1
APID	1 LM311/TL071/74121/14016/4148/	4
POSUBACH	1 LM317/BC547/	2
	1 TMS4500A/68000/74LS74/LS32/LS08/	5
DESIGN ENT	1 AM29PL141/AM29334/AM28325/	3
ENGINEER'S	1 LM555H/NE555V/	1

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CIID	1 LM324/LM311/4027/4066/4046/	5
	1 LM331AN/LM308A/	2
	2 LM556C/74LS273/74LS30/CD4028/TIL305/MCM6674/74C161/CD40106/	9
PROJECT	1 LM556/3904/	3
	1 AM29PL141/74LS14/74AS240/AM29828/74S38/	4
	3 AM6112/AM6420/8085/AM9517/AM8089/AM420/AM6082/	4
	9 LM311/LT107/319/LT1001/LT1005/LM301/2N4392/2N6387/MV1405/	5
FEATURE	2 TMS7042/TMS34010/75188/75189/74ALS245/74AS573/4464/PAL20L8A/	4
PROJECT	4 LM332/LM393/2N4403/LM334Z/1N4148/KC018N-ND/	3
FEATURES	2 TMS3477/TMS4C1024/LM386/LM358/	3
	2 UMA1000/NE5751/SA5751/NE5750/NE5214/NE5217/NE5211/NE5210/	3
TEBR	1 LM368/74C86/74LS74/74LS14/	4
AMSC	2 MM74C925N/75492/276-1702/74C74/74C08/74C04/276-041/DL34M/	6
IDDE	1 LM393/1N914/	1
ARTICLES	1 LM393/CD4584/2N3904/1N4001/	4
COAR	1 LM339/MPS2907/TIL414/SEP8703-1/1N914/1N4001/	4
SPECIAL RE	2 AM29334/AM29325/AM29332/AM29323/74AS8832/74AS8833/74AS8836/	5
	1 LM311/LM339/	1
TECHNOLOG`	2 AM8088/AM9519/AM79C12/SC11007/SC11004/4N25/LM386/ZNR241KU/	4
IDEAS FOR	1 HM6461/CD4042/CDP1802/CD4013/CD4556/	9
BUILD THIS	2 UM1258-8/MC1496P/4027/4024/4018/TL084CN/2N3906/MV2115/	9
	2 MM53200/MM74C14/LM555/2N2222/2N2907/2N6725/1N4002/1N4148/	7
DESIGN ENT	3 LMC669/LM833/DAC1208/LF357/	3
	1 LM348N/	1
	1 LM741C/LM309H/1N2089/	2
	1 LM3914/1N1744/	1
	1 LM3909/741/4011/1N914/	7
	2 LM109/AD544/HEDS1000/	3
	1 LM308/TL082/LF356/	6
PROJECT	2 LM2917N/LM2902N/LM324N/2N4124/2N2222/2N3904/1N4741/1N4746/	3
DEAP	1 AM79C401/79C30A/80188/	3
NEPR	1 LM150/LM250/LM350/	1
	1 LM340/	1
PROJECT	1 LM324/NPS030D1/2N6659/2N3904/2N6109/2N3906/1N4753A/1N5228B/	6
DEID	1 LM393/LM385-2.5/74HC132/1N5817/	3
HIKI	1 LM317T/	1
AIANCH	1 LM1830/LM317/2N5195/2N5192/2N3904/1N645/	4
NEAPTE	3 AM6112/8085/AM9517/AM6420/AM8089/AM6082/	4
	1 LM324/2N2222A/CEA06-250UW120/	4
	1 AM685/555/MC10131/MC10124/	4
NOTES	1 AM26LS33/SN7407/	1
PROJECT	1 LM339/2N2222/LM336Z/1N4001/1N4004/GE-MOV33MA1A/	4
DENO	1 LM741/	1
	1 LM311/GFT50A6/F830D/2N2221/2N3019/2N6107/2N5294/BC107/A115M/	9
	3 LM308/CD4051BE/BC337/3773/ESM122-33/4856/	9
NOTES	1 LM324/HEDS1000/7474/	4
AUDIO AIDS	1 LM555CN/1N4007/	1
	2 LM741/LF355/MD1121/MRD3050/1N914/	5
NOTES	2 LM318/HP5082-4350/MC7812/MPQ6502/1N4001/	7

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PAPERS	1 LM308/741/151-142/	3
ASK BYTE	1 IM6403/74LS184/74LS163/74LS150/MC1488/ 1 LM358/LM395K/ 1 LM339/276-1712/2N3904/276-1143/	7 2 4
MICROWAVE:	1 LM386/LM741/MRD510/S2386-8K/	2
IDDE	1 TMS320/TMS320C15/TMS320E14/ML2259/74HC541/ 1 LM1014/ECG197/	3 2
APNO	1 EM404/	0
TENO	1 LM747CN/LM339N/LM324CN/	3
APID	1 LM324/H11F1/	2
SHPA	1 LM741/	1
ARTICLES	1 LM307/LM1458/NTE50/NTE49/PIN-SPOT-2D/1N4004/	6
DESIGN	1 AM29203/2902/S257/	6
CICI	5 LM1458/LM3914/4093BE/MPF102/2N3904/1N914/1N34/	2
POSUBACH	1 LM3914/	1
GEIN	1 LM2931CT/4049/1N4148/ 4 LM339/D469/IRF9240/IRF840/IRF450/IRFD110/ZTX751/ZTX651/BYV27	2 7
DRBO	1 LM3914/	1
DEID	1 LM3900N/LM324N/RS592-515/ZNREF050/	3
SPISPA	2 LM566/LM565/LF357/LF353/ECG823/RFP15N06L/2N2222/SFH485/PH302	5
ARTICLES	1 LM741/	3
CIID	1 LM358N/	1
FIFU	1 LM311/	1
CIRCUIT ID	1 LM3909/	1
SCEL	1 LM386/2N5210/ 9 LM11A/LM324/LM348/LM347/LM358/LF353/LF411/LM385/LF351/1N4738 2 LM324/LM386/4066B/4518B/4511B/4528B/4049B/LM340T5/2N2222A/ 1 UM1285/7805/2N2222/1N4001/	2 7 9 3
PRUP	1 AM79C83/AM7984/AM7985/AM79C81/AM79C82/ 1 LM334/	7 1
PROJECT	1 LM358N/4070B/1458C/4006B/4093B/4011B/1N4148/	7
DOSPRAMEA	1 LM733/LM361/741/74S74/	5
CIID	1 LM555/SN74154/SN7493/7404/	4
DECA	2 LM108A/2N3421/MJ4645/1N914/	5
DECA	1 LM3914/741/74LS47/	5
NOEX	1 LM324/74125/7476/7410/	4
NEW IDEAS	1 LM339/	1
FOCUS ON L	1 LM324N/LM379S/TL074CN/TIP31/TIP30/	8
IDEAS FOR	1 LM338K/PN2907/	3
TEUP	2 LM2984C/IP3R07/	1
DEID	1 LM393/TL431/1N4454/ 1 VMIL20FT/	2 1
ASK R-E	1 LM317/7805/	2
ELDERE	1 LM6313/	1
LAEX	1 LM348/LM324/2N2222/1N914/	5
APPLICATIO	1 UMF1009T/	1
DEID	1 LM10CN/MTP5ONO5E/1N4148/ 1 LM124/LM356/LM215/LF411/	2 4
DEID	1 LM358/2N2369A/	2

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LETTERS	1 2N3906/2N2222/LM3089/ 1 1N4148/	3 0
HINTS & KI	1 2N2222/1N34A/	1
CIRCUITS	1 2N4871/RS276-2029/1N4002/	1
DESIGNER'S	1 ZN425E/301A/4528B/741/ 5 2N2222/1N4001/1N4004/7404/4N25/	6 1
IDDE	1 INA117/OPA27/	2
COMMUNICA	1 IN912/ 1 2N4416/ECG952/2N2219/2N2222/ECG613/	0 3
PAPERS	1 2N5199/	1
DRBO	1 2N2222/ 1 2N6034/2N4401/741/HP5082-4650/1N823/1N4004/ 1 2N5450/	2 9 2
CIID	1 ZN425E8/TBP28L22/74LS283/	5
HANO	1 2N4403/1N4004/1N914/1N4148/	1
CIID	1 6N136/1N4148/	4
CONNECTIME	1 1N4002/ 1 2N3906/2N3904/2N2222/ 2 2N3819/TL074CN/TL084CN/LM340T15/LM320T15/276-035/1N82/ 1 1N914/	0 5 4 0
HINTS & KI	1 1N4001/ 2 1N4001/	0 4
LEDO	4 2N5060/HT32ND/Q4015L5/	1
DEID	1 2N2646/ 1 1N4148/	1 0
APID	1 SN7493/8205/SN7400/SN7408/8212/	8
HOCO	1 1N914/	0
LEED	1 UNL205PS/AD521/LF356/741/HTVS1336-8BK/LM399/	4
HAM RADIO	1 1N4007/	0
IDDE	1 2N2219/	1
POSUBACH	1 2N3055/ 4 ZN425E/6820/531/741/4555/4516/4514/74LS153/74123/4098/7475/	1 9
NOTES	1 2N3904/5082-3043/	1
HAM RADIO	1 1N60/ 2 2N4416/2N2222A/2N2904/SN72741/UA741/SN7473/SN7400/MV1634/ 4 2N3904/2N2222/LM311/1N3019/1N914/TIP32/276-035/276-2025/	0 9 6
HINTS AND	1 1N4001/1N4007/	0
HINTS AND	1 2N5368/D44T2/1N914/ 1 2N3819/NE531/LF353/LF351/1N4148/ 2 4N33/MV5353/IN4148/MV5153/	2 4 1
TEFO	3 SN72558/RC14558/SN75107A/2N2907/2N2222/7805/7905/7406/7400/ 1 6N135/	9 2
NOEX	1 IN4148/ 1 2N3819/	0 1
PROJECT	1 IN5339B/IN4001/ 1 2N2222/ 1 2N3053/276-2030/2N2222/276-2009/1N4003/276-1102/ 4 ZN427E8/LF398/747/AM27S07/74161A/74154/74125/7485/CD4016/	0 1 2 7
APPLICATIO	1 INA120/	1

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SYSTEM NOT	2 SN7404/2N2222/1N914/2N2907/	2
ENGINEER'S	2 1N746/2N4212/1N4004/	1
	2 2N2222/MC1590G/	1
HINTS & KI	1 2N3904/	1
	1 2N706/1N4148/1N4005/	2
	1 1N4001/	0
TETOTE	1 1N5402/276-1143/1N4001/276-21101/	0
FIUP	1 2N4401/1N4148/	2
DEID	1 2N3906/2N3904/	3
	1 2N3820/	1
COMMUNICA`	3 SN7432/SN7402/SN7400/ES225/2N3906/2N3904/MPS2222/1N456A/	8
GLAT	1 2N106/CK722/	2
TECH TIPS	1 2N3819/2N3904/	3
PROJECT OF	2 SN76477/555/2N2222/	2
ENGINEER'S	1 SN74C04/	0
HINTS AND	1 2N4888/2N2222/1N914/	2
HINTS AND	1 2N5109/	1
PROJECT WC	1 2N2222/	1
DECI	1 FND500/4026/4047/	7
CICI	4 2N5062/2N2222/2N3904/	9
TEUP	1 1N702/	0
APID	1 SN74154/SN74159/OA47/	1
TECHNOLOG`	5 4N35/2N3904/1N5818/	3
FEATURE	3 2N3819/ZTX300/TIL209/	2
	1 2N2907/	1
CIRCUITS	1 2N3904/	1
FEATURES	1 2N2222/	1
	1 2N3643/2N39046/1N4003/1N914/2N4036/2N3440/BSY84/BFY39/BAY19/	9
TECHNOLOG`	1 2N2222/	1
	1 1N4007/	0
	2 1NA105/HCPL2630/74121/7805/TCD0522/	4
SPECTROSC(1 2N3414/MP120D2/ECG3039/	3
ASK R-E	1 2N2222/	1
	3 2N6040/LM741CN/LM555CN/LF356/OP37/2N4403/1N914/	4
APPLICATIO	1 1N914/	0
DENO	1 2N2222/	1
	1 2N2222/	1
NOTES	4 KN22/MFOE71/MFOD72/74HC4538/VNB010B/MPSU45/1N645/	3
APID	1 2N3819/ZN3866/	2
	1 1N5388/	0
CIID	1 2N1671A/BTY79-400/MM4003/BAY21/	4
RFFETE	2 2N5088/2N930/	2
SPFE	2 2N5835/276-1152/	2
ARTICLES	2 2N3055/	2
APDENO	1 2N2222/TL41/	3
	1 1N2069/NE51H/	0
PROJECT	3 ZN428/8703/VN10KM/79L05/ICL7660/6116/5516/4528/ICM7240/4001/	9
HINTS AND	1 1N914/	0
BEGINNER'S	2 2N4416/1N914/	2

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	1 2N4123/	4
DEID	2 MN74C85/74C74/74C00/74C10/	3
WEEKENDER	1 1N914/276-1520/276-041/	0
	1 2N3905/2N3903/	2
AUDIO AIDS	1 2N6240/324/1N4002/	2
	1 1N617/1N87A/	0
	1 CNY17III/7474/7403/	6
	1 1N34A/	0
COAR	1 2N2222/MPN3401/	2
HOTHWO	1 2N3904/	1
COAR	1 2N3904/2N2222/276-036/1N914/	2
APID	1 SN7495A/SN7406/SN74LS02/2N3702/	9
ELRECO	1 SN94310N/SN94312N/SN94316N/SN94314N/SN94315N/SN94311N/	6
INPR	1 2N2222/276-142/	1
	1 2N2907A/TIL139/2N2222A/	5
BIBA	1 1N4148/	0
	1 2N4401/1N914/74HC04/	2
HAHA	2 1N5228/4N25/74HC14/1N914/1N5254/	1
	1 2N2905A/TIL139/	2
APPLICATIO	3 INA101HP/OPA27/	2
DESIGN SOL	1 4N25/7660/	2
CIRCUITS	3 4N26/4N33/1N4383/	1
IDEAS FOR	1 2N2222/1N4002/4N27/LM385B/1N914/	3
EXCO	1 2N2907/FPT100/2N2222/555/	4
	1 IN4765A/R928/	1
DEID	2 1N5712/HA2539/	1
	1 2N3904/3909/	4
CIRCUITS	1 2N4403/1N4004/1N914/1N4148/	1
FEATURES	1 4N33/4066/2N5061/1N4001/1N914/	3
CIID	2 VN10LM/ZTX753/BC182/CA3083/1N4003/	6
	1 2N2222/LBD5410/L32/	1
IDDE	1 2N2905/1N4148/	2
FEAR	3 4N35/1N4007/	1
PRMO	2 2N3819/2N2222/2N3904/1N914/	2
IDEAS FOR	1 2N5771/2N2222A/2N5462/2N3740/1N4731/	5
INTERFACE	1 1N914/	0
	1 2N2222/	3
UNDER CONS	3 1N914/7812/276-1101/276-021/276-041/276-022/	1
NOEX	1 2N3053/	1
	2 SN74121/PRME1A05/LM340T5/1N4004/1N4007/1N5344/LM340T12/	4
	1 SN7400/SN74LS125A/2SK30/2SC372/SN74121/	7
ASK R-E	1 1N914/	0
	1 1N4007/	0
	1 2N4393/R1722-01/	1
HANO	2 2N2222/	2
	3 2N2222A/2N2369A/2N5109/5894/12AU7/K6001/1N914/1N645/	4
CIRCUITS	1 1N4001/	0
PROJECT	2 2N2222/7805/1N4001/	6
	2 3N204/VC60/	1

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APTE	1 SN7493/SN7474/SN7432/SN74121/SN7408/SN7486/SN7430/SN7404/	8
PROJECT	1 2N3906/1N4001/	1
HIKI	1 1N914/	0
	1 SN74123/SN74122/SN74121/SN7492/SN74LS90/SN74LS85/SN74LS00/	9
TENO	2 ZN435/DG508/DG303/DIV100/AD515/TL084/TL082/4078/4068/4011/	9
REPA	1 SN74198/SN74194/XR2207/555/BC141/BZX4.7V/	6
APPLICATIO	2 ZN1034/BRX49/	2
	1 2N3906/MM4003/2N3904/MM3003/1N5352B/	5
HIKI	1 2N3904/	1
SOIR	1 2N1305/1N34/TIL209/	2
	1 1N60/	0
	1 1N4001/	0
DEAP	2 INA117/OPA128/INA105/IN4154/	3
	2 INS8250/TP5088/MM74HC942/HC123/HCT688/HCT245/HCT138/HCT00/	7
APID	1 IN4148/	0
CIRCUITS	1 1N3829A/1N914/	0
	1 2N2270/1N4148/	1
ASK R-E	1 2N2222/1N4002/	2
NOTES	1 2N3053/2N2222A/	4
MENUSP	1 1N916/	0
	1 2N5179/	1
	2 SN74184/78H05/	1
	2 ZN425E/AD530/2N5415/6BS7/BC337/	7
NOTES	1 SN741/BC117/10D10/	2
SCNO	1 2N2907/271-110/	1
PRIS	2 INA103/LH1191/2N3906/2N3904/	6
DESIGNER'S	1 2N2907/1N914/	1
	2 2N2222/LM556/LM741C/1N914/	2
	1 2N2222/	2
CCT IDEAS	1 VN10LM/7611/1N914/	2
COAR	3 VN10KM/CD4059/XR2206/356/CD4046/MM5369EST/CD4050/CD4518/	7
	1 1N4002/	0
FEATURE	1 4N35/CA3130/CA3240E/78L05/RA57M/	8
HIKI	1 2N358/	1
PAPERS	2 2N3904/BYP62-1/XC880C/	1
BACKGROUN	2 4N28/MJ1000/2N3904/	2
DEID	1 2N3906/2N3904/1N4004/1N914/	7
CORRESPON	1 SN75107/SN74S74/7486/	4
HINTS AND	1 1N4001/	0
COMPUTER F	2 2N2222/4017/PN2222/4011/1N914/1N4148/4013/	4
BAAMRA	3 2N2222/3N211/2N3553/2N4036/	3
DEIDSPSU	1 2N2222/	1
CIRCUITS	1 2N2907/1N5400/1N4002/	1
	1 2N3904/2N3903/HP10534B/UTF025/1N914B/	8
IDDE	2 2N3906/2N3904/1N4148/	3
FACA	2 2N5777/BC109/BC107/TIL209/ORP12/OA91/	2
IDEAS FOR	1 SN74150/SN74LS393/SN74LS125/NE555/	4
ASK R-E	1 2N2905/1N4002/	1
IDEAS FOR	1 2N3055/1N4001/TAG606/1N914/	2

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	1 SN7400/BD137/BD138/AA112/	3
APPLIED ID	1 ZN425/74193/7476/7420/7400/3140/BC182L/IN4005/	8
DESIGNER'S	1 1N914B/2N3904/	4
	9 2N3570/3N200/U257/U350/VMP4/P8000/BFY90/BFT66/BFR99/U320/	5
	1 1N3653/	0
HARATE	3 1N34A/	0
DEID	1 4N37/XC485/1N4004/XC484/	1
DEID	1 1N4002/	0
IDDE	1 2N1671B/2N2219/T2311D/MOC1000/1N3606/	5
	2 2N4400/2N4403/2N2222A/1N914/	8
	2 2N3906/2N3904/	2
LETTERS	1 2N6251/MC1409UB/IRF721/VN10KM/VG1/	4
DEID	2 2N5771/2N3725/1N914/	2
TEST CASE	1 SN74164/SN74180/SN74132/SN74121/SN7486/SN75109/SN75107A/	9
IDDE	2 1N5400/1N4004/	0
FEATURES	2 2N3055/2N2222/1N914/	2
IDDE	1 2N1382/76-024/	2
THINK TANK	3 2N2222/1N4742/1N5400/1N4001/	2
ARTICLES	3 6N136/MC4069/EMI9816/MTP2P50/MTP2N50/2N2219A/2N325/	3
HINTS AND	1 2N2712/2N398A/MPS6520/MPSU10/	4
TECHNOLOG`	1 2N3330/	1
HINTS & KI	1 2N2222/XR2211/	1
ASK BYTE	1 2N3904/1N4148/	1
CCTS	2 2N2222/2N6277/IN5817/IN4002/	2
LETTER BOX	1 2N3904/1N4148/	2
CIRCUITS	1 2N2222A/7414/	3
CIRCUITS	1 1N4007/	0
TENO	1 1N4148/	0
CIRCUITS	1 1N916/	0
	1 2N2369/2N2219/2N2907/1N4148/1N4001/	3
ENNO	1 2N2222A/	2
	1 2N4072/2N3866/	2
HANO	1 1N34/	0
TECHNOLOG`	1 1N60/	0
LETTERS	1 1N914/	0
TECHNICAL	2 2N2222/276-2043/1N4001/276-1104/	1
ARTICLES	1 1N4007/	0
ARTICLES	2 2N3906/2N3904/	4
DEFE	2 INA103/OPA2107/	2
DEIDFEAM	2 2N2222/1N4148/	3
	3 2N3906/2N3904/2N2646/2N3053/1N4004/1N4001/1N914/1N4003/	7
	1 2N2222/	2
CIID	1 2N3819/MPF106/	0
IDEAS FOR	1 4N40/	4
NEW PRODU(1 1N4004/U211B/	1
	3 2N5484/2N5486/MPS3640/2N2222/2N3904/1N914/	3
HIKI	1 1N914/	0
	1 2N2222A/CD4001/1N4001/	2
PROGRAM	1 VN10KM/TL091/741/EOM10B42/276-007/276-1745/276-2070/	5

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CIRCUITS	1 2N2926/	1
	3 4N28/MPSA92/MJE340/1N4001/1N4003/7805/1N4148/	4
	1 2N5064/74132/MC7912/MC7805/MC7912/MC1741/MC7812/TCG234/	9
	1 2N4416/BFR90/2N6665/SFH202/NDL2102/	7
	1 2N2222A/	7
APSU	1 ZN448/74LS74/	3
FEATURE	1 2N3053/1N4148/74LS06/	3
DEFE	1 SN7405/	2
ELNO	1 2N5486/	1
	1 INA101HP/LF356/1211/	5
	1 SN7432/SN7404/SN7400/	3
PROJECT	1 1N4001/	0
APID	1 SN74121/SN74LS74/	3
CORRESPON	1 4N35/2N5655/1N5245/	2
	1 1N4744/276-564/	0
NUEL	1 SN72709/LM311H/LM324/UA741/2N3819/2N3694/2N3053/2N2907/	9
TEBR	1 4N39/MOC3011/1N4148/	4
	1 2N3819/	1
FEATURES	1 1N914/1N4148/	0
IDDE	1 1N914/	0
IDDE	1 SN75176B/LTC485CN8/CD4093B/	2
	3 INS8060/6502/	1
ENGINEER'S	1 BNRL5-2/	0
HOBBY SCEN	1 1N914/	0
	1 2N3906/2N5087/276-1604/	2
	1 SN74528/LM318/	2
APRIL 1 BU	2 2N3903/2N2222/	1
CIID	1 2N2369/2N2219/1N4148/	3
	3 ZN428E/ZN427E/6522P/	3
CIRCUITS	1 2N4126/2N4124/	2
CIID	1 2N6241/2N3799/	2
LETTERS	1 1N4148/	0
	1 SN741/	1
	6 4N25/555/MID400/CD40106/ICL8211/	1
COMMUNICA	1 INA101/ADC0808/DG302/LT1080/HD64180/	5
	3 ZN425E/531/7400/1N4148/	3
POMASE	1 2N5337/2N4401/2N1308/	4
	2 3N211/2N3904/LH0002/	3
	2 2N2222/7400/1N914/	1
	1 SN7407/	1
	1 2N2222/1N4148/	1
	2 2N2646/2N2222/1N4148/	2
SPRE	1 1N914/	0
	4 2N2222/2N4400/2SC2092/MRF475/2N4036/1N914/	4
AMSC	1 1N4001/	0
LESOCOHA	2 4N33/4N35/	1
LETTERS	1 2N2222/	1
	1 2N776/	1
	9 2N3994/MTM3960/J309/2N4265/J309/2N4265/2N5179/MRF904/IN5711/	1

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	1 MOC3010/4049/272-707/276-1001/SC141/	7
	2 MOC3021/SC146D/4N26/2N3866/2N3904/74LS175/ADC0808/LS92/LS90/	9
DEPE	1 AOP3510/	1
	1 MOC3010/MC14011/LM7812/1N4004/2N2222/1N914/276-2411/276-1000	7
	2 MOC3010/RCAT3202B/2N3906/	3
DEID	1 COM8126T/OP802/VN0104N3/F5E1/LM385-2.5/CA3240E/	4
FOREGROUN	3 MOC3011/SC142B/CA3059/4N32A/7405/	2
DEAP	1 COM52C50/Z80/74LS374/74LS244/74LS245/	5
DEAP	1 COM90C65/HYC9058Y/HYC9068/HYC9088/74LS373/ALS245/74LS245/	4
NEW IDEAS	1 MOC3031/4013/74C14/1N4003/1N914/4046/	4
SOFTWARE N	1 COP404/74LS374/74LS373/	4
TECH TIPS	1 MO83/4046/	2
FEATURES	2 XO43B28.060MHZ/RS276-033/	1
	1 MOC3020/C206D/BC184L/2N5210/	4
DESIGNER'S	1 MOC5010/CA3140/	2
TEUP	2 MOC3081/HCPL2400/74S04/	2
SPOTLIGHTI	5 DOC49/DOC492/DOC10K/DOC10K1/DOC10K2/	1
	1 XP2020/	1
CIID	1 OP37/	1
	1 OP27/	1
	1 MPF102/	1
CIID	1 OP07/	2
UNDER CONS	3 MPF102/MC1350P/	2
	1 MPN3401/	0
	2 XP2020/LH0063/	1
DEID	1 HPHCPL2630/74LS14/1N4148/	2
	1 MPX100AP/741/	3
BUILD THIS	2 MPS3866/1N914B/	1
IDDE	1 LP2951/MPSA18/1N4148/	2
CITEAN	4 OP77/TL074/TL072/TL071/2N4393/BC182/1N914/	9
DEFE	6 OPA2604/OPA37/	1
NOTES	1 1P28/	1
DESIGNER'S	1 MPC165/4161/4077/FOT114/FOR110/VFC32KP/4013/4046/4049/	9
APPLICATIO	3 MPF930/LP2951/LM385/LP365/1N457/	3
ARTICLES	1 OPA104CM/741/BEL100P/BEL100N/	4
DENO	1 OP07/1N914/	5
RFFETE	1 MPN3404/	0
UNDER CONS	2 MPF102/2N5179/2N2222A/1N34A/	4
	4 OP41/OP42/OP44/MUX08/2N4118/OP90/2N2369/2N5911/MAT04/	6
DEID	1 MPF102/	1
	2 MPFH11/74LS00/	2
	3 SP5051/CD4060/74150/BFR34A/BB405/PIC1655XT/SP5000/MCM2801/	9
	1 MPC1710A/	1
	1 MPF102/2N2222A/MV209/1N4148/	2
RFDENO	2 MPF102/2N2222/TCG610/	1
PRINDE	1 OPB730/	1
RFDEAW	1 OP27CZ/2N2222A/5082-2835/	3
PAPERS	2 OP05/TIH502/BB3522/CD4016/AD741/1N5314/1N4385/32A1/	5
APPLICATIO	1 MPX2100DP/MC33079/MC33078/2N2222/	4

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IDDE	1 LP2951/2N3906/2N6554/MDS77/	2
	1 OP07A/R1564U/1N914/	2
	2 MPF102/2N706/74196/74176/7442/7472/74390/7490/7473/F9374PC/	9
	1 TP3200-2/	1
DEAP	2 OPA111/OPA27/REF200/PT1000-10PF/	4
READOUT	1 SP98608/	1
SINO	1 OP42-AD/	5
REPA	1 OP27E/AK47/2N4416/2N5397/	9
DEWO	1 MPF102/2N4416/2N4400/2N4401/2N5179/	3
	1 SPO256AL2/SPO256A-AL2/276-1784/1N914/	1
BASIC AMAT	1 MPF102/276-2036/	1
	1 OP07A/	1
	5 OPA21/OPA201/1N4148/3656/4N25/CD4007/	3
PART I	1 OPA100/	3
BRCO	1 OPA128/	1
ARTICLES	2 OPA111B/OP27/OP07/AD589LH/S200V/	3
	1 OP27/	3
	2 MPS-A13/2N4123/1N4001/	0
	1 MP SH11/	1
COAR	2 MPF102/	1
IDDE	1 OPA121/1N4148/REF200/	2
APID	1 OPA445P/RS592.486/1N4148/	3
DESIGN	4 OPA111/BB3627/741/3N163/	4
	1 DP8409/DP84244/LS393/LS139/	3
DEID	1 SP0256/74LS161/2N3904/	3
	6 OPA111AM/XTR100/MC1403A/OPA156AM/2N4220A/OPA121KP/VFC320BM/	3
DEAP	6 OPA27/XTR101/2N2222/2N2907/LM385/LM103H3/MC1403A/2N4867/	4
APPLICATIO	1 UPD75308/UPD4464/MAX631/BC214/	4
DISK DRIVE	2 UPB7266/UPD765A/LS240/UPB7266BC/	3
	1 OPB243/	0
	2 OP10/OP27/AD544/AD584/CA3140/BC107/2N3055/BD135/BC178/BD136/	9
	1 SP3440/	2
FEATURES	1 MP SH10/2N4124/2N2222/1N914/	3
DEID	1 OP27/74HC86/74HC74/74HC04/	5
	1 OP10/	3
	2 BPX63/2N4416/V10LM/CQY11C/	3
	1 OPA102/IRF130/BC140/	4
	1 MP S5172/	1
ELNO	4 GP1U52X/2N2222/555/2N2907/	2
	2 OPA111/OPA128/	1
IDDE	1 OPA637/	1
	1 1P39/AD515JH/	1
	1 OP17/IN60/	5
FEATURE	1 OP77/	1
DEID	1 SP0256/S2560A/LM386/SPR16/74116/556/7493/7404/2N5550/1N914/	9
DEID	1 OP12/4040/4030/	3
DEID	1 OP290/	1
INMEHIENPH	1 XP3462/	1
ARTICLES	2 OP27/LF356/LH0002C/REF01/TFM3/7805/MP SH07/MPS6521/MMBV105G/	8

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DEAP	3 OP64/	1
REPA	1 OP227/	3
	1 MP5H04/HP3046/SK3434/2N3906/7404/1N914/	6
ELDERE	2 TP3330/LM386/XR2130/MMC9306/4N33/1N4732/1N914/	3
RFCOST	2 UPB582C/UPB581C/UPG504B/MAR6/2N2857/	4
SEDE	1 OP43EJ/LF356/	2
IDDE	1 OP07/	4
STSO	2 MP1173A/CD4015/2N2222/MPS222A/1N914/	4
	1 OP07/7805/	2
STATE OF S	4 OPL100/2N2222/1N914/1N4001/OPI3010/CD4511/	4
APPARATUS	1 BPY61/	2
	1 MPSA20/276-035/	2
HINTS & KI	1 MPF102/	1
	2 OPA27/ICL8038/BB3660KP/BB3662KP/CD4066/3500/LM339/7808/7908/	9
DESIGNER'S	1 SP8636B/SN74197/SN7483/SN7482/	4
	1 TP1322/THC0750/HAS1202/MDH1202/74LS123/74LS373/74LS74/	9
	1 MPF102/1N914/	1
	1 BPW34/MPF970/LM331/IRFD113/IRFD110/4002/	8
	2 OP07/	8
	9 OPA111/OPA128/HP5082-4204/OPA404/OPA2111/INA105/	3
	2 CP640/	2
APID	1 OP07CN/LM301AN/PXO8640AN/RS301-858/X9103/	5
IDDE	1 RPT81/LM311/4013/4011/	4
DEID	1 MPSA56/MPSA06/1N5234B/1N4002/	2
EXTE	1 FPT101/	0
DEID	1 OP400/REF03/VCR11N/MAT01/	5
FEATURES	1 SP5060/MSA0404/BFR96/2N3904/78L09/78L05/B8405G/	4
REPA	1 OP27/OP17/2SK146/2SK147/	4
NOTES	1 OP05/SN72741N/5082-4350/920/277-02/1N4822/1N4148/	7
GEIN	1 TPIC2404/	1
ARTICLES	3 OP400/2N6043/2N2222/SDL5412H1/1N914/	3
DEID	1 OP90/4N25/	2
DEID	2 SP4010/JPAD20/6N136/	1
DETECTORS	1 OPA128LM/OPA111BM/OPA104CM/	1
	1 OP800/	2
ELPOPR	1 MPS-A12/D1240/	2
	1 MPSA13/FLV117/	1
	1 MPSU60/MPSU10/MR250-2/RCA4900/	7
	6 OP90/MAT01/REF02/HP5082-2800/2N1711/CD4066/	3
	1 SP9680/MPSA42/CA30921S/C30921SQC/	2
APPLICATIO	2 OPA2604/	1
TEUP	1 XPC1500/MR2520L/1N5250/	1
TETRIM	1 UPD9320GF/UPD9321GF/UPD9322GF/UPD9324GF/UPD9323GF/UPD9325A	6
EMTE	3 BQ2003/LM317/78L05/IRF9234/2N7000/IRF248/VP01A/2N3904/1N5821	6
	1 TQ6331/	1
TECHNICAL	1 MRF422/	2
	1 IRF450/	4
	1 XR2209/	1
LEDO	5 XR2206/565/741/	3

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DEID	1 IRF620/	4
DEID	2 IRF840/2N3904/5082-0180/HP2811/	2
FEEDBACK	1 IRF511/	1
DESIGN	3 XR2206/LM311/OP07/LF351/TL071/5534/LM369/LH0070/REF01/	6
RAEFDE	1 IRF150/1N5612/1N3891/	1
CIID	1 XR2206/OP07/	3
ENGINEER'S	1 LR104P/	1
ROBOTICS	1 IRFD123/	2
IDDE	1 XR2206/CA3160/74HC4066/	3
CIID	1 XR215/LM324/7474/	3
PERIPHERAL	1 VRC008/LM324/	2
	2 MR6500/3554/	1
NEAPTE	8 IRF131/IRF9131/SG1731/301A/311/AD524/SG1635/2N4393/74C04/	9
	1 TRA1000/2735PC/3115/1N4448/	3
	1 CR4/BT1753/	3
DESIGN IDE	1 XR2240/LM2905/CD4020A/	3
	1 XR-L555/74C73/74C154/CD4024/CD4017/2N2222/1N914/74C00/	9
PRUP	1 IRFF120/TSC429/1N914/	4
IDDE	1 IRF511/	1
APID	1 IRF820/BC237/INW49/	2
DEID	1 XR-T5650/XR-T5675/XR5534/1N914/	3
DEID	1 XR2213/	1
BUILD THIS	4 XR2206/3140E/NSB3881/74C926/ICM7207A/MC14538/2N4401/2N2907A/	9
PROJECT	2 IR6000/ICL7660/LM555CN/78L05/3N3906/2N3904/1N4004/	6
CIID	1 XR13600/	1
	3 MRF618/1N914/	1
DEID	1 IRF540/2N2222/2N2907/1N914/	4
DEID	1 IRF540/LM393/1N6263/1N914B/	2
DEID	1 XR2240/2N6299/	3
LETTERS	1 IRF120/	1
	4 IRF150/MCT2E/TIP33C/ECG128/V332X/1N3893/7406/CA3140E/1N3062/	9
	1 IRC530/LM339N/CD4011B/CD4538B/MC14584B/	5
CIID	1 XR-L555/2N2222/	2
PRACTICALL	1 XR2206/	1
STATE OF S	1 XR2243/	1
	3 IRF320/2N3725/2N3467/7407/74LS05/	2
IDDE	1 IRF9533/	1
	2 TRG105C/	0
QRP	3 IRF511/2B5109/2N2907/	1
COAPNO	1 LS245/LS393/2114AP/LS125/LS107A/	9
	2 AS888/ALS240/ALS245/S182/AS839/AS855/AS898/AS899/	9
CIID	1 LS373/LS244/LS139/LS02/LS04/LS00/	9
APID	2 BSY62/741/BAY63/7493/7404/7400/BEY83-/KF520/	9
	1 RS1495/OP07/ZN502E/Z80/74LS138/Z1V1040E/	5
	7 TSC7126/AD590/LM358/1N4148/TSC9491/CD4030/LM335/TSC9495/	4
	1 LS7490/LS741/LS7400/	3
HAHA	1 SSI75T982/	1
IDDE	1 TSC827/TSC9402/TSC911/TLC555/4N25/NY1/TSC04/	6
REPA	1 2SC2240/2SA991/ICL8069/	2

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	1 HSN3000/2N2907A/	3
DEID	1 LS684/LS138/LS30/	5
	2 2SK180/HCPL2601/2SC510/2SA510/2SA817/PC618/1S1586/	6
RETI	1 LS688/LS04/LS32/LS08/LS245/	5
	2 DS2250/MAX233/DG302/MAX612/74HC153/74HC125/74GC00/2N2222/	9
APSU	1 SSM2110/	1
ICSE	1 LS7263/TIP105/TIP100/	7
	2 RS574/072/LM741/074/7662/	8
BENCH	4 DS1210/	1
CIID	1 2SK312/BC107/	4
	1 OSD50-0/BFX48/	2
DEID	1 TSC7135/HD6403/CD40105/74C74/TSC9491/7400F/	5
LETTERS	1 2SK134/2SK175/2SJ49/2SJ55/	4
STATE OF S	1 LS7220/	1
	1 LS297/LS393/LS173A/	3
DESIGN ENT	1 NSC800/LM2984/ADC0844/NSC858/	4
	1 MSD2/S1723-04/	1
DEID	1 LS123/74LS02/74LS08/74LS74/CD4049/	5
DEID	1 BS170/TN2905/1N914/	2
COAR	3 LS7210/4538B/LM317/TIP120/MPS2907/TIL414/1N914/	3
COAR	1 3S4/	2
TUSC	1 MSM6242/74HC157/74HC138/74HC04/1N5817/1N4004/	3
PRIN	1 VSC7104/VSC7103/VSC7102/VSC7101/	4
FEATURES	1 SSI202/LM324N/4515/78L05/2N5060/1N4003/1N914/	5
IDDE	7 CS5501/4HC4040/74HC107/MC14507/	4
CIID	1 RS304267/741/	4
DENO	1 LS74/LS86/LS08/	3
ASK BYTE	1 DS8830/DS8820/SW75182/SW75183/	2
SUASDE	1 LS112/LS32/LS04/	3
APSU	1 TSC7136/TSC9400/1N914/	2
IDDE	1 LS123/LS74/LS86/	3
	5 ISO100/724/	1
NEPRDA	1 2S80/	1
DEID	1 LS221/LS74/	2
SPRE	1 TSC911/TSC04/TSC05/	1
UCDETE	1 TSC9404/6610/6522/	3
	2 2SC2408/2SC287A/VN40AF/2N5551/	9
DEID	1 DS26C32/	1
DEBR	3 TSL214/TSL215/MC68705P3/TIL311/TLC555/74HC4040/74HC123/LM339	5
NEW PRODU	1 SSI570/SSI575/8048/SSI580/	3
	2 DS8820/733/311/	2
DEIN	1 HSCF24040/	1
	1 NS16032/NS16082/NS16201/NS16081/	4
HOW TO	2 2SB324/2SC828/2SC711/	2
	1 1S1588/318/	4
DESIGN	6 TSA5510T/SP8690/CD4046/74LS90/SN74LS00/2N5486/BF979/2N2222/	8
	1 2SD822/GFT20B/	2
ARTICLES	1 JS335020/2N3706/SK3434/1N5388B/1N1190R/1N918/	5
CIID	1 SSM2017/TL082/	2

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DESIGN ENT	2 TSC911/TSC7660/TSC913/AD590/741/	4
DESIGN IDE	1 LS374/LS01/LS32/LS07/	3
DENO	1 RS7216C/RS5539/CD4522B/74S163/2N3866/1N4148/	9
	3 2SD712/25C1384/PA3004/STK0050A/MZ140/	2
DEID	1 LS348/LS377/ALS374/LS138/LS04/	9
LETTERS	1 2SK134/2SJ49/MPSA55/MJE340/MJE350/MPSL01/MPSL51/1N4148/	7
LETTERS	1 2SK134/2SJ49/MPSA55/MJE350/MJE340/MPSL51/MPSL01/1N4148/	7
TEAR	1 LS74/LS88/LS08/	3
SOSTDE	1 LS3404/2N2222/	2
DEIDFEAM	1 CS8140/CS8141/	1
ROBOTICS	1 DS1488/DS1489/7404/1N914/ICM6402/	4
	1 NS32032/NS32082/NS32201/	3
LOENPHINGE	1 LS193/LS367/LS74/	6
APNO	2 LS244/ALS244/F244/ADV478/ADV471/AD589KH/	1
DESIGN	2 TSC1427/ZVN4206/IRF630/BAV10/BYW81-200/	2
ARTICLES	2 2SK135/2SJ50/2N3821/MPSU60/MPSA18/MPSU10/2N5320/2N4347/1N914	9
COMPONENT	3 TSL220/TIL306/NE555/SN74123/2M3904/	8
DESIGN ENT	1 CSC5016/CSC5212/	2
TECHNOLOG`	1 LS283/LS175/	9
DEID	1 LS123/LS74/LS08/68705R3/	3
DEAP	3 ISO120/PWS740-3/PWS740-1/6N136/OPA633/	5
	1 SSSB119/NE5534/	2
ANTENNAS	2 2SC2369/	1
	1 LS221/4N37/3160/LS109/LS08/VN10KM/	6
APID	1 LS155/LS136/LS148/ST97/	4
	1 2SC1815/1S1588/	2
FEATURES	3 SSI202/CD4514/7225/CD4081/CD4001/7805/2N2222A/1N4148/1N4004/	9
	1 2SK162/OP27/	6
AUHIFI	1 BS250/BS170/1N4148/1N4007/	3
COMPONENT	1 DS1233/	1
INCI	1 LT1078/	1
COAR	1 NTE3044/2N3053/	8
DESIGN NOT	1 BTR1005/BC107/BCY71/	5
	3 BTS412/	1
DEID	1 LT1043/LT1004/	1
	2 MT8870BE/2716/2N3904/74LS175/7805/1N4148/	4
HAHA	2 LT1115/UGN3013/	1
TEUP	1 LT1078/	1
DEID	1 FT106/MKIV125/1N4004/	1
DEAP	2 LT1115/LT1079/LT1010C/2N4304/	3
DEID	1 LT1073/2N3906/2N3904/UND712/1N5818/1N975/MUR1100/1N4148/	3
	1 KT603G/	4
DEID	1 LT1056/LM317/	2
NEPRINCI	1 LT1078/	1
ININ	1 LTC1041/2N6660/1N4002/44007/	2
IDDE	1 LTC1287/LT1172/LT1101/LT1078/2N3904/LT1034/1N752/NPH8-100AH/	5
IDDE	1 LT1086/MUR410/1N4002/	2
	4 LT1011/LT1056/LM301A/LT319A/2N4393/LT1009/LT1021-10/74C86/	7
DEID	1 LT1020/	1

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	5 LT1016/LT301A/LT317AH/2N2369/2N3866/VN66/2N5160/TD263B/	5
DEID	1 LT1073CNB/2N5088/1N752A/PK6E24A/1N5818/1N4148/	2
	1 WTL1163/WTL1164/WTL1165/74F174/80386/	5
	2 WTL1016/AM27S29/LS384/LS377/LS165/LS164/LS183/LS74/	9
DEIN	1 LT1083/	1
DEEN	2 LTC1041/LT1019-5/74C00/1N4002/LT1009/	3
STSOST	1 LTC1041/2N6660/1N4002/	2
TECHNOLOG`	4 ZTX300/ORP12/	2
EDSPRE	1 LTC1100/	1
DEID	1 LT1073/LT1016/LM134-3/2N3906/2N3904/MV209/1N4148/	6
DEID	1 MTP10N05/MPF960/	2
IDDE	1 LT1109-12/MBRL120/	1
ANALOG SPE	3 XTR100/	1
DEEN	2 MT8972/MT8980/MH89755/MH89785/	1
	1 MTM1N100/	1
TEAD	1 LT1073/	1
	4 ZTX300/ORP12/	2
DEID	1 LT1043/MC14573/	2
DEID	1 MTM60N05/2N4401/1N4454/	2
	4 LT1056/LM134-3/LTC1043/LT1011/LM307/LTC1052/LM301A/74C74/	6
APPLIED ID	1 ST044/741/7490/74121/	6
PRODUCT FO	2 LTC1052/1N914/MAT02/OP27/2N2905/	5
	9 LT1013/LT1010/LT1056/LTC1052/LM199/LM301A/LT1016/6012/LT1018	9
DEIDSPSU	1 LTC1052/741/1N4148/	2
	1 NTE238/	1
IDDE	1 LT1013/DIG12-06-025/AD204K/IRFP150/	4
DEFE	2 LTC1099/MP1208/RL0256G/LT1056/LT1022/74LS161/74HC74/74HC04/	7
	1 BT251/LM358/EL2020/	3
DEAP	1 LT1086CT/	1
PRIN	1 LT1102/	1
ELDERESWRI	3 LT1073/HV1205/HV2405/MAX610/MAX612/	1
DESIGN ENT	2 BT110/	1
	3 8T26/'04/'132/'154/HP4016/'83/'257/'30/'123/'160/'75/'47/	9
APPLIED ID	1 MTP2P45/1N4004/IRF711/MPSA42/MCT6/ZVP01A2A/ZVN01A2A/	6
DESIGN ENT	1 WTL1163/WTL1164/WTL1165/	3
	2 MTP12N10/MTP10N12/MTP8N20/MJE200/MJE210/MDS51A/2N3904/1N914/	5
	1 KT66/53KU/5V4/	5
REPA	1 LTZ1000/LT1013/2N3819/2N3904/	4
DEID	1 LTC1040CN/2N3906/	2
	1 LTZ1000/LT1013/2N3819/2N3904/	4
TEUPREIC	2 LTC1148-5/MAX639/SI9430/SI9410/1N5818/1N5817/	3
DEAP	4 XTR101/OPA445/XTR110/OPA2111/2N4867/2N2907/LM385-1.2/1N5918/	4
IDDE	1 LT1073CN8-12/LTC1045/1N4148/IRF540/	4
FOYOIN	1 LT1001/	1
CODI	2 LT1080/MAX232/	1
NOTES	1 VT222/UPM5-500/37K2/	2
	2 AT41472/	1
SOSTDE	1 LTC1100/	1
DEID	1 LT1027/LT1010/1N758/	2

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DEID	1 MTP3055/BC107/	2
NOTES	1 HUV1100BQ/	1
	1 MU4891/2N4870/2N2646/2N2647/MU2646/276-2029/	2
	1 BUX11/BUX51/BYW3150/BYW31-50/BYV21-45/	2
DESIGN ENT	1 QUICKCHIP3/	1
DEAP	3 BUZ71A/2N3860/MPSA55/2N3906/1N4148/	7
DESIGN	1 HV1000/	1
TRPR	3 MVL407/MC10100/BUF03/HA2539/MC10186/	3
	1 HVO3/HV04/HV05/HV06/	9
ELNO	1 MV839/MV832/H160/	0
APNO	7 MV601/MV500/CQY99/S202DS4/	3
DEPCSY	1 AV9103/1N4148/	0
LASERS	1 EVVCX1622/	1
REPA	1 MV1403/MV2113/KV1236/	0
DEID	1 SW201/OP15E/	2
	1 MWA110/V82T2/MC24T/7815/	5
PAPERS	4 IXP3N100A/IRF9530/IRF510/IRFD1Z0/IRF540/IRF640/KS621K30/	5
AMSC	1 6X4/6J5/917/	2
	1 LX5600/LF355/TIP29A/LM3911/	5
CIID	1 MX7534/MAX329/MAX400/ICL7641/11X580/	6
DEID	1 IXBD4411/IXBD4410/74HC00/IXTH10N100/1N914/	5
SPREDACO	2 8X360/8X305/8X310/8X350/	3
SYTEINCI	1 8X60/	1
	2 CX20197/MC34082/CA3208/2SC3356/	4
DESIGN ENT	1 8X401/8X470/8X41/8X360/8X450/	9
	1 8X401/8X41/8X360/8X450/8X470/	6
	2 HXTR3101/5082-2830/BFW92/7812/7924/BD136/BFT95/	6
	1 IXID7200/IXID7100/	2
	2 8X300/8T32/8T33/2N5337/2N5320/	4
INSE	2 8X300/8T33/8T32/2N5320/2N5337/82S115/	4
COAUMECO	1 8X300/8X350/8T32/82S215/2N5320/	9
IDDE	1 MX7228/MAX660/1N5817/	2
APID	1 MX7228/MAX660/1N5817/	2
	1 MX1001/	1
CCT IDEAS	1 AY3-8910/74LS151/74LS393/	3
DEID	1 CY7C402/HCTL2020/PAL16R6/PAL16R4/HC244/HC74/	7
	3 AY3-1014A/HD0165/4518/4049/4025/4011/74C14/75150/7805/1N4002	9
CICICE	6 AY5-1013A/COM5016/BR1941/74LS367/74LS266/74LS244/74LS155/	8
BUILD THIS	1 AY3-8606-1/4001/2N3906/2N3904/1N4003/	5
REPA	1 CY512/NE558/U LN2068B/LS374/LS279/LS244/LS155/LS138/LS32/LS08	9
	1 HY1102/	1
ASK BYTE	1 AY3-8910/74LS95/	7
FEAR	1 AY5-1013/556/1489/1488/	5
NEAPTE	1 SY2130/SY6502/8085/	3
CIRCUIT ID	2 BZY88C/TIP41/BC212/BC182/TIP42/1N4001/	2
BUILD THIS	1 4066/7555/LM358/LM386/4013/	5
	3 4046/4018/7224/7805/4070/C5335/7207A/4027/LM339/340T5/	7
	1 4017/4013/MOC3010/7812/555/2N2222A/741/276-1161/276-1001/	9
	1 4049/1N914/	1

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FOREGROUN	1 5086N/LM380/SN74279/ECG123/1N4005/	5
HOBBY CORN	2 4013/4049/555/1N914/	2
PACO	4 8088/8284/8255A/DAC1208/74LS373/TL084/SRA1/LM336/113A/ 1 10186/10131/10166/	4 4
APTE	2 4016/3140/3240/741/HP5082-4558/2N3053/	4
CIRCUITS	9 4046B/3140Y/4011B/4093B/4518B/4017B/4001B/2N3904/1N4148/	3
APPLICATIO	1 80C85A/81C55A/6264/27C256/27C64/74HC373/74HC165/74HC139/	9
FEATURES	1 4093/2N3904/1N914/	2
CICI	7 4093/MOC3010/LM386/2N5060/2N3906/2N3904/2N2222/1N4002/ 1 8080A/8228/8224/8212/	3 5
	2 4011/555/4518/MC14553/2N5777/2N3905/DL704/MC14511/	9
PROJECT	1 4093B/4001B/2N5827/1N4001/1N4148/	3
DESIGNER'S	1 4029/4063/4027/4001/	8
NEW IDEAS	1 4040/FCS9013/4049/1N4148/ 1 4015/741S/4050/4070/	3 9
APID	1 4011/BC107/	3
POSUBACH	2 40106/BS170/1N4148/	2
NOTES	1 715DC/2N4401/	3
ONNI	2 6116/2N3906/IN4001/IN4148/	3
ARTICLES	1 6268/	2
PROJECT	1 8211/2N2297/TL209/1N4148/	6
DEAP	3 53C400/53C94/53C700/86C70/EP900/2764/74LS245/74LS244/	5
IDEAS FOR	2 74123/74160/74154/74150/7474/7400/74125/10F/7408/7405/ 3 74164/74393/74191/7493/7404/7400/MPS3394/1N914/1N34/	9 5
ENGINEER'S	1 74152/74161/74160/74H30/7404/	9
DEID	1 74AC04/74AC00/1N4148/	2
TUSC	1 74LS123/7417/	2
FEAR	1 74LS374/7490/7448/	3
ENHANCING	1 74LS688/74LS374/74LS245/74LS123/74LS74/74LS32/74LS08/74LS04/ 1 7490/7473/7420/7400/TIL307/2N3565/1N914/ 2 741/555/SN7493N/SN7430N/SN74197N/BC109/	9 9 8
COAPNO	2 74155/74161/74LS240/74C14/TIL414/TIL906-1/ 5 74LS123/74F74/74F109/74F163/74F373/IMS1423-35/MC10125/AM687/	4 9
REPA	1 7474/BTY79-800R/2N3053/74S00/NE555V/2N918/MR996A/1N914/ 1 74LS48/74LS90/ 1 74LS125/40192/74LS221/555/7400/ 2 741C/UA710C/UA715C/7486/DG187/9602/1N270/NE555T/3N153/1N750/ 6 74C926/FND70/HBF4700/CD4081/CD4027/CD4017/CD4011/7400/7812/	9 2 7 9 9
UPDICLAD	1 7473/7490/7420/7402/7486/	7
10 SHORT P	1 741/ 3 74185A/74LS157/74LS47/5082-7650/5082-7650/CD4049/74LS32/	1 9
IDDE	2 74LS164/2716/555/74LS86/74LS74/74LS32/74LS11/74LS04/2N2222/	8
DEID	1 74LS374/74LS193/4098/	5
IDDE	1 74F112/74F109/74F32/	5
DEID	1 74HC161/74HC86/	2
PROJECT	1 741/2N3053/BC108/2N3055/2N3054/2N929/ 2 6522/4012/CNY17-1/ZTX451/4071/4044/7404/	4 7
THFE	2 6522/6116/2564/74LS156/HSCH1001/ 1 555/7465490/74L504/	3 3

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	2 9511/81LS95/74LS74/7414/74LS174/7474/74C902/7432/MM57109/	9
BUILD THIS	2 55257/Z80/HC245/MC145406/27C256/16L8/EP600/82C59/82C52/HC73/ 2 5534/BC212/BC287/BC286/2N6052/2N6059/BC182/ 2 555/7493/7490/7473/CA3046/1N914/	9 9 5
IDDE	1 558/LM393/LM317LZ/LM317K/LM78L12/LM385/VN2222L/ 3 6502/6545/6850/6116/2764/TMS41256-15/AC374/HC373/HC238/HC139 7 555/1N4148/2N2219/2N2905/2N3055/	6 9 3
IC TESTBEN	1 555/	1
PROJECT OF	1 7555/555/	2
PAPERS	1 15A33ANCOM/BY126/	3
CICE	1 76489A/LM386/74LS74/74LS04/74LS08/ 7 16L8A/AS885/AM29863/LS641/AM29845/25LS2521/LS374/LS645/F74/ 1 276-1020/2N3906/	5 9 3
DEID	2 68020/LS181/ALS74/F00/ALS02/LS11/F64/S38OC/ 2 6802/6850/6522/2716/74LS541/74LS139/74LS10/ULN2003/LM7805/	6 9
BUILD THIS	1 Z84C00-4PS/Z84C20-4PS/2114L2/2732A/74LS32N/74LS08N/74HCT04/	9
APNO	2 6802/555/74LS04/74LS138/74LS00/ 1 68000/68901/MAX232/PAL16L8/PAL16R4/74HC4020/74LS366/LM555/	5 9
COSC	1 386/	1
COAPNO	4 6802/2716/8T97/7420/DAC08/74C373/741/DAS0817/7402/555/1489/ 7 P8035/P8243/8748/ZN447/ZN448/ZN449/74LS373/1414/MOC3020/7407	5 5
DENO	1 Z80CPU/Z80DMA/74S374/74S74/	7
IDDE	1 PA25/1N4148/ 1 CA3130/2N5401/78L05/1N4148/1N914/ 8 MAX232CPE/MAX691CPE/LM324/68HC11/27C64/74HC374/6264/ULN2003A/ 3 MAB8035/74LS373/SAA1099/27C64A/TDA1011/TDA7050/HEF4511/	1 3 9 7
SCOR	3 DAC1201/VIA6522/74175/7400/7407/425E/741/ 2 MA322/UA777/ZTX3711/ZTX450/7460/	8 4
COMI	1 GAL16V8/ESS6003/1N4148/	1
INPOCOSYDE	2 MCTA20P50/ME601215/DSP56000/RUR860/	1
FEAR	3 MC146805E2/6551/74LS374/74LS373/74LS244/74LS139/2716/2016/ 3 MC3357P/4066/4016/4017/TLC556/2N2907/2N2222/ITT312/1N4148/	9 9
DOSPRAMEA	2 MC10131/MC10116/109/105/102/	5
GLAT	2 ICM7216D/LM339/74LS90/7408/7400/2N4124/1N914/ 2 MC6800/MC6875/MC6854/MC6844/MC6880/MC6889/MC6885/74LS112/ 1 MC33034/MPSW01/MPSW51/MPSA44/MPS2222/MTP3055E/MTP10N10M/ 1 TCM3105JL/2N3904/1N914/	3 9 9 4
TEBR	1 MC14519B/MC14069B/MGP5N45/P6KE200/	5
ENHANCING	8 MC6803/6821/27128/62256/6264/AD557/78S40/MAX232/74HCT573/ 2 MC10137/MC10131/MC10105/MC10116/	4 9
VLSI DESIG	1 5C121/8097BH/8097-90/27C256/8797BH/	3
POMASE	6 RC3403A/RM4151/MM74C926/DS75492/74121/7492/7490/555/LM309K/	4
UPGRADING	2 MC68HC705C8P/USC2240/MAX232/UGN3019/LM317/78L05/IRF512/	9
TECH TIPS	1 BC108/TIP3055/BFY50/40106/C106/	6
COAR	1 MC3403P/BFR90/MFR901/PN2222/1SS99/ECG112/ 2 MC146805E2/74C373/2716/27C16/7581/741/747/MC14412/74C00/	4 5
CICICE	4 HD64180/MC145406/74LS138/27128/74LS374/41256/74LS157/74LS74/ 3 CD4027AE/CD4002AE/CD4009AE/CD4011AE/LM311N/LM209/276-2427/	9 8
DESIGNER'S	1 CD4044/CD4047/CD4069/CD4023/CD4001/	8

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FEAR	3 HD641016/SN751768/MC145406/74LS373/74LS245/74LS244/74LS165/ 1 AD637J/TSC7660/1N914/ 1 AD7541/74191/710/13741/	9 2 7
ARTICLES	2 AD846N/LT1010CT/AD712N/2N5457/79M06CT/78M05CT/BC5488/LM833/ 1 AD536A/CA3140/UA741/	9 5
PROJECT	2 CD4017/CD4060/CD4013/CD4073/CD4050/78M05/MOC3021/IT48/2N3904	8
DOSPRAMEA	2 CD4098B/8211/2N3643/2N3638/1N462/ 1 AD521/TL191/TL081/HA2405/LSI11/	2 5
CICI	6 CD4047BCN/CD4046BCN/4049/2N3904/	6
APID	1 AD7520/AT2504/LM311/741/	6
INTERNA(E)	1 TEA1010/BT137/BA317/ 1 NE555/CD4001/RS276-2028/2N2222/RS276-2009/ 1 NE555/TIP3055/2N3055/	2 6 2
CIID	1 BF199/BFR96A/ 2 LF356/MC68701/AD567/HM6264LP/74LS139/MCS6522/MC10231/74LS86/	5 9
CICI	7 LF353/4017/4049/IRF511/IRF731/2N3904/2N3906/2N2222/2N3638/	3
PAPERS	1 DF80/CA741/7915/7815/TIP47/BC214/BC184/BC143/BZY88/IN4004/	8
DESIGNER'S	2 LF155J/2N4856/MPSA42/MC1741/2N3906/MC14001/1N914/MJE350/	9
FUSION	1 SG2500GXH22/	2
TECHNIQUES	1 TIC206M/BC212/BC182/1N4148/1N4001/	3
POSUBACH	1 TIP147/BD642/TL431LP/SB530/1N4148/ 1 TIP31C/4050/1N914/1N4004/1N4001/1N4148/	2 2
DEID	1 TIP30/TL431/	2
HANO	1 MJE340/6EA8/	2
POSUBACH	1 MJ3001/TL431C/B80C5000-3000/	3
PAPERS	2 ML4812/IRF450/MUR1560/MUR460/BYM26C/	4
STATE OF S	2 TL431/LM111N5305/	2
ARTICLES	8 TL071/1N4002/BDW84/BDW83/BC560C/ 2 TL064/ZN448/741/74LS138/74LS20/LS02/4047/4093/	3 6
CIID	1 TL082/MCP3040/C206D/1N4148/LM334Z/7812/ 5 LM339/1N914/4030/2N2222/2N3702/1N4735/ 1 LM723/MC7805/MC7905/BD131/1N2001/1N4001/	5 9 4
DESIGN ENT	3 LM358/MPX2010D/MPX2200GP/MOC3009/2N6072/1N4004/MPX2050GP/	4
CICI	3 LM324/LM386/2N3904/1N914/ 2 DM7483/DM7486/DM7408/DM74194/DM7493/DM74121/DM7432/DM7400/ 2 LM318/2N3819/TIP30/TIP29/1N914/1N4002/MPF102/	3 9 9
APPLICATIO	1 LMC6202/ 3 LM322/TL082/BFX34/BFX41/ 2 TMS4016/2716/74244/74174/74193/7408/74138/7406/	2 8 2
CICI	5 LM3914/LM1458N/2N2646/4049/555/2N3906/2N3904/1N5233/1N914/	5
APID	1 LM358N/	1
FEAR	1 TMS3477/27C512/TLC2471I/16C54/4040/2N3906/	7
CICI	3 LM317T/2N3055/2N3053/2N2055/1N4001/	2
BUILD THIS	1 LM311/MC14538/2N2222/7808/MBD101/1N5817/1N4148/1N4001/	6
FEATURES	2 LM1496N/LM317T/2N5179/2N5109/1N34/	3
PROJECT	1 LM3914/2N5825/2N6003/1N4148/1N4001/	5
MULTIPURPO	2 LM348/MOC3020/MPS6515/ 1 LM386/555/276-1067/	4 3
SYSTEM DES	1 AM29818/AM2914/AM29334/AM29332/AM29331/	9

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	1 LM1830/555/CD4011BE/74C14/1N914/	4
	1 LM311/TL071/74121/74LS191/TL185/	9
	1 DME3054/UPA102G/	2
POEL	1 LM2903/MC14001/MC14049/2N3904/MJE200/2N3763/MPF930/MJE210/	9
THINK TANK	7 ZN414/LM386/741/C203Y/2N3906/2N3706/IN4002/	2
ARTICLES	1 2N1671/MCS2/MV5024/2N687/HEB20417/	5
	1 2N918/	1
	1 SN74192/SN7475/SN7447/MAN72/	9
FEATURES	1 2N5245/	2
RFFETE	1 2N4222/	2
DESIGN ENT	3 VN2410M/CR100/2N3904/DVD001/VQ5000/D469/CD4069/LM555/1N914/	4
	1 1N914/	0
	2 2N3823/2N3821/1N914/	1
	1 2N3819/2N3904/276-124/	2
CIID	1 ZN429/TL084/74LS273/4066/4016/4013/4011/	6
TRBR	1 MO421/MO414/	2
FUN PROJEC	1 MPF102/MC1458N/1N914/1N4148/	4
TEME	2 SPG8651BN/SPG8640BN/78L05/1N4001/	1
BUDGET PRO	1 MPS6515/VN10KM/1N34/1N4001/	3
IDEAS FOR	1 MPF102/	2
	1 CPP1/NE555/2N3904/1N914/	4
	1 OPA128/	1
ARTICLES	1 SP9685/BFR90/5082-4204/	4
TEME	3 SPG8650B/MM74C925/74LS221/7805/BF245C/BC558B/BC548B/HD1107O/	9
ARTICLES	1 IRF840/2N3904/2N2907/2N2222/1N4004/	6
BUILD THIS	2 JRC3415/TLC548/LM324/MCT2E/CD4066/2N2222/LM7805/1N4001/	9
DEID	1 IRFD4120/IRFD110/IRFD9129/CD4011B/CD4049UB/	6
NEPH	1 IRF840/2N2907/2N2222/BFJ93/BSJ36/1N4148/RG3M/	5
PROJECT	3 TR1863/4013/4069/1488/1489/4011/BC247/4060/4029/7805/4013/	9
	1 CS209/	1
	1 BSX32/2N2222/	2
	2 LS175/LS273/LS151/LS283/S140/DAC08/DAC1006/LF347/MC1438/	8
LETTERS	1 2SK147BL/2SJ72BL/	2
	1 LS7237/1N4744A/1N4148/	1
ATV	6 SSI202P/4514/4066/4013/7805/2N3904/	3
CIID	1 ZTX653/IRF9520/IN916/	2
RADIOCOMM:	3 HT12F/7666/BC558/BC548/SILRX418A/TXM418A/4148/	6
	1 301/348/4528/355/4011/NSL4944/	9
THINK TANK	2 4081/2N3906/2N2907/2N2222/1N914/	5
	1 8038/LM380/741/	5
	1 8038/741/759/747/	4
CIID	1 4047/TIP3055/BC337/BC327/1N5401/	7
APID	1 4047B/4013B/2N3055/2N3771/BC107/BD139/BY255/4011B/	9
DRBO	1 4023/4011/4001/4046/	3
CIRCUIT ID	1 4013B/	1
DESIGNER'S	1 4051/4024/LM324/555/4011/	6
CIRCUITS	1 4049/1N4001/	1
DEID	1 H11G2/MPSA13/C4V3/C24/	2
NUEL	1 9127QB/9128QB/	1

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	1 311/555/7401/7404/	5
40YEAG	1 12A4/6AL5/	3
CIID	1 723/ECC80/BC415/7806/	5
NOTES	1 74LS161/74LS85/74LS151/74LS221/74LS02/	9
DECA	1 741/2N3711/2N3055/	4
NOEX	2 741/	1
DEID	1 74AS163/74AS74/74AS20/74AS08/	6
APID	1 741/	3
	1 741/4016B/OA91/	9
READOUT	2 741/BC107/	1
IDDE	1 74LS157/74157/74LS74/7474/74LS08/7408/7406/	4
IDEAS FOR	1 74LS74/74LS08/74LS02/	4
	1 741/	5
	2 74LS163/74LS123/74LS93/74LS92/74LS90/74LS73/LM759CP/LM348/	9
DESIGNER'S	2 74C901/2N3904/1N5232/1N5246/1N914/	7
ENGINEER'S	1 74LS191/74LS00/	3
	1 741/	2
	1 74121/7400/2N2222/2N1711/	4
LETTERS	1 741/	9
CIID	1 555/IRF240/BC337/1N4148/PL9/	4
	5 555/4013/358/4093/4071/7812/4024/BC237/TIP112/2N6055/2N3771/	9
FACTCARD	4 555/556/1N4002/1N914/	1
	4 356/3080/710/711/0032/0002/741/LS123/LS161A/LS240/F02/F74/	9
CIID	2 7555/BC109/C106D/1N4001/	3
	3 757N/MC1458D/LM741C/PIN3DP/ECG185/ECG184/MV5054-3/84-02120E/	4
IDDE	1 555/317/7815/2N2222/	6
CIRCUIT SP	1 556/4011/7400/741/1N914/	3
HINTS & KI	1 1625/	1
	1 26LS32/74S20/74LS02/74LS10/74S00/74LS03/	8
NUEL	1 16V8/74HC240/NE521/74F74/74LS132/74LS30/74HCT00/	9
IDDE	2 8640AN/ZN428/HEF4528B/HEF4508B/HEF4040B/HEF4017B/HEF4008B/	5
MANO	2 7660/LM555/1N4148/	1
	1 276-1173/	1
PAPERS	1 084/081/1N4148/	2
	2 78G/2N3055/	9
	1 7805/	1
PRACTICALL	1 7824/1N4007/	2
APPLICATIO	1 Z8671/6116/2716/2816/DS1220/74LS373/MAX232/74LS139/LS125/	9
PROJECT	2 78L12/79L12/7812/7912/BC109C/BC184C/BC214C/J500/J507/	9
BUILD THIS	1 7812/1N4001/	1
FEATURES	1 MAX232/1CL232/	1
	3 UA723/SVT6062/UA7230/1N4003/	3
APPLICATIO	7 UA741/UA747M/UA747C/LM107/LM102/LM101A/	1
NUEL	2 CA3140/CA3039/MC1670/MC10116/MC10105/MC10102/2N4275/2N4258/	8
	1 CA3140/UA723/ZX15/BC211/HN22/	5
RFDEAW	1 MA44720/MA44712/	0
LEED	5 UA759UIC/LM311/7404/7405/7806/2N4401/NE555/1N914/UA741/	7
DESIGN	3 DAC703/OPA600/1N5165/DAC90/25L02/SD210/OPA101/IN5228/REF101/	9
APID	1 MAX638ACPA/IN5817/	1

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	1 MAA501/7474/7400/BC108A/BC147/A223/	6
ENGINEER'S	1 DAC198B/324/4029/4016/4013/1N914/	6
TEUP	1 PA89/	2
SIUP	2 MAX139/MAX232/	1
FEATURES	1 SBL1/78L05/MRF901/2N5179/MV2205/1N5231B/	5
APTE	2 ICL8063/MC3340/8038CC/RS305-804/741/2N3789/2N3055/1N827/	9
DECA	1 MC3403/MPSA55/MPSA05/	9
PAPERS	2 HCPL2200/7417/7405/MTP1N100/3N201/2N5638/2N3906/2N3904/	9
	4 MC34074/LM124/	1
RFDEAW	2 MC10H116/MC10116/MC10H131/MC10H121/	5
CLCI	1 ECC81/ECC83/ECL86/ECC82/AC124/RT9448/B250C100/B30C600/	9
NEAPTE	8 AD547L/AD547K/AD647L/AD644L/AD647K/741/MP318/J270/2N4393/	5
FEATURES	6 HD64180SCP10/HM82268P/HN27128AG/SAA5331/SAA5230/LM360N/79L12	5
RASP	2 MDA952-1/MJ2955/MC7805CP/F2/LM317/2N2222/	3
INCO	1 TDA1024/NE556/BT138/2N1711/	5
HANO	1 CD4017A/	1
IDDE	1 AD647/	2
LAST PART	1 CD4007/	1
ARTICLES	1 RD11A/	0
ARTICLES	1 NE604A/LF353/LF351/78L12/78L05/MPF102/2N3904/1N914/1N34/	8
NETWORK EC	1 NE521/PAL10L8/96S02/	3
RFDENO	1 NE21937/	1
DESIGNER'S	1 NE571/741/	2
EQME	1 NE555V/586-447/	1
SPCO	1 LF356/LM318/NE555/2N3019/ID100/	8
	1 LF353/	2
DETECTORS	2 LF347/4069/555/4023/4020/4049/TIS75/2N3640/2N3904/2N2219/	8
PAPERS	1 LF356/	1
	1 IH5010/AD518J/74193/	6
	3 TL074CN/PF5103/2SB7375/1N4001/LM78M15/LM79M15/	6
INMEHIENPH	4 CLC401AJP/2N5771/2N5770/2N4403/2N4401/	5
	6 TL489C/1N914/CA3094A/CA3096/T2302B/T2302D/	6
POSUBACHPI	1 TLC272/7812/BC550B/BD241/BC141/B80C3200-2200/1N4001/	7
	1 TL084/1N754A/	2
DENO	1 TL075/2N3819/BC107/1N4148/	5
PANENE	1 LM339/TL084/	2
	9 LM339/NE555/7400/	3
TECH TIPS	1 LM3914/276-026/276-037/1N4733/1N4739/276-1707/276-562/	1
DESIGN	1 AM2904/AM2903/AM2910/AM29775/	5
	2 LM339/LM393/1N914/	1
	1 LM3914/1N4738/1N4739/	1
DESIGN ENT	1 AMPAL23S8/AM29841/AMPAL22V10/	5
ENGINEER'S	1 LM741/	1
	3 LM320MLP/PM613/1N751/	1
SYEL	5 LM386/74LS164/74LS157/555/74LS86/74LS74/74LS08/74LS02/2N2222	8
	1 LM311/	1
TECHNOLOG`	9 LM3916/LM3915/LM3914/LM2917/LF351/2N3906/2N3904/1N5242/	3
	1 AMPAL22V10/AM29PL141/74S38/	3
	2 LM311/CD4013B/GP415/2SC458/2SD525/10D1/5B1/5B4/UA7812C/	7

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RFDEFE	1 HMD11131-2/	1
CICI	3 LM339/LM317/7808/2N3055/C106A1/2N3906/2N3904/1N4001/	6
NOTES	1 TMM2016/AD7501/74123/ADC0804/DAC0800/CD40105/74273/74393/	9
	1 LM565/741/VFC100/	3
CIRCUITS	1 LM324/	1
APPLICATIO	1 LM2579/IR31DQQ04/	1
REPA	1 LM741/	3
	1 2N2222A/LM317/7805/	3
NEW FRONTI	1 1N23/	0
	1 2N5194/LM317T/1N4007/SA20/	2
RFDEFE	4 2N2369A/	3
FEATURE	2 2N3055/BFY51/2N2297/2N2219/BC182/2N3904/OA91/BC107/BY164/	8
BEGINNER'S	1 1N34A/1N914/	0
	1 VN10KM/LM317/2N2907/7433/7405/1N4003/	6
SPRE	2 2N3906/MPS3639/MBD101/	1
FOUR LOW-C	1 2N2222/1N4001/	4
DECA	1 2N3055/2SB415/2SB186/	7
	1 2N1308/MRD310/MLED930/1N4308/	2
DESIGNER'S	1 2N3391/3140/	3
	1 2N3055/LM340T15/2N4441/MDA3500/	9
	2 2N2102/IN4742/2N3906/IC4011/2N3904/MB2/	8
INSTRUMENT	1 INA105/LM741/	4
BUILD THIS	4 MOC3010/567/741/TLC274/TL084/MJ2955/MJE34/1N5400/7805/2N2222	9
LETTERS	1 OPA627BP/LT1115CN8/AD847JN/LM334Z/	2
DEGU	5 OPA111/OPA128/OPA620/	1
	3 MPS6523/74LS221/MPS6522/74LS86/74LS193/74LS126/555/74LS645/	9
LEED	1 MPSA92/MPSA42/1N914/	2
DEID	1 OP07/40106/	2
DEFE	2 MPS-H31/MPS31H/	1
	2 MRF901/MPSH81/ECG106/2N2222/MCL-SBL1/1N4735/MV2205/MV2105/	5
	3 IRF350/LF356/LM319/74LS74/ZTX451/ZTX502/BZY883V6C/THY500-26/	6
PRFO	1 IRR500/	1
ARTICLES	1 SSM2100/AD524/OP77/L165V/AD548/LM394/ZN423/1N4148/1N4001/	9
PAPERS	1 GS601/IRC644/NA115/A114/	3
BENCH	1 DS2015/74HC14/1N4001/	3
TENO	1 LS193/TBA311/LS221/AM2925/LS14/4508/4069/4017/4050/LS109/	9
RFFETE	5 LT1229/CLC400/EL2003/MAX455/WB05/	1
PROJECT	1 4093/1N914/	1
DEID	1 4047/VN10KM/7663/1N5817/	4
	3 10116/2N3904/LF357/AD7574/AM74LS373/ME3002/DS0026/74F00/	8
	1 4027/4001/4011/92PU10/2N4124/MPSA92/1N4004/	9
COLO	1 80286/80287/80186/82730/8089/8289/80264/8256AH/8272/82289/	9
PAPERS	2 8013/LM339/LM324/IRF641/MJE350/TIP141/2N3906/1N914/	6
DESIGNER'S	1 4049/4584/2N3906/	3
	1 307-957/238-463/	1
NEW FRONTI	1 5082-2900/	0
IDEAS FOR	1 8048/8049/74C00/2N3906/2N3904/1N4148/	7
TECH TIPS	1 4051B/4017B/4001B/	3
CIID	1 J109/LM3046/	2

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CCT CELLAR	1 V130LA10A/276-570/	0
	2 311/307/74123/CD4081/74LS10/7408/7407/4N37/	4
PROJECT OF	1 H11A1/	1
ARTICLES	1 V130PA20C/V130LA20/V130LA10/W6110-DSX1/	1
	1 811A/	1
DESIGNER'S	1 4136/2N4861/1N914/	2
DENO	2 82720/74LS374/2716/74LS244/74S188/74S153/74S155/74S157/	8
CLCI	2 12AX7/6AV6/5U4G/6L6/	6
INMEHIENPH	1 1398/	1
NUEL	1 531/741/74121/7493/7490/7413/BFW11/	9
RFFETE	1 U310/MRF904/IN4608/	4
	6 93448/555/1458/7486/7485/74LS42/7442/9004/74LS04/74LS08/8T97	5
TENO	1 741/	4
DEID	1 74HC374/CA3082/7805/74145/74LS145/HC00/	5
TECHNICAL	1 7474/2N2222/7402/7430/	4
	4 74151/74154/7493/747/7474/555/4066/741/74192/7404/7400/	9
	1 74LS86/	1
NOTO	1 74LS122/74LS00/8T97/74LS175/Z80A/74LS14/	3
	1 741/HEPS0031/HEPS0024/	7
IDDE	1 74193/7442/7406/1771JOD/	7
CACO	2 741/MVS460-2/ZTK33B/	3
HAHA	1 74HC14/MPS6521/EYH-S0210/	1
	1 74LS245/8255/8253/TMS9914A/SN75160/SN75162/	6
HAHA	1 1490/	1
	1 747/	2
COLUMNS	1 741/2N2222/271-110/	2
	1 741/2N2222/	2
CIRCUIT SP	1 7400/BC107/74LS00/	2
BUILD THIS	6 74LS367/74LS244/4040/74LS32/4013/4518/74LS74/74LS01/MPSA06/	9
DESIGN IDE	1 54LS74/54LS05/LM250/54LS02/VN10KM/2N2907A/2N2222A/LM238/	9
	1 741/BZY88C4V7/OA91/1N4148/1N34/	1
DEID	2 74HC368/74HC393/78L05/	2
TRBR	1 741/	2
	1 741S/	1
IDDE	1 74HC14/	0
PROJECT	1 741/2N5248/2N3819/1N4006/TIL209/	4
NEW IDEAS	1 1458/	1
	1 741/RS308-613/	3
	1 7493/7486/741/BC337/1N914/	9
	1 741/	3
TIPS & TEC	1 7400/	1
DEID	2 74LS123/LM339A/LM385Z/1N4148-1/	2
DEID	1 74HC14/1N916B/	1
ABBE	1 85637/BLU98/1N4148/	2
COAR	1 555/CD4011/2N5062/	3
DEID	1 4538B/UA759/4081B/UUA41J1/	3
BUILD THIS	1 555/7808/1N4001/1N4002/1N914/	5
NOTES	3 555/74C74/BC549/RS306-061/7812/BC108/1N914/1N4004/OA91/	4
	3 4528/LM1496/AD7520/REF02/MC3503/LM3045/LM7815/LM723/2N3643/	7

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PROJECT	1 4584/40106/1N4148/1N914/ 1 555/	1 1
APPLICATIO	2 555/1N4148/	1
BUILD THIS	1 556/TIP33/1N4001/ 1 353/351/LM394/ 1 555/CD4040/2N5449/CD4001/1N914/	2 5 5
ELNO	3 555/IRF220/	1
CIID	1 5534/2N2907/2N2222/BD140/BD139/BDT88/BDT87/1N4148/	9
IDDE	1 7611/	1
LETTERS	1 9602/7405/CD4049/1N914/ 3 7652/OP27/H11F2/A1TC1/CD4532/LM11CH/TL064/AD521/2N2323/ 1 276-1067/	2 9 1
WEEKENDER	2 276-1303/CD4063/CD4015/ 3 Z80/Z80PIO/MC6847/MC1372/2114/AM8216/2708/74LS154/74LS367/ 1 7808/	4 9 1
HOME-BREW	1 7808/RS276-1000/RS276-1152/1N4003/RS276-1102/	3
BUILD THIS	1 Z80/2114/74LS139/2516/74LS245/71003/5220/74LS367/74LS14/	9
DEID	1 78L12/EC103D/5818/4004/	3
COAR	1 7812/ECG5312/	2
QRP	2 78LO8/2N4036/2N3053/2SC799/2N2222/ 1 7912/7812/7805/ 4 M957/741/74LS374/74LS32/2532/74LS04/4N33/7805/2N2222/1N4007/	5 3 5
BENCH	1 MAX232/74LS123/GP1U5/276-137/LM555/74LS32/BS170/PN2222/TIL39	7
INTERFEROM	1 PA08/	1
CIRCUITS	9 CA3035/555/4020B/4011B/4001B/VN67AF/2N3704/2N3702/2N3055/	5
2 PARTS	1 SAD4096/NE570N/TL074CN/CD4007AE/CD4013AE/1N914/	5
SHNO	4 CA741CT/BFW11/BY127/1N178/8R202/	1
DEID	1 UA723CN/CA3059/4527/MOC3010/2N4443/4093/4N26/1N4742A/1N4002/	8
APMEBICORA	1 UA741/OPA404/TL071/HEF4066/	4
IDDE	1 CA5470/	1
TEFO	1 CA3085/2N5060/2N3643/5082-4950/5082-4550/1N4728A/1N4454/ 1 SA5204N/OP27/	3 2
DAACSYCI	4 HA2525/MVL407/OPA201/AD7528/10318/HA2641/HA2515/CX20052/OP07 1 UA733C/BFR84/	8 2
DEID	1 CA3130/CD4007A/	2
DESIGNER'S	8 CA3059/ORP12/2N3904/ 1 HA5002/NJ903/J505/2N3904/2N3906/ 4 CA3140/LM308A/LM710/536/741/LM723/LM309/SK100/SL100/2N930/ 1 UA4136/RC4136/	2 5 9 1
IDDE	1 MAX406/	1
TECHNOLOG`	1 NAA2100/MAA2200/MAA2500/MAA2000/MEA2600/TBA2800/	6
APID	1 CA3160/CD4001/BFW10/	3
CIRCUITS	9 TBA8105/TDA2005M/TDA2030/TDA2006/LM2002/TBA820M/LM390/LM383/	3
ARTICLES	1 2B31J/OP27/	4
BUILD THIS	2 SBL1/LM7812/25137/MPSH81/2N3563/2N2222/MV2103/1N759/1N757A/	4
DEID	1 HC74/HC03/1N5283/ 2 MC1374/MPN3401/1N914/	2 1
PRBU	2 ICL7106CPL/LM324/OP77GP/4030/4070/1N4148/H1331CC/	5
IDDE	1 SCL4016B/LM1458/	2

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	1 XC2064/XC1736/27C64/74HC266/PCH1258/PCH1251/	5
DEID	1 MC3403/	1
APPARATUS	1 MC1741CP/1S1588/1S34/	1
TECHNOLOG`	1 ICL7611/ICM7555/	2
DEAP	3 UC1842/SGSP369/L4941/IN3613/	4
DESIGNER'S	1 ICL7631/ICL7612/	2
	1 TCA780/	1
NEW PRODUK	1 UC3840/UES1103/USD735/2N2222/UMT13005/IN3614/IN3612/IN4946/	4
APPLICATIO	1 MC2831A/MPS9426C/	3
	1 MCT272/BC548C/2SD667A/1062/2N3904/1N4001/V130LA2/1N4606/	8
BUILD THIS	1 ICM7107CPL/LM317L/P337ND/1N4004/1N4148/1N4002/1N4732/	4
TEFO	1 MC14585/MC14011/MC14001/	4
APPLICATIO	1 MC3361B/	1
RFAM	1 MC34071/1N5711/1N4148/	1
APPLICATIO	2 ICL7665/TLC555/TIP42/	3
CICICE	5 MC1408LS/LM339/LM301A/NE556/555/CD4051/74125/74121/7495/7493	9
IDDE	1 ADC0804/MM54104/LM386/27C64/4520/SSR1/SSR2/7805/4093/	9
	1 BD139/TIP41A/TIP42A/BD140/	5
	1 CDP1879/CDP1800/CD40107/	3
IDDE	1 AD534/AD547/	3
	5 CD4069/BC107/1N914/LM388/7490/7474/7493/555/7486/7404/	9
PAPERS	1 AD574/AD7542/725CN/74LS139/74139/7432/7404/	6
PAPERS	2 BD236/BD235/BD140/BD139/	6
	2 TDC1009/6116/2716/74LS373/74LS163/74LS74/74LS30/74LS02/	9
	1 AD625/NE555/OP07/3SJ11A/2N6483/AD580/FID13Y23WY/	5
COAR	1 TDA2004/SK9225/BC408/BC414/	4
BUILD THIS	1 CD4013/LM7812/IRF511/1N914/	3
	1 ADC1001/74LS04/74LS20/7805/	5
DEID	1 AD630/AD708/AD524/	3
	1 CD4027B/CD4069B/CD4518B/1N34A/	5
	2 TDA2002/LM148/	3
	6 AD811AN/BUF03EJ/74HCU04/TLP570/2SK372/2N5089/2N5087/NTE55/	6
ARTICLES	3 AD811AN/AD744JN/74HCT08/7805/J112/2N3904/	3
	1 AD515L/LF256/	3
PROJECT	2 CD4081/555/7805/2N2222/	3
	4 AD7523/4051/6501/LM318/LF356/40193/555/4013/4066/4081/741/	9
	1 AD7506/7493/74LS00/7109/	4
PAPERS	1 BD236/BD235/BD140/BD139/	6
DESIGN ENT	1 ADSP1201/ADSP1016/ADSP1401/ADSP1410/	3
	1 TDA2030/IN4001/	1
ARTICLES	4 AD7524/ADC0820/AD7501/MF4-50/LF441/ICM7555/74HCT688/74HCT373	6
COSEBIPI	1 ADC0809/741/7404/	4
DOSPRAMEA	3 AD7572/P27/SD5000/AC74/AC08/BFR93A/BFRG3A/MBR570/BZX84C6V2/	9
IDDE	1 CD4007A/CD4049/	2
DEID	1 CD4007/	1
HOSC	1 HEP725/	1
ENGINEER'S	1 NE555/521-9200/	1
BUILD THIS	4 NE5534AN/4013/4053/TL071/4052/74C14/4011/2N5485/2SC2545/	7
ARTICLES	4 NE592N8/LM6364/PSC2/MHW590/HC30/HC06/HC04/TFM12/MWA130/1N914	8

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>50	1 NEL1320-81/1N4001/	2
APPLICATIO	1 NE542/	1
PROJECT	1 NE555N/7812/2SC945/2SC1384/1N4148/1N4007/1N4733/276-066/	7
ARTICLES	4 NE540/SG1501/LM324/LM301/2N6109/2N5457/2N5296/1N914/	3
RFDEFE	1 NE345L20B/ICL7660/UPC78N05/	3
ANDIINCI	1 NE592/BAV99/	2
APSU	1 HEF4001B/BC548/BC558/BA221/	5
	1 NE555/SN74193/74LS374/SN74123/SN74121/ECG128/ECG5697/	9
NEPRFE	1 REF43FZ/OP290FZ/2N2907A/	3
	2 NE720/NE72089/BC212/IN4148/741/	1
	1 RFP10N15/DS0026/D44H10/D45H10/1N5822/ERC88-099/USD945/	6
FEAR	1 LF356/741/DAC1000/74LS367/74LS30/74LS32/	7
DAACSY	1 LF353/4401/4403/	3
	3 LF351/LF13741/NE565/LM565/UA747/LM747/LF353/RC4558/TL082/	5
BUILD THIS	1 LF412N/IRFZ42/DC2-2-24-12/DC2-2-24-15/710/2N3904/1N5402/	9
CIRCUITS	1 BFR91/	1
	1 SF245/KT326/KP303D/	6
NOTES	1 LF353/LM394/LM7805/HR66/	7
	1 LF444/LF353/IRF120/IRFD9210/IRFD110/2N3799/1N4454/2N2484/	9
	3 LF353/LF444/IRFD110/IRFD9210/IRF120/2N2484/2N3799/IRFF110/	9
CLCI	1 EF86/13D3/EL34/6BJ6/5U4G/	6
PAGECISYTH	1 SG2525A/IRF450/GN135/	3
LEED	1 MGF1412/MGF1402/	4
CIID	1 SG3524/BUZ71/50SQ060/	2
ARTICLES	7 SG3524/IR2110/CD4093/TIL111/LM7812/SK9288/IRFK4H250/35MB40A/	9
NOTES	1 LH0042/LF356/	2
ENNO	1 LH0042/AH0133/74121/	6
STSOST	2 LH0101/	2
	5 TIP147/TIP142/TIP135/TIP130/TIP125/TIP120/BD267A/BD266A/	9
DESIGNER'S	1 TIL209/TLO22/2N3707/2N3702/	3
	2 TIS189/NEC8737/	1
	1 MJ423/1N4007/	1
DECA	1 MJ3001/HS150/	1
	1 MJ1000/LM1458/1N4001/	2
PROJECT	1 MJ4502/MJ802/TIP30C/TIP29C/BC177/BC557/BC107/BC547/BC109/	9
2ND ART.	2 MJ802/TIP30C/MJ4502/TIP30C/TIP29C/BC557/BC547/BC549/BC177/	9
	1 MJE34/	2
BENCH	1 TK11450/CD4538/PN2222/	4
	1 SK206-3/2N3906/2N3404/	7
DESIGN	4 MK5116/MC14418/MC14414/MC14413/MC14407/MC1403/MC14520/	4
TEAR	2 TL494/MJE15028/2N6545/2N4402/MDA204/MDA100A/MR820/1N5827/	5
	8 TL072/LM1037/LM1035/4516/555/4075/741/LF352/4016BE/4518/4051	7
OPINION	1 6L6GC/12AU7/EF86/BY133/CZ4/	4
FEATURES	4 TL071/741/BFR79/BFR39/	3
	1 DL747/74143/7470/LM311/7492/74123/LM309K/FPT110/2N3904/	9
	3 TL074CN/1N4001/	5
APSU	1 TLC3702/TLC271/ZVP2106A/ICL8069/1N4002/	3
	2 ULN2283B/BC109/	2
	2 ULN2283B/BC109/	2

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	2 TL072/7915/7815/1N4003/	2
	1 6L6/6V6/6K6/	1
	1 TL78/MPS3568/2N3638/2N2102/	4
PROJECT	2 TL072/TL071/MJ2501/MJ3001/BC448/BC182/	6
APSU	1 SL6637/2N3904/2N3906/BFY90/	4
DESIGN	3 TL072/NE5532/2N4402/BCY71/BC179/BC461/	7
SATE OF SO	2 ULN3705/ULN3784B/	1
	1 ULN3705M/	1
CICI	3 LM567/LM386/LM741/2N3906/2N3904/1N914/	4
PROJECT	1 LM358/AD590JH/9491/8069/	1
COMMUNICA	1 IM5250/IM52100/IM5200/7406/	7
IDDE	1 LM2907N8/LM29X7/LM2931CT/LM311N/OPB818/2N2222/	5
BUILD THIS	3 MM5321/LM1886/74LS151/74LS93/LM318/4066/74LS161/74LS191/	9
CIRCUITS	9 LM387/LM381/LM381A/LM382/	1
	3 LM555CN/747UA/7812/7805/2N3055/	4
CICI	3 LM386/LM383/741/2N3906/2N2222/1N914/	4
SHPA	1 LM355A/2N5485/1N4148/	4
DENO	1 LM324/BD135/BD132/PNP3055/2N3055/	5
ENGINEER'S	1 LM311/	1
	1 LM380/BC237/OA91/BZX79/1N4148/	3
	1 LM148/1N4148/1N5236B/	1
	1 MM74C04/MM74C909/	5
APTEPH	1 LM311/MTP25N10/VE18/1N4748/	3
TECHNOLOG	5 LM1875/AD711JN/	9
CIID	1 LM311/BC109C/BC158/1N4148/	4
	2 LM10/LT1070CT/1N5826/1N5818/1N4148/SX10LITE/	2
BUILD THIS	1 LM324/4017/LM7805/LM340-5/IRF511/2N2222/2N3904/1N4003/	9
	2 LM318/LH0002CN/FLV116/SZ6.2/1N4001/	5
DECA	1 LM10CH/VN10KM/2N6726/2N4424/	4
ARTICLES	1 PM725J/2N6483/	3
	6 LM363/AH100/LH0044/LM308A/LF411/LF357/LM11CH/LM399/2N4250/	5
FEATURES	1 LM317T/276-1778/276-1067/MJ2955T/276-2043/1N4738/1N5401/	3
	7 LM11/LF411/LF412/LF444/LH319/LM3524/2N6657/LM363-10/LH0101/	5
	3 AM9580/8051AH/SN74LS280/	3
PROJECT	1 LM339N/1N4575A/1N4004/	1
NOTES	1 LM317/1N4002/	1
DEID	1 LM393/CD4013/CD4071/CD4070/CD4069/CD4050/CD4011/IRFD022/	9
	1 LM1496N/LM358/LF351/BC177/1N914/	4
DESIGN	3 LM324/4016/4013/4011/7805/7905/2N557/2N547/1N4001/1N914/	8
ADELSY	3 MMBT3904/CA3127/MMBR5179/MMBTH81/BF992/SD5401/NE5539/J309/	9
PROJECT	1 EM401/1N914/BC548/1N4001/1N4002/1N4148/7805/78L05/2N3904/	2
	1 LM340K5/7805/	1
	1 LM380/	1
	1 LM3900/CD4040/1N914/	4
	2 LMI458/LM394B/LF355/	2
	1 LM733C/MC10116/AT0017A/2N5770/2N3906/2N3904/1N4153/	9
CIRCUITS	1 LM556/NE556/555/TIP120/	3
ELCOCI	1 MM88C30J/LM124/	2
DEID	1 LM324/4013/4093/IRF9530/2N7000/2N2222/MBR20100/IN4740/	9

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DECA	1 LM324/	1
POSUBACH	1 LM2940CT5.0/LM2940T/LS3369EH/	1
NEW IDEAS	1 2N2222/1N914/	2
	1 2N4416A/2N3904/2N3906/	6
HINTS AND	1 1N34A/	0
TENO	1 2N5566/BC107/BC559/BC549/	5
	1 SN54161/5404/2N2369A/1N4148/	8
	1 1N914/	0
	1 1N34/HEPR2501/	0
	1 1N4003/	0
	2 2N5245/BF254/2N3823/1N4148/40673/BF981/	6
	2 1N914/3-500Z/	1
	1 2N3819/2N3823/TIS34/	1
	1 3N167/	1
	1 SN74LS324/SN74121/SN74LS93/SN74154/SN74113/	5
	2 2N2102/1N4001/1N4739/LM386/RS386/1N60/	2
PROJECT WC	1 1N3829A/1N4148/	0
	1 2N3906/2N3904/	8
	1 2N5434/2N3686/2N4220/LF356/2N2219/	5
BEGINNER'S	3 2N4427/MRF479/2N5179/2N3906/2N2222/1N914A/1N4001/	6
	1 2N4402/74LS138/74LS32/	5
HANO	1 1N914/	0
LETTERS	1 1N5400/1N4001/1N914/	0
ARTICLES	2 2N4172/	1
FOREGROUN	1 1N4001/	0
DESIGN FEA	1 2N4427/2N2222/	4
	2 2N4401/2N4403/1N914/	7
	1 2N7000/	4
	2 1N5236B/1N914/CA3140/CD4007/	8
	3 VN88AF/BFR90/2N2369/78GUIC/2N3055/2N1613/74123/VN66AF/BC238/	7
APID	2 2N4403/2N3269A/2N3964/2N4124/2N4250/1N914/	6
COMMUNICA	1 2N5551/KS9377/	1
	1 2N5245/2N5089/2N5088/2N5087/2N3645/2N3643/FD700/1N4446/	9
RFDEAW	1 UNL3840A/74HC02/2N4126/2N4124/	4
CIID	1 1N4001/	0
	1 OP05/	2
	1 MPSA13/CD4006AE/CD4030AE/	4
	2 OP37/OP27/OP07/	3
IDDE	2 OP27/	1
ANALYSIS	1 OP17/MAT04/MAT02/REF50Z/	3
	1 OPA104AM/OPA27/OP27/	2
DETECTORS	1 OP27/NJ132L/2SK147/LM134/	5
STATE OF S	1 OP41EJ/MAT02EH/LM113/2N2222/1N914/	4
NOTES	1 OP07CP/7812/IRF511/1N4148/	7
ARTICLES	1 OP27/2SK162/2N2222A/	9
INCO	1 CQX21/276-036B/	0
	1 MRF138/	2
	1 TRA1000/TIS75/2N5432/	2
	1 MRF264/	2

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	2 MRF911/MRF901/LM317T/276-1778/HP5082-2835/276-1161/	3
RFFETE	1 MRF136/MRF138/MC78L08/1N914/	4
	1 IRF531/IR31DQ06/1N4148/	1
DEAP	2 XR-T82C516/XR-T82515/82586/82588/IN5818/	6
	1 IR740/1N4744/1.5KE400P/1N4005/	1
PAPERS	1 IRF640/MUR1515/	2
BUILD THIS	1 MRF901/	1
PAPERS	2 IRF730/USM140C/SR502/11DF4/28CPQ40/	4
	1 IRFD120/IRF630/IR31DQ06/IR11DQ06/	3
CIRCUIT CE	3 XR2206/XR2211/MC1488/MC1489/2N2222/TIL221/	6
PAPERS	2 IRF640/UES1303/USD945/ECG6240/	1
	1 MRF492/	1
BEGINNER'S	2 MRF262/2N2222A/1N914/	1
	1 IRF9532/IRF532/BC212L/BC182L/1N4002/	6
REPA	2 IRF520/IRF460/IRF150/	4
PAPERS	1 IRFC230/IRFC130/SXS50L60/	3
SPCOFE	1 MRF1946A/2N2222/1N4006/1N914/	2
DESIGN IDE	1 IRFF9113/1N3611/	1
FEATURES	1 IRF531/2N3906/1N914/	2
RFDEFE	1 MRF154/MC1723/RL1009-5820-97D1/IN5357A/IN4148/	3
	3 ERG303D/741/	2
PAPERS	1 XR4202/TL066/1N4858/	2
ELCOCI	1 IRFF9130/IRFZ30/2N6661/1N4742/1N5551/	5
PRTRHOME	1 2SK152/MMBTH81/BFS20/	6
	2 MSA0304/MSA0404/CGY40/	3
DEFE	1 TSC429/6N137/78L05/IRF352/1N914/	8
NUEL	1 CS507/S3204-05/	1
	1 HSMP3880/	0
CCT CELLAR	1 SSI263/LM386/	2
FEAR	1 MSM5832RS/8255/74LS30/74LS04/1N4001/	4
DEID	1 NSM4005A/1N4001/8085/Z80/	2
	1 2SJ48/BC560/BC550/2SK133/1N4148/	9
	1 2SK371/2SK147/	1
CISYLE	1 NSC800/74HCT74/74HCT00/	6
PART II	1 RS2012CJ/RS2042SK/	2
INMEHIENPH	1 2SK322/2SC2295/2SC2223/2SA1226/2SA1022/	7
	1 2SD786/2SB737/J309/	3
ININ	1 RS232CD/FX439J/4098/4047/4021/4015/4013/	8
	2 2SC503/6NC12/10D10/1S1555/SH5J13/	1
	1 NSA1541A/LM301A/LM339/2N5086/2N5210/MC74C925/CD4059/CD4013/	9
	1 MTP5N40/	2
IMAGING AN	1 HTS0025/TDC1007J/10124/HOS050/HDS1015E/	5
IDDE	1 LT1078/LT1101/NPH8-100AH/LT1027/	3
DESIGN ENT	4 LTC1040/74C914/LT1009/LT1019-5/LM134/2N6657/1N914/	3
SPRE	1 LT1006/CD4066/	3
DEID	2 LT1037/LTC201A/74C04/	3
AUDE	3 LT1028/MAX403/RC4560/NE5534/2VN4206A/HLMPD155/1N4148/	2
DEID	1 MTP25N05/BS170/2N6427/MC14069B/1N5250/MR2530L/1N4745B/1N4933	8
	2 DU2880U/MRF134/1N6263/	1

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CIID	1 BUZ11A/BC636/BC558/BC548/IN4148/	5
CLLO	2 PWR-DRV3/2N3055/2N2907/1N4004/	3
	1 LXD34DXX02X/DF411/4553/4049/4023/4040/1N914/	6
BEGINNER'S	6 40673/MPF102/MC1496/2N222A/2N3866/2N3906/1N914/	5
IDDE	1 4051/74HCT393/74HCT132/AD590F/	4
HARDWARE F	1 8088/8251/8259A/CD4040/FD179302/AM2964/8284/8288/8253-5/	7
	1 4093/74HCT245/74HCT541/74HC688/74HC157/74HC137/74HC148/	9
GEIN	1 4060/4017/4011/1N4148/	3
ENGINEER'S	1 711/74174/7430/7404/	8
CIRCUIT SP	1 324/	1
PROJECT OF	1 74193/7489/555/7400/7404/	9
	1 74LS253/	1
DEID	1 74S288/	1
BUILD THIS	3 74LS01/74LS74/4001/1N751A/9368/FND500/LM324/74LS244/4520/	9
THINK TANK	4 74279/74192/MM74C174N/74147/74123/7442/CD4511BCN/CD4002BCN/	9
DEID	1 74HC174/	1
	2 741/BC184/CD4518/	4
COLUMNS	2 741/555/1N914/	2
IDEAS FOR	2 74LS14/74LS03/	2
DESIGNER'S	1 555/2N3646/2N3638/1N746/1N914/	4
SPCO	1 7510DI/TL084/555/	4
	1 276-1067/276-1770/	7
CIID	2 071/	2
CICICE	1 78S40/27256/LM317/PN2222/PN2907/1N270/1N4148/	8
PAPERS	2 Z80PIO/ADC0820/DAC0830/BB3652/UA759C/LM360N/LM358/LM101A/	9
FIIM	1 68030/68882/8530/DSP56001/AM7996/	4
TEUPCOSU	1 68030/68882/8530/AM7996/	3
	3 UA748/UA741/	2
	1 UA747/UA741/	2
EXPERIMENT	5 GAP01/558/	1
PROJECT	2 DAC0808/LF311/LM308/741/CD4029/4029B/4093/CD4001/4001B/LM317	8
	3 MC1350P/LM380/MPF102/40673/2N4124/1N914/1N34A/	3
SPRE	1 MC6801/MCM2716/MC6850/MC6840/	4
AUHIFI	1 PCF3523P/	1
DENO	1 MC6809/MC146818/74HC138/74HC04/1N914/	4
	5 MC34012/4N26/MC145422/MC145428/MC14403/MC145426/74HC393/	6
	1 MCD521H/	6
	3 HCPL2200/IRFD9210/BF259/IRFD210/C122M/S1722-02/	3
APPLICATIO	2 UDN2998W/AD7628/AD7669/TLC272C/LM339J/NE555N/74HC00/AD7820/	6
	1 CD4014B/CD4040B/CD40107B/CD22401/CD4022B/CD4060B/	6
UCDETE	1 ADH8586/SHM4/6821/7473/74157/	5
	5 2D21/6C4/D26G1/D26E5/MT2060/MMT807/2N2857/HMN914/1N5139/	5
BREAKTHROU	2 CDP1861/7474/74L00/	2
	5 AD651/AM26LS31/AM26LS33/TIM9904A/74LS121/AD654/6N137/74LS629	9
SPECIAL FO	6 NE5534N/LM377N/LM387AN/TL074CN/1N4001/	2
	6 NE5532/UA733/UA741/LF356/74HC4316/74HC4351/74HC4016/74HCT405	6
	2 LF398/ADC0800/DAC0800/8255A5(II)/8253-5/74LS245/74LS74/741/	9
ELDERE	2 MF10/LTC1062/MAX280/	1
	1 LF351/	2

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	2 TL080/3N211/40673/2N4401/2N2222/1N914/	3
	2 SL6440/	1
TEUP	1 TL852/TL851/	2
DEAP	8 CL-GP340/ALS518/AS373/GAL20V8/GAL16V8/LS245/LS273/LS244/AS10	9
PAPERS	1 ULN2003/	1
CIID	2 TL074/4066/4017/4011/7805/BC549/	5
CICICE	2 TL852/TL851/CD4049B/CD4029B/44D9R03/ICM7224/1N4148/	4
	5 LM340-12/LM150/2N3055/1N4002/	1
TRBR	1 LM324/	3
	3 LM331/LM308/COP420/CD4066/CD4040/CD4017/MM74C74/MM74C14/4N28	9
	2 LM387/LM384/LM555C/X9103/X9503/X9104/	5
CICE	5 HM7603-5/8155H2/8088/M1116-8M/8288/8237A5/4164/8253-5/	9
	1 LM13080/UA774/MC14528/2N3569/2N3643/2N4356/1N4002/	7
IDDE	1 MM74HC4052/74HC393/LM339/74HC14/	5
BUILD THIS	5 LM1496/MC1350/LM386/74LS74/MPF102/2N3904/2N2906/2N2222/1N914	9
	2 LM555/1N60/1N4001/	1
IDEAS FOR	3 TM6402IPL/74C917/74C221/74C157/MC14024B/MM74C02/MC14040B/	9
	1 LM301/1N82/	1
COAR	1 FND503/2N4403/2N3904/	9
	1 1N914/	0
	2 MN90052/HA4741-5/IH5045/CA723H/LF156/AM7820A/HK02/	9
	1 SPO25A-AL2/CTS256A-AL2/TMS4016-25/74LS373/74LS138/LM386/	7
	2 MPQ6100/2N5087/2N5210/2N3823/J108/J109/1N5314/1N4148/	9
CAHARA	3 SRA1/SBL1/	1
	1 XR2208/DACIC8B/ADCEK8B/555/741/74LS191/4011/4013/4042/74LS85	9
PRTE	2 3SK165/3SK166/	1
BUILD THIS	1 SSI204CP/11204/LM556/TS117/MOC3010/LM741/74LS00/7400/7805/	7
POWER COMI	2 HV13/1N4005/2N2905/741/	2
	2 CX20096/SP9680/HLP118/HPL118/MC10125P/MC10124P/74S74/ZTX510/	8
	2 4027/4011/1N914/2N3643/	2
APPLICATIO	1 8052AH-BASIC/6264/74C922/74LS374/74LS373/74HC138/74LS08/	8
ANRA	1 80/76/41/6K8/6K7G/6Q7/	6
DENO	1 8038/741/	2
	2 50SQ100/SG3526/2N6802/IRFF432/10DL1/10D6/1DMB40/	2
CIID	1 4059/4033E/CD4013/BC548/TIP30/	5
	4 8044B/78L05/2N2222/BS170/2N3906/2800-2835/1N34A/2N5486/	3
DRAWING BO	1 4017/4518/4049/555/1N34A/	4
	4 8044/4528/4518/4511/4077/4066/4049/4047/7808/2N4356/2N1613/	5
	2 C126/C106/1N4007/	1
CIID	1 9368/7486/FND500/	6
RFSPRE	1 74LS163/74S74/74S04/74LS04/	4
DESIGN	1 7400/	1
NOTES	1 741/	5
	5 74LS390/AD7531/13741/OP7/OP15/AD581/74LS04/74LS27/74LS191/	9
	2 74192/74157/75451/LM309K/7473/2N3055/1N4148/MV5024/	9
SOIR	1 74LS123/74LS00/555/	3
CIID	1 74148/74154/7475/7493/7486/7408/	6
	1 74123/7413/7408/7400/4082-3/D40K/2N2222/1N4001/H11/	9
HOME BREWII	2 555/74C923/2716/74193/74121/7400/74LS244/	6

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FOREGROUN	1 556/	1
TECH TIPS	1 555/74LS123/74LS00/	3
	1 555/	1
	1 2650/2651/82S115/82S114/HEF4515/HEF40098/8T98/745373/MC1489/	9
TENO	1 061/4098/4511/4534/2SC/8650B/	9
	5 Z80/2112/4066/74C922/74LS245/74LS138/7495/74LS75/7413/7404/	5
	1 GAT1-010/	3
CIRCUIT CE	4 MAX232/74LS245/8031/74LS373/2764/7407/7805/7491/74164/7486/	9
SINO	1 CA3001/	1
SPCO	2 CA3078B/CD4046B/AF100-2/565/747/741/MPS-H10/MV1405/	6
	2 BB4203J/741/UAF355TC/BZY886.8V/	5
	2 MC68000/MC68010/74LS244/74LS640/74LS138/MC68230/MC68681/	9
	1 MC68705P3/HM6116/CD4040B/LM7805/4N33/1N914/1N4148/	5
IDEAS FOR	1 MC14015/MC14585/MC14069B/1N4148/	4
ELNO	7 ICM7209/MM5369/4046/4017/4011/2N2646/2N4891/2N2222/	3
ARTICLES	2 MC1433G/2N4125/2N4123/1N914/	6
QRP	1 CD4066/	1
RFFETE	5 CD4049/CD4011/CD4007/	1
	2 CD4059AE/CD4046BC/MM5369EST/CD4518BC/MM74C90/CD4049C/2N305E	9
TENO	2 AD558/CD4060/CD4098/CA3401/CD4059/CD4020/CD4027/74121/MPS918	9
AIANCH	1 CD4066/7555/CD4001/ECG5600/2N2222/PR5534S/1N21B/	7
	2 CD4050/CD4049/	1
DEID	2 CD4051/4024/CD4093/CD4081/CD4070/BC547B/1N4148/AA119/	9
COSC	1 NE558/	1
ARTICLES	8 VFC100AG/LM318/LM741/74193/74192/7473/4013B/74LS04/7404/7805	5
POEL	1 LF356/4N28/2SK176/2SJ56/2N3904/BC160/BC140/	9
ARTICLES	1 LF356/MPSA55/MPSA05/	4
CIRCUIT BL	1 BF241/OA47/	1
	1 MGF1412/MGF1402/	3
	1 MK5086/380/741/2N2222/1N914/1N758/	6
QRP	2 6L6/5U4/	1
	6 TL064/2N4401/4013/2N2222/2N6076/1N5818/1N5817/1N4001/1N4148/	9
PAPERS	1 TLC271/2N6483/	2
SPCO	2 TL084/79L15/78L15/SC141D/1N914/	2
ELECTROPHC	1 TL061/4011/BC547B/	3
	1 LM3914/2N2905/	9
	1 DM8097/DM7097/SN74367/74C922/	4
ENNO	1 LM3911/1N914/2N3055/TIP20/	2
	9 LM311/E421/U431/3N140/DG402/DG400/LH0002/TL084/MC1496/TL072/	5
FEATURES	3 LM339/6821/MC14529/MC14050B/276-116/25-931F/	5
	1 LM386/1N34/	1
EXCO	5 LM386/4046/8703/74154/4049/741/556/	2
FEATURES	3 LM317T/2N3607/2N2222/1N914/	2
	1 MM5369/	1
	1 AM685/MC10102/2N5770/2N4258A/1N4154/	9
SUPA	2 LM311/7109/7226A-EV/74191/74190/74121/74109/SK3244/SK3083/	8
SUMOTE	2 LM308/567/1N914/2N2907/2N2222/	2
PAPERS	3 LM334Z/BC558/BC549/MFOD71/BAR28/	5
	4 LM358/74HCT4046A/74HC390/MC14066/MC14017/2N4304/2N3906/	4

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TELEVISION	1 1N64/	0
FACTCARD	7 2N3906/2N3904/2N2712/2N2222/	2
NATE	1 2N930/	1
	1 1N1763/	0
	2 2N4220/1N645/1N914/	1
BEBE	1 1N34A/	0
UNDER CON	2 2N5179/1N914/	2
DRAWING BO	1 FND500/4511/4508/4518/4049/4017/2N2222/555/1N34A/1N914/	9
	1 1N34A/	0
	1 2N3904/	1
	1 2N5551/KN22B/BZX180/	8
FIRST STEP	2 2N2222/2N3866/	1
PROJECT	1 1N34/1N60/	0
CIRCUITS	3 2N2222/MPF102/	1
FIRST STEP	2 1N34A/01A/6C5/6C4/	2
10 SHORT P	2 1N4747A/1N4004/	0
	3 2N3819/MC1350/1N34/1N914/7812/276-1152/276-1771/	2
	1 2N5486/	1
	1 2N2222/LM309K/	8
CIID	2 ZN425E/ZN427E/6522/531/741/74132/7473/ICL7660/1N4148/	6
UNDER CON	3 MPF102/2N2222A/NE555/2N3904/1N914/	3
INCI	2 IP3P01/IP3P00/SG1528/	2
BEGINNER'S	4 MPF102/2N2222A/2N3906/1N914/	7
RENO	1 MRF901/	1
PHEL	1 MRF901/	1
BEGINNERS'	1 MRF472/1N914/	1
	1 MRF901/	1
IDEAS FOR	1 KR9602/COM8146/TIL116/7414/	5
	2 2SD820/2SC2073/2SA966/BYW36/PR1006/3JH61/S529SG/05Z15Y/	3
NUME	1 TSC426/IRFZ42/MR818/	2
TECHNICAL	2 3SK35/3SC371(0)/CA3140E/MPS3394/BC547/2N3704/	2
TENO	2 BTX18/BTY79/4528B/4050B/	1
	1 CX1535/	1
	1 HY2/2N5551/	2
APNO	1 SY6545/74152/74138/	3
LETTERS	1 5368/	1
DENO	2 74128/74LS112/74LS74/74LS00/74LS04/	5
	1 74F11/74F04/74F00/	5
	1 ICM7207A/ICM7208/CA3130/	3
PROJECT	3 CD4082/CD4017/CD4013/CD4001/1N4148/1N4001/	7
	2 TI75452/HFBR2201/54HCT04/HFBR1201/	1
CICE	2 TMS9918A/4116/74LS00/2N2222/	6
PROJECT WC	1 2N2222/1N914/	2
DESIGN SOL	1 LT356/LT1012/LT1011/LT1009/2N2222/1N4148/	8
	1 LTC1052/2N3906/2N5846/2N5486/74S132/HP5082-2810/1N5712/	9
	1 J201/1N759A/	1
APNO	1 7414/7408/2N3904/	5
	1 2N3055/	2

CCT,C,135

IN CCT JUNCTION TESTER TO CHECK ANY SEMICONDUCTOR JUNCTION WHILE IT IS STILL IN CCT, INCLUDING ~1H
9V PS.

CH TIMER THAT CAN BE CONNECTED TO MOST TYPES OF CH ROOM THERMOSTATS, TO ACTUATE CH BOILER FC
IC TESTER USING UP., EPROM. WITH 2KBYTE MEMORY, & ADDRESS DECODER/CCT SHOWING CONNECTIONS TO
WD 1000 WESTERN DIGITAL DISK DRIVE CONTROLLER CARD TO SS 50 HOST INTERFACE, PLUS 3.75K MEMORY
PH METER CARD THAT IS PLUGGED INTO EXPANSION SLOT 1 OF APPLE IIE PC., USING ADC. & SH. AMP./STEPPER
RS FF. USING 2 NAND GATES TO DEBOUNCE SWITCH/MOD. DEBOUNCING CCT WITH HYSTERESIS/CCTS USING O

3V TO 15V REGULATED BENCH PS. WITH ADJUSTABLE CURRENT LIMIT FROM 10MA TO 2A
2- TO 4-ELECTRODE CONVERTER USING OA. THAT COMPARES POTENTIAL OF CONDUCTOMETER TO DIFFERENC
UC SUPPLY WITH 4 OUTPUTS/VARIABLE 0 TO 30V, 4A BENCH SUPPLY/BATTERY-CHARGER CCT/STEP-UP CCT WIT
3W 38-253MHZ VFO./10W HF.-VHF. OSCILLATOR

2M (144MHZ) PREAMP. USING TEXAS INSTRUMENTS (TI) HIGH-GAIN DUAL-GATE GAASFET., WITH NF. OF ~0.5 TO 0
PC (PHOTON COUNTING) & DC (DC. AMPLIFICATION) CCTS, & RC. FILTER NETWORK TO SEPARATE PULSE & DC. C
PM (PHOTOMULTIPLIER) ADC. AMP. (CHARGE-INTEGRATING AMP.) WITH FET. INPUT, CASCODE STAGE AMP. PRO
5V DC., 10A PS. WITH OUTPUT CURRENT LIMITING/PLUS-MINUS 12V DC. PS.

5A STABILIZED DC. PS. THAT CAN SUPPLY 80W AT 13.8V

\$6 8-BIT 3-CHIP LOGIC ANALYZER USING 2 CASCADED 4-BIT DIGITAL MAGNITUDE COMPARATORS, QUAD 2-INPUT
PH METER INTERFACE CCT FOR APPLE MICROCOMPUTER, THAT CONVERTS VOLTAGE SIGNAL INTO RESISTANC
4- BY 4-BIT SEQUENTIAL MULTIPLIER/4- BY 4-BIT COMBINATIONAL MULTIPLIER/SINGLE-CYCLE CLOCK/8MHZ CLOC
GM TUBE COMPENSATOR THAT STORES BACKGROUND COUNTS TO CANCEL EQUAL NUMBER OF PULSES FROM
CQ SENDER PROGRAMMED TO CALL "CQ CQ DE VU2ARC AR-BAR K.", USING DIODE ARRAY, MUX. & DEMUX./IMPR
IF CCTS FROM IEEE 488 BUS TO BCD. INPUTS OF DECADES (BBB)

5V REFERENCE PULSE GENERATOR GIVING RISETIME (T_{IR}) OF 1.8NS & PULSE REPETITION RATE OF 10KHZ

DB METER/RMS. TO DC. CONVERTER/LOW NOISE 60DB (X1000) AMP. & 2 POLE 20KHZ LPF.

64 CHANNEL DIGITAL PHOTON CORRELATOR THAT IS OPERATED BY 1MHZ CLOCK & USES 1K RAM. & 7 SEGMENT
RS BISTABLE MULTIVIBRATOR USING NON-INVERTING GATES FROM TRISTATE IC

ID TIMER FOR STATION, TO KEEP TRACK OF ELAPSED TIME BETWEEN ID'S, USING 6 CMOS. LOGIC IC CHIPS, 7-SE
ID REMINDER THAT VISUALLY OR AUDIBLY REMINDS YOU THAT IT'S TIME TO GIVE CALLSIGN, USING TIMER & HEX

2M TRANSCEIVER FREQUENCY SCAN CCT

1A POWER AMP. TO DRIVE COILS, CONSTRUCTED AS VOLTAGE-TO-CURRENT CONVERTERS/10A POWER AMP. FC
UC INTERFACE TO 128KBYTES CMOS. SRAM., USING MICROCONTROLLER WITH CAPABILITY TO DOWNLOAD & EX
HO SCALE END-OF-TRAIN DEVICE CONSISTING OF ELECTRONIC BOX WITH FLASHING LIGHT MOUNTED ON LAST

5V SUPPLY INCLUDING MOMENTARY BACKUP

RS 232C & 20MA CURRENT LOOP (ASYNCHRONOUS SERIAL COMMUNICATIONS) INTERFACE USING ACIA., FOR US
5V PS. USING VOLTAGE REGULATOR, INCLUDING LED. & SERIES CURRENT-LIMITING RESISTOR TO PROTECT LED

5V PS. OF LARGE (6IN) 7-SEGMENT 4.5-DIGIT LED. DIGITAL DISPLAY UNIT USING 7-SEGMENT DECODER CHIPS, FC
ID PROCESSOR USING LINEAR PREDICTIVE CODING (LPC) VOICE SYNTHESIS PROCESSOR, UP. & EPROM.S (2)/SP

XE FLASH LAMP PULSE CCT INCLUDING EG&G THYRATRON, THYRATRON DRIVER, 350HZ DATA PULSER, 10KV PS
IC TESTER'S MAIN BOARD BUILT AROUND UP./DRIVER BOARD PROVIDING INPUTS, SOURCING OUTPUTS & SINKING

5V BUCK-REGULATOR SWITCHING CONVERTER (WITH 200MA OUTPUT CAPABILITY) USING FLYBACK WINDING ON
IC DESIGNER USING Z80-CPU., Z80-PIO, CUSTOM PEEL (PROGRAMMABLE ELECTRICALLY ERASABLE LOGIC), SRA

1W 100MHZ OSCILLATOR INCLUDING DISCHARGE TUBE & LIGHT SENSOR, & COMPARATOR & AMPLITUDE CONTR
2- & 3-DIGIT LED. DISPLAY BOARDS (2)/VOLTAGE, OIL-PRESSURE, WATER-TEMPERATURE, MISCELLANEOUS TEM

IC REGULATED GEL CELL BATTERY CHARGER PROVIDING CONSTANT VOLTAGE REGULATION/2-STEP BATTERY C
PH METER USING DUAL MOSFET. INPUT OA. WITH 10⁴13OHM INPUT IMPEDANCE, FOR SLOPE CONTROL & TO GEN

7W RMS. QUASI-COMPLEMENTARY VMOS. AMP./7W CLASS A AMP./PULSED TONE GENERATOR/VMOS. TIMER/NOI
IC SYSTEM FOR USE IN VHS FORMAT VIDEO SIGNAL PROCESSING (BBB)

PH METER MODULE OF BOX THAT CAN BE DVM., PH METER OR CALORIMETER/CALORIMETER MODULE USING NT

PH METER USING OA./LIGHT DETECTOR THAT, WITH 9V BATTERY WITH 200MAH CAPACITY, LASTS 15YR, USING C
80 TUNE COMPUTER/ALTERNATE RING DETECTOR CCT
ON GROUND IN-AIR BATTERY TESTER USING AUXILIARY CHANNEL & THROTTLE, INCLUDING VOLTAGE MONITOR
PH ADAPTOR/EVENT MARKER/DEMODULATOR & MONITOR, USED FOR PH & EVENT DEMODULATION AT REPLAY,
PM (PHOTOTUBE) VOLTAGE DIVIDER FOR MULTIPLIER WITH 12 STAGES
5V & 12V INTERRUPT DETECTOR/OVERVOLTAGE DETECTOR/CONTINUITY TESTER/COMMODORE C-64 PS. TESTER
NO WAIT-STATE CACHE SYSTEM FOR FAST RAM.S, WITH 4 XNOR- & 1 AOI-CONFIGURED COMPARATORS, WITH LC
6M AMP. RF. SECTION/SCREEN OVERCURRENT-PROTECTION CCT/PS. SECTION
2M TRANSCEIVER
16 CHANNEL ADC.
12 BIT 16 CHANNEL ADC./+10V ANALOG AMP./12 BIT DAC./0-20MV ANALOG AMP.
PT FILAMENT CONTROL CCT/FILTER & AMP. TO PROCESS FILAMENT CONTROL VOLTAGE/CCT TO SENSE ONSET
2M FM. RECEIVER USING INTEGRATED DBM., & FM. IF. SYSTEM CONTAINING IF. AMP., LIMITER, FM. DEMODULATOR
80 & 40M, CW. & SSB. HF. RECEIVER USING FM. RECEIVER CHIP WHOSE OSCILLATOR & MIXER SECTIONS ARE US
16 CHANNELS OF PORT MAPPED TRS-80 ADC. INTERFACE/CCT TO SAMPLE DISCHARGE RATE OF CAPACITOR
12 BITS ADC. WITH MUX. & PROGRAMMABLE GAIN AMP., INTERFACED TO APPLE II MICROCOMPUTER
1A PROGRAMMABLE PS. USING DAC. THAT ACCEPTS DATA FROM COMPUTER & CONVERTS IT TO VOLTAGE LEVEL
16 CHANNEL A-D BOARD BUILT AROUND CMOS. ADC., TO INTERFACE 8 JOYSTICKS TO TRS-80 MODEL I COMPUTE
13 BIT A-D ENCODER USING SHAKER, SLIDING SCALE CCT, FLASH CONVERTER, 12 BIT SUCCESSIVE APPROXIMA
5V 1A SMPS. (SMPSU) WITH LOW OPERATING TEMPERATURE
2- & 4-LEVEL SERIAL READOUT DRIVERS INSENSITIVE TO INTERPHASE CAPACITANCE, FOR CCD. IMAGE SENSOR
2M PREAMP. THAT COMBINES LOW NF., REASONABLE GAIN, & GOOD BANDPASS CHARACTERISTICS & LOW COST
TX MIXER & OUTPUT STAGES/RF. & MIXER STAGES/OSCILLATOR & BUFFER CCT
CX EXPANDER
SC 4-QAM (4 QUADRANT ANALOG MULTIPLIER) (CONVOLVER) USING TRIODE REGION CHARACTERISTICS OF DEP
2W CRYSTAL-CONTROLLED TRANSMITTER USING PIERCE OSCILLATOR, THAT IS TRANSMITTER & DIRECT-CONVE
3A SWITCHING REGULATOR/CURRENT LIMITED 6V CHARGER/F-TO-V CONVERTER USING SH. & OPTIONAL ACTIVE
SC (SWITCHED CAPACITOR) ELLIPTIC FILTER USING OA.S & ANALOG SWITCHES, IN WHICH SWITCHING OF CLOCK
5V PUSH-PULL SWITCHING REGULATOR/+6V 15W REGULATOR/OFF-LINE CURRENT-MODE REGULATOR THAT PR
12 TO 240V DC. TO DC. INVERTER CAPABLE OF LIGHTING 60W LAMP, BASED ON PUSH-PULL CONFIGURATION, US
2M GAASFET. PREAMP.
HG LAMP CONTROLLER CONSISTING OF WELL-ISOLATED HV. SUPPLY TO IGNITE LAMP, INCLUDING PS., FILTER &
6M LINEAR AMP. USING PAIR OF SWEEP TUBES, PROVIDING 50W OUTPUT FOR 10W IN
PA TONE CONTROL
LR OSCILLATOR THAT, WHEN USED WITH FREQUENCY COUNTER, ENABLES DIRECT INDICATION OF INDUCTANCE
1A CURRENT INJECTOR TO EXTEND READING OF VERY LOW RESISTANCE BY DMM., CONSISTING OF PS., CURRE
TI 8-BIT SERIAL OUTPUT ADC. HARDWARE INTERFACE TO PARALLEL PORTS OF INTEL MICROCONTROLLER
IC VOLTAGE REGULATOR WITH 0.1% LOAD REGULATION & VARIABLE FROM 1.2 TO 37V
IC FM. MUX. STEREO DECODER/TYPICAL FM. RECEIVER (PARTIAL CCT)
5V TTL. PS.
CZ RAM. CARTRIDGE TO PROVIDE ADDITIONAL STORAGE SPACE TO ADD 64 MORE PATCHES TO CZ-SERIES SYN
AT EQUIVALENT SYSTEM USING INTEGRATED PROCESSOR (BBB)/FULL AT COMPATIBLE SYSTEM WITH COMMON
5V 500MA VOLTAGE REGULATOR THAT OPERATES WITH IO. DIFFERENTIALS AS LOW AS 0.1V, TO EASE DESIGN O
G3 FAX CONTROLLER FOR HAM FAX/PRUG V.29 9600 BPS MODEM CCT USING YAMAHA FAX MODEM CHIP USING C
3A MAXIMUM-CURRENT BATTERY CHARGER WITH LOGIC INPUTS TO SELECT 1 OF 4 CURRENTS TO CHARGE NICK
5V TO +-15V CONVERTERS (2)/FLYBACK-TYPE CONVERTER/+15V TO 1000V CONVERTER/35V TO 1300V CONVERT
TI (TEXAS INSTRUMENTS) EVM30 DSP. EVALUATION MODULE (EVM) (PC. EXPANSION CARD) INCLUDING AIC & TES
8K CMOS. RAM. BOARD FOR SINCLAIR ZX81 (TIMEX-SINCLAIR 1000)
5A CONSTANT VOLTAGE-CONSTANT CURRENT REGULATOR, WITH LED. THAT LIGHTS IN CURRENT MODE/HIGH IM

3A SHUNT SWITCH WITH MOSFET.'S LEAKAGE MINIMIZED/CCT TO SWITCH 27A, WITH ON-RESISTANCE OF 0.17OHM
 1A CLASS B CURRENT-DUMPING V.C.C.S (VOLTAGE-CONTROLLED CURRENT SOURCE) (TRANSCONDUCTANCE AMPLIFIER)
 TO CONVERT CURRENT FROM PHOTODIODE (DETECTOR) TO VOLTAGE & AMPLIFY/CCT TO ADJUST POWER OF HT
 1W ATV. TRANSMITTER FOR 70CM BAND, INCLUDING OSCILLATOR, DOUBLERS, DRIVER, VCO., AUDIO & FINAL AMPLIFIER
 HT AUTO PER-CHARGER WITH READOUT, AUTOMATIC SHUTDOWN & CHARGE MAINTENANCE FOR 8-CELL 9.6V HT BATTERY
 X5 LIMITING AMP. BASED MULTIPLIER STAGE WITH DIFFERENTIAL LIMITING AMP., WITH OUTPUT OF 125MHZ AT 20V
 TO GENERATE HV. PULSES WITH INEXPENSIVE AUTO IGNITION COIL, WITH INPUT OF 115V AC., INCLUDING SCR. & DIODE
 2M RECEIVER CONVERTER/LOW-LEVEL TRANSMITTER MIXER & 144-148MHZ LINEAR AMP. CHAIN/VMOS. POWER FET. DRIVER
 32 CHANNEL ENCODER & TIMER, TO GENERATE ADDRESS BITS & STROBE (2)/DMA. INTERFACE CONSISTING OF 5V
 \$5 0.1-OZ. SERVO BUFFER AMP. FOR RC SYSTEMS, WITH ISOLATION, INPUT IMPEDANCE OF 100KOHM, & PULSE LIMITING
 6M (50MHZ) BILATERAL TRANSVERTER, USING DOUBLY BALANCED MIXER/220MHZ BT WITH 28MHZ IF., WITH INPUT OF 115V
 5V BANDGAP VOLTAGE REFERENCE WITH OUTPUT VOLTAGE OF 5.0000V & NOISE OF 1.6UV/P-P IN 0.1-10HZ BAND
 2M FREQUENCY SYNTHESIZER/SYNTHESIZER INTERFACE TO DRAKE TR-22/INTERFACE TO DRAKE TR-33C
 4- TO 20MA CURRENT-TRANSMITTER CCT/CURRENT-RECEIVER CCT/CONFIGURED AS PRECISION ABSOLUTE-VALUE
 6M CONVERTER FOR TUNABLE 10MHZ IF. RECEIVER
 10 TO 15W CLASS C RF. POWER AMP. (FINAL-AMP. STAGE) WITH INPUT IMPEDANCE OF 50HM, FOR 20M & 40M/SWITCHING
 1W CLASS-A (LINEAR) POWER AMP. BOARD OF TW-1 DDS (DIRECT DIGITAL SYNTHESIS) TRANSMITTER, INCLUDING OSCILLATOR
 2M POWER AMP. FOR HANDHELD (TRANSCIEVER) (RIG), USING FET. THAT AMPLIFIES INPUTS FROM RANGE OF < 1V
 ZV (ZERO-VOLTAGE-SWITCHING), ZV-QSW (ZV-QUASI-SQUARE-WAVE), ZV-MR (ZV-MULTI-RESONANT) & QIN-PWM.
 2M CONVERTER (MIXER) USING MOTOROLA LOW-COST DUAL-GATE GAASFET., PROVIDING LOW-NOISE OPERATION
 2M PREAMP./GATED NOISE SOURCE
 5V REGULATOR USING CURRENT AMP. THAT USES PRECISION SHUNT REGULATOR AS REFERENCE, TO REGULATE
 X8 FREQUENCY MULTIPLIER CHAIN FOR UHF., BASED ON MMIC. GAIN BLOCKS/94MHZ CRYSTAL OSCILLATOR
 \$5 MOD. TO TW-4100A DUAL-BAND MOBILE RIG (TRANSCIEVER), THAT ENSURES DETECTION OF UHF. SIGNAL DURING
 SR (SATURABLE REACTOR) ASSISTED SOFT-SWITCHING FULL-BRIDGE DC.-DC. CONVERTOR WITH PSM (PHASE-SHIFTING)
 8W DC.-TO-DC. CONVERTER (INVERTER) FOR FLUORESCENT TUBE (LAMP)/5W CONVERTER FOR MEMORIES & INVERTER
 8W DC.-TO-DC. CONVERTER FOR FLUORESCENT TUBE (LAMP)/5W CONVERTER GIVING +12V & -5V, POWERED BY
 5V STEP-DOWN SWITCHING REGULATOR WITH 91% EFFICIENCY WITH 12V INPUT & 2A OUTPUT CURRENT, USING
 7A 28-TO-5V FLYBACK SUPPLY, USING SWITCHING REGULATOR WITH TRANSFORMER/5V TO +-15V CONVERTER
 5V LOW-DROPOUT REGULATOR USING LOW-DROPOUT DRIVER IC CONNECTED TO DISCRETE PNP TRANSISTOR,
 5- TO 12V BOOST CONVERTER/POSITIVE-TO-NEGATIVE BOOST CONVERTER/HV. OUTPUT CONVERTER WITH OUTPUT
 15 SECTION LC. LADDER & PULSE GENERATOR TO DEMONSTRATE PULSE SHARPENING, USING THYRATRON, NOISE
 "T" MATCHING NETWORK WITH INTEGRAL NET POWER METER USED TO MEASURE NET POWER DELIVERED TO B
 "T" SELECTOR SWITCH/T SWITCH WITH BIAS NETWORK TO MAINTAIN ZERO OFFSET/CROSSPOINT VIDEO-MATRIX
 50% DUTY CYCLE IC TIMER CCT
 AT&T'S UNIX MICROSYSTEM INCLUDING FAMILY OF 5 1.5-MICRON CMOS. CHIPS WITH FULL 32-BIT ARCHITECTURE
 ID'ER FOR REPEATER, WITH 64 CHARACTERS AVAILABLE/ID'ER INCLUDING TIMER CHIP USED IN ASTABLE MODE
 'N' CHANNEL VMOS. OR HEXFET. TRASNSISTOR CCTS TO TRIGGER CERAMIC THYATRON/'P' CHANNEL VMOS. TRA
 6W, 40M MORSE-CODE TRANSMITTER CONSISTING OF PENTODE CRYSTAL OSCILLATOR USING PAIR OF AUDIO-C
 5V, 50MA DC. PS. USING AC.-TO-DC. CONVERTER & VOLTAGE REGULATOR THAT CONNECTS TO AC. LINE
 5V, 0.5A STEP-DOWN SWITCHING VOLTAGE REGULATOR/5V, 5A STEP-DOWN SWITCHING REGULATOR/STEP-UP R
 2A, 0 TO 40V PRECISION PS. WITH ADJUSTABLE CURRENT LIMITING
 5W, 80M CRYSTAL-CONTROLLED RIG WITH DIRECT CONVERSION RECEIVER, INCLUDING MOSFET. OSCILLATOR,
 1W, 9V ATV. (VIDEO) TRANSMITTER FOR 420-450MHZ BAND (70CM), FEATURING FULL VIDEO BW. (5MHZ) WITH BU
 12-BIT ADC. BASED ON 3-COUNTER BIDIRECTIONAL RAMP COUNTER THAT COUNTS SYNCHRONOUSLY IN EITHER
 IN-CCT TRANSISTOR TESTER THAT APPLIES 5HZ SQUARE WAVE TO COLLECTOR-EMITTER TERMINALS & FORWARD
 UP-DOWN COUNTER CCT TO MEASURE PULSE-WIDTH DIFFERENCES, WITH OUTPUT FORMATS OF BINARY OR BC
 16-STAGE DIGITAL SINE WAVE GENERATOR/WIDE-RANGE DIGITAL TIME BASE WITH HALF-OCTAVE RESOLUTION/
 PC-AT-COMPATIBLE SYSTEM USING BUS CONTROLLER TO GENERATE CONTROL SIGNALS FOR LOCAL, MEMORY

RS-485 NETWORK NODE BASED ON MICROCONTROLLER, USING RS-485 TRANSCEIVER ADDED TO EMBEDDED CO
16-CHANNEL GATED PULSE STRETCHER UNIT, WITH 1 CHANNEL DETAILED, FOR USE WITH ACCELERATOR RF.
PT-386-PLUS USING CHIPS & TECHNOLOGIES' NEAT CHIPSET, FLOPPY-DISK CONTROLLER & PERIPHERAL CONTR
16-BIT DMA. CONTROLLER & 32-BIT UP. IN LOCAL CONFIGURATION/IO. SUBSYSTEM WITH CONTROLLER IN REMO
5V-3A, 12V-150MA DUAL OUTPUT DC.-DC. CONVERTER/5V-1.5A, 12V-100MA DC.-DC. CONVERTER/MULTI-OUTPUT C
60-TO-100HZ FREQUENCY SYNTHESIZER/ADC. CCT/PROGRAMMABLE COUNTER/REMOTE LIGHT-OPERATED SWIT
21-SLOT BUS DRIVEN FROM SLOT #0, SHOWING MODELED PCB. TRACES, BACKPLANE CONNECTORS & BACKPLA
BI-DIRECTIONAL AMP. USING JFET. AS AMP. IN BOTH DIRECTIONS, TO SIMPLIFY CCT COMMON TO BOTH RECEIVE
18-BIT ADC. BOARD (2)/LOW-NOISE OA. WITH EXTERNAL INPUT STAGE/DITHER CCT FOR 16-BIT APPLICATIONS IN
RS-232 INTERFACE/DAC./ADC./SSTV. MODULATOR/SSTV. RECEIVE INTERFACE ATTACHMENT TO ROBOT 400 SYST
16-STEP PROGRAMMABLE DIGITAL SEQUENCER INCLUDING CARD READER/LED. ILLUMINATORS FOR DIGITAL SE
PK-232 CONNECT MEMORY TO INDICATE THAT CONNECTION OCCURRED WHILE YOU WERE GONE, USING NAND
UP-DOWN LATCHING SEQUENCER
DE-GLITCH CCT THAT OPERATES AS TRACKING SH., REPLACING TRANSIENTS BY STORED VALUE OF CURRENT S
20-70KHZ VCO. THAT OUTPUTS 50% DUTY-CYCLE SQUARE WAVEFORM & CONSUMES VERY LOW CURRENT, USIN
16-BIT 1'S COMPLEMENT ADDER USING NAND GATE TO ASSURE THAT ZERO APPEARS AS 00...0 (BBB)
PV-10 PIEZOELECTRIC VALVE DRIVER (DRIVING CCT), OPERATING FREQUENCY OF WHICH ADJUSTS FLOW RATE
16-STAGE SEQUENCE ASYMMETRIC 4-PHASE NETWORK WITH 4 OUTPUTS IN PHASE QUADRATURE, WITH PHASE
32-BIT PATTERN GENERATOR USING 4 DIP. SWITCHES, EACH OF WHICH SENDS 8 PARALLEL SIGNALS TO 4 SHIFT
SS-30 HOST INTERFACE FOR WD1000-05 WINCHESTER CONTROLLER/BAUD RATE GENERATOR FOR SS30 BUS
16-32K DRAM. CONTROL CCT/16-32K RAM. ADDRESS-REFRESH SELECTOR/16-32K RAM. PS.
BI-DIRECTIONAL STRIPLINE COUPLER, COMPARATOR & AMP. TO GENERATE LOGIC SIGNAL THAT FOLLOWS RF. P
ZX-80-S-100 INTERFACE CCT TO USE MEM-16151K 16K-BYTE SRAM. EXPANSION BOARD FROM JADE COMPUTERS
RS-232C WIRE-TAP CCT TO ALLOW VIDEO TERMINAL MONITOR TO MONITOR ASCII. COMMUNICATIONS BETWEEN
23-STAGE MAXIMAL-LENGTH PSEUDORANDOM NOISE GENERATOR USING COUNTER & SHIFT REGISTERS/CCT US
IN-OUT DETECTION SYSTEM THAT COUNTS EVENTS (UP & DOWN) & CAN BE USED TO CONTROL LIGHTS & APPLIA
DE-GLITCHER
32-BIT WAVEFORM GENERATOR TO READ CCD. (ASTRONOMICAL DETECTOR ARRAY), BASED ON 32-BIT INMOS TR
NO-BOUNCE PUSHBUTTON DESIGN USING FASTER OSCILLATOR, TO KEEP DELAY-BEFORE-REPEAT-TIME FUNCT
16-BIT COUNTER INTERFACE, WITH ONLY LEAST-SIGNIFICANT 4-BIT COUNTING SEQUENCE SHOWN FOR BREVITY
24-BIT MICROCOMPUTER USING 6 4-BIT UP. SLICES IN PARALLEL, PLUS TTL. CHIPS (BBB)
ET-100 TRAINER BREADBOARD CONNECTIONS TO ADDRESS LINES, DATA LINES & CONTROL LINES OF 8088 CPU.
24-BIT PULSE COUNTER & AMP.-DISCRIMINATOR/CLOCK & ADDRESS DECODER
30-T0-45MIN SMOKE DETECTOR SHUTOFF
IN-CCT TRANSISTOR TESTER THAT INDICATES QUALITY & TYPE BY FLASHING LED., WITHOUT UNSOLDERING FRO
IN-CCT TESTER FOR LINE DRIVER & RECEIVER IC'S
RU-1000 PIONEER REMOTE CONTROL/PET COMPUTER TO PIONEER VIDEO DISK PLAYER ADAPTER
12-BIT ADC. & UP. INTERFACE, USING ANALOG MUX. FOR 8 DIFFERENTIAL INPUT CHANNELS (BBB)
15-SPEED AC. MOTOR SPEED CONTROLLER TO CONTROL SPEED OF AC. MOTOR BY CHANGING CONDUCTION AN
HI-FI AUDIO (PUSH-PULL CLASS AB1, BEAM POWER) AMP. WITH DC. COUPLING BETWEEN DRIVER & SPLITTER/PS
GS-32 32-BIT SBC. USING NS32032 OR NS32016 UP. AS CPU., & Z80B FOR CONTROLLING IO. OPERATIONS (BBB)
Z8-BASIC MICROCOMPUTER USING 4K-BYTE READ-WRITE QUASI-STATIC MEMORY FOR WHICH TYPE-2716 OR TY
80-COLUMN VIDEO BOARD FOR COMMODORE 64
12-TO-6V CONVERTER/12V TO 6, 7.5 OR 9V CONVERTER
IN-HOME CAR RADIO PS. WITH REGULATED 13.4V OUTPUT, TO ADAPT ORPHANED CAR RADIO-CASSETTE PLAYER
WS-1000 TERMINAL USING Z80 CPU. (UP.) TO WRITE-READ DATA TO-FROM CHARACTER & ATTRIBUTE RAM.S OF V
ON-GATED PMT. CCT WITH CUTOFF RATIO $>10^3$ BY SWITCHING DYNODES OF PHOTOTUBE, FOR USE IN MEASUR
12-BIT DAC. REQUIRING NO OA., WITH VARIABLE STEP SIZE CONTROLLED BY HIGH ORDER DATA BITS (ELEN8611
IN-CCT IMPEDANCE COMPARATOR

40-80M QRP CW. TRANSMITTER USING MINIATURE POWER AMP. PENTODE TUBE CONNECTED IN CRYSTAL-CONTROLLED ON-OFF THYRISTOR CONTROL CCT THAT PROVIDES CHATTER-FREE RELAY OPERATION REGARDLESS OF HOW LONG THE KEY IS DOWN.
 12-BIT DAS.
 16-CHANNEL UP.-CONTROLLED DAS./FAST PEAK DETECTOR/FOLLOWER
 ON-OFF TEMPERATURE CONTROLLER
 12-BIT MULTICHANNEL DAS. (TRACKING ADC., USING COMPARATOR FOR EACH CHANNEL) (BBB)
 15-CHANNEL PWM. ENCODER OF BIOTELEMETRY SYSTEM USING PWM.-FM./15-CHANNEL PWM. DECODER INCLUDING 15-CHANNEL PWM. DECODER INCLUDING RS-232 PORT FOR COMPUTER USING SINGLE CMOS. CHIP
 10-BIT RESISTOR-BEARING BUS-MEMORY DRIVER THAT REDUCES UNDERSHOOT & OVERSHOOT PROBLEMS IN 4-BIT BUS DRIVERS
 TD-F CONVERTER USING 2 PLATINUM RTD.S & OTA.S IN COLPITTS OSCILLATOR WHOSE FREQUENCY IS DIRECTLY RELATED TO TEMPERATURE
 10-CHANNEL GRAPHIC EQUALIZER
 RS-232-C DRIVER CCT THAT NEEDS ONLY SINGLE +5V SUPPLY, WITH INTERNAL CHARGE-PUMP CCT GENERATING 12V. FROM 5V.
 RS-422-TO-RS-232 CONVERTER THAT ALSO MONITORS 2 RS-422 LINES & CAN INJECT DATA INTO 1, & HAS 2 LED.S
 RS-232-C SERIAL PORT ADAPTER FOR ATARI (OR OTHER COMPUTER) EQUIPPED WITH TTL.-ONLY IO., TO CONVERT ATARI'S SERIAL PORT TO RS-232C
 CA-3140 OA. CCT SHOWING CONFIGURATION OF BYPASS CAPACITORS
 77-K GAASFET. AMP. FOR 20MHZ, INCLUDING 9-K NOISE-TEMPERATURE GAASFET., LIQUID NITROGEN COOLED PENTODE
 13-WORD TALKING THERMOMETER/CONTINUOUSLY-VARIABLE-SLOPE DELTA MODULATOR (CVSDM.)
 ON-LINE PROGRAMMING CCT TO ALLOW USER-DEFINED PROGRAMMING OF GENERAL-PURPOSE CMOS. MICROCONTROLLER
 IN-RANGE FREQUENCY DETECTOR
 RS-232 (SERIAL) PORT INTERFACE FOR C-64 COMPUTER, FOR SERIAL TRANSMISSION, USING LINE DRIVER, LINE RECEIVER & 74LS125
 RS-232 TERMINAL-MONITOR (SERIAL-BUS ANALYZER) (SBA) INCLUDING SINGLE-IC CMOS. MICROCONTROLLER & 74LS125
 AC-ACT LOGIC FOR BUS INTERFACE, USING OCTAL LATCHES TO INTERFACE BETWEEN MICROCONTROLLER BUS & 74LS125
 12-BIT ADC. USING 8-BIT OVERLAYED OUTPUT BUS, PRECEDED BY 8-CHANNEL CMOS. MUX./DAC. INCLUDING OA. & 74LS125
 PI-COUNTING PHASE METER INCLUDING PHASE TO VOLTAGE CONVERTOR WHOSE OUTPUT IS MEASURED BY 4-BIT ADC.
 10-BIT ADC. CCT TO MEASURE VOLTAGE WITH APPLE II MICROCOMPUTER, USING MOTOROLA IC THAT CARRIES 10-BIT ADC.
 KR-5400A COMPUTER INTERFACE THAT OPERATES FROM PARALLEL-PRINTER PORT, FOR USE WITH KENPRO AZ
 16-CHANNEL BIPHASE FSK. REMOTE-CONTROL TRANSMITTER/RECEIVER/DECODER & DATA DISCRIMINATOR/VHF-160M
 12-300V INVERTER USING MOSFET. OUTPUT STAGE FOR MORE (GREATER) RELIABILITY, INCLUDING BIPOLAR TRANSISTOR
 RS-232 TO TTL. LEVEL CONVERTER USING MOTOROLA LINE DRIVER & LINE RECEIVER, TO INTERFACE ICOM REMOTE CONTROL
 12-BIT ANALOGUE IO. BOARD FOR APPLE II MICROCOMPUTER, FOR PROGRAMMABLE DIGITAL AUDIO TIME DELAY
 10-BIT A-D FOLLOWER/DMAC INTERFACING CCT
 12-BIT DUAL CYCLE CORRECTED ADC. MODULE USING SLIDING SCALE METHOD FOR IMPROVEMENT OF DIFFERENTIAL NON-LINEARITY
 48-CHANNEL PAD CARD INCLUDING PAL. & MICROPLEX Y301 IC (BBB)/CLK FADC (FLASH ADC.) - CAMAC MODULE, INCLUDING 48-CHANNEL
 10-BIT ADC. CCT CONFIGURED TO CONTINUOUSLY SAMPLE ION INTENSITIES & PRESENT DIGITAL DATA TO PARALLEL-PRINTER
 20-600MHZ SPECTRUM MONITOR USING ZENITH SX TUNER-CONVERTER TO DOWNCONVERT RF. SIGNALS FROM 20-600MHZ
 16-CHARACTER REMOTE ALPHANUMERIC DISPLAY
 RS-232C CONTROLLER USED IN TRS-80 MODELS I & III, USING WESTERN DIGITAL UART. CHIP TO IMPLEMENT SERIAL-TO-PARALLEL
 HP-IL ADAPTER INTERFACED TO 'MICROBEE' Z80-BASED PC./HEAD AMP. (PRE-AMP.) FOR MS., USING ANALOG DECODER
 12-BIT ADC./10-BIT ADC./SH. CCT/VFC.S (2)/BUCK SWITCHING REGULATORS (2)/CCT TO MONITOR POWER-DOWN SIGNAL
 HI-FI VOLUME EXPANDER
 88-TO-108MHZ FM. RECEIVER WITH VARIABLE-CAPACITOR TUNING, USING FM.-STEREO RECEIVER ON A CHIP/NA74
 IN-CCT DIGITAL IC TESTER BASED ON 4 CUSTOM IC'S EACH OF WHICH CONTAINS 5 INDEPENDENT COMPARATOR
 HI-FI CX DECODER (EXPANDER) TO PROVIDE IMPROVED DYNAMIC RANGE & 20DB NOISE REDUCTION OFFERED BY
 ON-COLUMN AC. CONDUCTIVITY DETECTOR (METER) FOR CAPILLARY ZONE ELECTROPHORESIS, USING HIGH-IMPEDANCE
 AA-7 HF.-VHF.-UHF. ACTIVE ANTENNA CONSISTING OF 2 SWITCHABLE RF. PREAMP.S, USING N-CHANNEL DUAL-GATE
 11-BIT FLOATING-POINT ADC. (FADC) USING OA., ANALOGUE MUX., COMPARATOR, 8-BIT DAC., DISCRETE R-2R RESISTOR
 MC-PREAMP. (2)/MC-PREAMP.'S HIGH QUALITY +-24V DC. PS./HIGH-GAIN VERSION OF RIAA-1 AMP. WITH FET. INPUT
 64-CHANNEL SHARED PCM. CODEC (CODER-DECODER) USING FAST ANALOGUE MUX.S WITH LOW CHANNEL-TO-CHANNEL
 32-CHANNEL SINGLE-ENDED VIDEO MUX. WITH 75OHM INPUTS, CONFIGURED WITHOUT EXTERNAL CS. CCTS

16-BIT INTEGRATING ADC. & UP. MODULES OF DATA ACQUISITION & PROCESSING SYSTEM, INCLUDING SERIAL L
IC-INTEGRATED THERMOMETER TO RECORD FREEZE CURVES
64-BIT OUTPUT CCT THAT MAKES USE OF CENTRONICS INTERFACE, USING ADDRESS DECODER, 8-BIT ADDRESS
10-STEP LINEAR POSITION INDICATOR USING LINEAR HALL-EFFECT SWITCH, ANALOG LEVEL DETECTOR & LED. A
OA-1 BALANCED OUTPUT INTERFACE THAT ADDRESSES PROBLEMS OF INTERFACING SEMI-PRO & PROFESSION
DE-DX CHARGE SENSITIVE AMP., TO INTEGRATE CHARGE COLLECTED BY SENSE WIRES
UP-DOWN DISPLAY COUNTER TO DISPLAY COORDINATES AS POSITIVE & NEGATIVE NUMBERS KEEPING ORIGIN
ON-OFF DELAY WHICH, WHEN VALVE AMP. IS SWITCHED ON, SUPPLIES FILAMENT (HEATER) VOLTAGE 1ST & AN
IM-1280 DISPLAY (AT-BASED IMAGE PROCESSING) BOARD BASED ON TI'S GSP, ALLOWING 640X480 OR 1280X1024
DM-68 DIGITAL PROGRAMMER CONTROL CCTS/AM. STOP CCT/FM. STOP CCT
GO-NO-GO ELF (EXTREMELY LF.) MONITOR USING TELEPHONE PICK-UP COIL (AS SENSING COIL) TO DETECT 60H
12-BIT SUCCESSIVE APPROXIMATION ADC./3-BIT PARALLEL FLASH A-D (BBB)/12-BIT SUCCESSIVE APPROXIMATIO
16-BIT MICROPROGRAMMED SYSTEM USING 4 4-BIT-SLICE USER-PROGRAMMABLE BUILDING BLOCKS, TO PERFO
HI-RES (HIGH-RESOLUTION) JOYSTICK INTERFACE FOR COLOR COMPUTER (COCO), USING QUAD OA., THAT PLU
IN-RUSH CURRENT LIMITER/VISIBLE-LIGHT TRANSMITTER & RECEIVER, USING REGULATOR & PHOTOTRANSISTO
12-BIT SUCCESSIVE-APPROXIMATION-REGISTER-BASED ADC./FAST PREAMP./12-BIT SAR. ADC. USING CLOSED-LO
10-LED. 0-1.2V LINEAR METER WITH DOT OR BAR DISPLAY/VARIABLE-RANGE DOT-MODE VOLTMETER/EXPANDED
17-STAGE MAXIMAL LENGTH PRBS (PSEUDO RANDOM BIT SEQUENCE) GENERATOR/AUDIO NOISE GENERATOR U
RS-232-TO-TTL. CONVERTER/TTL.-TO-RS-232 CONVERTER
IC-27A TRANSCEIVER (BBB)
"Z-DUBBER" FOR SINCLAIR-TIMEX ZX81-1000 COMPUTER, TO IMPROVE TAPE LOADING & ALLOW USER TO RELIAB
16-CHARACTER MESSAGE-DISPLAY STATION USING 2910 CONTROLLER, PROM.S & 3-STATE IC'S TO FORM MICRO
SX-200N RELATIVE S-METER (WITH PARTS LIST THAT WAS OMITTED IN REW8405)
UP-CONVERTING RECEIVER WITH SYNTHESIZED LO. & DIGITAL READOUT/PS. & AUDIO AMP./FREQUENCY-COUNT
UP-DOWN COUNTER
15-COLOUR TTL.-RGB. INTERFACE FOR ATARI & MSX COMPUTERS, TO CONNECT TO SCART INPUT ON TV. SET/SY
12-BIT ADC. CCT FOR NUCLEAR PULSE SPECTROSCOPY WITH DIFFERENTIAL NONLINEARITY CORRECTION, USIN
GO-NO-GO 16-WIRE RIBBON CABLE TESTER
31-LED. BAR-DOT METER THAT PROVIDES LED. BAR OR MOVING-DOT DISPLAY OF PK-PK VOLTAGE/CLOCK OSCIL
19-21MHZ CLASS D FM. TRANSMITTER (CLASS D FM. VOLTAGE DRIVER WHOSE FREQUENCY DEVIATION IS CONTI
32-CHANNEL GATED COUNTING CCT & INTERFACE WITH MINICOMPUTER YOHPAC 2100A THAT CONTROLS IT, USI
FT-101ZD TRANSCEIVER (BBB)
IN-LINE RF. SAMPLING CCT FOR FREQUENCY COUNTER, THAT WORKS ON HF. AMATEUR BANDS FROM 160 THRO
PL-LINK MODULE INCLUDING COMM-LINK MICROCONTROLLER & TW523 BIDIRECTIONAL POWER LINE INTERFACE
RS-232 INTERFACE FOR DRIVING REED RELAYS/CCT USING OPTO-COUPLER
RS-232 INTERFACE CCT
RS-232-TTL. TO TTY CONVERTER USING TRANSISTORS OPTOISOLATOR TO CONVERT TTL. OR RS-232 LEVEL TO C
IN-LINE INVERTER (PLUG-IN ADAPTER) TO GIVE SAFE & CONVENIENT POSITIVE OUTPUT TO NORMALLY NEGATIV
16-FUNCTION REMOTE CONTROL USING SWITCH-SELECTED BCD. SIGNAL/10-FUNCTION REMOTE CONTROL/AC.-
ON-BOARD COMPUTER FOR ROBOT/MOTOR CONTROL (DRIVER) BOARD/SPEECH BOARD
22-BIT ADC. BUILT WITH OFF-THE-SHELF COMPONENTS, USING ENHANCED CHARGE-BALANCE TECHNIQUE WITH
18-BIT SIGMA-DELTA STEREO AUDIO ADC./CCT USING LOW-CAPACITANCE SCHOTTKY DIODES TO PROVIDE BOTH
16-CHANNEL PBX. LINE-CARD APPLICATION CCT BASED ON DLIC DIGITAL LINE INTERFACE CONTROLLER/TRANSI
10-DYNODE HIGH-LINEARITY VOLTAGE DIVIDER WITH GROUNDED ANODE/VARIABLE DELAY CCT TO DELAY TRIG
23-NOTE KEYLESS ORGAN WITH 2 OCTAVES & SPECIAL EFFECTS PLAYABLE WITH FINGERS BY TOUCHING KEY A
CF-ZV-MR (CONSTANT-FREQUENCY-ZERO-VOLTAGE-MULTI-RESONANT) BUCK CONVERTER OPERATING AT 2MHZ
5V-POWERED CCT USING SERVO-CONTROLLED DC.-DC. CONVERTER TO GENERATE 44V COMPLIANCE VOLTAGE
BI-DIRECTIONAL PROPORTIONAL MOTOR CONTROL
40-80W AUDIO AMP. USING BIPOLAR, MOS., & IGBT.S IN OUTPUT STAGE, INCLUDING LATCH-UP PROTECTION

Sheet1

1A-OUTPUT CAPACITY REGULATOR/FLYBACK-CLASS CONVERTER/FLYBACK CCT TO PRODUCE +-15V/CCT WITH V
ZX-203 DISK CONTROLLER BOARD TO HANDLE ANY COMBINATION OF FLOPPY-DISK DATA FORMATS & DENSITIES
5V-TO-12V FEEDBACK REGULATED BOOST CONVERTER USING LINEAR TECHNOLOGY SWITCHING REGULATOR, T
16-CHANNEL 12-BIT HIGH-SPEED ADC.
30-90MHZ 100W BROADBAND PUSH-PULL VMOSFET. POWER AMP. REQUIRING 8.5W DRIVE/AGC. CCT TO SENSE D
HI-FI AMP. DESIGNED AROUND POWER FET.S IN QUASI-COMPLEMENTARY OUTPUT STAGE
RF. DECK OF ULTIMATE 6M VHF. AMP. THAT DELIVERS >2KW WITH ONLY 20W IN/PS.
AF. SIGNAL GENERATOR
UP.-CONTROLLED SYNTHESIZER TO TUNE RF. BOARD, INCLUDING MICROCONTROLLER, SYNTHESIZER IC, EPROM
UP.-BASED DIGITAL CORRELATOR
UP.-BASED CONTROL SYSTEM INCLUDING UP. KIT MTA 85-1 & EXPANSION BOARD/EXPERIMENTAL SYSTEM WITH
UP.-BASED GENERATOR DIFFERENTIAL RELAY WITH HIGH SENSITIVITY AT LIGHT INTERNAL FAULTS, & STABILITY
UP.-BASED HVDC. THYRISTOR VALVE MONITORING SYSTEM INCLUDING PROGRAMMABLE TIMER, PRINTER CONT
UP.-BASED CCT FOR HORIZONTAL SECTION OF X-Y PLOTTER, INCLUDING CPU., EPROM., RAM., PORTS, LATCH, D
UP.-BASED MICROCOMPUTER UNIT INCLUDING ROM., RWM, SERIAL IO. INTERFACE (PORT), KEYBOARD DISPLAY
UP. BOARD INCLUDING RAM. & EPROM./INTERFACE INCLUDING DISPLAY DECODER-DRIVER, 3 INTO 8 DEMUX. & D
UP.-BASED PF. CORRECTOR FOR POOR PF. LINEAR OR NONLINEAR LOADS, IN WHICH PF. IS MEASURED BY UP. (I
UP.-BASED FIRING CCT TO CONTROL ANTI-PARALLEL-CONNECTED THYRISTORS WORKING UNDER 3-PHASE VAR
UP. & ASSOCIATED CHIPS INCLUDING INTERRUPT CONTROLLER & PERIPHERAL IC WITH IO. & MEMORY, TO CONT
AF. SIGNAL GENERATOR
10.7MHZ FM. DEMODULATOR THAT RELIES ON LINEAR RELATIONSHIP BETWEEN POWER CONSUMPTION & OPER
UP. SYSTEM FOR ALIGNMENT OF TROPOSCATTER ANTENNAS & SYNCHRONIZATION OF OSCILLATORS
RC. ACTIVE FILTERS THAT REALISE (2,3) & (4,5) APPROXIMANT RESPONSES (2)/1ST-ORDER LPF.
UP. SYSTEM TO CALCULATE PAEDIATRIC RADIOPHARMACEUTICAL DOSE FROM BODY SURFACE AREA & DISPLAY
RF. IMPEDANCE BRIDGE CONSISTING OF SIMPLE WHEATSTONE CONFIGURATION, INCLUDING DETECTOR USING
HF. UP.-BASED ECG. ANALYZER FOR PROCESSING HF. ECG., WITH SIGNAL BW. OF 500HZ, PROGRAMMED TO ISO
IR. SIGNAL PROCESING HARDWARE INCLUDING IR. RECEIVER USING PHOTODIODE TO CONVERT SIGNAL TO ANA
AC.-COUPLED CLOCK DISTRIBUTION CCT USING 100K ECL. DRIVER WITH 8 DIFFERENTIAL OUTPUTS WITH ~1NS T
SW. CONVERTER FOR ANY AM. RADIO
UP. SYSTEM BASED ON INTEL 8031, FOR LONG-TERM DATA ACQUISITION, WITH BATTERY BACKUP TO SAVE DATA
UP. CCT/RESET & WATCH DOG TIMER/CCT USING CMOS. DTMF. CHIP (3)/ANALOG CCT (TELEPHONE INTERFACE C
TV. HORIZONTAL FREQUENCY SOURCE (REFERENCE) USING U-LOOP PASSING THROUGH C-CORE SPACE OF TV.
IR. REMOTE-CONTROL TESTER TO LET YOU KNOW IF, WHEN BUTTON IS PRESSED, CONTROL IS EMITTING IR. SIG
IR. REMOTE-CONTROL TRANSMITTERS (2)/IR. REMOTE-CONTROL RECEIVER
RF. SYSTEM CONSISTING OF SEGMENTS COUPLED BY WINDINGS ON FERRITE CORE, COMPRISING OSCILLATOR
DC.-DC. CONVERTER/TELEPHONE OFF-HOOK INDICATOR
IR. MASTER CONTROLLER'S KEYBOARD INTERFACE USING SINGLE-CHIP UP. & 6-KEY KEYBOARD
UP.-BASED HIGH-PERFORMANCE CHECK SYNCHRONIZER TO CHECK PHASE SEQUENCE, & VOLTAGE & FREQUEN
PC. SYSTEM BOARD INCLUDING CPU., NUMERIC COPROCESSOR, PIC., PPI., DMA. CONTROLLER, PIT., ROM. & DRA
UP.-CONTROLLED PROGRAMMER TO COPY RANGE OF EPROM.S UP TO 27512, & SEND CONTENTS TO SERIAL PR
UP. CCT INCLUDING COUNTER-TIMER CHIP, PPI. WITH 3 PORTS, IO. UNIT, MEMORY & DAC.S (BBB)
HF. SUPERHETERODYNE RECEIVER (AF. CONVERTER) TO EXTEND UPPER FREQUENCY RANGE OF EAR, USING J
PC.-AT-COMPATIBLE COMPUTER MOTHERBOARD/CONTROL SIGNAL LOGIC/CCTS SHOWING BUFFERING OF BUSE
UP.-MEMORY CCT/TELEPHONE-LINE INTERFACE/RESET CCT/STATUS LED. DRIVERS (3)/SPEAKER DRIVER/RS-232
RC. OSCILLATOR WITH NAND GATES WITH CAPACITOR CHANGED BY BILATERAL SWITCHES
FM. CCT USING AMP., VFC. & ISOLATOR/DEMODULATION CCT USING SQUARE WAVE SHAPER & FREQUENCY-VOL
IR. RECEIVER CCT OF CONTROLLER TO CONTROL ON-OFF STATE OF DEVICES, INCLUDING PREASSEMBLED IR. R
HF. PULSE INSERTION CCT INCLUDING 40MHZ CRYSTAL OSCILLATOR/SINGLE-CHIP UP. INCLUDING CPU., 12-BIT D
HF.-VHF.-UHF. MARKER GENERATOR THAT PROVIDES SQUARE WAVE OUTPUTS AT 10KHZ, 25KHZ, 50KHZ, 100KHZ

Sheet1

IO. CCTS OF SB-200, SB-201, SB-220, & SB-221 LINEAR AMP.S
UP. BASED DISPLAY SYSTEM CAPABLE OF GENERATING & DISPLAYING CHARACTERS OF ANY 1 OF 4 LANGUAGE
UV.-A RADIOMETER
HV. PULSED NOZZLE DRIVE CCT THAT SUPPLIES CURRENT PULSES TO SOLENOID, TO ACHIEVE PULSING MECHA
HV. MODULATOR CAPABLE OF GENERATING 700KV 2.5US PULSES AT 5 PPS INTO LOAD OF 900OHM, USING ITT TH
DC. SWITCHING-MODE MOTOR-SPEED CONTROLLER
UP.-BASED POLARITY CORRELATOR THAT PRESERVES ADVANTAGES OF CROSS CORRELATION DELAY MEASUR
AC.-OPERATED STROBE LIGHT USING FLASHTUBE & SCR. & VOLTAGE DOUBLER IN POWER CCT
UP. & PERIPHERALS (BBB)/Y GRADIENT DRIVER/AFP (ADIABATIC FAST PASSAGE) GENERATOR
AC. POWER CONTROLLER THAT DETECTS CURRENT DRAWN BY MASTER & AUTOMATICALLY TURNS ON SLAVE U
HV.-PULSE AMP. USING PULSE TETRODE (VALVE TUBE) WITH ANODE DISSIPATION OF 40W, WITH POCKELS CELL
PS. & SENSOR DRIVER FOR CHEMICAL OSCILLOMETER CONSISTING OF 5MHZ OSCILLATOR, RECTIFIER, & OA. AC
HV. BIAS SUPPLY & ASSOCIATED COMPONENTS/PULSE HANDLING ELECTRONICS
CW. PROCESSOR TO ENHANCE CW. RECEPTION WITH VOLTAGE AMPLITUDE LIMITERS & BANDPASS FILTERS
PS. & CONTROL CCT, INCLUDING DARLINGTON TRANSISTOR PAIR THAT CONTROLS DETECTOR BIAS, & OPTOCO
TV. AUDIO STAGE
HV. CCTS HAVING OUTPUTS OF <50KV, USING AUTO-IGNITION COIL
PC.-ROBOT 1200 INTERFACE/FAX INTERFACE
IO. SECTION OF BOARD FOR IBM PC./VCO. & DRIVER CCT/AUDIO INPUT & FULL-WAVE RECTIFIER CCT/ADC.
PC. INTERFACE (DIGITAL IO. CARD) BASED ON PPI., INCLUDING PIT (PROGRAMMABLE INTERFACE TIMER-COUNT
IO. BOARD (ADAPTER) (INTERFACE) OF DATA ACQUISITION UNIT INCLUDING TI74 HAND-HELD COMPUTER, USING
IO. BOARD OF LOW-COST (<\$100) PC.-BASED IC TESTER, CONTAINING PPI., 3-8 DECODER, BYPASS CAPACITOR &
PS. WITH SPLIT OUTPUT, USING PRECISION VOLTAGE REGULATOR & PERMITTING OUTPUT TO 0V
UV. PHOTODIODE DETECTOR MODULE
UP. STEPPER MOTOR INTERFACE THAT CAN CONTROL SPEED & ROTATIONAL DIRECTION
UP.-BASED SYMMETRICAL COMPONENT ANALYSER (EXTRACTOR) THAT STABILISES WITHIN 1 CYCLE OF WAVE, &
IO. SYSTEM (BBB)/DIGITAL IO. CCT INCLUDING 12-BIT ADC., 8-BIT DAC., PIT (PROGRAMMABLE INTERRUPT TIMER)
14.31818MHZ CLOCK CCT/CCT TO GENERATE NTSC. SIGNALS INCLUDING COLORBURST, & 15734.26HZ HORIZONTAL
DC. AMP. FOR HALL EFFECT DEVICE (MAGNETOMETER)/AC. AMP. FOR OSCILLATING MAGNETIC FIELDS
SH. CCT WITH ANALOG MUX. SYSTEM, FOR MEASUREMENTS OF PULSE HEIGHTS IN MULTICHANNEL ACQUISITION
RF. HEAD (LOW-NOISE LIMITED OSCILLATOR) OF MAGNETOMETER INCLUDING BROADBAND PRE-AMP. DRIVING F
IA.S WITH PROGRAMMABLE GAIN (2)
RC. OSCILLATOR FOR LINEARIZING THERMISTOR BY GENERATING OUTPUT FREQUENCY PROPORTIONAL TO TEM
CW. SHAPER FOR GRID-BLOCK KEYING/ORIGINAL CW. SHAPER
IO. INTERFACE BOARD THAT WORKS WITH SINCLAIR ZX81 OR SPECTRUM/OUTPUT CCT FOR IO. BOARD, TO OPEF
IO. DECODER (PERIPHERAL CARD) FEATURING SINGLE PORT DECODING (SELECT) & DATA LATCH, USING 8 BIT D
IO. DECODER WITH PORTSELECT (IO. PORT CARD) FOR PC., INCLUDING LATCHES
PC. STOPWATCH USING 16-BIT COUNTER CONSISTING OF 2 DAISY-CHAINED COUNTERS, TO KEEP TRACK OF TIM
DC.-DC. CONVERTER THAT PRODUCES VARIABLE NEGATIVE VOLTAGE, USING OCTAL 3-STATE FF. REGISTER, TO
AC. CYCLE CONTROLLER & TEST SET-UP, TO TEST SURGE & TEMPERATURE RISE OF POWER RECTIFIERS, WITH
UP.-BASED CHRONOMETER THAT EXPRESSES CLOCK TIME AS EQUIVALENT SEQUENCE (STRING) OF SHORT AU
CB.-HAM SELECTIVE CALLING PROJECT/ENCODER
DC.-TO-10KHZ FREQUENCY-TO-VOLTAGE CONVERTER/10HZ-TO-10KHZ VFC.
OA. MULTIPLICATION CCT/OA. SUMMER CCT/OA. SUBTRACTION CCT
DC. CURRENT-REGULATING PS. USING POWER MOSFET. TRANSISTORS & OA.S, SUITABLE FOR USE WITH ELECT
IO. INTERFACE BETWEEN MOTOR & UP., TO RESHAPE SHAFT ENCODER OUTPUTS & GIVE DIRECTION & VELOCITY
UP.-CONTROLLED MULTICHANNEL COUNTER FOR DIGITAL CORRELATOR
DC. STABLE CONSTANT TEMPERATURE HOT-WIRE ANEMOMETER FOR MEASUREMENT OF MEAN FLOW PROPER
DC. MOTOR SPEED CONTROL SYSTEM USING OSCILLATOR AS FREQUENCY REFERENCE, IN WHICH MOTOR DRIV

CW. IDENTIFIER USING MICRO-PROGRAMMED SEQUENTIAL CONTROLLER, INCLUDING EPROM., 8-BIT LATCH & SC
RC. ACTIVE CW. AUDIO FILTER/700HZ ACTIVE AUDIO FILTER
CS. MODULE
OA. OSCILLATOR CCT THAT PRODUCES CLEAN CONSTANT-AMPLITUDE SINE WAVES FROM 2 TO 20KHZ
HV. DIVIDER TO SUPPLY VOLTAGES FOR OPERATING ITT MCP. PMT./PROTECTION CCT WITH FAST BACK-BIASED
FM. CONVERSION UNIT TO RECORD UP TO 3 LF. (0-8HZ) SIGNALS ON 1 TRACK OF TAPE RECORDER, INCLUDING M
EM. RING LAUNCHER CONSISTING OF CLOCK CCT, COUNT-DOWN-DISPLAY CCT (USING SYNCHRONOUS UP-DOW
HV. AMP. USING LV. IC OA., WITHOUT EXCEEDING INTERNAL VOLTAGE LIMITATIONS
PS./FLASH HEAD INCLUDING STROBE TUBE/TRIGGER CCT THAT SUPPLIES VOLTAGE PULSE TO TRIGGER TRANSI
LF. 2ND-ORDER BANDPASS ACTIVE FILTER INCORPORATING TRANSCONDUCTANCE AMP. & USING CELL H(P) BAS
HV. 10-BIT DAC. THAT OPERATES UNDER COMPUTER CONTROL TO PUT OUT VOLTAGES UP TO 500V AT CURREN
PC. PARALLEL PRINTER PORT IO. INTERFACE INCLUDING DATA OUTPUT & STATUS INPUT PORTS/RELAY CONTROL
DC.-CONTROLLED ISOLATED-SWITCHING CCT/OSCILLATOR-TRIGGERED SWITCH/DUAL-CONTROL SWITCH/AUDIO
PS. USING VOLTAGE MULTIPLIER, TO PRODUCE UP TO 10000V AT 5MA, TO PRODUCE HV. PULSE TO IGNITE & DRI
HV. TRIGGERING CCT TO FIRE XENON FLASH BULB/PIN DIODE PREAMP./LED. TRIGGERING CCT IN LED. BOX, INCL
TR. CCT TO SUPPLY +12V TO TRANSMITTER & PIN DIODE SWITCH WHEN KEYED, SUPPLY RECEIVER WITH +12V W
IO. PORT USING TRS-80 CASSETTE PORT, INCLUDING COMPARATORS, MUX., DEMUX. & COUNTER/TRANSDUCER
IO.-ACCESSED JEDEC MEMORY BOARD FOR TRS-80
AC. POTENTIOSTAT SYSTEM/ELECTROCHEMILUMINESCENCE (ECL) CONTROL CCT TO GENERATE CONTROL VOL
AC.-DC. CONVERTER INCLUDING RECTIFYING & SUMMING CCT/LOW DISTORTION QUADRATURE OSCILLATOR WI
PC.-CONTROLLED FREQUENCY SYNTHESIZER COVERING RANGE FROM 1HZ TO 10MHZ IN 1HZ INCREMENTS, INC
RF. POWER CONTROLLER CONSISTING OF DIFFERENTIAL AMP., INTEGRATOR & DUAL-THRESHOLD COMPARATO
OA.-BASED "TRANSDIODE" CCT TO CONVERT LINEAR VOLTAGE INTO LOGARITHMIC OUTPUT TO DRIVE DRIVE ME
FF. CCT AS HOPFIELD NETWORK, BUILT FROM PAIR OF SATURABLE AMP.S USING OA.S/CONSTANT CURRENT SO
OA. PHOTOTRANSISTOR RECEIVER MODULE
IO. INTERFACE CCT/STARTING-ADDRESS & TEMPOARARY STORAGE REGISTER/SEQUENCER
RC.-SINUSOIDAL OSCILLATOR CCT USING CURRENT CONVEYOR (CCII+), PRODUCING SLIGHTLY-DISTORTED HIG
IR. TESTER USING IR. DETECTOR OR PHOTOTRANSISTOR, WHICH, WHEN ACTIVATED BY IR. REMOTE CONTROL
DC., PULSE DC., PURE AC., & GENERAL AC. CURRENT STRESSING CCT INCLUDING TRANSISTOR CURRENT SOUR
AC. MUTUAL INDUCTANCE BRIDGE USEABLE OVER TEMPERATURES 4-300 K & WITH APPLIED MAGNETIC FIELDS T
DC.-TO-DC. UPCONVERTER CCT TO PROVIDE 300V TO VACUUM TUBES IN CAR RADIOS (ASTABLE-MULTIVIBRATO
HV., HF. SET-UP (HV. GENERATOR) FOR ECE, TO APPLY SEVERAL KV TENSIONS, INCLUDING OSCILLATOR, VOLTA
UP. CLOCK & CONTROL LOGIC, TO CLOCK UP. & RUN UP. FROM CONTROL PANEL, INCLUDING VCO. THAT PROVID
IO. EXPANSION CCT THAT ALLOWS ADDITION OF UP TO 8 8-BIT PORTS TO 8052BASIC MICROCONTROLLER, INCLU
IO. BUS CONSISTING OF LATCHED-IO. SCHEME, TO REDUCE TIME TO INTERFACE UP.-CONTROLLED SYSTEM TO P
PC. BUS EXTENDER TO EXTEND DATA, ADDRESS & CONTROL LINES (2)/PC.-MULTIBUS CONVERTER (INTERFACE)
AC. COUPLED GATED PRE-AMP. THAT LIMITS DETECTION OF SIGNALS TO TIMES <22MS, TO EXTRACT WEAK LUM
RF. VIDEO MODULATOR THAT MODULATES PS. VOLTAGE OF DIGITAL IC, USING SCHMITT TRIGGER OSCILLATOR
DC.-DC. CONVERTER USING INVERTER OPERATING AS RC. SCHMITT-TRIGGER OSCILLATOR, TO PROVIDE REGUL
PS. FOR SILICON EMITTER PRODUCTION/PS. & DRIVER FOR SILICON EMITTER OPERATION
LF. CONVERTER TO EXTEND SYNTHESIZED FUNCTION GENERATOR DOWN TO 0.1HZ, USING 3 TTL. DECADE COU
IF. SWEEP GENERATOR TO TEST & ALIGN FILTERS/CCT TO TEST 2N5457 JFET. INVERTING BUFFER
CW. MEMORY CCT MOD. TO ADD DELAYED SECOND-LED. FLASHER TO MEMORY, INDICATING RESERVE WHILE KE
CW. KEYING INTERFACE THAT ELIMINATES START-UP DISTORTION IN SEMI-QSK, USING DUAL TIMER & OPTOISOL
HF. PACKET TUNING AID USING 2 SQUARE-WAVE TIMERS THAT PROVIDE SPACE & MARK TONES & KEY SWITCH A
UP. MONITOR (WATCHDOG CCT) THAT PROVIDES MEANS TO RESTART PROCESSOR AFTER POWER BROWNOUT
LV.-HIGH CURRENT PS./TURN-ON DELAY USING TIMER IC, TO AVOID DAMAGE TO SPEAKERS DURING WARMUP/D
IR. & VISIBLE-LIGHT ACTIVATED SYNTHESIZER TO PRODUCE MUSIC FROM LIGHT, USING PHOTOTRANSISTORS IN
AC. VOLTAGE (ORTHOGONAL) DETECTOR USING 3 ANALOG MULTIPLIERS (USED AS SQUARE CCTS & SQUARE RC

10.3GHZ PREAMP. OF SSB.-CW. TRANSVERTER, USING GAASFET. WITH ~8DB GAIN & NF. OF 1.3DB/+12 TO -20V DC
HV. RESISTANCE CHANNEL INCLUDING JFET., VOLTAGE SENSING RELAY (VSR), HV. REED RELAY & RESISTANCE
HV. ELECTRONIC MODULATOR WHOSE INPUT IS OPTICALLY ISOLATED BY OPTOISOLATOR/SIMPLE SIGNAL CONT
OA. CCT SHOWING BYPASSING/INVERTER USING HIGH-CURRENT AMP., SHOWING HOW SERIES INDUCTANCE IN
UP. BASED PSEUDORANDOM DIGITAL CROSS CORRELATOR TO PERFORM NEAR REAL TIME IMPULSE RESPONSE
IR. TRANSMITTER/IR. RECEIVER/CCT TO TURN ON RELAYS TO CLOSE SWITCH CONTACTS ON TV.
LF. DIFFERENTIATING CCT
HF. 120KHZ SQUARE WAVE OSCILLATOR/FET. INPUT AMP. TO AMPLIFY SENSING ELECTRODE VOLTAGES
HV., LOW-CURRENT GENERATOR
HV. PULSE GENERATOR
DC.-DC. CONVERTER WITH MAGNETIC AMP. DESIGN USING ORTHOGONAL WINDINGS IN SATURABLE CORE
UP. & TIMING SECTION/SECTION SHOWING SERIAL & PARALLEL IO. & SPEECH-SYNTHESIS IC
HV. PM. HELIUM-NEON (HE-NE) GAS LASER PS. TO BOOST VOLTAGE FROM 12V DC. TO 1200-3000V
LV. ALARM WITH ADJUSTABLE TRIP THRESHOLD, USING CMOS. TIMER IC, TO MONITOR BATTERY VOLTAGES IN 2
DC. VOLTAGE INVERTER-DOUBLER USING TIMER/VOLTAGE DOUBLER/VOLTAGE MULTIPLIER/SOLAR-ACTIVATED
OA. CCT USED FOR DDA (DYNAMIC DIELECTRIC ANALYSIS), TO PROVIDE LOW-IMPEDANCE SIGNAL PATH FOR SA
AF. RANGE, ANALOG TACHOMETER/CCT TO SCALE INTEGRATOR OUTPUT/CAPACITANCE METER USING ASTABLE
UP. SECTION OF SYSTEM TO CONTROL LIGHTS, ETC., USING TELEPHONE/PHONEME SPEECH SYNTHESIZER & DT
AF. PREAMP./TONE-BURST GENERATOR USING GATED OSCILLATOR TO PROVIDE 1750HZ SIGNAL FOR REPEATER
PC.-BASED CAPACITANCE METER CONSISTING OF TIMER & ANALOG (QUAD BILATERAL) SWITCH TO ALLOW SOFT
IR. LED.-PHOTO TRANSISTOR AUTOMATIC TRAIN CONTROL, USED AS LIGHT SOURCE-TRAIN LOCATION DETECTOR
AC. PS./COMMERCIAL ZAPPER/PATIO SWITCH (AC. SWITCH CONTROLLED BY LDR.)/2M PREAMP./TAPE TIMER TO
DC.-TO-AC. INVERTER USING TIMER/NEON-LAMP DRIVER/DC. VOLTAGE DOUBLER, TRIPLER & QUADRUPLER (3)/M
RF. OSCILLATOR USING TIMING IC WITH TANK CCT TO TUNE TRANSMITTER/SENSITIVE RECEIVER WITH 5 LED.S T
RF. NOISE BRIDGE CONSISTING OF 4 ARMS TO MEASURE ANTENNAS, TUNED CCTS & RESONANT CAVITIES/IMPE
IR. REMOTE EXTENDER USING MODULE CONTAINING 40KHZ IR. DETECTOR & FILTER, THAT GATES 40KHZ OSCILL
LV. SWITCH FOR HIGH-POWER APPLICATIONS WITH ADVANTAGES OF SIMPLE DRIVE CCT, USING TRANSISTORS
UP. & ITS INTERRUPT HARDWARE, INCLUDING PAL. FOR ADDRESS DECODING/DUAL UART. (DUART) TO PROVIDE
HV. PS. OF CONSTANT-CURRENT PULSE GENERATOR/CURRENT SOURCE, REGULATION & AMPLITUDE CONTROL
RF. SECTION (END) OF "46 JOB" (TRANSMITTER) USING TUBES, INCLUDING FINAL AMP./CLASS B MODULATOR/LA
AC. COUPLED CLOCK DRIVER/DC. COUPLED CLOCK DRIVER/CLOCK GENERATION CCT FOR CCD. DYNAMIC MEMO
HV. PULSE MODULATOR (PM.) FOR PULSE DISCHARGE, FOR COPPER VAPOR LASER, USING THYRATRONS, HV. D
HV. 60MHZ TETRODE MODULATOR DRIVER USING UHF. TETRODE TUBE & MODULATOR CRYSTAL/KRYTRON CCT
LC. METER USING PRE-PROGRAMMED EPROM. THAT STORES RESULTS FOR 15000 EQUATIONS, WITH INPUT INFO
PC. ACCESS USING EPROM. MAPPED INTO 8K SLOT IN PC.'S ADDRESS SPACE BETWEEN C000H & EFFFH, TO PRO
CW. IDER (KEYER) (AUTOMATIC MORSE CODE GENERATOR) FOR BEACON OR TO ID REPEATER, USING MICROCO
TV.-LINK (ON-SCREEN DISPLAY TERMINAL) USING 80C51-BASED MICROCONTROLLER DESIGNED TO PROVIDE OS
LC. METER TO MEASURE CAPACITANCE FROM 10 TO 330PF & INDUCTANCE FROM 0.286 TO 28.6UH
DC. PS. FOR REMOTELY-SWITCHED, INVERTED-L ANTENNA
HF. RESONANT (LOAD-COMMUTATED) INVERTER USING RCA ASYMMETRIC SCR'S (SCR.S) & MOTOROLA FAST R
UP.-BASED REPEATER-LINKING CONTROLLER INCLUDING MICROCONTROLLER, DTMF. DECODER & WATCHDOG T
IR. EMITTER-DETECTOR (E-D) USING HIGH OUTPUT IR. LED. & IR. PHOTOTRANSISTOR, ESSENTIALLY INSENSITIVE
UP. INSTRUMENT TO OBTAIN ANALOG OUTPUT VOLTAGES UP TO 10V FROM IEEE-488 BUS-EQUIPPED INSTRUMENT
AC. MUTUAL INDUCTANCE BRIDGE USING IC O.A.S TO MEASURE MAGNETIC SUSCEPTIBILITIES OF FERRO-, FERRI
UP. CONTROLLED SECURITY SYSTEM TO MONITOR UP TO 8 REMOTE SWITCH POSITIONS, WHICH, WHEN TRIGGE
PC. MOTHERBOARD LOGIC USING ELITE MICROELECTRONICS' EAGLE CHIP SET TO MERGE CACHE CONTROLLED
UP. BOARD OF STIMULATOR CCT FOR FUNCTIONAL NEUROMUSCULAR STIMULATION (FNS) FOR STANDING SPINA
PS. TO THERMOCOUPLE AMP. & THYRISTOR DRIVE CCTS/B.B.C. TO PHASE ANGLE TRIGGER INTERFACE/THYRIST
UP.-BASED DIGITAL AUTOPILOT FOR ROCKET FLIGHT STABILIZATION (REALTIME CONTROL SYSTEM THAT PROC

AC. VOLTAGE CONTROLLER INCLUDING AC. VOLTAGE CHOPPER CONSISTING OF BIDIRECTIONAL SOLID STATE S
 UP. BASED CONTROLLER USING 8-BIT UP. & PERIPHERALS INCLUDING PIO, CTC, EPROM. CONTAINING LOOK-UP
 PS. PROVIDING +5V FOR TITLER, & OPERATING VOLTAGE FOR EXTERNAL VIDEO CAMERA
 IO. INTERFACE BOARD PROVIDING 6 SERIAL & PARALLEL PORTS/STEPPER MOTOR CONTROLLER BOARD
 PS. INCLUDING B+ (+255) REGULATOR USING REGULATOR TUBES, & +12V FILAMENT SUPPLY, FOR AURORA PREA
 TR. CONTROLLER-LOGIC & SWITCHING-SECTION/SIDETONE & AUDIO-SECTION/AC. PS.
 PS. FOR INTELLIGENT THERMOMETER USING UP. & PROGRAMMED EPROM., TO MEASURE & ANALYZE CHANGES
 UP. & PIA. PORTIONS OF CCT TO MEASURE & ANALYZE CHANGES IN TEMPERATURE/EPROM. & LOGIC CCTS (2)/IN
 UP. DEVELOPMENT SYSTEM (BBB)/MEMORY DECODING PORTION/IO. PORTION/EPROM. BOARD/KEYPAD-DISPLAY
 PS. FOR THERMISTOR BRIDGE CCT, CONSISTING OF 5V REGULATED SUPPLY WITH 1.5V (1.4V) TO OPERATE BRID
 UP.-BASED INTERFACE UNIT TO ALLOW FULL CONTROL OF STANDARD TERMINAL BY PNEUMATIC PRESSURE IN M
 UP.-CONTROLLED MUSIC SYSTEM INCLUDING CPU., DAC., COUNTER TIMER CCT (CTC), LPF., EPROM. & CRYSTAL
 RF. REMOTE STARTER FOR CAR, BASED ON MICROCONTROLLER, CONSISTING OF RF. TR. SYSTEM & STARTER C
 PS.
 DC. POWER FAILURE DETECTOR (POWER-LOSS TRIGGER) THAT CAN BE USED FOR NOVDRAM. SNAPSHOT CCT TO
 UP.-BASED COMMUNICATIONS INTERFACE OF LAN., IN WHICH NODE PROCESSOR PERFORMS MESSAGE PROCES
 PS. FOR EPROM. PROGRAMMER, PROVIDING ALL STANDARD VOLTAGES & INTENDED AS COMPUTER ADD-ON
 UP. PROGRAMMABLE TUNE PLAYER
 PS. WITH POWER-ON & POWER-OFF SENSING CCT/POWER-ON, POWER-OFF CONTROL CCT FOR NOVOL DEVICES
 PS. CCT TO SUPPLY 12, 9, & 5V DC. REGULATED, USING 12V & 5V REGULATORS, FULLWAVE RECTIFICATION & ST
 AF. (TELEPHONE INDUCTION-COIL) AMP. TO TRANSFORM SIGNALS INDUCED INTO TELEPHONE INDUCTION COIL I
 UP.-BASED MEASUREMENT SYSTEM INCLUDING CPU., EPROM. & BYTE-WIDE IO. DEVICES INCLUDING LED.S & DA
 UP. CONTROLLED DAS. FOR PHA. & MULTICHANNEL SCALING SYSTEMS, WITH 4KX24 BIT MEMORY (BBB)
 HV. PLATE PS. WITH 3KV & 6KV OUTPUT & METER TO MONITOR OUTPUT VOLTAGE/6M AMP. USING 3CX1500A7-88
 UP. IMPLEMENTATION PROCESS CONTROLLER INCLUDING CPU., PIA.S, EPROM., RAM. & DECODER (BBB)
 UP. BASED DATA REAL TIME PROCESSING UNIT INCLUDING CPU., 16K BYTES OF MEMORY, KEYBOARD, DISPLAY,
 PS. FOR DISK SYSTEM, USING VOLTAGE REGULATOR FOR 24V 2A, -12V 0.35A & 5V 4A SUPPLIES/COMPUTER INTE
 PS. (CORRECTION TO CCT) (BYTE8302)
 PS. (BENCH POWER BOX) THAT PROVIDES REGULATED VOLTAGES OF +12, -12 & +5VDC. UP TO MAXIMUM OF 500
 DC. VOLTAGE-CURRENT REFERENCE STANDARD
 DC. IR. EMITTER-DRIVER/IR. EMITTER-PULSER/CAPACITANCE MEASUREMENT CCT
 HV. GENERATOR USING SWITCHING DC.-DC. CONVERTER WITH PWM., BUILT AROUND TRANSISTOR, TRANSFORM
 FM. TRANSMITTER USING FM. STEREO TRANSMITTER IC, TO ALLOW LISTENING TO AUDIO FROM PERSONAL POR
 PS. WHOSE 5V OUTPUT CONTINUES UNINTERRUPTEDLY DURING LOSS OF MAIN 5V SUPPLY, MAINTAINING +-5% T
 PC. BUS INTERFACE (BBB)/1 CHANNEL OF PROGRAMMABLE TIMERS/1 CHANNEL OF WAVESHAPING CCTS/CLOCK
 DC.-DC. CONVERTER USING REGULATOR IC & 2 TRANSISTORS, TO GENERATE V_{PP} VOLTAGES & RISE & FALL TIM
 PS. FOR QUADRUPOLE, THAT MEETS AC. & DC. POWER REQUIREMENT FOR QUADRUPOLE, USING OSCILLATORY
 DC.-DC. CONVERTER (REGULATOR) (INCLUDING ERROR AMP.S, CURRENT-MODE CONTROLLERS & POWER MOSF
 UP.-BASED CONTROLLER INTERFACED TO IEEE 488 BUS (BBB)/DIGITALLY CONTROLLED CURRENT-TO-VOLTAGE
 UP.-CONTROLLED STIMULATION & DATA PROCESSING SYSTEM INCLUDING OFFSET & GAIN CONTROLS
 LO. OF RECEIVE CONVERTER ADAPTER THAT ADDS 6M OR 220MHZ RECEIVE CAPABILITY TO 2M TRANSCEIVER, I
 DC.-COUPLED FEEDBACK AMP. TO DRIVE UP TO 5 VIDEO MONITORS FROM 1 SOURCE, SUCH AS VCR. OR COMPU
 RF. DIFFERENTIAL AMP./CASCODE AF. AMP./SINGLY BALANCED MIXER
 RF. SPEECH PROCESSOR/"FRONT-END"/FT-107 SOLID-STATE HF. TRANSCEIVER
 DC. ELECTRON EMISSION STABILISER WITH DOUBLE NEGATIVE FEEDBACK LOOP, INCLUDING VOLTAGE STABILIS
 UP. TO ANALOG CONVERTER (ANALOG) INTERFACE USING 16-BIT DATEL DAC. TO CONVERT DIGITAL OUTPUT FR
 OA. BASED NEURON USING SUMMING AMP., INTEGRATING AMP., & INVERTING AMP.
 PS. CCT THAT STEPS DOWN TO 5V REGULATED OUTPUT WHEN BATTERIES ARE NEW, OR STEPS UP WHEN BATT
 HV. OPTO-COUPLER MATCHING JIG

PS. USING VOLTAGE REGULATORS (2)/INTERFACE FOR ATARI COMPUTERS/INTERFACE FOR IBM XT & AT COMPUTERS
 LF. INTEGRATOR FOR PHASIC SIGNALS FROM 0.08 TO 20HZ, INCLUDING OTA., SH., LINEAR COMPENSATED INTEGRATOR
 UP.-TO-VFD INTERFACE CCT INCLUDING 2 SEGMENT DRIVERS THAT BIAS DISPLAY ANODES, & SEQUENCE DRIVER
 HV. & MUON CHAMBER CHARGE SENSITIVE PREAMP. BOARDS FOR 1 CHANNEL, INCLUDING TEST PULSE LINE, & DC.-TO-DC. CONVERTER USING MAXIM PWM. SWITCHING REGULATOR, TO CONVERT +5V TO +-12 OR +-15V, INCLUDING
 PC. VOLTMETER THAT PLUGS INTO PARALLEL PRINTER PORT, USING 8-BIT SUCCESSIVE-APPROXIMATION ADC. (MAXIM)
 RF. SIGNAL GENERATOR THAT PRODUCES SIGNAL FROM 400KHZ TO 33MHZ, WITH OUTPUT LEVEL ADJUSTABLE
 AC.-VOLTMETER WHOSE FRONT END USES BIMOS. OA.S/CURRENT AMP./HIGH-Q NOTCH FILTER/AUDIO PREAMP.
 AF. OA. MULTIVIBRATOR WITH 50% CONSTANT DUTY-CYCLE OUTPUT TO ASSURE MAXIMUM FUNDAMENTAL HARMONICS
 AM. LCD. DIGITAL CLOCK RADIO
 10.000V PRECISION VOLTAGE REFERENCE WITH 0.1V DROPOUT VOLTAGE, USING STEP-UP SWITCHING REGULATOR
 UP. INTERFACE FOR MOTOR CONTROLLER THAT SENDS SIGNALS TO DAC. TO CONTROL DC. MOTOR, WITH SHAF
 AM. SYNCHRONOUS DEMODULATOR (PRODUCT DETECTOR) PROVIDING AGC., S-METER OUTPUT & SYNCHRONOUS
 PS. USING AC.-TO-DC. REGULATOR (CONTAINING FULL-WAVE RECTIFIER) & STEP-DOWN SWITCHING REGULATOR
 TV. AUTOMATIC FINE TUNING CCT/TV. VIDEO IF. AMP. SYSTEM WITH TYPICAL PERIPHERAL CCT
 FM. CAPACITIVE PROBE CONSISTING OF 56MHZ HEAD STAGE COLPITTS (CLAPP) OSCILLATOR, & REMOTE FM. DE
 RF. AMP. & PHASE DETECTOR/AMPLITUDE-CONTROLLED OSCILLATOR/HV. PZT. DRIVER AMP./DIGITAL SWEEP & S
 DC. REJECTION STAGE OF RAPID RECOVERY PHYSIOLOGICAL PREAMP. WITH OVERALL GAIN OF 1100, CMR. OF >
 FM. SUBCARRIER DECODER USING QUADRATURE DETECTOR USED IN TV.-SET SOUND CCTS, INCLUDING BANDP
 LF. AMP. HAVING LOW NOISE TEMPERATURE, LARGE BW. (0.5-10KHZ) & VERY HIGH INPUT IMPEDANCE, WHOSE F
 PS. (SWITCHING MODE STEP-UP CONVERTER) USING MAXIM CHIP, TO GIVE TIGHTLY REGULATED +5V DC. AT 170
 CD. PLAYER SYSTEM
 OA. CCT/3POLE FILTER
 RH. METER INCLUDING REMOTELY PLACED SENSOR MONOSTABLE, USING SENSOR OF GOLD-COATED PLASTIC
 DC. TEMPERATURE REGULATOR (THERMOREGULATOR) TO MAINTAIN ANY TEMPERATURE FROM ROOM TEMPER
 PS. THAT ENABLES AC. ELECTROETCHING OR DC. ELECTROPOLISHING IN AUTOMATED OR MANUAL MODES, WITH
 SH. CCT/AUDIO TONE CONTROL/STOPWATCH USING CALCULATOR
 AM. WIRELESS MICROPHONE/SIREN/BIRD CHIRPER/TOY THAT SIMULATES STEAM LOCOMOTIVE
 RF. PULSE GENERATOR CONSISTING OF ASTABLE MULTIVIBRATOR WHOSE OUTPUT MODULATES 3MHZ OSCILLA
 UV. FLAME SENSOR CONSISTING OF NEON LAMP RELAXATION OSCILLATOR/5-BAND GRAPHIC EQUALIZER USING
 DC.-DC. CONVERTER TO CONVERT 1.5V BATTERY TO REGULATED 5V AT UP TO ~40MA (BBB)/1.5V TO 5V CONVER
 SH. VOLTMETER WITH LOW ACQUISITION TIME & LARGE HOLD ON TIME, USING 2 POSITIVE PEAK DETECTORS US
 PS. WITH OUTPUT FROM 0 TO 25V AT 1A, PLUS NEGATIVE VOLTAGE, BASED ON 3-TERMINAL REGULATORS, & AD
 DC. PS. USING LAMBDA SEMICONDUCTORS DEVICE
 AC. HIGH-STABILITY UP.-BASED TEMPERATURE CONTROLLER FOR USE AT HIGH TEMPERATURES (BBB)
 IO. INTERFACE SECTION OF SC84 PROFESSIONAL MICROCOMPUTER, PROVIDING CONTROL FOR FLOPPY-DISC D
 IF. DETECTOR & FUNCTION SELECTOR, TO PROCESS OUTPUT SIGNAL OF IF. AMP. TO OBTAIN INFORMATION FRO
 PS. FOR MODEMS THAT COMMUNICATE OVER AC. LINES, USING PRECISION-VOLTAGE-REGULATORS FOR +12V &
 FM. OSCILLATOR & FM. RECEIVER/PI-2 PHASE SHIFTER, DRIVER AMP. & AMPLITUDE REGULATION CCT
 HV. (750V) MODULATOR AMP. TO DRIVE POKKELS CELL FOR MODULATING PHOTOLYSIS BEAM/PHOTOMETRIC AM
 HV. OA. TO CONVERT SMALL ANALOG SIGNAL TO 180V PK-PK SIGNAL, USING IC OA. & APEX BOOSTER AMP./POW
 HV. PIEZOCERAMICS DRIVER (AMP.) USING HV. OA. WHOSE CHARACTERISTICS ALLOW MAXIMUM 290V PEAK-TO-
 RF. BRIDGE USING MERRIMAC HYBRID JUNCTION, & VARICAPS WHOSE BIAS VOLTAGE IS CONTROLLED WITH HE
 AC. BRIDGE CCT OF AUTOMATED DAS., WHICH, TOGETHER WITH LOCK-IN AMP., FORMS PSD., TO MEASURE RESI
 FM. DETECTOR THAT CAN BE ADDED TO ANY AM. RECEIVER WITH 455KHZ IF.
 RF. MODULE OF BUS MODEM USING TV. IF. AMP. & TV. AFC. DISCRIMINATOR CHIPS & VOLTAGE COMPARATOR (B
 LC. OSCILLATOR THAT WORKS FROM 2 TO 10MHZ WITH ESSENTIALLY CONSTANT AMPLITUDE THAT DROPS SLIG
 AC. STABILISER ABLE TO HANDLE 220V SUPPLY AT 20W TO 2KW, FOR RESISTIVE LOADS, USING 3 TRANSISTORS
 HF. SYNTHESIZER INCLUDING PLL. FREQUENCY SYNTHESIZER, VOLTAGE-CONTROLLED MULTIVIBRATOR & MCU

UP. FLOATING-POINT COPROCESSOR & MEMORY MANAGEMENT UNIT (BBB)/ADDRESS DECODER & DRAM. CONTROL

HV. RAMP GENERATOR FOR TESTING SEMICONDUCTOR DEVICES IN AVALANCHE MODE

UP.-BASED COMPUTER SYSTEM DESIGNED FOR ANALOG INSTRUMENTATION SYSTEMS (BBB)

DC. CONTROLLER TO KEEP DC. CURRENT CONSTANT BY CHANGING VOLTAGE APPLIED TO PMT.

UP. CONTROLLED KEYBOARD INCLUDING RAM.S, WITH VARIABLE CODE SPEED, 256-CHARACTER FIFO. BUFFER &

UP.-BASED THERMOSTAT USING CMOS. UP. (MPU.), EPROM., 8-BIT LATCH, CMOS. ADC., DATA-BUS DRIVER, 3:8 DE

UP. INTERFACE CCT OF POSITION CONTROLLER, INCLUDING DAC., CURRENT-TO-VOLTAGE CONVERTER, BALANC

IR. TRANSMITTER/FREQUENCY SYNTHESIS & CONTROL SYSTEM FOR CABLE CONVERTER

UP.-BASED CSI-FED INDUCTION MOTOR DRIVE INCLUDING 68000 MICROCOMPUTER, COPROCESSOR, ADC.S, DAC

DC. INPUT PREAMP. FOR USE WITH ION DETECTOR, INCLUDING INPUT-OVERLOAD PROTECTION & NULLING CCT

RF. INPUT CCTS FOR FREQUENCY CONVERTER (6)/WWV-WVH-TO-AM.-BC.-BAND CONVERTER/SUPERHETEROD

IR. REMOTE CONTROL TRANSMITTER

HV. OUTPUT STAGE/SQUARE-TRIANGLE-SINEWAVE GENERATOR/VARIABLE-WAVEFORM PULSE GENERATOR/PUL

RF. GATING CCT FOR OFF-RESONANT PULSE EXCITATION/FINAL STAGE RF. POWER AMP./RF. PREAMP.

LC. METER ANALOG SECTION/LC. METER DIGITAL SECTION INCLUDING UP., DISPLAY DRIVER, DISPLAY, 8-BIT LAT

RF. CCT OF VFO./CMOS. SYNTHESIZER/PROGRAMMER, MCU & PERIPHERALS, INCLUDING LCD./PS./CCT FOR AUT

TV. TUNING SYSTEM USING MOTOROLA FREQUENCY SYNTHESIZER, DISPLAY, VVC (VOLTAGE-VARIABLE-CAPACI

DC. AMP. OF GAIN 11 BASED ON INTERSIL COMMUTATING AUTO-ZERO (CAZ) IA. THAT USES FLYING CAPACITOR T

DC. MOTOR CONTROL CCT/COMBINATION FIRE & BURGLAR ALARM/SMOKE DETECTOR CCTS

LO. SWITCHING & DATA-ACQUISITION COMPUTER INTERFACE

21.4MHZ TUNED AMP. INCLUDING CHEBYSHEV BANDPASS FILTERS, & NORMALIZED BESSEL FILTER FOR INTERS

LV. BATTERY INDICATOR TO DETECT DEPLETED OR DISCHARGED BATTERY/ANALOG PROCESSOR BASED ON 8-B

UP. SYSTEM USING PIA. & BUS-COMPATIBLE TIMER TO CONNECT 4KX8 EEPROM. (BBB)/CCT USING LEVEL TRANS

UP. CCT FOR USE AS EMBEDDED PROCESSING ENGINE IN FASTBUS MODULES, USING 16MHZ PROCESSOR & 128

UP. BREADBOARD SYSTEM INCLUDING UP., SRAM., LED. DISPLAYS, HEX KEYBOARD, 16 KEY ENCODER & BCD.-TO

UP. BREADBOARD SYSTEM INCLUDING UP., SRAM., LED. DISPLAYS, HEX KEYBOARD, 16 KEY ENCODER & BCD.-TO

PS.

89.5MHZ 300W DECOUPLING CHANNEL PULSED RF. POWER AMP. FOR NMR. SPECTROSCOPY

FM. DETECTOR-SQUELCH BOARD/FM. MODULATOR BOARD/FREQUENCY SELECTOR BOARD

UP.-TELEPHONE-LINE INTERFACE (DATA-COMMUNICATIONS PHONE LINK) (INTELLIGENT UP.-CONTROLLED MODE

HV. REGULATOR CONSISTING OF COMPARATOR & POWER-UP CCT FOR LINE-SIDE REGULATOR, USING TRIAC & C

RF. VOLTMETER THAT MEASURES (READS) RF. LOW-LEVEL RF. SIGNALS DOWN TO MICROVOLTS, USING GERMAN

AC. REMOTE CONTROL TRANSMITTER CONSISTING OF DIGITALLY PROGRAMMABLE FREQUENCY GENERATOR U

DC. SERVO-MOTOR SYSTEM IN WHICH DAC. PLUS SLOTTED DISK & OPTICAL SWITCH GENERATE MOTOR-SPEED

AC.-COUPLED PULSE AMP. BUILT AROUND ECL. TRIPLE LINE RECEIVER, INCLUDING HIGH-IMPEDANCE PREAMP. &

UP. SYSTEM USING 8-BIT DAC. TO SUPPLY REFERENCE VOLTAGES TO UP.'S ADC./CCT TO GENERATE HARDWARE

PS. REGULATOR OFFERING REGULATION AT VOLTAGES BELOW 2V & LOW RIPPLE VOLTAGES AT OUTPUT

RF. FREQUENCY DIVIDER COMPOSED OF PREAMP. & BINARY COUNTERS

HF. HEAD USING ECL. IC & VARACTOR DIODE/LF. AMP. USING VERY LOW NOISE TRANSISTORS/SELF-LOCKING &

HV. XENON FLASHLAMP PS./TIMING CCT TO GENERATE FREQUENCY USED BY PS., & CLOCK & INTEGRATION SIG

FF. MOS. THYRISTOR DRIVER/THYRISTOR DRIVING NETWORK/CCT TO GATE SCR. FROM FIBER-OPTIC RECEIVER

UP. INTERFACED TO ROM./SAME TO RAM./DRAM. REFRESH CONTROLLER/INTERRUPT INTERFACE LOGIC/UP. WITH

SH. AMP. BOARD/PULSE GENERATOR BOARD/PEAK HEIGHT AMP. (PEAK DETECTION CCT) BOARD WITH INPUT FR

DC. COUPLED CHAMBER WIRE SIGNAL AMP. WITH VOLTAGE GAIN OF ~750 & INPUT IMPEDANCE OF 510OHM, USIN

TR. VOLTAGE SWITCH/VFO./BFO./RECEIVER RF. SECTION/RECEIVER AF. SECTION/SPEECH-AMP., BALANCED MOD

PS. FED TO ARC POWER FOR PIG ION SOURCE, USING SERIES TETRODE TO REGULATE ARC CURRENT, & DRIVEN

AC. MOTOR-CONTROL CCT USING MOSFET. DRIVER THAT PROVIDES 2500V RMS. ISOLATION WHILE CONVERTING

DC.-TO-DC. CONVERTER BUILT FOR KENWOOD TR-2500 TRANSCEIVER TO REPLACE STOCK NICD. BATTERY PACK

AM. DAMPED SINEWAVE GENERATOR (DSG) INCLUDING DECAY FUNCTION GENERATOR, TRIGGER SWITCH, BALA

LF. UP-CONVERTER USING FET. FRONT END (RF. AMP.), MIXER & HARTLEY OSCILLATOR, WHOSE SIGNAL IS AUDIO
 RF. DECK CCT OF LOW-DRIVE, HIGH-POWER LINEAR AMP. REQUIRING 30W OF DRIVE, THAT DELIVERS 1500W FROM
 AC. VOLTAGE DETECTOR BASED ON SINUSOIDAL AC. REJECTION, TO REDUCE TRANSIENT RESPONSE DELAY, USING
 LV., NARROW-BAND FM. RECEIVER USING MOTOROLA IC (THAT CONVERTS RF. TO 455KHZ IF. THAT IS TAKEN TO
 PC. VOLTMETER/CCT TO ALLOW VOLTMETER TO BE RUN FROM 5V AT JOYSTICK PINS OF IBM PC.
 15.300000-15.400000MHZ VCO. PHASE-LOCKED TO 1.0MHZ REFERENCE FREQUENCY OF COMMERCIAL GR (GENERAL
 IO. PORT FOR MEASURING & PRODUCING ANALOGUE SIGNALS
 TV.-DERIVED FREQUENCY STANDARD USING HORIZONTAL-SYNC PULSES DERIVED FROM COLOR-SUBCARRIER F
 SH. AMP. THAT HOLDS SAMPLE INDEFINITELY WITH NO DROOP, USING SWITCHABLE-INPUT OA., 12-BIT ADC. & 2 1-
 AC. POWER DISTURBANCE DETECTOR CCT/CCT TO PRODUCE REFERENCE SINUSOID DERIVED FROM MAINS, USING
 FM. DECODER FOR DETECTING 67.5KHZ SCA (SUBSIDIARY COMMUNICATIONS AUTHORITY) SUBCARRIER, INCLUDING
 FM. TUNER INCLUDING FRONT END, FILTERS, LIMITER & STEREO DECODER, CONTROLLED BY UP. (BBB)/FD12 FM
 PC.-TO-TV. (VIDEO) CONVERTER (VGA TO NTSC. TV. ADAPTER) USING SYNC GENERATOR (ASIC.) & RGB.-NTSC. E
 DC. MOTOR DRIVE CCTS (2)
 RF. AMP. FRONT END (TUNER) OF GAASFET. RECEIVER FOR ATV., USING MMIC.S & DBM./IF. AMP.-BANDPASS FILTER
 IA. WITH PROGRAMMABLE GAINS FROM 1 TO 1000, COMPRISING DIGITALLY CONTROLLED ATTENUATOR/CCT TO
 IR. RECEIVER USING PHOTODIODE
 HF. DIGITAL CRYSTAL OSCILLATOR USING COMPARATOR TO RELIABLY PRODUCE 10MHZ SQUARE WAVEFORM A
 HV. LINEAR AMP. ABLE TO PROVIDE SINGLE-ENDED OUTPUT >3KV ACROSS CAPACITIVE LOAD REQUIRING CHAR
 FM. TRANSMITTER INCLUDING MICROPHONE AMP. & FM. MODULATOR/OPTICAL AMP./CCT TO MATCH TRANSISTO
 FM. DEMODULATOR/FAST TONE DETECTOR/DOUBLE-SYNC OSCILLATOR/DIVIDE-BY "N" CCT/UPCONVERTER CCT
 HF. TRANSVERTER INCLUDING 5W POWER AMP., VCO., DIVIDER, BALANCED MIXER, THUMBWHEELS & PHASE DE
 IR. REMOTE CONTROL TRANSMITTER/REMOTE CONTROL RECEIVER & DECODER/VOLUME & BALANCE CONTROL
 PS.S FOR ATOMIC SPECTROMETER, SHOWING PMT., HCL. & CHOPPER MOTOR/AMP. INCLUDING PHOTOTRANSIS
 AC.-ACTIVATED LEVEL SENSOR WITH LINEAR OUTPUT, INCLUDING CURRENT TO VOLTAGE CONVERTER, RMS. TO
 UP. SYSTEM INCLUDING PPI., PIC., PIT., ADC., RAM. & ROM. (BBB)/CURRENT SENSOR USING 2 OPTO ISOLATORS C
 SH. SYSTEM/DIGITAL SPEECH SYSTEM/UP. INTERFACE/4 TO 20MA LOOP DETECTOR MONITOR
 FF. WITH 4 DEGLITCHED STABLE STATES, USING OR GATE & BCD.-TO-DECIMAL DECODER, WITH OUTPUT REPRESENT
 DC.-DC.-CONVERTER MOSFET. DRIVER/PWM. FOR DRIVER CCT/LOW-POWER FLYBACK CONVERTER TO SUPPLY A
 AC. BRIDGE BASED ON ANALOG DEVICES MODULATOR-DEMODULATOR CHIP, CONSISTING OF AMP. CCTS & AC. B
 TV. COMMERCIAL KILLER/RECEIVER/BOX-STYLE TRANSMITTER/GUN-STYLE TRANSMITTER
 PC. DATA-ACQUISITION CCT USING 12-BIT ADC., PPI., ANALOG MUX. & VOLTAGE REFERENCE, TO TRANSFORM IB
 AC. TEMPERATURE-CONTROL CCT FOR VARIABLE-HEATING-RATE WIRE-MESH PYROLYSIS APPARATUS, USING C
 AC.-COUPLED PREAMP. CCT FOR X-RAY IMAGING ARRAY USING SURFACE BARRIER DIODES/2-STAGE AMP. WITH
 RF. (BROADBAND) POWER MODULE (AMP.) FOR FM. BC. (87.5-108MHZ), USING PUSH-PULL CONFIGURATION, BJT.S
 AC. VOLTMETER WITH GOOD HF. PERFORMANCE, EMPLOYING DIFFERENCE AMP. & RECTIFIER CCT
 FM. ON-HOLD UNIT USING FM. RECEIVER INCLUDING MUTE CCT, & DTMF. DECODER WHOSE OUTPUT IS 4-BIT WO
 TV. INTERFACE FOR DISPLAY OF EMG. SIGNALS, THAT SCANS EMG. AMP.S BY SWITCHING ANALOGUE MUX. & CO
 IR. TRANSMITTER OF REMOTE-CONTROL SYSTEM THAT EXTENDS FUNCTIONS OF WIRELESS REMOTE CONTROL
 UP. INTERFACE TO SEM. FOR SEM. IMAGE ACQUISITION & ELECTRON BEAM WRITING, INCLUDING 8-BIT ADC., 12-
 IA. & PS. FOR PRESSURE TRANSDUCER (FOIL STRAIN GAUGE)/PUMP CONTROLLER CCT INCLUDING VFC., INTEG
 AC. POWER-LOSS ALARM CCT THAT, ON POWER FAILURE GENERATES 30S AUDIBLE WARNING, & THEN RESETS,
 CD. PLAYER PHASE-CORRECTOR CCT TO CORRECT FOR TIME DELAY BETWEEN LEFT & RIGHT CHANNEL OUTPUT
 CW. FILTER FEATURING 40HZ BW. & NO RINGING, USED BY TUNING RECEIVER SO THAT CODE-PRACTICE OSCILL
 AC. POWER LINE MODEM USING SIGNETICS IC MODEM INCLUDING RECEIVER, TRANSMITTER & AM. REJECTION C
 IR.-REMOTE SLAVE TO ALLOW USE OF IR. REMOTE TO CONTROL AUDIO-VIDEO (A-V) EQUIPMENT STORED INSIDE
 CW. AUDIO FILTER WITH NARROW BW., FLAT PASSBAND & NEARLY VERTICAL SKIRTS/CW. GENERATOR
 LO.S USING IC CONTAINING DBM., OSCILLATOR & VOLTAGE REGULATOR (5)/VOLTAGE-TUNED (VARACTOR) VFO.S
 IF. GENERATOR INCLUDING 10MHZ TUNED AMP. & FREQUENCY TRIPLER/PULSE & TRIGGER UNIT/SSB. MIXER USI

DC. BIASED PREAMP./PLL./SINE-WAVE CONVERTER/GAIN & BUFFER AMP.S/Q METER & PHASE SHIFTER/VCO./FRE
 UP.-CONTROLLED TV. WITH PLL. TUNING, USING 8-CHANNEL 6-BIT D-A & ECL. PRESCALER (BBB)
 10.0V PRECISION VOLTAGE REFERENCES/CURRENT SINK-TYPE CURRENT REFERENCE/CURRENT-LOOP TRANSM
 FM. DEMODULATOR USING PLL. IC TO DEMODULATE FM. SIGNALS FROM 455KHZ IF. STRIP OF HAMMARLUND HQ-
 OA.-VALVE CCT (LINE DRIVE AMP.) THAT HAS SAME ADVANTAGES AS DYNAMIC HEADPHONE TUBE AMP., INCLUD
 IR. COMMAND RECEIVER TO BE POSITIONED SUBCUTANEOUSLY OR IN ABDOMINAL CAVITY OF ANIMAL, TO RECE
 AC. PLATINUM RESISTANCE THERMOMETER (PRT) BRIDGE FOR HIGH RESOLUTION DIFFERENTIAL THERMOMETE
 IR. TRANSMITTER USING TIMER (AF. OSCILLATOR) & LED./IR. RECEIVER USING PHOTOCCELL (PHOTODIODE), INCL
 RC. I&D FILTER THAT OPERATES AT 1GBIT-S USING GAAS. MESFET.S IN INPUT STAGE & OUTPUT BUFFER, RESET
 SW. CONVERTER FOR USE WITH CAR AM. RADIO (RECEIVER), USING FREQUENCY-CONVERTER IC THAT AMPLIFI
 DC. PS. CCT FOR ACTIVE DBM. BASED ON "TRANSCONDUCTANCE CELL"/INPUT CCTS FOR DBM. (5)/OUTPUT CCTS
 HV. LOW-IMPEDANCE DC. VOLTAGE REGULATOR USING JUNG 317-TYPE REGULATOR INCORPORATING SULZER-T
 DC.-DC. CONVERTER (VOLTAGE DOUBLER CCT) USING TIMER, THAT POWERS (DRIVES) 24V DC. ANTENNA RELAY
 HV. DC.-TO-AC. INVERTER THAT CONVERTS DC. VOLTAGE TO HIGH-AMPLITUDE SQUARE WAVE IN AF. RANGE, US
 13.8GHZ (KU-BAND) LARGE-SIGNAL MESFET. MICROWAVE SERIES FEEDBACK OSCILLATOR IMPLEMENTED IN MIC
 IR. OPTICAL INTERRUPTER CCT USING TONE DECODER & LED.-PHOTODETECTOR PAIR, IN WHICH RECEIVING PA
 SW. SUPERHETERODYNE RECEIVER THAT TUNES 8.5 TO 11MHZ IN 2 BANDS & INCLUDES 455KHZ IF. FILTER, AGC
 HV. DIVIDER FOR USSR-MADE GAMS VENETIAN BLIND 12-STAGE PHOTOMULTIPLIER (PM), TO OBTAIN MAXIMUM F
 SH. AMP. WHOSE SLEW RATE IS IMPROVED USING 2 BYPASS DIODES/SAME USING DMOS. SWITCH TO BYPASS O
 IR. TRANSMITTER INCLUDING LED./IR. FM. TRANSMITTER INCLUDING LED./IR. FM. RECEIVER INCLUDING LED. & P
 IR. TRANSMITTER THAT SENDS AUDIO SIGNALS TO IR. RECEIVER/IR. RECEIVER THAT PICKS UP SIGNALS FROM T
 21.4MHZ LC. DISCRIMINATOR USING IF. AMP./21.4MHZ DELAY LINE DISCRIMINATOR/70MHZ LC. DISCRIMINATOR/70
 LV. 5-STAGE MARX GENERATOR USING SCR.S AS LV. ANALOG OF SPARK GAP SWITCHES/COCKROFT-WALTON C
 RF. DATA RECEIVER USING VHF. MIXER-OSCILLATOR, IF. STRIP & OA. DATA COMPARATORS, WITH FSK. & ASK. O
 PS. TESTER THAT ENABLES MEASUREMENT OF DYNAMIC RESPONSE OF DC. PS., USING POWER MOSFET. TO SW
 PS. FOR INSTRUMENTED SPHERE (IS) DAS./ANALOG CONDITIONING CCT/DIGITAL CONTROL & ADDRESSING CCT,
 DC. AMP. FOR SWEEPING LANGMUIR PROBES
 PS. CCT, RAMP-RESET CCT & SH. CCT, OF LIQUID FLOW DETECTING SYSTEM THAT INCLUDES MOD. VOLUMETER
 DC. WHEATSTONE BRIDGE WITH BALANCE METER REPLACED COMPARATOR & INDICATION ON TRI-COLOR LED.
 PS. INCLUDING 2 FLOATING 0-50V 0-5A DC. VARIABLE SUPPLIES & FIXED +5V 3A DC. SUPPLY, USING ADJUSTABLE
 RF. AMP. (VHF.-UHF. PREAMP.) WITH OPERATING FREQUENCY RANGE OF ~140MHZ TO ~450MHZ, NF. OF ~2DB AT
 HV. CONTROL CCT THAT CONVERTS ANODE CURRENT OF PMT.S TO PROPORTIONAL VOLTAGE THAT IS COMPAR
 AC. INTERFACING (AC. VOLTAGE TO AC. CURRENT CONVERTER) CCT USING OA., PROVIDING SMALL (UA) AC. CO
 AC. SIGNAL CONDITIONING & LOG CONVERSION CCT FOR HUMIDITY SENSOR/CCT USING SENSOR WITH OUTPUT
 RF. PULSER BOARD THAT GATES EXCITATION SIGNAL/PREAMP. BOARD WITH VOLTAGE GAIN OF 2500/SIGNAL-PR
 DC. COUPLED SELF-BALANCING BRIDGE OSCILLATOR USING IC OA., THAT ADJUSTS ITSELF QUICKLY TO DC. BAL
 RF. CONTROL CCT/FILAMENT CONTROL CCT/CELL PLATE BIAS CCT/ICR. SIGNAL AMP./BUTTERWORTH FILTER
 PS. CONSISTING OF 2 INDEPENDENT, ACTIVE CURRENT SOURCES THAT USE MOSFET. TRANSISTORS
 PS. TO CONVERT +-50V INTO 5V FOR ECL. CCT IN 7A42 VERTICAL-AMP. MODULE FOR 7000 SERIES OSCILLOSCOP
 DC.-TO-DC. CONVERTER FOR NEGATIVE GROUND CAR SYSTEM, TO CONVERT +13.8V DC. TO +-36V DC. & +-45V D
 SH. CCT/SH. TEST CCT, INCLUDING QUAD CMOS. SPST. ANALOG SWITCH
 DC. VOLTAGE SOURCE & PULSE GENERATOR, INCLUDING BIPOLAR VOLTAGE SOURCE, DRIVING GENERATOR, &
 PS. (PSU SECTION) OF MAIN BOARD OF UNIVERSAL COUNTER TIMER)/CCT TO ATTENUATE 5V 10MHZ SQUAREWA
 SH. CCT OF ADC. SYSTEM/ANALOG & DIGITAL MUX.ING CCT/ADC. & CHANNEL WIDTH AVERAGING CCT, INCLUDING
 OA. CCT THAT SUMS ECHO TRAIN & STROBE PULSES NORMALLY USED TO INTENSIFY SELECTED ECHOES, WHO
 AC.-COUPLED HV. AMP.
 SH. CCT USING OA. AS BOXCAR INTEGRATOR (DETECTOR) TO ANALYZE REPETITIVE ULTRASONIC PULSE ECHOE
 SH. IN CONNECTION WITH ADC.
 HV. SECTION OF FEL (FREE-ELECTRON LASER) RF. SYSTEM/3-GAP CROWBAR CCT USING 2 TRIGGERED SPARK C

SH. CCT THAT IS TESTED FOR MEASURING PHASE BETWEEN 2 SINUSOIDAL WAVES WITH F=150HZ
IA. FOR LF. SQUARE WAVE AMPLIFICATION, CONSISTING OF IA., SH. AMP. & SUMMING AMP., IN WHICH SATURATION
PS. USING MODULAR DC.-TO-DC. CONVERTERS, WITH ISOLATED OUTPUTS (BBB)
OA. SUMMING (ADDING) CCT/DIFFERENCING (SUBTRACTING) CCT/LOGARITHMIC AMP./ANTILOGARITHMIC AMP./R
TV. SIGNAL PROCESSING CCT TO PROVIDE DC. RESTORATION SIGNAL FOR AC. COUPLED COMPOSITE VIDEO SIGNAL
11.1W, 3-OUTPUT UNIVERSAL-INPUT PS. THAT CAN BE USED ON ANY MAINS SUPPLY FROM 100V TO 220V, USING
PS. FOR DYNACO ST-120 POWER AMP., USING OVERVOLTAGE POWER TRANSFORMER, INCLUDING PREREGULATION
AC. POWER SWITCHES (6)/ZERO-CROSSING SYNCHRONOUS LINE SWITCH/ZERO-VOLTAGE SWITCHES (5)/LAMP DR
IO. INTERFACES INCLUDING INPUT CCT & OUTPUT CCT, EACH CONSISTING OF SENDER & RECEIVER IN 20MA CUR
HV. PLASMA PS. WITH OUTPUT OF 10KV AT 25KHZ, FOR EYE-OF-THE-STORM-LIKE DISPLAY & OTHER PLASMA & N
HV. LABORATORY PULSE GENERATOR USING AUTO-IGNITION COIL, TO DELIVER TRAIN OF PULSES TO 30000V, US
HV. PULSE GENERATOR TO PRODUCE 7500V SATURATED OUTPUT PULSE & AS LINEAR AMP. GENERATES 10US 5
PS. WHOSE SECONDARY SYSTEM IS COMPRISED OF +-37V DC. SUPPLY, & HV. SUPPLY USING VOLTAGE DOUBLER
HV. DC. PS.
DC.-COUPLED SPEAKER PROTECTION CCT
PS.
RF. VOLTMETER COVERING RANGE FROM 70MV TO 3V RMS. & 10KHZ TO 150MHZ, WITH ACCURACY OF +-2DB/2-S
OA. WITH NEGATIVE FEEDBACK & PUSH-PULL OUTPUT STAGE (2)/BIASING NETWORK TO REDUCE DISTORTION
PC.-AT MOTHERBOARD USING CHIPSET FROM VLSI. TECHNOLOGY THAT REDUCE DEVICE COUNT FROM 110 TO 1
OA. IN NONINVERTING CONFIGURATION/CCT TO MEASURE SETTLING TIME/OA. IN INVERTING CONFIGURATION
UP. & ADDRESS LINE BUFFERS/DECODING FOR 16 RAM.-ROM. SOCKETS/DUAL UART. COMMUNICATIONS
HF. 8TH-ORDER ELLIPTICAL BANDPASS FILTER WITH CENTER FREQUENCY AT 90KHZ WITH PASS-BAND FROM 81
IA. FOR REMOTE BATTERY OPERATED INSTRUMENTS
DM. INCLUDING, INTEGRATOR OA., D-TYPE FF. & ANALOG SWITCH/AVERAGE-OUTPUT DM./ADC. BASED ON DM. (B
AM.-FM. RECEIVER
PS.-WIRELESS REMOTE CONTROLLER THAT CAN OPERATE BSR-TYPE REMOTE CONTROLLERS
HV. GENERATOR (SWITCHING-MODE FLYBACK DC.-DC. CONVERTER) OF QHVM (QUAD HV. MODULE), USING STEP
IA. WITH STABLE CLOSED-LOOP GAIN BETWEEN 1 & 1000/2V PS. REGULATOR
CW. FILTER & ENHANCER THAT CANCELS NOISE (QRM & QRN) & BROADBAND INTERFERENCE
IR. TRANSMITTER PRODUCING 1KHZ SIGNAL/IR. RECEIVER INCLUDING SELF-BIASING TRIGGER LEVEL COMPARA
AC.-COUPLED BUFFER (BIOPOTENTIAL AMP.) THAT PROVIDES HIGH INPUT IMPEDANCE, SUITABLE FOR BIOELECT
10.2V DRIVEN DC. PS. & DUAL-MODE MODULATOR/DISPLAY CCTS/PSK. DEMODULATOR & COSTAS LOOP, INCLUD
HV. & DISCRIMINATOR CCTS & READOUT SYSTEM OF COUNTER FOR POSITION DETECTOR OF COSMIC RAY TELE
HV. DISCHARGE CCT WITH MAGNETIC AMP., PLASMA SHUNT CAPACITOR & HIGH-CURRENT SWITCHES/TRIGGER
IO. PORT DEMONSTRATION CCT USING OCTAL DARLINGTON DRIVER & 8 LED.S, TO OBTAIN VISUAL INDICATION C
AC. POWER-OUTPUT INTERFACE TO CONTROL 100W LAMPS & OTHER LOADS FROM MICROCONTROLLER OR PC./L
LF. CIRCULATOR-ISOLATOR THAT WORKS DOWN TO DC., WITH SUPERB REVERSE ISOLATION & IMPEDANCE CHA
DC.-COUPLED TRANSIMPEDANCE AMP. USED AS 1ST STAGE OF AUTOMATED SYSTEM FOR LOW-NOISE MEASUR
CW. FILTER OF CW.-SSB. FILTER/STAGGER-TUNED PHONE FILTER INCLUDING BANDPASS FILTERING & LPF.ING/S
AC. CCT BREAKER WITH ADJUSTABLE TRIP POINT, HIGH SPEED & FAST RELAY CONTROLLED BY OPTICALLY ISOL
DC. ADAPTER THAT PROVIDES REGULATED 9V SOURCE TO OPERATE KENWOOD TR-2500 HAND-HELD TRANSCEI
HV. FOLDBACK CCT THAT PROVIDES HIGH IMMUNITY TO INPUT-VOLTAGE VARIATIONS, USING HV. OA. TO SAMPL
AF. DRIVE INDICATOR THAT INDICATES WHEN -3DB CUT-OFF POINT & CLIPPING LEVEL OF AMP. ARE EXCEEDED,
PS. THAT PROVIDES REGULATED 32V OUTPUT FOR MAIN BOARD & TUNING CCT, & 5V OUTPUT FOR SYNTHESIZE
FM. PACKET DEVIATION METER CONSISTING OF BUFFER AMP., & FULL-WAVE RECTIFIER & BUFFER, PICKING UP
TV. SOUND CONVERTER DESIGNED TO CORRECT DEFICIENCIES OF TV. SOUND-SYSTEMS & IMPROVE SOUND QU
AM. STEREO-READY FRONT END USING IC WITH RF. AGC. OUTPUT & TUNING METER CCT/CCT TO DECODE MAGN
OA. TESTER THAT GIVES GOOD-BAD INDICATION OF DUT., CONSISTING OF 1KHZ WIEN-BRIDGE OSCILLATOR DES
IR. REMOTE CONTROL TRANSMITTER INCLUDING KEYPAD CONSISTING OF 8X8 MATRIX, & KEYBOARD ACTIVE LE

LC. METER (TEST CCT) THAT, IN CONJUNCTION WITH COMMODORE 64 COMPUTER, MEASURES INDUCTANCE, CAPACITANCE, & RESISTANCE (SIMPLE COMPUTER INTERFACE)

HF. FAX DEMODULATOR (SIMPLE COMPUTER INTERFACE)

PS./INPUT CCT/CONTROL LOGIC/TIMEBASE/COUNTER & DISPLAY LOGIC FOR ADD-ON DIGITAL DISPLAY

PS. SUITABLE FOR POWERING OA. CCTS WHICH REQUIRE POSITIVE & NEGATIVE SUPPLY VOLTAGES

SH. CCT (CHARGE RESTORER)

RH. MEASURING CCT

FM. STEREO-SCA (SUBSIDIARY COMMUNICATIONS AUTHORIZATION) RECEIVER TO TUNE IN SIGNALS ON FM. BANDS

IA. WITH COMMON-MODE PHASE COMPENSATION IN INPUT STAGE USING OA.S

FM. DEMODULATOR CCT USING 1-CHIP PLL. IC CONSISTING OF PHASE DETECTOR (PD), LPF. (LOOP FILTER) (LF),

LF. PHASE METER USING CMOS. EXCLUSIVE-OR GATE & QUAD COMPARATOR, INCLUDING ZCD.S, BUFFERS, UNIT DELAYS

LF. PHASE METER WITH ACCURACY BETTER THAN 0.5DEG, USING CMOS. DUAL D FF., CMOS. SCHMITT INVERTER

PS. THAT PROVIDES FIXED 5V OUTPUT FOR TTL. & VARIABLE VOLTAGE OUTPUT RANGING FROM ~1.2V TO 21V, IN 1V STEPS

RF., ALC, & MULTIMETER CCTS OF HF. LINEAR AMP./CONTROL CCTS/BLOWER DELAY & DC. SUPPLIES/13.5V FILAMENT

AC. HEATER CONTINUITY MONITOR TO CONTROL B+ VOLTAGE, PERFORM BUILT-IN TEST, & MONITOR AC. LINE VOLTAGE

10.256GHZ MICROWAVE X-BAND BEACON USING 140MW GUNN DIODE OSCILLATOR, THAT PROVIDES STABLE SIGNAL

UP. PS. WATCHDOG

HF. PACKET TUNING INDICATOR CONSISTING OF 2 PLL. DECODING IC'S

RF. TRANSMITTER USING CONVERTED MICROWAVE OVEN, WITH ACCEPTABLE PERFORMANCE FOR AMATEUR TV

DC. PS. & THERMISTOR PROBE ASSEMBLY CONSISTING OF OMEGA THERMISTOR COMPOSITE BEAD, FOR RESISTANCE

HV. PULSE CONTROL & INTERFACE CCT, INCLUDING SCR. GATE CONTROL CCT/DIODE TEMPERATURE PROBE

RF.-TRIGGERED BISTABLE SWITCH/LIGHT-TRIGGERED BISTABLE SWITCH/MONOSTABLE LIGHT-TRIGGERED SWITCH

PS. FOR TAPE RECORDER USING WELL-BYPASSED VOLTAGE REGULATOR, WITH 12V IN & +6V OUT/SAME, WITH COMMON

CD. HEADPHONE AMP. USING PAIR OF AUDIO POWER AMP. IC'S, INCLUDING 2 VOLUME CONTROLS TO ALLOW FOR

HV. BIASING CCT OF GM RADIATION DETECTOR/CCT FOR DETECTION OF GM TUBE BIAS FAILURE/CCT TO DETECT

AF. AMP. USING AUDIO AMP. IN 8-PIN DIP. PACKAGE, INCLUDING SINGLE-POLE 3-POSITION SWITCH TO SET GAIN

DC. MOTOR ELECTRONIC CONTROLLER, DRIVING ROTATING CHOPPER

IR. EMITTER & PHOTODETECTOR

RC.-ACTIVE 2ND-ORDER BANDPASS FILTER USING NORTON AMP.

IR. TRANSMITTER/IR. RECEIVER/OUTPUT CCT USING VMOSFET./IR. 1 CHANNEL BIOTELEMETRY SYSTEM FOR HEAVY

IR. INTRUSION ALARM/TRANSMITTER/RECEIVER/PS.S (2)

UP.-CONTROLLED HF. UNIT USING PLL. (BBB)/MODULATOR SECTION OF HF. UNIT WITH ECL. INPUT & OUTPUT BUFFERS

HV. AMP. ABLE TO SUPPLY 0 TO 2500V TO LOAD, BUT DRAWING ONLY 10UA MAX QUIESCENT CURRENT, SUITABLE FOR

FM. DEMODULATOR USING PLL.

RF. DETECTOR TO LOCATE HIDDEN LOW-POWER TRANSMITTERS, WHOSE FRONT-END USES MMIC. WIDE-BAND AMPLIFIER

HV. SECTION OF DIGITAL MODULATOR/CCT FOR SYNCHRONOUS DEMODULATOR, SHOWING VCO.S, GATING, UP-DOWN

HV. CONTROLLER TO PROVIDE OUTPUT VOLTAGE CHANGE OF 100V IN 1% INCREMENTS, WITH DRIVE CURRENT

CD. OR DIGITAL TAPE RECEIVER INTERFACE, USING DIGITAL INTERFACE FORMAT RECEIVER CHIP, 8X INTERPOLATION

AC. POWER MONITOR TO ENABLE COMPUTER TO MEASURE ELECTRICAL POWER CONSUMPTION/CCT TO CONNECT TO

IR. ROAD ICING ALERT INCLUDING THERMISTOR THAT IS PART OF BRIDGE THAT DRIVES COMPARATOR THAT DETECTS

UP. PS. SYSTEM

IR. BURGLAR ALARM (2)

RF. DETECTOR (SNIFFER) TO LOCATE RF. INTERFERENCE OR ELECTRONIC BUGS (EAVESDROPPING DEVICES), USING

PS. (3)/10.000V REFERENCE SOURCE/VOLTAGE REFERENCE BUFFERS (2)/MULTIPLIER/INTEGRATOR/5X1, 2X10 SU

IR. TRANSMITTER/RECEIVER/TRANSMITTER THAT MODULATES 40KHZ CARRIER/RECEIVER USING TONE DECODE

TR. CCT USING 4 TRANSISTORS, & QUAD OA., TO DETECT SPEED OF MOVING BODY, USING DOPPLER EFFECT/CO

FM. DIVERSITY CCT THAT MONITORS 19KHZ PILOT SUBCARRIER & SWITCHES ANTENNAS, TO ELIMINATE MULTIPATH

OA. CCT WITH 2 CMOS. INVERTERS ADDED TO INCREASE SWING FROM ~3.5VPK-PK TO ~4.9VPK-PK WHEN USING

DC.-DC. CONVERTER USING SWITCHING REGULATOR (SMPS. CHIP), TO FEED 3.3V LOGIC FROM 24V PS./CCT USING

UP.-BASED THYRISTOR FIRING DELAY SUBCONTROLLER THAT ACCEPTS PI CONTROLLER ACTUATING SIGNAL FROM

PM. ANALOG DIVIDER USING OA. & COMPARATOR, WITH 50US REPETITION PERIOD, 15MV DENOMINATOR & 1.5MV PS. FOR ALARM

IR. TRANSMITTER OF REMOTE A/B SWITCH (CONTROL), USING IR. LED./RECEIVER USING IR. PHOTOTRANSISTOR

HF. SPECTRUM ANALYZER USING TIMER IC & VARACTOR DIODE, FOR USE IN CONJUNCTION WITH OSCILLOSCOPE

UP. MONITOR TO GENERATE STREAM OF RESTART PULSES IN SYNCHRONIZING PULSE STREAM HANGS UP, USING

SH. CCT PROVIDING UNLIMITED HOLD TIME WITHOUT DROOP, BY DIGITIZING ANALOG INPUT WITH ADC. & CONVERTING

IR.-PULSE-TO-AUDIO CONVERTER USING IR. DEMODULATOR, TO TROUBLESHOOT IR. REMOTE-CONTROLS/IR. DEVICES

PC. INTERFACE CCT USING OPTOISOLATORS TO PROVIDE ISOLATION BETWEEN RING-THING & PC./TELEPHONE INTERFACE

AC. ADAPTER

HV. DIVIDER USED FOR MEASUREMENT OF PHOTOMULTIPLIER (PM) GAIN VARIATIONS DURING SIMULATED ACCIDENTS

RF. OSCILLATOR & GATE FOR GENERATOR OF INTERRUPTED RF. OSCILLATIONS IN SEQUENCE OF BURSTS/CONTINUOUS

RF. TRANSMITTER/ALARM DECODER CCT

DC. VOLTAGE REFERENCE FOR BATTERY OPERATION, CONSISTING OF CONSTANT CURRENT SOURCE, CONSTANT VOLTAGE

AC. AMP./COMPARATOR/SCHMITT TRIGGER/OVER- & UNDER-TEMPERATURE SWITCHES (2)/UNDER-VOLTAGE DETECTOR

RF. EXCITED HOLLOW-CATHODE LAMP DRIVER INCLUDING SECTIONS FOR INJECTING CURRENT PULSES & RF. SIGNAL

AF. METER (FREQUENCY COMPARATOR) CONSISTING OF INPUT AMP. & REFERENCE OSCILLATOR, USING LED. TUBE

CW. (AUDIO) FILTER WITH CONTINUOUSLY ADJUSTABLE BANDPASS & CENTER FREQUENCY OF ~700HZ, USING Q-FILTER

PS. CCT FOR INSTRUMENTED SPHERE (IS) DAS./ANALOG CONDITIONING CCT/DIGITAL CONTROL & ADDRESSING

DC.-RESTORATION CCT FOR COLOR-DIFFERENCE SIGNALS/SYNC-SEPARATION CCT/RGB. VIDEO CONVERTER/CONTROL

HV. PULSE CONTROLLER (PULSE DISCRIMINATORS & PULSE SWITCHING CCT FOR STATOR ELECTRODE) USING LOGIC

CW. OFFSET TUNING INDICATOR THAT PROVIDES VISUAL INDICATION AT SIGNAL & SIDETONE MATCH, USING TUBE

AC. CONSTANT-CURRENT SOURCE USING DIODE BRIDGE & REGULATOR, TO PROVIDE EXCITATION FOR 3-TERMINAL

PS. OF XYZ-TRANSLATION SYSTEM/SERVO MOTORCONTROLLER, SHOWING 1 AXIS, USING WHEATSTONE BRIDGE

DC. MOTOR-CONTROL CCT TO CONTROL SPEED & DIRECTION/CCTS TO PREVENT SIMULTANEOUS TRIGGERING (

UP.-BASED REALTIME CYCLIC ERROR-CORRECTING COMMUNICATIONS DECODER INCLUDING MICROPROGRAM

FM. OSCILLATOR/PLL. DRIVE & REGENERATIVE FEEDBACK CCT (2)/ACTIVE FILTER/PHASE SHIFTER/SIGNAL PROCESSOR

IR. EMITTER-SENSOR, AMP. & RELAY (DRIVEN BY VOLTAGE COMPARATOR) FOR AKTOGRAPH THAT RECORDS INSTRUCTIONS

PS./VOLTAGE GENERATOR/HEATING CCT/WINDOW COMPARATOR/FIELD VOLTAGE COMPARATOR/LOGIC CCT

FM. RECEIVER INCLUDING RF. AMP., OSCILLATOR, MIXER, IF. AMP., QUADRATURE DETECTOR, PLL. STEREO MUX

IA. WITH FLAT MAGNITUDE & PHASE RESPONSES OVER EXTENDED (WIDE) FREQUENCY RANGE, COMPRISING 5 OCTAVES

PS. OVERLOAD PROTECTION CCT THAT SENSES ANY SUDDEN INCREASE OR DECREASE IN OUTPUT VOLTAGES

IA. FOR PHYSIOLOGICAL SIGNALS, USING 3 OA.S./IMPROVED, LOW-NOISE IA.

AM. INTERFACE CCT USING PLL. CMOS. IC AS LINEAR VCO./PLAY BACK CCT TO RECOVER SIGNAL ON TAPE, USING

HV. REGULATOR USING IC CONTAINING 2 OA.S & 200MV REFERENCE OPERATING ON FLOATING SUPPLY OF 3 DIGIT

CW. SHAPING CCT FOR KENWOOD TS-820S

RF. CURRENT LOOP TO DETECT RF. CURRENT IN ANTENNA, INCLUDING METER, SENSITIVITY POTENTIOMETER, &

AM. BC. RECEIVER IN WHICH GIMMICK IS COIL ON WHICH, IF ALLIGATOR CLIP IS USED AT VARIOUS TAPS, STATIC

AC. LINE VOLTAGE MONITOR THAT MEASURES FROM 90VAC. TO 130VAC. OVER ENTIRE SCALE OF 500UA METER

DC.-TO-DC. CONVERTER WITH OPERATING FREQUENCY OF 6450HZ, 68% EFFICIENCY & 15V DC. OUTPUT FOR 5V

DC.-DC. CONVERTER/CONTROL CCT TO MAINTAIN EFFICIENCY BY GENERATING BASE DRIVE TO TRANSISTORS IN

DC.-COUPLED TEMPERATURE CONTROLLER WITH 100UK TEMPERATURE STABILITY AT & ABOVE ROOM TEMPERATURE

RF. OUTPUT METER (AC. VOLTMETER) FOR QRP (LOW POWER) OPERATION BELOW 5W

PS. UNIT WITH REENTRANT SHORT-CCT PROTECTION/TWIN STABILISED PSU WITH OUTPUT OF 3A AT 45V

AC.-SWITCHING CCT, INCLUDING RELAY/TONE DECODER-DELAY (TONE-DETECTOR CCT USING PLL. CHIP)

RF. OSCILLATOR & AMP. CCT/RECEIVER TO RECEIVE PM. SIGNAL FROM RF. OSCILLATOR, INCLUDING TANK CCT

RF. WATTMETER (BRUENE CCT) THAT GIVES ACCURATE READING IN 0 TO 5W RANGE, USING TOROIDAL TRANSFORMER

HV. (DC.) PS. THAT PROVIDES UP TO 2500V AT 1.2A CONTINUOUSLY/1 LEG OF BRIDGE RECTIFIER WITH PIV RATING

HV. SRDPG (SRD. PULSE GENERATOR) TO PRODUCE 400 TO 500V PULSES WITH RISE & FALL TIMES OF 0.8NS, & A

RF.-GAIN CONTROL CCT FOR TEN-TEC ARGOSY 525

Sheet1

CW. AUDIO FILTER/AUDIO FILTER THAT USES 2 POT CORES IN DOUBLE-TUNED LC. FILTER
DC. MOTOR CONTROL BOARD OF SAMPLE CHANGER SYSTEM, INCLUDING DIRECTION SELECT THAT AVOIDS SHORTS
CB.-STYLE (CB.-TYPE) VSWR. METER USING INTERNAL DIRECTIONAL COAXIAL COUPLER, INCLUDING DETECTOR
AF. DOT GENERATOR
AF. JFET. INPUT AC. CASCODE PREAMP. WITH CLOSED LOOP GAIN OF 1000 BETWEEN -3DB POINTS OF 10HZ & 17
CW.-SSB. ADAPTER USING 455KHZ IF. TRANSFORMER & GENERAL-PURPOSE TRANSISTOR, ESSENTIALLY CONSISTING OF
TR. SWITCHING METHOD/SEMICONDUCTOR SWITCH/SERIES-DIODE SWITCHING CCT/TRANSISTOR KEYING SWITCH
HV. PS. TO PROVIDE 1000VDC. TO PLATE, 6.0VAC. FOR FILAMENTS & 8-20V FOR CATHODE OF MOD. ADLER UHF. C
PC.-XT BASED VARIABLE TEMPERATURE CONTROLLER (BBB)/CONSTANT CURRENT SOURCE & PREAMP. OF TEMPERATURE
IR. RECEIVER/ULTRA-SIMPLE IR. TRANSMITTER/WIRELESS TELEPHONE EAVESDROPPER
RF. CONVERTER BASED ON DC. BRIDGE, TO ALLOW LINEAR CONVERSION OF RESISTANCE DEVIATION TO FREQUENCY
HV. CCT FOR PRODUCING DC. SPARK TO REPLACE MULTIKILOVOLT MARX CCT, USING HV. TRANSISTOR
HF.-OSCILLATOR CCT/LF. CRYSTAL OSCILLATOR CCT
LO. PORTION OF ADAPTER/DOUBLY BALANCED MIXER/PREAMP. STAGE/POSTAMP. STAGE
LC. CHECKER TO MEASURE CAPACITANCE TO ~1000PF & INDUCTANCE TO 50UH, BASED ON "GRID-DIP" (ABSORPTION)
PS. THAT CAN BE CONFIGURED TO PROVIDE POSITIVE OR NEGATIVE VOLTAGES & ALLOWS USE OF FULL-WAVE RECTIFICATION
IR. TRANSMITTER USING UP., EPROM. & KEYPAD/IR. RECEIVER/IR. REMOTE CONTROL SYSTEM CONTROLLING SCISSOR
LO./MIXER/RF. AMP./LECHER WIRES/UHF. TEST OSCILLATOR/GATED NOISE GENERATOR
RF. VOLTMETER PROBES (DEMODULATOR PROBES) TO COUPLE TO SIGNAL TRACER TO TROUBLESHOOT RF.-IF.
RF. INPUT STAGE USING 6 BANDPASS FILTERS & 2 VARACTOR-TUNED INPUT FILTERS (3)/INPUT RF. SECTION OF
RF. OUTPUT MONITOR USING DIODE RECTIFIER & METERING CCT, INCLUDING DISK CERAMIC CAPACITOR TO BYPASS
PS. CURRENT LIMITER TO PROTECT AGAINST EXCESSIVE CURRENTS IF LOAD IS SHORT-CIRCUITED
CB. FIELD-STRENGTH METER (FSM) TO HELP GET BETTER SIGNAL TRANSFER BETWEEN ANTENNA & TRANSCEIVER
LF.-VLF. ANTENNA PREAMP.-ISOLATOR CCT
RF. SAMPLER PROBE
DC. AMP. WITH OFFSET NULLING, TO CONVERT INPUT CURRENT TO OUTPUT VOLTAGE (ACTIVE CURRENT-TO-VOLTAGE)
LF. RANDOM-NOISE GENERATOR THAT USES OUTPUT OF NOISY ZENER DIODE TO DRIVE UP-DOWN COUNTER, IN
UP.-CONTROLLED PHOTOMETRIC ANALYSER FOR ANALYSIS OF CRYSTALLOGRAPHIC ORIENTATIONS IN THIN SECTIONS
PS. FOR HOT WIRE GLASS BOTTLE CUTTER, CONSISTING OF 12V STEP-DOWN TRANSFORMER ABLE TO SUPPLY 12V
DC. CCT BREAKER FOR ELECTRONIC DEVICES, ALSO ACTING AS TIME-DELAY FUSE THAT CAN BE RESET, CONSISTING OF
UV. LAMP PULSER TO PRODUCE PULSED UV. LIGHT FROM LOW PRESSURE MERCURY VAPOR LAMP, BY MODULATING
FM. TRANSMITTER CONSISTING OF CONDENSER MICROPHONE USED TO MODULATE OUTPUT OF SMALL 1-STAGE
UP. MEMORY BOARD USING TI'S EDAC (ERROR DETECTION & CORRECTION)/EDAC CONTROLLER/SIMPLE CCT FOR
LF. (60KHZ) HIGH-Q FERRITE ROD CALIBRATION ANTENNA INCLUDING VMOSFET. AMP. TO MATCH HIGH IMPEDANCE
RF. PROBE CONSISTING OF CAPACITOR TO COUPLE SMALL AMOUNT OF RF. TO GERMANIUM DIODE THAT RECTIFIES
RF. PROBE/EQUIVALENT CCT OF PROBE & VOLTMETER/10:1 RESISTIVE DIVIDER TO EXTEND RANGE OF RF. PROBE
TV.-VIDEOGAME SWITCH MOD. CONSISTING OF DPDT. RELAY, THAT FUNCTIONS AUTOMATICALLY WHEN POWER
LV. LOOP SUPPLY FOR USE WITH TU./LOOP EXPANDER TO "EXPAND" LOOP TO ADD ANOTHER PAIR OF SELECTOR
RF. TEST PROBE (SENSOR) WITH DOUBLE HETEROJUNCTION LED. AS RF. DETECTOR, INCLUDING DIPOLE, RECEIVING
24.9MHZ TRANSMITTER
HV. SWITCHING CCT WITH OPTICAL TRIGGER, CONSISTING OF AVALANCHE CASCADE OF 10 TRANSISTORS, TO SWITCH
RF. OSCILLATOR FOR USE IN BANDSWEEPER PROJECT, INCLUDING FEEDBACK CONTROL & VARACTOR
PS. USING VIBRATOR SUPPLY TRANSFORMER FROM AUTO RADIO/PS. USING HP 03502A CHARGER
PS. PERFORMANCE TESTER (ELECTRONIC-LOAD INSTRUMENT)
21.7MHZ SAW. INJECTION LOCKED OSCILLATOR (ILO) (DELAY LINE OSCILLATOR), WITH BUILT-IN INJECTOR, FOR
LF. SWITCHING CCT USING DC. VOLTAGE TO SWITCH AUDIO SIGNAL ON & OFF, USING STANDARD PN JUNCTION
LF. 455KHZ CRYSTAL OSCILLATOR USING 2.5MH RF. CHOKE, THAT PUTS OUT 8V RMS. OF RF.
DC.-DC. VOLTAGE CONVERTER USING GERMANIUM TRANSISTOR & SCHOTTKY DIODE, OPERATING AS SELF-BIASING
HV. PLZT (LANTHANUM-MOD. LEAD ZIRCONATE TITANATE) SHUTTER DRIVER (HV. PULSE AMP.) FOR BOXCAR PHOTOGRAPHY

RF. POWER CELL/DUAL POWER CELL/SINGLE-TRANSISTOR BC. RADIO/RECEIVER USING TRF (TUNED RF.) AMP./S
 HV. LINEAR AMP. TO BIAS LENS ELEMENTS FROM SINGLE REGULATED HV. SUPPLY, OPTO-ISOLATORS, CAPABLE
 DC. IN, DC. OUT IO. RELAY USING OPTOISOLATOR/SAME WITH DIODE BRIDGE TO CONVERT CONTROL INPUT TO /
 AC. VARIABLE SPEED MOTOR CONTROL CCT INCLUDING PHASE CONTROL CCT, USING UJT., OPTOCOUPLER & TR
 AC. POWER CONTROLLER FOR INDUCTIVE LOAD/ECG. PREAMP./AUDIO RANGE ISOLATION CCT
 IA. WITH HIGH GAIN & WIDE BW./INSTRUMENTATION CCT WITH 17V-US SLEW RATE
 TR. CCT WITH SIDETONE GENERATOR/TR. CCT FOR USE WITH LOW-POWER TRANSMITTERS
 DC. MOTOR CONTROLLER USING MOTOROLA POWER BRIDGE CONTAINING PAIRS OF P-CHANNEL & N-CHANNEL
 RF. SNIFFER CCT/300W 2M RF. AMP. CONVERSION
 AM. RADIO USING REGENERATION CCT, USING RF. & REGEN FET. TRANSISTORS TO AMPLIFY & DETECT RF. SIGN
 UP.-BUS COMPATIBLE VFC.-BASED CCT TO ISOLATE & DIGITIZE RTD.'S OUTPUT, USING FIBER-OPTIC RECEIVER &
 OA.-DIFFERENCE-AMP. COMBINATION/CCTS USING 2 PHOTODIODES BACK TO BACK (2)/PHOTOSENSOR CCT/NOR
 IA. USING 2 FET.-INPUT OA.S TO PROVIDE LOW NOISE & INPUT BIAS CURRENT, WITH COMMON FEEDBACK PATH I
 PS. FOR MAGNETIC QUADRUPOLE LENS THAT CONVERTS POINT INTO LINE FOCUS
 RF.-SNIFFER OUTPUT-INDICATOR CCT/ACTIVE RF.-DETECTOR PROBE/WIDEBAND RF. AMP./TUNED RF. WAVEMET
 IR. THERMOMETER ACCESSORY TO LET DMM. MEASURE TEMPERATURES WITHOUT PHYSICAL CONTACT, USING
 HV. AMP. (BOOSTER) TO PROVIDE +50V OUTPUT SWING, WITH HIGH GAIN & LOW OFFSET, USING GAIN STAGE W
 HV. PULSE AMP. TO PRODUCE 30-100V AT 50MA FROM 5V PULSES FROM MEDICAL COMPUTER, FOR USE AS STIM
 LF. LOCK-IN AMP. BASED ON LOW-DRIFT OA.S, 1ST AMP. BEING UNITY-GAIN HIGH-PASS ACTIVE FILTER, & 3RD BE
 OA. POLE-ZERO MODEL, CONNECTED AS INVERTING UNITY-GAIN AMP., THAT YIELDS OPEN- & CLOSED-LOOP & ID
 IR. REMOTE-CONTROL ANALYZER WHOSE SIGNAL PROCESSING IS PERFORMED BY IR. DETECTOR-DEMODULATO
 RC. FILTER WITH 2 DIODES ADDED TO IMPROVE SETTLING TIME/10KHZ NONLINEAR FILTER WITH ADJUSTABLE C
 AM. BC.-BAND RF. AMP. FOR RECEIVER OR CAR RADIO, WITH WIDE BW. & GOOD STABILITY
 AF. BROADBAND NOISE GENERATOR & RF. MIXER, OF BROADBAND 1\H NOISE DECOUPLER, USING 3 CASCADED
 RC. FILTER TO REDUCE RAIL AM. NOISE/PHASE NOISE REDUCTION CCT/LOW NOISE CLEAN-UP FOLLOWERS (2)/R
 OA. CURRENT NOISE TEST CCT USING UNITY GAIN AMP. WITH LARGE SOURCE IMPEDANCE/SIMPLE BRIDGE CCT
 OA. IN NONINVERTING-GAIN CONFIGURATION TEST CCT
 49.5-50.5MHZ VCO. OF PHASE-LOCK VFO./2-3MHZ VFO. WITH EXCELLENT LONG TIME STABILITY OF +-20HZ-H/9.5M
 AC.-COUPLED TRANSRESISTANCE CURRENT-TO-VOLTAGE AMP. TO MEASURE X-RAY RESPONSE WITH VARIOUS
 RF. SECTION (MARGINAL OSCILLATOR) OF HF. SPECTROMETER/CONTROL CCT FOR REGULATING LEVEL OF RF. C
 HF. INPUT MIXER FOR INSTRUMENTATION RECEIVER, USING MATCHED QUAD OF HOT-CARRIER DIODES & LINEAR
 HV. OPTICALLY COUPLED TRANSISTOR AMP. WITH DYNAMIC RANGE OF 600V PEAK TO PEAK
 RF. SYSTEM & ADAPTER CARD (BBB)
 HV. PS. CONTROLLED FROM SYSTEM'S TIMER FOR CORRECT PULSE APPLICATION
 DC. RESISTANCE THERMOMETER BRIDGE CCT CENTRED AROUND WHEATSTONE BRIDGE, 1 LEG OF WHICH IS CO
 DC. MOTOR DRIVE CCT CONSISTING OF 2 INVERTING OA.S CONNECTED TO FORM BRIDGE POWER AMP. CAPABL
 CW. RTTY. INTERFACE FOR APPLE II COMPUTER
 RF. INPUT MODULE/1000W BROADBAND VHF. (118 TO 136MHZ) LINEAR POWER AMP. WITH 18DB GAIN, TO OPERAT
 RC. FILTER FOR CAR TRANSIENT PROTECTION/CCT PROVIDING DECOUPLING & REGULATION/CMOS. PROTECTIO
 23.9KHZ QUASI-RESONANT BUCK CONVERTER TO VERIFY PREDICTED BEHAVIOR FOR SWITCH TOPOLOGIES
 HV. PRIMARY CCT WITH CURRENT SURGE PROTECTION FOR PS. COMPONENTS PROVIDED DURING INSTANT OF
 HF. CLASS E² RESONANT DC.-DC. CONVERTOR CONSISTING OF CLASS E INVERTER USING MOSFET. SWITCH &
 AF. GENERATOR WITH DIGITAL FREQUENCY-READOUT THAT IS EASY TO BUILD, ALIGN & USE
 RF. AMP. USING MOTOROLA TRANSISTOR, WITH SOURCE & LOAD RESISTANCES OF 50OHM, SHOWING IMPEDANC
 PS.-CHARGING CCT USING 2 600 PIV DIODES & SIZE 27, LEAD-ACID STORAGE BATTERY AS EMERGENCY POWER
 RF. OSCILLATOR (HF. TUNED, VARIABLE FREQUENCY HARTLEY OSCILLATOR) & POWER AMP., DESIGNED FOR 62
 LC. SINE WAVE OSCILLATOR/SQUARE WAVE GENERATOR USING COMPARATOR/LOGARITHMIC CONVERTER/MUX
 HF. HIGH-EFFICIENCY CLASS-E² RESONANT DC.-DC. CONVERTER INCLUDING CLASS E INVERTER & RECTIFIER,
 IA. WITH DIFFERENTIAL INPUT & OUTPUT, USING TRANSCONDUCTANCE OA., USEFUL IN APPLICATIONS WHERE V

AC.-TO-AC. ELECTRONIC TRANSFORMER (ETR) CONNECTED IN SERIES WITH AC. MAINS TO PROVIDE REGULATED TU. DESCRIBED IN QST8012/AUTO-START, ANTI-SPACE & MARK-DETECTOR INDICATOR CCT ADDITIONS FOR TU.
 HV. PULSER FOR MCP. GATING, IN WHICH FET. DRIVES 4 TRIGGER TRANSFORMERS THAT DRIVE 4 FET.S USED A
 DC.-DC. CONVERTER WITH 1.5KW (60V, 25A) OUTPUT POWER, OPERATING FROM REGULATED 370V SOURCE & 50
 DC. FILTERING CCT THAT FITS INSIDE CIGARETTE LIGHTER PLUG, CONSISTING OF LC. CCT, & 15V ZENER DIODE
 RF. OSCILLATOR/DETECTOR-AMP. (TRANSISTOR RADIO)/SIMPLE SW. RECEIVER
 HF. CONVERSION CCT OF INVERTER, USING 8 SIT'S TO OBTAIN OUTPUT POWER OF 12KW/DRIVE CCT FOR 400KH
 IA. WITH "SUPERBAL" INPUT STAGE, WITH FEEDBACK TO BOTH INPUTS OF 1ST OA., TO AVOID INPUT-IMPEDANCE
 IR. TRANSMITTER THAT PROVIDES OPTICAL (WIRELESS) CONNECTION TO HEADPHONE, USING FET. & IR. LED.S,
 IR. HEADPHONE RECEIVER TO COMPLEMENT TRANSMITTER, USING FET. & RECEIVE DIODE, TO DRIVE 600OHM H
 DC.-DC. CONVERTER THAT CONVERTS 1.5 TO 10V INPUT TO LEVEL OF -1.5 TO -10V USING 2 EXTERNAL CAPACITC
 UP. SYSTEM INCLUDING CPU., RAM. & ROM. (BBB)/DAS. USING UP. (CPU.), RAM.-IO.-TIMER & ROM.-IO. CHIPS, 16-C
 IO. ISOLATED 150W, 200KHZ SOFT-SWITCHING PWM. DC.-DC. CONVERTOR USING MOSFET.S & SATURABLE REAC
 RF.-MAIN & IF. UNITS OF ICOM IC-745 TRANSCEIVER (BBB)
 AM. & FM. BC.-BAND WIRELESS MICROPHONES
 HV. CCT THAT SUPPLIES CONSTANT-CURRENT, SINE-WAVE DRIVE FOR COLD-CATHODE FLUORESCENT LAMPS, U
 DC.-DC. CONVERTER WITH 100X REDUCTION IN WIDEBAND OUTPUT NOISE/SAME WITH 1000X REDUCTION (2)/CO
 DC.-DC. CONVERTER TO GENERATE 5V FROM 1.5V CELL INPUT/FLYBACK-TYPE REGULATOR/POSITIVE-BUCK-COM
 HV. WIDE-BAND CLASS-A DEFLECTION AMP. FOR CRT. IN OSCILLOSCOPE/DIFFERENTIAL AMP.
 PS. CCT TO GENERATE DUAL-OUTPUT SUPPLY FROM SINGLE INPUT VOLTAGE, USING SWITCHING REGULATOR I
 HV. TRANSISTOR CCT TO PRODUCE 200V, 5US-DURATION, 100NS RISE TIME, VOLTAGE PULSE TO PULSING PLATI
 HV. PULSER TO PRODUCE CURRENT PULSES BY DISCHARGING CAPACITOR THROUGH MOSFET. SWITCH/SIGNAL
 HV. AMP. WITH VOLTAGE GAIN OF 40 OVER BW. OF 10KHZ, & OUTPUT VOLTAGE SWING OF +-400V, INCLUDING MO
 HV. PULSED NOZZLE DRIVE (DRIVER) CCT TO PULSE GAS SOLENOID (2)
 LV. VERSION OF BOOST CCT USING 1 SWITCH (TRANSISTOR) TO CHARGE INDUCTOR & DISCHARGE CAPACITOR,
 FM. FOR 2M SYNTHESIZER, USING VARACTOR DIODE & QUAD NAND GATE/OPTIONAL SPEECH PRE-AMP., DEVIAT
 HV., LF. AMP. THAT PROVIDES 1500V AT 2MA TO CAPACITIVE LOADS SUCH AS PZT.S, USING PHOTOVOLTAIC ISOL
 RF. SECTION OF LO.
 RF. PREAMP. WITH >=20DB GAIN, USING 2 CASCADED MOTOROLA WIDEBAND AMP.S WITH 14DB OF GAIN FROM 0
 DC.-COUPLED VIDEO LOGAMP. COVERING RANGE FROM 0DBV (1V) TO -70DBV (316UV) WITH ERROR <=1DB, USIN
 HV. SWITCH CAPABLE OF SWITCHING 3.5KV IN <1US, CONSISTING OF 4 HV. POWER MOSFET.S TRIGGERED BY OF
 SH. WITH ZERO DROOP & INFINITE HOLD, USING ADC. CONTAINING 12-BIT COMPATIBLE TRACK-&-HOLD FUNCTIO
 HF. TRANSISTOR AMP. WITH SOURCE & LOAD IMPEDANCE OF 50OHM & GAIN OF 23DB AT 400MHZ, INCLUDING INF
 CD. PLAYER WITH CERAMIC RESONATOR FOR DIGITAL PROCESSING LS. (DSP.)/MECHANICAL SECTION OF FDD IN
 AM./FM. FREQUENCY & TIME DISPLAY
 HV. DC. PS. CCT OF PRECISION INSTRUMENTS, INC. MODEL E-200-C RF.-SIGNAL GENERATOR THAT COVERS 100K
 HV. X-RAY PULSER USING GRADIENT GRID HYDROGEN THYRATRON RATED AT 70KV FHV (FORWARD VOLTAGE H
 PS. UNIT (PSU) FOR RECEIVER SECTION R1155 OF AIR MINISTRY AIRCRAFT INSTALLATION, OPERATING FROM 23
 160M LINEAR AMP. SHOWING ONLY RF. CCT
 160M 1KW AMP. WHOSE RF. DECK CONSISTS OF 4 TUBES IN GROUNDED GRID SERVICE/HV. PS. INCLUDING RECT
 100KHZ CRYSTAL CALIBRATION OSCILLATOR, & CURTIS KEYER, TUNE & MARKER SWITCHES & KEYING CCT MOD
 4001-4011 TESTER
 200KHZ-2MHZ TUNABLE HIGH-Q BANDPASS FILTER USING BUFFER/RECEIVER USING 200KHZ-20MHZ FILTER TUNE
 100HZ TONE GENERATOR FOR CONTINUOUS TONE-CODED SQUELCH SYSTEMS, USING CMOS. DIVIDE-BY-10 CHIP
 1000HZ ACTIVE BRIDGE CCT CONTAINING THERMISTORS, CONNECTED AROUND OA. WITH VERY HIGH CMRR., TC
 Z80 SPECTRUM INTERFACE THAT READS MOST SINGLE-RAIL EPROM.S, & READS & WRITES NOV RAM.S & BATTER
 \$50 SPECTRUM ANALYZER USING COMMERCIAL MASS-PRODUCED VARACTOR TUNED TV. TUNER & OSCILLOS
 650MHZ AMPLIFYING PRESCALER PROBE WITH 2 TO 20MV OF SENSITIVITY, FOR USE WITH FREQUENCY COUNT
 100KHZ PRE-AMP./100KHZ PHASE DETECTOR & RECORDER PRE-AMP., INCLUDING FINAL DETECTOR & TIME CON

Sheet1

\$400 SIMPLE DAS. FOR PC8000 MICROCOMPUTER, WITH HIGH SAMPLING RATES UP TO 50KHZ
Z80 UP. BASED SYSTEM FOR RADIOTHERAPY APPARATUS UR-1C, INCLUDING SBC., PIT., PIC., PPI. & EPROM. (BBB)
Z80 ICE.
\$400 PROTON-RECOIL PROPORTIONAL COUNTER INCLUDING INPUT CURRENT-PULSE AMP., VOLTAGE AMP. & MUX.
I1000 DATA INTERFACE THAT CAN ADDRESS UP TO 256 PERIPHERAL DEVICES (2)/FRONT END (INTERFACE SECTION)
T1001 (I1000 INTERFACE PERIPHERAL) CONTAINING 100MHZ DIGITAL FREQUENCY COUNTER, EVENT-PERIOD MEASUREMENT
400HZ PS. THAT CAN BE USED WITH RADIO COMPASS FOR ANTENNA-DIRECTION READOUT
2304MHZ PREAMP.
200W FILAMENT MODULATOR (CONSTANT VOLTAGE POWER AMP.) TO TEMPERATURE MODULATE FILAMENT/FREQUENCY
100MHZ COMPOSITE COUNTER CONSISTING OF SMALL FAST 8-BIT COUNTER & LARGER SLOW SYNCHRONOUS 200MHZ
400HZ ACTIVE AUDIO FILTER WHOSE CENTER FREQUENCY CAN BE VARIED ~10%, TO IMPROVE CW. SELECTIVITY
000-999 EVENT COUNTER/PHOTOTRANSISTOR GAIN STAGE/PHOTOTRANSISTOR INPUT CCTS
6502 UP.-BASED INTERFACE CARD THAT PROVIDES APPLE II MICROCOMPUTER WITH PARALLEL PORTS, PROGRAMMABLE
\$50 HUMIDITY MONITOR CCT USING PHILIPS' HUMIDITY SENSOR, TO MEASURE RH.
6809 UP.-BASED SYSTEM CONTROLLER THAT USES PAL. FOR DRAM. ADDRESSING & REFRESH CONTROL (BBB)
8000-CHANNEL EPROM. BOARD TO ADD DIRECT FREQUENCY INPUT (ACCESS) TO RAMSEY FX-146 2M FM. TRANSISTOR
\$30 SYSTEM THAT EMULATES 8048 UP.'S FEATURES & INTERFACES WITH STANDARD TERMINAL/MINIMAL SYSTEM
2708 EPROM. PROGRAMMING CCT INCLUDING VOLTAGE REGULATION FOR PS.S (3)/CCT SHOWING MOD.S TO SAFETY
2708 ERASABLE ROM. (EROM) READER & PROGRAMMER, ATTACHED TO 3 PARALLEL 8 BIT OUTPUT PORTS & 1 PARALLEL
160M FET. PREAMP. WITH GAIN OF 20DB, WITH INPUT & OUTPUT TUNED CCTS TO COVER 1800 TO 1850KHZ, TO BE USED
2300MHZ PREAMP.
6800 UP. BOARD THAT INTERFACES PROCESSOR TO APPLE II MICROCOMPUTER, FOR PRACTICAL TEACHING EXPERIMENT
6800-TO-6802 EMULATOR ADAPTER THAT OVERCOMES PROBLEM OF RESTRICTION OF USER RAM. DUE TO MEMORY
Z80 UP. (CPU.) BUS MONITOR-DEBUGGER TO TRACE PROGRAM EXECUTION & HELP POINT TO PROBLEMS, USING
6809 SBC./MEMORY SUBSYSTEM WITH SEC (SINGLE ERROR-CORRECTING) ADDED/6809 SBC. WITH SEC MEMORY
Z80-BASED ROBOT CONTROLLER (MICROCOMPUTER TO CONTROL SMART ROBOT) CONTAINING UP., ROM. MEMORY
6800 UP. CCT INCLUDING ACIA., PIA.S, SSDA, RAM. & ROM., THAT ILLUSTRATES PARTITIONING EFFECTS OF CHIP-SELECT
6809 UP. CONTROLLER BOARD, INCLUDING INTEL & MOTOROLA PORT CONTROLLERS & 2 MUX.S
68000 UP. TEST CCT WITH WHICH, BY DISABLING INTERRUPTS & GROUNDING DATA BUS, UP. CAN BE CYCLED THROUGH
Z80-BASED TELEPHONE CALL COST CALCULATOR
1200 BAUD SWI3 GENERATOR FOR SPOOLING IMPLEMENTATION, TO RUN TSC FLEX 9 ON CMS HARDWARE
Z80 PROCESSOR CARD INCLUDING CPU., MEMORY, IO. ADDRESS DECODERS, PIO (PARALLEL IO.) IC'S, CTC, & RS-232C
Z8000-BASED MICROCOMPUTER BOARD USING ZILOG 16-BIT UP., INCLUDING PROCESS NUMBER LATCH & 2 MEMORY BANKS
Z80 COMPUTER TEST SYSTEM (INTERFACE) USING PIA., TO TEST TTL. COMBINATIONAL LOGIC DEVICES (GATES),
Z80A REPLACEMENT CCT FOR MOTOROLA 6809 CPU. (CCT TO ALLOW 8BIT Z80 UP. TO BE USED WITH PARTS FROM
100KHZ WIEN BRIDGE OSCILLATOR/UP & DOWN GOING RAMP VOLTAGE GENERATOR/CURRENT-TO-VOLTAGE CONVERTER
7800 BASED 5V REGULATOR CCT/5V REGULATOR CCT REQUIRING ONLY 5.6V/CCT USING 5V REGULATOR WITH L-REG
Z80 DRAM. BOARD
500W MOSFET. AUDIO POWER AMP. (PA) (1.1KW STEREO OUTPUT STAGE WITH 550W INTO 4OHM) WITH SHORT C
100MHZ UNIVERSAL FREQUENCY COUNTER USING INTERSIL 10MHZ LSI. FREQUENCY COUNTER & FAIRCHILD FR
910-BIT ANALOG DELAY IN SERIES MODE, USING CCD./910-BIT ANALOG DELAY IN MUX. MODE, USING CCD.
\$200 VIDEO MODULATED WIDEBAND FM. TEST SIGNAL GENERATOR USING AVANTEK VTO (VOLTAGE TUNED OSCILLATOR)
\$1000 PULSED BROADBAND RF. POWER AMP. USING 8 EIMAC TETRODES IN PUSH-PULL CONFIGURATION
68020 UP.-BASED SYSTEM TAKING ADVANTAGE OF PMMU CHIP
150KHZ FREE-RUNNING SHUNT SWITCH-MODE DRIVER THAT CAN LIGHT (BIAS ON) LED. FROM LV. (1.2V TO 1.5V) SOURCE
160 CHANNEL MEMORY UNIT FOR AIRBAND RECEIVERS WITH BCD. CODING, TO REPLACE NEED FOR THUMBWHEEL
100W BIPOLAR OFF-LINE FLYBACK (SWITCHING) PS. THAT OPERATES FROM 115 OR 230VAC. INPUT/100W SWITCHING
300-BAUD BELL 103 MODEM
100MV EXTERNAL STANDARD (STABLE REFERENCE BUILT AROUND INTERSIL 1.2V BAND-GAP REFERENCE)

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\$20-PER-CHANNEL 50W POWER AMP. FOR 80HM LOADS, WITH PREAMP. WITH RIAA EQUALIZATION
750W 1-TUBE LOW-DRIVE AMP. FOR 6 BANDS REQUIRING <25W OF DRIVE/HV. PS./CONTROL BOARD, RELAY & HE
\$30 INTERFACE CONSISTING OF ADC., DAC. & RTC., BUILT ON APPLE II PLUS PERIPHERAL BOARD
200KHZ OSCILLATOR-COUNTER-DECODER CCT FOR 50% DUTY-CYCLE, SWITCHED BIASING OF IRRADIATED PART
0.015%-ACCURATE MULTIPLIER CONSISTING OF 2 COMMUTATING AMP.S, VOLTAGE REFERENCE, INTEGRATOR U
\$30 EPROM. PROGRAMMER BASED ON RCA COSMAC 1802 UP., USING LATCH TO HOLD DATA TO BE PROGRAMME
120MHZ HSDA (HIGH-SPEED DATA-ACQUISITION) SYSTEM (DAS.) USING 100MHZ CMOS. SRAM.S/SMALL HSDA SYS
\$60 DIGITAL SOLAR COUNTER USING VACTEC PHOTODIODE SENSOR, VFC. & DIGITAL LCD., TO MEASURE SOLAR
600OHM LINE DRIVER WITH 'FLOATING' OUTPUT TO DRIVE BALANCED OR UNBALANCED LINES, CONSISTING OF 2
900MHZ AMP. INCLUDING INPUT & OUTPUT MATCHING NETWORKS TO PROVIDE PROPER GAIN & POWER MATCHI
220MHZ REMOTE PREAMP./40W 220MHZ LINEAR POWER AMP./PS. FOR TRANSVERTER SYSTEM
6800-UP.-BASED CONTROLLER THAT DETERMINES DELAY OR ADVANCE-TRIGGERING TIME REQUIRED FOR FIRIN
-10V REFERENCE USING BURR-BROWN MONOLITHIC BURIED ZENER +10V REFERENCE & EXTERNAL OA., INCLUD
600MHZ SAW. OSCILLATOR THAT USES WIDEBAND AMP. LEADS AS INDUCTORS THAT PROVIDE PHASE SHIFT FOR
100KHZ VCXO USING PLL. IC, FOR NARROW BAND PLL.S USED FOR TONE DEMODULATION TRACKING FILTERS, E
2.00MHZ QUARTZ OSCILLATOR OF SERIES-RESONATOR TYPE, OSCILLATING IN FUNDAMENTAL MODE OF CRYSTA
500KHZ TO 1GHZ AMP. WITH DUAL-GATE GAASFET. INPUT STAGE PROVIDING LOW INPUT CAPACITANCE, USED A
800-850MHZ SYNTHESIZER/FREQUENCY DOUBLER OF CW. TRANSMITTER/RF. AMP./RF. AMP. OF CW. RECEIVER/R
600VA 12VDC.-TO-240VAC. INVERTER (CONVERTER) THAT PROVIDES STANDARD 50HZ AC. SUPPLY WITH TRAPEZ
\$70 DECODER FOR NEW CX RECORDS
4800 BAUD FAST, RELIABLE MODEM FOR VHF.-UHF. PACKET RADIO, REQUIRING NO MAJOR CHANGES TO RADIO
500KHZ SWITCHING REGULATOR THAT PRODUCES -5V AT 5 TO 40MA FROM 5V SUPPLY, WITH 82% EFFICIENCY, U
400W LABORATORY DC. PS. (PSU) WITH MAXIMUM OUTPUT VOLTAGE OF 40V AT 5A, INCLUDING TRANSFORMER D
250W INVERTER TO POWER 120VAC. EQUIPMENT FROM CAR OR OTHER 12V SOURCE, USING TIMER, DUAL FF., &
180HZ OSCILLATOR MADE OF DOUBLE T FILTER/POWER AMP./IA. & SELECTIVE AMP. CCTS
X10 OA./TACHOMETER-WAND CCT/TEMPERATURE SENSOR CCT/DIFFERENTIAL OA./NONINVERTING OA./INVERTIN
200MHZ RF. AMP./BIDIRECTIONAL ANALOG SWITCH/100W CLASS D AUDIO AMP.
300-BPS BELL-103-COMPATIBLE FSK. MODEM FOR DATA COMMUNICATION OVER VOICE-GRADE TELEPHONE LINE
300-BAUD CMOS. DIRECT-CONNECT MODEM WITH RS-232C VOLTAGE OUTPUT LEVELS/CCT USING 2 VOLTAGE CO
\$10 PHOTO REFLECTIVE GATE USING PHOTO-REFLECTIVE SENSOR & VOLTAGE COMPARATOR, FOR USE WITH E
600OHM LINE RECEIVER AMP. USING OA./600OHM LINE DRIVER AMP./MICROPHONE PREAMP./HI-FI PREAMP.S (2)
300KHZ PWM. USING 2 1-SHOTS (CONNECTED AS ASYMMETRICAL OSCILLATOR), PULSE-STEERING FF., COMPAR
\$3000 PULSE WIDTH COUNTER TO MEASURE PULSE WIDTH, CONSISTING OF CRYSTAL-CONTROLLED CLOCK THA
260MHZ PHASELOCKED LO. FOR TRANSVERTER/260MHZ LOCKING CCT/280-290MHZ TRANSVERTER/TRANSPORTE
220MHZ TRANSMIT CONVERTER
910MHZ-1270MHZ DUAL BAND LOW POWER (50-100MW) AM.-FM. ATV. TEST SOURCE USING VIDEO PROCESSOR &
100MHZ OVERTONE CRYSTAL OSCILLATOR USING UHF. TRANSISTORS, TO SUPPLY REFERENCE FREQUENCY FO
300W 70CM (432MHZ) TETRODE TUBE UHF. AMP./METERING & CONTROL UNIT/200V DC. HV. PS.
200MHZ AMP.
15000V HV. PS. FOR RCA 603 IMAGE CONVERTER TUBE, USING SINGLE 9V NICD. BATTERY, FOR EASY-TO-BUILD I
250MW POCKET TRANSMITTER FOR 30M/CLASSIC PUSH-PULL TNT TRANSMITTER (OSCILLATOR) FOR 30M, USING
-10V TO +10V ADJUSTABLE PRECISION VOLTAGE SOURCE USING VOLTAGE REFERENCE & DIFFERENCE AMP. TH
750MHZ CCTS USING 50OHM, 75OHM & 100OHM STUB MATCHING INPUT & OUTPUT NETWORKS (3)
100W RF. POWER AMP. USING VMOS. (MOSFET.) POWER SEMICONDUCTORS/TR. SWITCH/LOW NOISE RF. PREAM
600MHZ OSCILLATOR THAT DOES NOT REQUIRE TEMPERATURE STABILIZATION & IS SIMPLY TUNED BY MEANS O
400MHZ RF. TRANSISTOR AMP. WITH NETWORKS SELECTED TO SIMPLIFY DC. BIASING & PROVIDE LPF. AT OUTPU
200MHZ PUSH-PUSH VCO. USING NPN BIPOLAR TRANSISTORS & ADJUSTABLE TUNING CAPACITORS
100W FLYBACK (SWITCHING) PS. USING OPTOISOLATOR IN FEEDBACK LOOP, INCLUDING ERROR AMP., COMPAR
\$40 SPEECH SYNTHESIZER THAT INTERFACES WITH ATARI HOME COMPUTER THROUGH JOYSTICK PORTS, & OC

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\$100 MAGNETIC SUSPENSION SYSTEM & ITS PS., THAT CAN STABLY SUSPEND MASSES UP TO 100G A FEW MILLI
160M JFET. ANTENNA PREAMP. WITH 20DB GAIN
300MHZ GATEABLE RING OSCILLATOR USING PLESSEY ECL. OR GATES, & OPTIONAL DELAY LINE TO REDUCE FR
500KHZ LOW-POWER TEMPERATURE-SENSING QUARTZ-CRYSTAL OSCILLATOR USABLE AS INGESTIBLE THERMO
500MHZ OSCILLATOR INCLUDING TRIGGER NETWORK/FAST COMPARATOR TO CONVERT ANALOG PULSES TO EC
200KHZ, 700W 48VDC. OUTPUT DC. TO DC. PWM. SERIES RESONANT CONVERTER WITH CAPACITIVE SNUBBING &
300W WIDEBAND RF. POWER AMP. COVERING FREQUENCY RANGE OF 10 TO 150MHZ (HF. TO VHF.), USING POWE
\$70 FRACTION COLLECTOR USING TIMER-COUNTER IC, DUAL D FF.S, POWER-UP 1 SHOT, POWER MOSFET.S, STE
A40 POWER AMP. THAT OPERATES CLASS A AT 40W-CHANNEL INTO 80HM/CHANNEL OF A75 AMP., USING POWER
140W PEP 2-TO-30MHZ RF. AMP.
1000W PULSED POWER AMP. (3-30MHZ)/DRIVER AMP./PREAMP. STAGE
4.0MHZ SERIES-TUNED TRANSMITTER CCT CONSISTING OF SQUARE WAVE SOURCE, WITH OUTPUT SWITCHED B
600KHZ INVERTER WITH OUTPUT CCT TO DRIVE SONAR (HF.) TRANSDUCERS/200W, 300KHZ BOOST CONVERTER
350WRMS. SINGLE-ENDED POWER EMITTER, SHOWING DRIVING SECTION & OUTPUT STAGE OPERATING IN CLAS
\$30 REPEATER CONTROLLER TO AUTOMATICALLY RESET SEQUENCE IF WRONG DIGIT IS RECEIVED OR ENTRY V
100MHZ COLPITTS-TYPE FET. OSCILLATOR & TUNED BUFFER AMP. THAT PROTECTS COUPLED OSCILLATOR FRO
200W HF. AMP. USING TUBES, WITH EXCELLENT LINEARITY & FOR PROFESSIONAL OR AMATEUR USE
100V 100MA REGULATOR CCT/CCT WITH 35V-3A REGULATED OUTPUT/REGULATOR NETWORK THAT REMOTELY S
500W LINEAR HF. 3-TO-30MHZ POWER AMP.
220MHZ DMOSFET. LINEAR RF. AMP. WHOSE OUTPUT IS >60W RMS. ON CW. POWER, USING 20W MOS. POWER DR
300W 100KHZ FORWARD SMPS. (CONVERTER) USING 100NS SWITCHING TIME BIPOLAR ETD TRANSISTOR, & PWM
100W BROADBAND (30 TO 88MHZ) VMOS. PUSH-PULL RF. POWER AMP. USING SILICONIX FET.S, WITH >12DB OF P
100KHZ 1.5KW SOFT SWITCH AVALANCHE IGBT. (FULL BRIDGE DC.-DC.) CONVERTOR USING ZERO VOLTAGE & ZE
4.096MHZ CLOCK WITH 244US FRAME-SYNC PULSE, PLUS SYNCHRONOUS 2.048MHZ CLOCK, USING CLOCK-ADAP
300BPS SERIAL-TO-PARALLEL CONVERTER TO ALLOW COMMUNICATION BETWEEN HEATH H-89 COMPUTER & RA
400 STEP SEQUENCER TO CONTROL STEPPER MOTORS/SERIAL COMPUTER INTERFACE FOR GRAPHICS PLOTTE
2716 EPROM. PROGRAMMER FOR 8085 UP.-BASED SYSTEM, USING RAM. & IO. PORT CHIP
2X16KBYTE (32KBYTE) ROM.-RAM. EXTENSION MODULE FOR ACORN ELECTRON MICROCOMPUTER, USING EPRO
64180 COMPUTER BOARD MAIN CCT/CONTROL LOGIC CCT FOR 64180 COMPUTER BOARD
GT180 COLOR GRAPHICS ADAPTER FOR SB180 & SB180FX COMPUTERS/DISCRETE LOGIC EQUIVALENT OF GT180
S-100 KEYBOARD INTERFACE THAT HANDLES BUSY SIGNAL, INCORPORATES REPEAT OSCILLATOR & ALLOWS PR
X-10 MODULE FOR REACTS CONTROL SYSTEM, TO SIMPLIFY REMOTE CONTROL OF ON-OFF DEVICES, WITH SWIT
1-10KHZ SINE WAVE GENERATOR OF IMPEDANCE MEASUREMENT SYSTEM, USING COUNTER & 8-BIT SHIFT REGI
SB180 PRINTER PORT/INTERRUPT-DRIVEN KEYBOARD INPUT/KEYBOARD BUFFER INPUT
0-12V 2A GENERAL-PURPOSE VARIABLE REGULATED PS. USING HIGH GAIN AMP. (OA.) FUNCTIONING AS DIFFERE
2716 EPROM. PROGRAMMER-READER/CCT SHOWING ADDRESS DECODING ARRANGEMENTS USED FOR CHIP EN
S-100 PROGRAMMER FOR MICROCONTROLLER (PROCESSOR) WITH EPROM., INCLUDING IO. BUFFERING, PORT D
2817 PROM. PROGRAMMER CONTROLLED BY PC.'S PRINTER PORT HAVING 8 DATA-OUTPUT LINES, 4 CONTROL L
+12V SUPPLIES (3)/CCT TO BOOST SUPPLY VOLTAGE DUE TO CABLE IR DROPS/BUCK-BOOST CONVERTER/50V S
3-15V DC.-DC. CONVERTER THAT USES DUTY-CYCLE CONTROL TO INCREASE OUTPUT POWER, WITH OSCILLATO
0.1-50V, 50A ADJUSTABLE PS.
V.110-V.120 TERMINAL ADAPTOR THAT USES ALL 3 SCC'S (SERIAL COMMUNICATIONS CONTROLLERS) ON MULTIF
4X1 ELECTRONIC STEREO-AUDIO & VIDEO CROSSPOINT SWITCHER INCLUDING LOGIC, VIDEO & AUDIO SECTIONS
0.1-500MHZ 4 INPUT-SINGLE OUTPUT DUAL GATE DMOSFET. ACTIVE RF. SWITCH WITH 65DB OF ISOLATION AT 10
SB180 SINGLE-BOARD 8-BIT COMPUTER USING Z80-CODE-COMPATIBLE UP., OUTPERFORMING IBM PC. (5)
PC10 INTERFACE THAT IS 8-BIT INDUSTRY STANDARD ARCHITECTURE (ISA) BUS USED IN IBM PC.S & COMPATIBL
1010MHZ OSCILLATOR USING COAXIAL RESONATOR TUNED WITH VOLTAGE VARIABLE CAPACITOR (VARICAP)/1G
0-1.2KV ENERGY BANDPASS SUPPLY (HV. AMP.) WITH STEP SIZE OF 20MV, STABILITY OF ~20MV & RESPONSE SP
MP1/MP2/LINE COUPLERS

0.1US TRIANGULAR PROCESSOR (SHAPER) WITH FAST RECOVERY TO ZERO AFTER PEAK, INCLUDING OPERATIO
S-100 BUS TO INTEL 8255 LSI. PPI. (SIMPLE IO.) INTERFACE FOR DATA TRANSFER
+-12V PS. WITH TIGHT REGULATION & GOOD EFFICIENCY, USING LINEAR REGULATOR WITHIN SERVO LOOP OF S
TT11 TELEPRINTER TERMINAL/MOD. THAT ENABLES TELEGRAPH TU. & TELEPRINTER TO ACCEPT TTL. INPUT
80286 BASED SYSTEM USING COPROCESSOR CHIP & STANDARD DRAM.S, FOR HIGH QUALITY GRAPHICS (BBB)
RS232 CONVERSION INTERFACE FOR CONNECTING COMMODORE 64 MICROCOMPUTER TO OHAUS SCALE BALAN
80286- & 80386SX-BASED MACHINES (2)(BBB)/VGA PORTION OF 386SX BOARD, INCLUDING PALETTE DAC., 32K OF
RS232C PORT TO 8-BIT IO. PORT ADAPTOR
RS232C-20MA LOOP CONVERTER/MICRO-RS232C ADAPTOR/RS232C CONNECTOR SELECTOR
-12V PS. (CHARGE PUMP CCT) (DC.-TO-DC. CONVERTER) USING 100KHZ ASTABLE MULTIVIBRATOR WHOSE OUTP
RS232 INTERFACE (SERIAL IO. PORT) FOR PCW MICRO, USING DUAL ASYNCHRONOUS RECEIVER TRANSMITTER
I²C (INTER-IC COMMUNICATION) INTERFACE FOR PC.S, USING I²C CONTROLLER, TO PUT PC. IN CONTROL OF
I²C EXTENSION CARD (INTERFACE) THAT ALLOWS PC. USERS TO COMMUNICATE WITH I²C COMPATIBLE IC'S,
I²C BOARD INCLUDING RTC.-CALENDAR, REMOTE IO. EXPANDER, CONVERTER CHIP (CONTAINING ADC. & DAC.)
112MHZ PHASE-LOCKED-LOOP SYSTEM USING LOW-NOISE, DIGITAL, PHASE-FREQUENCY DETECTOR, 2 OA.S, VC
1.2GHZ PRE-SCALER USING SIEMENS DUAL-MODULUS PRE-SCALER WITH BUILT-IN INPUT PRE-AMP., INCLUDING
1.27GHZ F. ATV. RECEIVER USING RAMSEY SATELLITE TV. RECEIVER BOARD WITH 45MHZ IF. INPUT FROM STAND
RS232 TO CURRENT LOOP INTERFACE
212-TYPE MODEM USING SIMPLE INTERFACE TO HOST PROCESSOR VIA USART. CHIP
RS232C BREAKOUT BOX TO SIMULTANEOUSLY DISPLAY LOGIC STATE PRESENT ON ANY 2 LINES OR FORCE ANY
0-200V PS. WITH CURRENT LIMITING AT 30MA, USING VALVE, WITH NO DAMAGE OCCURRING WITH SHORT CCT W
902 TO 144MHZ RECEIVE CONVERTER/902MHZ GAASFET. PREAMP./PS.
432 & 1296MHZ SIGNAL SOURCE/432MHZ & 1296MHZ DETECTORS/NARROW-BW. 1000HZ MICROVOLTMETERS
WU2J 2-FER TX BOARD THAT PRODUCES 2W OUT ON 14MHZ WITH 13V VCC, INCLUDING VXO, SWITCH, DRIVER, F
162MHZ CLASS C RF. POWER AMP. USING MICROSTRIPLINE IN INPUT & OUTPUT MATCHING NETWORK, WITH 10D
DX2070 DIRECT-DIGITAL SYNTHESIZER (DDS) THAT PROVIDES DIGITAL CONTROL OF PHASE-CONTINUOUS, FREQ
2.2GHZ LOW-NOISE DUAL-DETECTOR LIGHTWAVE RECEIVER WITH CURRENT SHUNT FEEDBACK, USING INGAAS.
1.25GBIT-SEC FIBER CHANNEL POINT-TO-POINT DATA LINK USING VITESSE G-TAXI CHIP SET INCLUDING TRANSM
1024HZ OSCILLATOR (SYSTEM CLOCK) USING WATCH CRYSTAL, INVERTERS & COUNTER/CCT USING CLOCK MOD
-12V CONSTANT VOLTAGE PS. WITH SERIES-SHUNT REGULATION, TO IMPROVE SUPPRESSION RATIO OF INCOMI
RS232 (V24) - CURRENT LOOP INTERFACE
RS232-TO-CENTRONICS INTERFACE
RS232 TO PARALLEL INTERFACE USING UART., THAT ALLOWS PRINTER WITH PARALLEL (CENTRONICS) INPUT TO
RS232 INTERFACE USING UART., TO LET ZX81-TIMEX 1000 COMPUTER COMMUNICATE WITH SERIAL PRINTERS, &
RS232 COMMUNICATIONS PORT INTERFACE FOR ZX81 COMPUTER/PS.
N₂ LASER (BLUMLEIN CCT) WITH RESONANT CHARGING FROM DC. PS., & HYDROGEN THYRATRON AS SWITCHING
8032 EMULATOR THAT HAS SINGLE-CHIP UP. THAT CONNECTS DIRECTLY TO TARGET SYSTEM & TAKES COMMAND
80386 UP.-MULTIBUS-I INTERFACE (BBB)/ARBITER & BUS CONTROLLER/BUS SELECT LOGIC FOR INTERRUPT ACKI
8031 TARGET SYSTEM TO PRACTICE DEBUGGING, INCLUDING 8K BYTES OF PROGRAM STORAGE (EPROM. OR SF
1930 PHONE TRANSMITTER WITH OSCILLATOR RUNNING 20W INPUT FROM 500V SUPPLY/RF. END OF 40W 160M T
8031 ICE./8031'S ROM. & RAM. CCT/CCT FOR GENERATING BAUD-RATE CLOCK SIGNAL
103-TYPE MODEM USING UART. & DATA ACCESS ARRANGEMENT/CPU.-TO-MODEM INTERFACE USING MICROCON
1934 GLOBE TROTTER RECEIVER/GIL CLASSIC TRANSMITTER (HARTLEY WITH HEAVY TANK COIL & SEPARATE AN
1.3GHZ PRESCALER THAT INCREASES MEASUREMENT RANGE OF FREQUENCY COUNTER, DELIVERING CLEAN R
903MHZ GAASFET. PREAMP. WITH TUNED TANK INPUT CCT & OUTPUT MATCHING CCT USING 4:1 L-NETWORK
1933 JEFFERSON 2A3 AMP. FEATURING HIGH IMPEDANCE INPUT, USING TUBES
3X3 VISUAL CONTINUITY TESTER THAT ALSO GIVES RELATIVE RESISTANCE READING, CONSISTING OF BINARY C
1-3RD OCTAVE GRAPHIC EQUALISER
0.3HZ TO 20MHZ SINE-WAVE VFO. WITH FIXED AMPLITUDE, USING WIEN BRIDGE PHASE-SHIFT NETWORK WIDEB

LM319 COMPARATOR WITH EMITTER-FOLLOWER OUTPUT CCT TO INCREASE OUTPUT SWING FROM -10 TO +10V
 3-30V 1.5A ADJUSTABLE DC. PS. REGULATOR, WITH SHORT-CCT PROTECTION & CURRENT LIMITING/CCT MOD.S T
 SC302 HYBRID IC OF TIMING LOGIC, THAT PERFORMS 3RD CR DIFFERENTIATION & 2 ZERO CROSSING TIME PICK
 2-30MHZ BROADBAND SOLID-STATE FET. LINEAR PUSH-PULL POWER AMP. MODULE/PS.
 2-30MHZ 600W RF. POWER AMP. USING 4 MOSFET.S IN PARALLEL PUSH-PULL CONFIGURATION, OPERATING AT F
 2.3GHZ PRESCALER TO EXTEND DIGITAL RF. FREQUENCY COUNTER'S DYNAMIC RANGE
 1.3 TO 1.9GHZ VOLTAGE-CONTROLLED BALANCED OSCILLATOR CONSISTING OF 2 NEGATIVE IMPEDANCE OSCILL
 3330 BUS WINCHESTER HARD DISK DRIVE INTERFACE CARD FOR SWTP 6809 SYSTEM
 C64 USERS' PORT INTERFACE (BBB)/LASER INTERFACE INCLUDING TRIGGER POCKELS CELL, FIRE EXCIMER & FI
 +400V SQUARE PULSE GENERATOR USING TIMER/CCT FOR MEASUREMENT & CONTROL OF TEMPERATURE OF S
 8748-UP.-BASED SYSTEM USING ARITHMETIC PROCESSING UNIT, THAT PERFORMS FIXED- & FLOATING-POINT AR
 C64 ANALOG IO.
 8748-BASED ROM. EMULATOR WITH RAM. LOADER, THAT CAN BE CONNECTED BETWEEN VDU. & COMPUTER RUN
 M146805E3 EVB USING MC1146805E3 MPU.
 1941-MODEL 20M DX TRANSMITTER DELIVERING 100W CW. CRYSTAL CONTROLLED, INCLUDING OSCILLATOR, DC
 4X4 LED. ARRAY (2) (BBB)/5X5 LED. ARRAY (2)/8X8 LAMP ARRAY (BBB)/SPEECH CCT USING VOICE SYNTHESIS PRO
 2.4V BATTERY BACKUP FOR MEMORY
 CD4-MX ELECTRONIC (CAPACITIVE DISCHARGE) IGNITION SYSTEM FOR AUTOMOBILE, USING ASTABLE MULTIVIB
 1942 MIDWEST 11 TUBE MODEL 112 SPLIT-LOAD PHASE INVERTER
 AC4YN TRANSMITTER CONSISTING OF SELF-EXCITED PUSH-PULL COLPITTS OSCILLATOR USING 2 TRIODES WITH
 8051-FAMILY UP. EMULATOR FEATURING MONITOR PROGRAM IN EPROM., & PROGRAM & HARDWARE-BREAKPOIN
 375HZ SAWTOOTH OSCILLATOR (CCT THAT GENERATES TRIANGULAR WAVEFORM WITH GOOD FREQUENCY STA
 3.5-DIGIT LCD. DIGITAL THERMOMETER THAT MEASURES FROM -30 TO +199DEG F WITH 1DEG ACCURACY
 \$15 SERIAL CARD USING USART., FOR SANYO MBC 550 COMPUTER, THAT WORKS EXACTLY LIKE SANYO'S VERSI
 4.5MHZ AMP. USING VIDEO AMP./GENERAL PURPOSE PREAMP./FREQUENCY COUNTER/OSCILLOSCOPE PREAMP.
 0.5S TO 24HR TIMER WITH GATED TONE GENERATOR & RELAY FOR EXTERNAL CONTROL, USING DIGITAL CLOCK
 455KHZ CRYSTAL IF. OSCILLATOR FOR ALIGNING-TUNING UP RECEIVERS/10.7MHZ CRYSTAL IF. OSCILLATOR
 555 SYMMETRICAL-TRIANGLE '1-SHOT' GENERATOR
 555-TIMER CCT THAT GENERATES PAIR OF SQUARE WAVES HAVING VARIABLE PHASE SHIFT BETWEEN THEM, US
 RC5A ANTENNA ROTATATOR INDICATOR CONTROL UNIT
 1.5-DIGIT COUNTER TO COUNT UP TO 19 IN DECIMAL, USING J-K FF. TO TURN ON MOST-SIGNIFICANT DIGIT WHEN
 555-TIMER-BASED SWITCHING BOOST REGULATOR THAT SUPPLIES 80V AT 10MA FROM 7.5V INPUT WITH ~60% EF
 \$15 CAPACITANCE METER USING TIMER IC, CMOS. QUAD BILATERAL SWITCH IC & COMMODORE 64 (C-64) USER F
 7.5MHZ PULSE GENERATOR THAT IS GATED ON FOR 2.5MS AT 2HZ TO PROVIDE CALIBRATED "NOISE" SOURCE/F
 555 OSCILLATOR-TIMER TESTER/TIMED NIGHT LIGHT CCT/ULTRASONIC-FREQUENCY GENERATOR/DOOR-ANNUN
 4.5-DIGIT, 16-CHANNEL DAS. THAT FUNCTIONS AS TALKER-LISTENER ON IEEE-488 BUS (GPIB.), USING ADC., ROM
 \$150 FISH HATCHERY AIR SUPPLY ALARM SYSTEM TO MONITOR AIR PRESSURE, USING PRESSURE-DIFFERENTIAL
 \$25 POWER CONTROLLER TO AUTOMATE AC. LINE-POWERED PORCH, DRIVEWAY OR OUTDOOR LIGHTS WITHOU
 IR543 IR.-TO-X-10 GATEWAY-CONTROLLER/CCT TO GENERATE X-10 CODES, USING EPROM., COUNTERS & CLOCK
 1.5A 5V BUCK REGULATOR USING VARIABLE-FREQUENCY-TYPE SWITCHING REGULATOR/BUCK-BOOST CCT WITH
 29500-BASED SYSTEM ARCHITECTURE WITH ENHANCEMENTS, USING REAL & IMAGINARY PROCESSORS, FFT. AD
 0.5-8S PRECISION FREQUENCY SWEEP FOR UNDERWATER SONAR, PROGRAMMABLE IN 0.5S STEPS, USING VFC.
 3.5 DIGIT DMM. TO DRIVE LCD. DISPLAY, USING SINGLE-CHIP ADC.
 0-50V 2.5A LAB-QUALITY DUAL TRACKING PS. WITH 1 OUTPUT VOLTAGE TRACKING THE OTHER
 4.5-DIGIT THERMOMETER USING THERMOLINEAR SENSOR ELEMENT CONTAINING LINEARIZATION NETWORK FOR
 3.5-DIGIT VOLTMETER FOR USE WITH OVERHEAD PROJECTORS, USING TRANSMISSION LCD. WITH RANGES FROM
 3.5 DIGIT DPM. USING DVM. IC
 915MHZ TX OR LO. SOURCE USING UHF. FM.-AM. TRANSMITTER IC (IN FM. MODE) & 28.59375MHZ 3RD OVERTONE
 4.5-DIGIT VOLTMETER (DVM.) & CONTINUITY CHECKER, USING 4.5-DIGIT ADC. (DVM. CHIP) WITH BUILT-IN LCD. DR

4.5-DIGIT LCD. AUTORANGING CAPACITANCE METER THAT SELECTS SCALE & DECIMAL-POINT POSITION, WITH M
 455KHZ AM. THAT GENERATES STANDARD AM. & SUPPRESSED CARRIER AM., WITH DSB MODULATION, USING TV
 <\$50 MODEM AS MOD. FOR ANSWER & ORIGINATE CCITT./SOLID-STATE SWITCH/DEMODULATOR-CONTROL CCT
 1553 ADAPTER USING SIBEC-51 SBC. & IO. BOARD (BBB)/IO. BOARD USING CONTROLLER, DRIVER & RECEIVER, &
 1-57TH SCALE LOW-PRESSURE MONITORING CCT USING SENSOR BRIDGE/1-11TH SCALE PRESSURE MONITORING
 555 TIMER CCT WITH ONLY 1 RESISTOR
 145MHZ PRE-AMP. FOR OSCAR-10 WORKING
 435MHZ LOW-NOISE GAASFET. RF. PREAMP. TO UPGRADE RECEIVING SYSTEM FOR OSCAR SATELLITE & TERRES
 1.59KHZ OSCILLATOR BASED ON STATE VARIABLE FILTER (SVF) WITH HIGHPASS (HP), BANDPASS (BP) & LOWPASS
 2.5-DIGIT COMPACT DVM.
 0.5-OCTAVE REAL TIME AUDIO ANALYZER/WEIN-BRIDGE ACTIVE BAND-PASS FILTER
 WB5MAP PS.-MODULATOR SECTION OF 10GHZ TRANSCEIVER, THAT WILL HANDLE AUDIO OR VIDEO INPUT/AUDIO
 555-TIMER OSCILLATOR TO DRIVE PIEZOCERAMIC ELEMENT/DRIVER FOR PZT., USING CMOS.-GATE & TRANSISTO
 305MHZ UHF. OSCILLATOR WITH GROUNDED-BASE, LOW-POWER CONFIGURATION, USING 1-PORT SAW. RESONA
 1.5W 40M RIG ("QRP KEY") (2)/500MW TRANSMITTER/MINI DIRECT-CONVERSION 30M RECEIVER USING MOSFET. P
 \$15 AUTODYNED, CRYSTAL-CONTROLLED CONVERTER THAT GENERATES SIGNAL AT 5200KHZ & MIXES IT WIT SV
 1.5V REFERENCE USING LED.
 455KHZ BFO. CCT, INCLUDING 2-DIODE PRODUCT DETECTOR & S-METER DETECTOR, FOR USE WITH CONVERTED
 1.5W UNIVERSAL QRP TRANSMITTER THAT COVERS 3.5 TO 21.0MHZ, INCLUDING PIERCE OSCILLATOR, BUFFER, D
 X15 FREQUENCY MULTIPLIER USING SRD. TO GENERATE HIGH-ORDER HARMONICS
 2255-2505KHZ PERMEABILITY-TUNED VFO. WITH STABILITY & LINEARITY AT LOW COST, USEFUL AS VFO. REPLAC
 \$150 CCT INCLUDING FUNCTION GENERATOR, BIPOLAR PS. & AMP. (BPPSA), & PS. FOR HALL PROBE
 1.5GHZ VCO. WITH +-55MHZ DEVIATION FOR INPUT OF 0 TO 10V, INCLUDING 2ND ORDER LOW PASS LOOP FILTER
 <\$50 PHOTOMETER USING BATTERY, 5V VOLTAGE REGULATOR, BATTERY, LED., SOLID-STATE PHOTODETECTOR
 125W 150MHZ RF. (VHF.) MOSFET. POWER AMP./5W 150MHZ AMP. WITH 14DB GAIN & 55% DRAIN EFFICIENCY/5W 4
 3.5W, 40M AMP. THAT IS EXCEPTIONALLY EASY TO BUILD, USING RADIO SHACK RF. CHOKE & TRANSISTOR, & INP
 \$15 100MHZ TO 2.5GHZ AMP. USING 4 LOW COST AVANTEK MMIC. RF. AMP.S IN FEEDBACK NETWORK THAT ACHIE
 MC68000 COMPUTER'S PROGRAMMABLE ADDRESS DECODER, FOUND ON MOTHERBOARD
 256-STEP PROGRAMMABLE DIGITAL SEQUENCER/CCT SHOWING HOW TO ADD DATA & ADDRESS LED.S/ANALOG
 256K RAM. DISK FOR COCO 1, 2 OR 3 COMPUTER, INCLUDING 8 RAM. CHIPS CONNECTED IN PARALLEL & PART OF
 5.6GHZ MICROWAVE CONVERTER USING 2 GAASFET. AMP.S & MICROWAVE STRIPLINE MIXER DIODES, INCLUDING
 256K DRAM. BOARD FOR 6809 SYSTEM, DESIGNED TO LOOK LIKE 4X64K BLOCKS, USING DELAY LINE
 PT69-2 68764 ADAPTER TO ADD EPROM. SPACE TO GIVE ~16 EXTRA PAGES, USING DECODING
 VU68K POWERFUL 68000-BASED 16-BIT DUAL-PORTED UP. SYSTEM (SBC.)
 WA6MBP LOW-COST BURGLAR ALARM
 +-60V +-0.5A CELL CHARGING AMP./ANALOG PORTION OF PULSE CONTROL LOGIC SECTION OF COULOSTATIC CO
 MC6800 CPU. INTERFACE TO MCM6664A DRAM., USING TRANSPARENT REFRESH WHERE SYNCHRONOUS PROCE
 AD693 ORTHOGONAL ZERO & SPAN ADJUSTMENTS/RTD. MEASUREMENT CCT/CCT FOR PRESSURE MEASUREME
 256K AMIGA EXPANSION RAM. BOARD, USING 8 150NS 64K BY 4-BIT DRAM. CHIPS
 256-BY-200-PIXEL SYSTEM USING COLOR PALETTE CHIP, VIDEO CONTROLLER & 8 64KBIT DYNAMIC VIDEO RAM. (I
 WA6DLQ'S NOISE METER & EXTERNAL S-METER CCT FOR USE WITH KENWOOD TR-7950 & TM-621A VHF.-FM. TRA
 \$16 LOW-LEVEL BROADBAND INSTRUMENT PREAMP. USING BAX-1 BROADBAND AMP. KIT FROM INTERNATIONAL
 0.65-10.0MA CURRENT OUTPUT STAGE (VARIABLE-CURRENT SOURCE) THAT CONVERTS VOLTAGE FROM DAC. TO
 1.6GHZ AMP.-PRESCALER FOR FREQUENCY COUNTER, USING MMIC. AMP.S, ECL. PRESCALER, PRESETTABLE CO
 1270MHZ BRICK AMP./VIDEO AMP. & PRE-EMPHASIS DRIVER, & PRE-EMPHASIS NETWORK/1270MHZ AM.-FM. TRAN
 AM7960 CONNECTED DIRECTLY TO SERIAL COMMUNICATIONS CONTROLLERS
 0.75W 80M CW. QRP RIG (TRANSMITTER)
 3.75-DIGIT DMM. USING NUMERICAL-INTEGRATION TECHNIQUE TO REJECT 50- & 60HZ NORMAL-MODE NOISE/CCT
 8088 UP. BOARD FOR S-100 BUS, INCLUDING LOGIC TO PROVIDE BUFFERED, DEMUX.ED ADDRESS BUS, & INPUT

8080-BASED DESIGN FOR TI DATA TERMINAL/8080A SYSTEM/MCS-85 SYSTEM/CCT USING CRT. CONTROLLER/(BBB)
8085 UP. INTERFACE TO NCR 5V-ONLY EEPROM./6502 UP. INTERFACE TO NCR 5V-ONLY EEPROM./POWER-UP-PO
8085-27916 AUTHENTICATED MEMORY SYSTEM
I386SL UP. SUPERSET WITH FLASH BIOS. (BBB)/CCT FOR VPP GENERATION WITH WRITE PROTECTION, INCLUDING
8080 CPU. INTERFACE INCLUDING CLOCKGENERATOR DRIVER & BIDIRECTIONAL BUS DRIVER/8085 MINIMUM SYS
8085 CONTROLLER BOARD (SIMPLE SYSTEM TO INTRODUCE 6502 USERS TO 8080 PROCESSOR FAMILY)
ZX81-TITRATOR INTERFACE THAT INTERFACES SINCLAIR ZX81 MICROCOMPUTER TO FISHER TITRIMETER SYSTEM
4080 DAC. WITH DOUBLE-BUFFERED INPUTS FOR MATING TO 8-BIT MICROCOMPUTER
128-CHANNEL PBX. TO 24-CHANNEL T1 TIE TRUNK INTERFACE, WITH 2 UP. COMMUNICATION LINKS TO ASSIGN CH
M-80 SINGLE-BOARD MICROCOMPUTER BASED ON Z80 CPU./RS232 TO TTL. CONVERTER/TTL. TO RS232 CONVER
WA8HEB AUDIO AMP.
8085-ANALOG-TO-DIGITAL INTERFACE (ADI) SYSTEM USING 12 BIT ADC. & FAST SH. AMP.
6082 12-BIT DAC. CONTROLLED BY UP., USED TO PERFORM ADC.S & DAC.S
1.8 TO 30MHZ ANTENNA TUNER THAT ASSURES PERFECT ANTENNA MATCHES UP TO 2KW & HANDLES 3KV PEP F
8085-NSC800 UP. REPLACEMENT CCT
DR800 SINGLE-BOARD UP.
8096-FAMILY, SINGLE-CHIP-UP. BOARD THAT CAN FUNCTION AS SOFTWARE-EXECUTION ENVIRONMENT TO TRY
S9900-S9901 INTERFACE IN WHICH S9900 PROVIDES IO. INTERFACE THROUGH ITS COMMUNICATIONS REGISTER
279KHZ MULTIVIBRATOR USING 1 AMP. OF TRIPLE DIFFERENTIAL OR-NOR ECL. LINE RECEIVER, PULL-DOWN RES
249.750249750HZ FREQUENCY STANDARD USING PLL., DIVIDE BY N COUNTER, & ANTENNA FOR PICKUP OF TV.'S
1296MHZ SOLID-STATE POWER AMP.
1296MHZ LOW NOISE GAASFET. RF. AMP. (LNA.) USING MICROSTRIP (STRIPLINE)/PS.-REGULATOR INCLUDING VO
E791 FAST GATED CHARGE INTEGRATING ADC. CCT INCLUDING AMP.S, GATE CCT, ECL. LOGIC, & SONY CX20052
1296MHZ SIGNAL SOURCE, EMPLOYING CRYSTAL OSCILLATOR, TRIPLER & X9 MULTIPLIER USING STRIPLINE TAN
+-9V PS. USING 2 SEPARATE FULL-WAVE RECTIFIERS FED FROM SECONDARY OF TRANSFORMER, TO REPLACE 2
HW9 C.O. MOD. FOR LSB/HW9 VFO. RANGE EXTENDER TO RX SSB.
+-9V PS.
1296MHZ RF. AMP./CRYSTAL INJECTION-LOCKED OSCILLATOR
1691MHZ VISSR (VISIBLE & IR. SPIN-SCAN RADIOMETER) LNA., USING AVANTEK GAASFET. & MINI-CIRCUITS MMIC
HEATH SB-220 ALC CCT
DRAKE L4B LINEAR AMP.
ANALOG FEEDBACK SIGNAL CONDITIONER WITH INTEGRATOR IN FEEDBACK LOOP, & DIFFERENTIATOR THAT RE
REAL-TIME 8751 EMULATOR USING MICROCONTROLLER, TO ALLOW DEVELOPMENT & DEBUGGING OF 8751 APPL
TRANS-RECEIVER (BBB)/20M TRANSMITTER/20M RECEIVER PREAMP./TR. CCT/SIDETONE OSCILLATOR
ANALOGUE VOLTAGE MULTIPLIER CCT DESIGNED FOR USE IN MEASUREMENTS OF PATIENTS' BREATHING PATT
FLASH SEQUENCER THAT CAN BE USED WITH UP TO 4 SEPARATE FLASHGUNS TO GET INTERESTING ACTION SH
ALARM EXTENDER USING CMOS. MULTIVIBRATOR & 14-STAGE RIPPLE COUNTER, TO ACTIVATE SIREN WITH REL
PHASE ROTATION CHECKER
HEADS OR TAILS INDICATOR, ULTRA-SIMPLE
TRANSMITTER COMPOSED OF SPHYGMIC DETECTOR (SENSOR) & SIGNAL AMP., 1KHZ OSCILLATOR, 12-BIT COUN
HEADPHONE INTERFACE FOR HANDS-FREE CONVERSATION ON TELEPHONE, INCLUDING INCOMING & OUTGOING
PHASE-SHIFTING PLL. FREQUENCY OFFSET CCT AT 114KHZ, FOR COMPARISON OF NEAR-EQUAL FREQUENCIES
CHARGER THAT DRAWS AC. ONLY WHEN NEEDED, CHARGING 1 BATTERY WHEN VOLTAGES DROP TO PRESET P
PHASE REFERENCE CCT (PHASE GENERATOR) WITH CODING WHEELS TO SELECT PHASE DIFFERENCE BETWEEN
PLANT WATER GAUGE THAT DETERMINES WHEN INDOOR PLANT SOIL REQUIRES WATERING, USING PROBES MA
PLA. CCT USING PROGRAM TO ENABLE MINIMUM-MODE CPU. TO USE MAXIMUM-MODE NUMERIC DATA PROCESS
BOARD CONTAINING DUT., WHERE ISOLATION PROBLEMS FRUSTRATE IN-CCT TESTING THAT TERADYNE'S ISODI
STABLE, LOAD INDEPENDENT, AC. HV., HF. PS. INCLUDING DC. PS., SINE WAVE GENERATOR, AUDIO-AMP., FEEDB
PHASE METER TO MEASURE PHASE DIFFERENCE (SHIFT) BETWEEN 2 ALTERNATING VOLTAGES, INCLUDING PLL

GRAPHICS DISPLAY CONTROLLER (GDC) BIT MAP INTERFACE/GRAPHICS SYSTEM USING 16-BIT UP. & GDC, INCLUDING ANALOG SUBTRACTOR WITH OFFSET ERROR ELIMINATION, USING CMOS. SWITCHES & SH. MODULE
SMALL IAMBIC KEYS FOR HW-8 QRP TRANSCEIVER, USING CURTIS CMOS. KEYS CHIP, WITH SPEED CONTROL
DUAL-TONE, MULTI-FREQUENCY (DTMF.) DECODER BOARD/AUDIO BOARD THAT SUMS AUDIO FROM SEVERAL SOURCE
TRANSISTORIZED DRIVER CCT OF MAGNETIC-AMP. PS. FOR WELDING, USING OA.S/MOD. ON-OFF SWITCH OF PS.
MCA. USING TV. CAMERA, TO PERFORM SPECTRAL MEASUREMENTS OF WEAK PICOSECOND LIGHT PULSES EMITTED
TRACKING CONTROL SYSTEM TO TRACK DIRECTION OF TV. SATELLITE, INCLUDING UP., EPROM., 2 PERIPHERAL
ADAPTEC'S NODEM LAN.-INTERFACE UNIT IN WHICH UP. RUNS ETHERNET PROTOCOLS, & CHIPS PERFORM REAL-TIME
STABLE HETERODYNE-OSCILLATOR VFO. FOR CW. OPERATOR, WITH CHIRP-FREE OPERATION & LF. DRIFT
SMALL OPTIONAL PB-1728A KEYS BOARD FOR FT-ONE, BASED ON CURTIS 8044 KEYS IC, TO ALLOW FOR CONSTRUCTION
TRANSMITTER CONSISTING OF MOD. OF 100MHZ HARTLEY OSCILLATOR USING SILICON NPN TRANSISTOR WITH
REAL-TIME CONTROLLER SECTION PROVIDING ADDRESS SPACE DECODING & SERIAL COMMUNICATION/RTIO IC
DUAL THRESHOLD (READOUT) TEMPERATURE DIFFERENCE INTEGRATOR TO INTEGRATE TEMPERATURES IN REAL-TIME
TRANSMITTER USING REMOTE CONTROL ENCODER-DECODER CHIP/RECEIVER/COMM-LINK CCT (2)/OSCILLATOR
QUADRATURE PSK. (QPSK) MODULATOR PROVIDING DIGITALLY MODULATED OUTPUT, USING ECL. MUX.
BLAST WAVE PARAMETERS RECORDING CCT INCLUDING CHARGE AMP., ZCD., PEAK DETECTOR USING PEAK HOLDING
RCA PHOTOTUBE (PMT.) BASE OF LEAD-GLASS MODULE, INCLUDING HV. DIVIDER, DESIGNED FOR LINEARITY OF
SMALL "CCC" (CONSOLIDATED CONTROL CONSOLE)/MICROPHONE PREAMP./ELECTRONIC KEYS CCT/PS.S
IMAGEWISE GRAY-SCALE VIDEO DIGITIZER (IMAGING SYSTEM) DISPLAY-RECEIVER HARDWARE, WITH 3 SELECTABLE
IMAGEWISE DIGITIZER-TRANSMITTER BOARD THAT FLASH-DIGITIZES VIDEO OUTPUT OF TV. CAMERA OR OTHER
DUAL WINDOW GATE MODULE/CODED RELAY LATCH (CRL)/CCT SHOWING POWER RELAY WIRING/4 DIGIT CRL/DTMF
SCAN COUNTER TO SEQUENTIALLY TURN ON & OFF EACH LED. DISPLAY, CLOCKED BY OSCILLATOR
TRANSPONDER OF IDENTIFICATION SYSTEM, ENERGIZED BY 58KHZ EM. FIELD, INCLUDING CODE GENERATOR, 2
ANALOGUE CONTROL UNIT FOR USE WITH DC. MOTOR, WITH VOLTAGE REGULATING POWER TRANSISTOR
FRANCK-HERTZ CONTROL BOX CONSISTING OF 4 REGULATED PS.S & RAMP FUNCTION GENERATOR/RAMP FUNCTION
SMALL RUGGED ACCURATE, EASY TO BUILD, PEAK-READING AMMETER USING SH. AMP., DPM. & BCD. COUNTER.
PHASE-CONTROL DIMMER USING TRIAC OPTOCOUPLER/DIMMER SYSTEM OF POWER-LINE MODEM LIGHTING CONTROL
SHARED-SRAM. LAN. INTERFACE BETWEEN LAN. CONTROLLER FOR ARCNET, & 65C02-BASED AIM HOST MICROCOMPUTER
DUAL-PROPORTIONAL PLUS INTEGRAL CONTROLLER FOR VOLTAGE & CURRENT LOOP, USING MICROCOMPUTER
DUAL MULTIVIBRATOR THAT PRODUCES PLEASANTLY DECAYING, CHIME-LIKE 668HZ SOUND (TONE), INCLUDING
ANALOG CORRELATOR (LINEAR SYNCHRONOUS DEMODULATOR) (GATED GAIN AMP.) USING "PLUS OR MINUS 1"
ALARM CCT FOR YOUR CAR
ALARM TO PROTECT CAR WITH MULTIPLE SENSORS, WARNING POTENTIAL CRIMINAL BEFORE HE COMMITS CRIME
EVALUATION CCT FOR PHOTODIODE ARRAY/ANALYSIS CCT TO INTERPRET VIDEO PULSES/SIGNAL PROCESSING
SMALL LOW-POWER (30MW) QRP KEYS USING KEYBOARD, TO OBTAIN CODE, WITH TYPE-AHEAD BUFFER, ACCUMULATOR
HEAT FLOW RATE SENSING TRANSMITTER/NECK COLLAR REPEATER INCLUDING LF. AM. RECEIVER, DETECTION
CHARGE-SENSITIVE PREAMP. HYBRID/ECL. DISCRIMINATOR/EPROM. ENCODER FOR 24 DISCRIMINATOR CHANNELS
PHASELOCK CCT USING ECL. & OA. IC'S/100MHZ CRYSTAL OSCILLATOR & DIVIDER CCTS TO PROVIDE REFERENCE
SMALL SYSTEM BASED ON 8088 UP. (BBB)/80186-BASED SYSTEM/Z8 MICROCOMPUTER SYSTEM (BBB)
PHASE INVERTER (INVERTER FOLLOWER STAGE) TO SWITCH ABSOLUTE PHASE, USING TUBES
'GATE' CCT FOR VELOCITY PULSE GENERATION, TO GENERATE BUBBLE VELOCITY PULSE, WITH OUTPUT PULSE
ISA BUS PC. USING INTEL'S 386 SL SUPERSET INCLUDING UP. (CONTAINING SX CPU. & CACHE & DRAM. CONTROL
DRAM. SYSTEM FOR I860 RISC., SHOWING "GLUE LOGIC" INCLUDING ROW ADDRESS BUFFER, DATA BUFFERS, DECODE
DUAL LED. ALTERNATE BLINKER/LED. FLASHER/BINARY COUNTER/"WHEEL OF FORTUNE"
TRANSMITTER THAT PROVIDES PULSED BPSK (BI-PSK.) OUTPUT ON 21.4MHZ, USING PLL.S/CCT SHOWING FILTER
ANALOGUE SH. CCT WITH IMPROVED MEMORY VOLATILITY & HOLD TIMES OF A FEW MINUTES DURATION WITH ECL.
ANALOGUE CCT OF UP.-BASED LINEAR TEMPERATURE CONTROLLER (4)/ADC. & DAC. CCTS (2)/PREAMP., CONTROL
DUAL JOYSTICK INTERFACE FOR TRS-80 MODEL I HOME COMPUTER/INTERFACE FOR POTENTIOMETER JOYSTICK
DUAL-POLARITY RAMP GENERATOR WITH SELECTION OF UP- & DOWN-RAMP RATES FOR OPTIMUM SERVO RESPONSE

GAAS. MESFET. DRIVER CCT TO DRIVE GAAS. CCD. DESIGNED FOR TRANSIENT RECORDING OF ELECTRICAL SIG
ANALOGUE AF. METER
CLASS-A POWER AMP. FOR TWEETERS
SHAPING BRAGG CURVE SPECTROSCOPY (BCS) AMP., WITH SHAPING PERFORMED BY POLE-ZERO COMPENSAT
GAAS. DUAL GATE MESFET. DRIVER WITH OPTIMIZED INPUT & OUTPUT (IO.) CCTS, THAT COMPENSATES FOR EL
AEA AT-300 MULTIBAND ANTENNA TUNER (TRANSMATCH) INCLUDING SWR. PCB., & TOROIDAL TRANSFORMER TO
DUAL REGULATOR THAT ACCEPTS EITHER 3.3 OR 5V INPUT POWER & SUPPLIES 3.3 & 5V TO TRANSITIONAL CCTS
CLASS E RESONANT VOLTAGE-DRIVEN LOW DV-DT RECTIFIER SUITABLE FOR RESONANT HF. DC.-TO-DC. CONVE
QUADRUPOLE MS. (QMS) WITH CONTROL & DAS. (BBB)/CURRENT-TO-FREQUENCY CONVERTER (IFC) INCLUDING
SHAPER-AMP.-DISCRIMINATOR (SAD) CARD (BBB)/DIGITAL DATA STORAGE MODULE (DDSM) (BBB)/ANALOG DATA
PHASE METER INCORPORATING ZCD., FREQUENCY DIVIDER & DIFFERENCE AMP.
GRAPHICS CONTROLLER USING VMEBUS SLAVE ADDRESS MANAGER (VSAM)/MASTER BOARD USING VBIC (VME)
SRAM. DEVELOPMENT CCT, USING CAPACITOR FOR DATA RETENTION OF >10MIN
BEAM CURRENT REGULATOR FOR ELECTRON BEAM SOURCE USED IN AES, TO IMPLEMENT REGULATION BASED
QUADRATURE OSCILLATOR/CCT TO DETECT & AMPLIFY VOLTAGE ACROSS VOLTAGE-SENSING ELECTRODES/CO
HEATH ID-4001 INTERFACE TO CONVERT 7-SEGMENT DATA TO ASCII., STORES DATA IN SRAM., BUFFER WIND DIF
FLASHGUN SLAVE TRIGGER UNIT THAT DERIVES ITS PS. FROM TRIGGER INPUT OF FLASH GUN, USING SCR.
ANALOG TELEPHONE SIGNALING CCT USING I²C SERIAL-BUS COMMUNICATION APPROACH, INCLUDING RINGE
TRANSIENT-RESET (PULSED RESET) CHARGE SENSITIVE PREAMP. WITH CONTROL LOGIC, WITH CHARGE RESTO
ANALOG MULTIPLIER-DIVIDER/BI-QUAD FILTER/WEIN BRIDGE OSCILLATOR/DIFFERENTIAL AMP./NOTCH FILTER/VO
SHAPER-AMP.-DISCRIMINATOR CCT OF PROPORTIONAL COUNTER READOUT ELECTRONICS, INCLUDING LINEAR
PEAK-HOLDING CCT USING CHARGE-STORAGE CAPACITOR BUFFERED BY FET.-INPUT OA.S
ANALOG DISCRIMINATOR INCLUDING INVERTER WITH UNITY GAIN TO INVERT "NEGATIVE PEAK" FROM PHOTODI
GRATING-DRIVE CONTROL UNIT INCORPORATING PS. & TRANSLATOR MODULE, WITH TTL. INPUTS FOR COMPUTE
STABLE VOLTAGE-CONTROLLED CURRENT SOURCE-SINK FOR UP TO 3A, USING POWER OA. & SUITABLE FOR INE
GRATING POSITION SENSING CCT USING HIGH-SPEED P-I-N PHOTODIODE THAT PRODUCES PULSES, & LOGIC CO
DUAL PS. TO SAFELY POWER GAASFET.S, DERIVING TIME-SEQUENCED POSITIVE & NEGATIVE REGULATED OUTP
RCA SV-1 PREAMP. OF EARLY 1950'S WITH SWITCH POSITIONS FOR PHONO (OLD 78'S, L.P., A.E.S. & ORTHOPHON
HEATHKIT MODEL W-6M 70W AMP.
SCANNING CONTROLLER TO INTERFACE MCA. TO MOTOR & CLUTCH ASSEMBLY, ALLOWING FOR INCREMENTAL
QUANTUM NOISE (SHOT-NOISE) MEASUREMENT SET-UP INCLUDING IR. LED. UNDER TEST, SILICON PIN DIODE DE
GRAPHICS CONTROL SYSTEM USING UP. & CONTROLLER/INTERFACE BETWEEN BIT MAP & CONTROLLER/(BBB)
QUADRATURE OSCILLATOR & BUFFER/CURRENT-TO-VOLTAGE CONVERTER (CVC)/PSD. INCLUDING PHASE SHIF
SMALL-ANIMAL TEMPERATURE-TELEMETRY TRANSMITTER INCLUDING TEMPERATURE-CONTROLLED OSCILLATO
SCALING (SLOW RAMP) CCT TO MODIFY 0-150V TIME BASE RAMP OF 567 OSCILLOSCOPE/MULTIPLIER & INTEGRA
AVALANCHE PULSER MODULE USING TRIGGER GENERATOR BASED ON VFC. & DUAL 1 SHOT/YELLOW LED. CCT
PEAK-486 SYSTEM USING 80486-BASED CHIPSET INCLUDING CPU.-CACHE DRAM., BUS, SUPER VGA, GRAPHICS, K
CHARGER TO CHARGE 75 OR MORE RECHARGEABLE NICD. BATTERIES AT 1 TIME, CONSISTING OF DC. PS. WITH
SRAM. DISK CONSISTING OF PC. BUS INTERFACE, BATTERY BACKUP-CCT FOR DATA RETENTION, & CMOS. SRAM
SMALL, RELIABLE, CHEAP, GENERAL-PURPOSE TEMPERATURE CONTROLLER BASED ON INTEGRATED VOLTAGE
USART. CCT OPERATING IN 1X CLOCK MODE WITHOUT REQUIRING SEPARATE CLOCK LINE, BY USING SYNCHRO
BRAKING UNIT FOR SMALL MOTORS
ANALOG PROCESSOR OF MASS (GAS) FLOWMETER, USING ANALOG MULTIPLIER CHIP CONFIGURED FOR SQUAR
TRANSMITTER SECTION OF TERMINAL BASED ON 15531 MANCHESTER ENCODER-DECODER CHIP/RECEIVER CCT
PLANT, 16 BIT MICROCOMPUTER USING CPU., FLOATING POINT COPROCESSOR (NUMERIC PROCESSOR) & INTER
ANALOG DIVIDER & SQUARING CCT, TO PRODUCE VOLTAGE APPLIED TO MASS-ANALYZER GRID, USING ANALOG
STABLE VOLTAGE INTEGRATOR FOR INTERFACE TO COMPUTER, TO INTGRATE EMF. DEVELOPED AROUND LOOP
TRANSRESISTANCE AMP. (CURRENT-TO-VOLTAGE CONVERTER) TO MEASURE CURRENT NOISE/VOLTAGE AMP. F
DUAL-PORT RAM. CCT USING 80186 CPU. & ETHERNET INTERFACE THAT SHARE 8K BYTES OF SRAM., INCLUDING

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STABLE 14.318MHZ CRYSTAL OSCILLATOR WITH 3 OUTPUT CLOCKS AT CRYSTAL FREQUENCY, 1-3 CRYSTAL FREQUENCY
CHARGE AMP. TYPE OF FLUX METER USING OA. & SEARCH COIL, FOR MEASUREMENT OF MAGNETIC FLUX DENSITY
STABLE, SAFE & LOW-COST 800V PS. MODULE FOR ECE OF FOILS/2KHZ GENERATOR USING VFC., WITH STABILIZED
FRAME GRABBER (IMAGE CAPTURE BOARD) FOR PC., INCLUDING VIDEO CCT, CLOCK-COUNTER, BUS INTERFACE
BIAS NETWORK (DYNODE CHAIN) USED WITH SMALL (MINIATURE), FAST RCA PMT. WITH DIAMETER OF 1.9CM, MICRO
TRANSCIVING CONVERTER/LO. CHAIN/LOW-NOISE 220MHZ PREAMP.
ANALOG INTERFACE BETWEEN VARIAN EM-360 1H-NMR. SPECTROMETER & ALTAIR 88-AD-DA ANALOG-DIGITAL INTERFACE
PEAK-DETECTING CCT/SIMPLE ACTIVE FILTER
CHANGES TO PRINTER BUFFER CCT FOR ADDITIONAL ROM. SPACE
BIASED DETECTOR/OSCILLATOR TO CALIBRATE DETECTOR & PREAMP., DELIVERING 13DBM/37DB BROADBAND FREQUENCY
DRAM. REFRESH CONTROLLER FOR PRODUCING ROW-TO-COLUMN CHANGEOVER SIGNAL ADS, ETC.
DUAL-VOLTAGE DC.-DC. CONVERTER
DUAL-PORTED RAM. BUS ARBITRATION CCT TO ALLOW MULTIPROCESSOR SYSTEMS TO SHARE DATA/DRP RAM.
PLANT-WATER MONITOR TO TEST MOISTURE OF SOIL AT ROOT LEVEL, IN WHICH LED. FLASHES WHEN MOISTURE
DUAL-PORTED MEMORY ACCESSIBLE TO 2 COMPUTERS, 1 ABLE TO READ & WRITE TO MEMORY & ARBITRATE OVER
DEAD TIME CCT OF NONPARALYSING TYPE (MONOSTABLE MULTIVIBRATOR FOR USE AS DEAD TIME SIMULATOR)
ANALOGUE OPTO-ISOLATOR
TRACKBALL INPUT POLLED INTERFACE TO ADAPT DISC INSTRUMENTS' MODEL LT200 TO TRS-80 MODEL I COMPUTER
PHASE ANGLE-AVERAGER USING ADDER
TRANSPARENT D (DATA) LATCH THAT OPERATES ON CLOCK SIGNAL'S RISING EDGE (LOW-TO-HIGH TRANSITION)
SMALL 3-DECADE AMP. TO GIVE OUTPUT CURRENT OF 1MA FOR FULL SCALE ON EACH RANGE, THAT CAN BE DISCRETE
PHASE NOISE CALIBRATOR INCLUDING CLOCK GENERATOR SET TO PRODUCE 4 TIMES DESIRED MODULATING FREQUENCY
SPARK GAP MONITORING CCT USING HEWLETT-PACKARD HFBR2500 FIBER-OPTIC RECEIVER, TTL. COUNTER CLOCK
ANALOG DIFFERENTIATOR USING OA.S, TO MEASURE SLOPE OF LOG AMP. OUTPUT BY CALCULATING DERIVATIVE
STAND-ALONE PROM. BURNER TO MANUALLY PROGRAM 512X8 (4096-BIT) BIPOLAR PROM., USING SETS OF SWITCHES
DRAM. TESTER WITH FUNCTION, SPEED (ACCESS TIME), PATTERN, & "HI" & "LO" VOLTAGE-MARGIN TESTS, ABLE TO
CHARGE SENSITIVE PREAMP. TO INTEGRATE CURRENT PULSE IN PIN PHOTODIODE GENERATED BY ENERGY DEPENDENT
SCANNER FREQUENCY ACTIVITY TAGGER (AUTOTAGGER CCT) FOR MOST SCANNERS, TO LOCK OUT ACTIVE CHANNELS
SHAFT-POSITION DECODER (RUBIK'S CUBE INTERFACE) CCT TO SOLVE RUBIK'S CUBE PUZZLE
TRANSMITTER PERFORMING PARALLEL-TO-SERIAL CONVERSION & RECEIVER THAT CONVERTS DATA FOR COMPARISON
STABLE COMPOUND EMITTER-FOLLOWER FOR HEAVIER (5 TO 16A) BATTERY CHARGING CURRENTS/ELECTRONIC
ANALOG SLOT-CAR-SPEED CONTROLLER USING 8-BIT DAC. TO DRIVE POWER AMP./CLASS B POWER AMP. THAT AVOIDS
DUAL-TRANSITION EXTRA-PULSES DISCRIMINATOR TO REMOVE UNDESIRABLE RANDOM PULSES FROM LOGIC SIGNALS
TRANSMISSION CCT TO CONTROL DEVICES >50FT FROM COMPUTER, USING 4-LINE-TO-16-LINE DATA SELECTOR
CHANNEL-SELECTION LOGIC TO SIMPLIFY TESTING OF TIME-MUX.ED DSP. CCTS (BBB)
STABILIZATION CCT TO AMPLIFY FEEDBACK VOLTAGE USING DIFFERENTIAL AMP., & AMPLIFY ERROR SIGNAL TO
STATE-CHANGE-MONITORING LOGIC MONITOR, THAT GENERATES POSITIVE PULSE ON CHANGE IN ANY INPUT LINE
TRANSMITTING & CONTROL SYSTEM OF FIBRE-OPTIC EEG. MONITORING INSTRUMENT FREE FROM ELECTRICAL INTERFERENCE
DUAL 5MHZ OSCILLATORS CONSISTING OF 3 INVERTERS, & MIXER, OF QUARTZ RESONATOR THIN FILM MONITORING
TRANSDUCER TO MEASURE CHANGES OF ELECTRICAL IMPEDANCE BETWEEN 2 IMPLANTED ELECTRODES COUPLED TO
STABLE HIGH-CURRENT TRANSISTOR-BASED REGULATOR TO STABILIZE 450W HIGH-PRESSURE DC. XENON ARC
CHAOTIC SIGNAL GENERATOR USING LOGARITHMIC AMP. (WITH BIPOLAR TRANSISTOR AS FEEDBACK ELEMENT)
CLAP-ACTIVATED APPLIANCE CONTROLLER USING VOICE-OPERATED SWITCH (VOX)
AMATEUR RADIO MODEM
SBA-104-1 NOISE BLANKER MOD.S/PORTION OF HW-101 TRANSCEIVER
SCAN & PULSE RATE CONTROL ELECTRONICS TO OPERATE STEPPING MOTOR IN HALF-STEP MODE WITH 400 STEP PER
ADAPTER CCT FOR IBM PC. XT SOFTWARE-COMPATIBLE COMPUTER, TO PREVENT UNPREDICTABLE RESULTS OF
REACTION TIMER USING CMOS. TIMER, FF.S, COUNTERS & LED.S, TO MEASURE HOW QUICKLY YOU PRESS SWITCH
TRANSMITTER OF DISTANCE-MEASURING SYSTEM/LF. OSCILLATOR/RECEIVER SECTION USING OA./MOTION DETECTOR

TRANSMITTER SECTION OF SOLAR CELL COMMUNICATOR, USING AUDIO AMP. TO VARY INTENSITY OF FLASHLIGHT
DIAGNOSTIC TESTER TO DISPLAY CONTENTS OF PORT 80, TO DIAGNOSE PC. HARDWARE PROBLEMS, INCLUDING
STATIC RELAY THAT DISTINGUISHES MAGNETIZING INRUSH CURRENT FROM SHORT-CCT CURRENT OF TRANSFO
TRANSMITTER CCT/SWITCH-MODE VOLTAGE SERIES REGULATOR CCT WITH LOW CURRENT CONSUMPTION, THA
DUAL-WAVELENGTH WATER-VAPOR DETECTOR
BIAS SUPPLY FOR ITT F4129 MCP. PHOTOMULTIPLIER USED TO OBTAIN DATA
TRACER THAT GIVES AUDIBLE SIGNAL WHEN SPECIFIED MEMORY ADDRESS OR IO. PORT IS ACCESSED, INCLUD
UNANIMITY DETECTOR THAT TELLS WHETHER ALL INPUT VOTES AGREE, TO FIND OUT IF ALL SUBSYSTEMS AGR
TRANSFER CONTROLLER THAT ALLOWS LIQUID HELIUM TRANSFERS OF LONG DURATION INTO CRYOSTATS WIT
ANALOG PORTION OF COMPUTERIZED TEMPERATURE MONITOR (THERMISTOR CCT) USING PULSED TECHNIQUE
TRANSDUCER CCT OF DEVICE THAT PERMITS ACCURATE RECORDING OF PRESSURE HEAD CHANGES NEAR SO
SCAN-CONTROL CCT FOR KENWOOD TR-7800 TRANSCEIVER, TO OVERRIDE SLOW SCAN RATE SET BY UP., USIN
READ & WRITE CCTS/20MA CURRENT LOOP & RS-232 LOOP/N-LINE DECODER/8-BIT PARALLEL IO. PORT
READOUT CCT OF FLASH CHAMBER/VETO COUNTER READOUT CCT PROVIDING FLEXIBLE AND-OR COMBINATION
ADAPTER FOR DMM., USING QUAD 2-INPUT NAND SCHMITT TRIGGER, TO PRODUCE VOLTAGE THAT IS DIRECTLY
SPARK GENERATOR CCT WITH IMPROVED FREQUENCY CONTROL & MUCH DENSER SPARK PATTERN, USING 60H
TRANSFORMER COUPLED (ISOLATED) MOSFET.-IGBT. (GATE) DRIVER WITH LOW DRIVING IMPEDANCE & ARBITRA
DUAL-POLARITY, MULTI-VOLTAGE PS. USING 1A VOLTAGE REGULATORS/RESETTABLE SHUTDOWN CCTS USING
ANALOG SIGNAL INPUT CCT SECTION OF INTERFACE BETWEEN SPECTROMETER & COMPUTER, USING MUX. & A
HEATH-ZENITH H-89 COMPUTER PARALLEL 64-PORT IO. BUS & CENTRONICS-TYPE PRINTER INTERFACE, WITH BU
MEASUREMENT TRANSDUCER SHOWING COMPONENTS IN SEQUENCE OF OPERATION, TO MEASURE PLANT LEN
X AXIS MAGNETIC FIELD GRADIENT CONTROL INCLUDING TTL. OSCILLATOR, FREQUENCY MULTIPLIER & X POSIT
TRANSISTOR INTERFACE & RESET LOGIC, OF EPROM. PROGRAMMER USING UP. SYSTEM/26V TRANSISTOR INTE
STABILIZED SINGLE-MODE LASER SYSTEM USING NEC GLT2390 HE-NE LASER TUBE, PHOTODIODE, CURRENT-TO
CHARACTER GENERATOR THAT ENABLES OSCILLOSCOPE TO DISPLAY 7-SEGMENT CHARACTERS
SCANNING COIL OUTPUT DRIVER
IMAGE COORDINATE DETECTOR FOR CHARGE INJECTION DEVICE (CID) TV. CAMERAS, CONSISTING OF X & Y CO
SLAVE DMA. MICRO CHANNEL BOARD USING INTERFACE DEVICE, DATA-BUS TRANSCEIVER, BOARD ID LOGIC, AD
TRACK TRACER THAT DISPLAYS TRACK NUMBER ON WHICH DISK DRIVE'S HEAD IS SITTING, USING SYNCHRONO
FRACTION COLLECTOR CCT CONSISTING OF DROP DETECTOR, DISCRIMINATOR, TIMER, PULSE SHAPER, COUNT
ANALOG CCT TO AMPLIFY FLUCTUATION/DIGITAL CCT OF RATE MULTIPLIER & DERANDOMIZER (BBB)
LEAP-FROG ACTIVE REALIZATION OF LC. LADDER IMPLEMENTING 5TH-ORDER CHEBYSHEV LPF.
ANALOGUE CONTROL CCT FOR FINE CONTROL, INCLUDING INTEGRATOR/LOGIC CCT FOR COARSE CONTROL (AD
BOARD TO INTERFACE SYM-1 MICROCOMPUTER & 4 PARTS OF SYSTEM/BOARD FOR PULSE SELECTION COMPON
ADAPTER (CYBER SWITCH) THAT ALLOWS SELECTION BETWEEN 2 PARALLEL PRINTERS FROM INSIDE PC. PROG
BRAKE LIGHT FOR CAR, CONSISTING OF RUNNING-LIGHT BAR OF LED.S, INCLUDING OSCILLATOR THAT PROVIDE
DUAL-PURPOSE DIODE MATRIX IDENTIFIER FOR REPEATER, THAT SUPPLIES STATUS
BEAD MEASURING CCT TO MONITOR ELECTRICAL PROPERTIES OF ZNO FILM, WITH AMP. TO PROVIDE CONSTAN
ADAPTOR FOR REV COUNTER FOR DIESEL ENGINE OF VEHICLE, USING PHOTOTRANSISTOR/CCT TO KEEP VOLT
TRANSMITTER/RECEIVER CONSISTING OF TRANSDUCER, AMP., ELECTRONIC RECTIFIER & FILTER
PRACTICAL 10KHZ LPF./PRACTICAL 200HZ HIGH-PASS FILTER
PHASE-SHIFT OSCILLATOR FOR MEASUREMENT OF CAPACITANCES, BASED ON DC. SUPPLY & VARIATION OF A S
TRANSMITTER TO EXCITE TRANSDUCER TO EMIT BURST, INCLUDING LOGIC, DRIVING & TRANSMITTER PARTS, C
MEASUREMENT SETUP USING OA., FOR CASE OF VOLTAGE GAIN OF -10 WITH PS. VOLTAGES OF +-12V, INCLUDIN
HEADLIGHT-PARKING LIGHT ALARM
FLASHING-LIGHT "DOORBELL" TO LET DEAF PERSONS KNOW DOORBELL IS RINGING, USING REED SWITCH PLAC
TRANSMITTER THAT CAN BE USED FOR TRANSMITTER HUNTS, AS REMOTE KEY FINDER, OR RADIO TELEMETRY,
REACTION TESTER USING TIMER IC, CONSISTING OF OSCILLATOR FOLLOWED BY COUNTING CHAIN/"WHO WAS F
FLASHER USING 2 TIMERS, TO FLASH 3RD CAR BRAKE LIGHT, FOR INCREASED SAFETY

EVANS GATED INTEGRATOR INCLUDING AMP., INTEGRATOR, & COUNTER WITH DISPLAY (2)/INTEGRATOR TIMING
 ANALOG SWITCH PHOSPHORIMETER (PHOSPHOROSCOPE) USING QUAD BILATERAL SWITCH & TIMERS, USED IN
 SMALL DC.-DC. CONVERTER USING TIMER CONNECTED AS ASTABLE WITH RATE OF 125KHZ, PROVIDING NEGATIVE
 TRANSFER-FUNCTION (TF) SCANNER (FREQUENCY-SWEPT TF ANALYSER) THAT MAINTAINS LEVEL OF SWEPT OSCILLATION
 BIAS SUPPLY FOR GAASFET.S, INCLUDING FREE-RUNNING MULTIVIBRATOR & VOLTAGE DOUBLER/GAASFET. AMPLIFIER
 CHARGE PREAMP. WITH COMMON BASE INPUT CONFIGURATION TO PROVIDE LOW & STABLE INPUT IMPEDANCE
 VIA. (VERSATILE INTERFACE ADAPTER) INTERFACE BOARD FOR TRS-80 COLOR COMPUTER'S CARTRIDGE CONNECTION
 PHASE-CONTROLLED PS. TO USE WITH STEPPING MOTOR, USING FREQUENCY-TO-VOLTAGE CONVERTER
 STANDING WAVE AUDIBLE INDICATOR & LEVEL OF EFFECTIVE RADIATION (SWAILER) MONITOR
 BEAM SENSOR CCT CONSISTING OF FILM BIASED WITH HEATER VOLTAGE, SIGNAL PROCESSING CCT (WHEATSTONE BRIDGE)
 TRANSMITTER THAT GENERATES IR. LIGHT AT 5KHZ/RECEIVER USING PHOTO DIODE AS SENSOR, & COUNTER WITH
 TRANSMITTER USING TIMER RUNNING ASTABLY/RECEIVER WHOSE INPUT CONSISTS OF DETECTOR, HIGH-PASS FILTER
 TRANSMITTER PCB./OSCILLATOR TO TEST FIBER BW./REMOTE TEMPERATURE SENSOR TO CONVERT TEMPERATURE TO
 PEAK SIMULATOR & NOISE GENERATOR, INCLUDING SLEW-RATE-LIMITING CCT/SIGNAL CONDITIONER (SC) USING
 PEAK SENSING CCT INCLUDING ABSOLUTE VALUE CCT, VOLTAGE COMPARATOR & BIPOLAR CHARGE PUMP, TO
 TRANSMITTER USING TIMER TO PULSE IRED. AT 40000HZ/IR. RECEIVER & SOUND-EFFECTS GENERATOR, USING
 DUAL TIMER IC CCT ALLOWING INDEPENDENT CONTROL OF FREQUENCY & DUTY CYCLE
 TRANSDUCER MUX./PS.
 AVALANCHE TRANSISTOR LASER DIODE DRIVER/APD. FRONT END WITH ~500PS RISE-TIME/SAMPLER BASED ON
 WEATHER STATION FOR USE WITH IBM PC., TO MEASURE WIND SPEED & TEMPERATURE, INCLUDING ANEMOMETER
 CHARGE-TRANSFER MEASUREMENT CCT TO CONVERT TARGET CURRENT TO PROPORTIONAL VOLTAGE OUTPUT
 ALARM (REMINDER) TO RECTIFY & FILTER INCOMING AC. FROM TRACTOR ALTERNATOR, SOUNDING IF ENGINE IS
 STANDARD 555 SQUARE-WAVE GENERATOR/555 CCT WITH 0.5 DUTY CYCLE
 TRANSMISSION LINK LED. DRIVER & RECEIVER/FREQUENCY TO VOLTAGE (F-V) CONVERTER INCLUDING DAC./COMPARATOR
 SMALL CALIBER COMPULSATOR FIELD CHARGING CCT (HALF-CONTROL EXCITER WINDING RECTIFIER BRIDGE) USING
 SMALL KEYS USING IC TIMERS, OR GATE IC & TRANSISTOR, INCLUDING OPTIONAL SIDE-TONE GENERATOR (SIDE-TONE)
 REAL-TIME TAPE CLOCK, INDEPENDENT OF TAPE-RECORDER CCT/COUNTING & DISPLAY CCT, USING CMOS./ALTERNATE
 VCA. WITH LOW DISTORTION AT MAXIMUM GAIN & DISTORTION OF -122DB REFERRED TO INPUT FOR ATTENUATION
 CHARGER THAT CHARGES NICD. BATTERY WITH CURRENT (IN MA) 10 TIMES ITS NOMINAL CAPACITY (IN MAH), WITH
 SCANNING CCT (KEYBOARD ENCODER) FOR COMMON-LEG KEYBOARD/SCANNING CCT FOR MATRIX KEYBOARD/
 CHARGE SENSITIVE PREAMP./MIXING (SUMMING) AMP. FOR PHOTODIODE READOUT/SHAPING AMP.
 SHA (SH. AMP.) TO INCREASE TIME RESOLUTION OF TECHNIQUE TO DETERMINE ISOMETRIC FORCE DEVELOPED
 TRANSMITTER USING CMOS. OSCILLATOR-TIMER, TO GENERATE 490HZ SQUAREWAVE OUTPUT/RF. RECEIVER USING
 AMATEUR VACUUM-TUBE SW. TRANSMITTER IN WHICH RF. OSCILLATOR IS COUPLED DIRECTLY TO ANTENNA, USING
 PRACTICAL JOYSTICK CCT FOR APPLE
 TRANSMITTER SECTION OF PHOTOTRANSDUCER FOR VALVE TO SEPARATE ORAL & NASAL CAVITIES/RECEIVER USING
 DUAL PS. WITH AUTOMATIC METER SWITCHING (2)/CCT TO SWITCH SEVERAL METER READINGS AUTOMATICALLY
 STABLE RF. SOURCE CONSISTING OF CRYSTAL OSCILLATOR/PULSED FIELD-FREQUENCY LOCK SCHEME FOR HIGH-POWER
 PLAYER CCTS OF ELECTRONIC GAME TO CHALLENGE REFLEXES/CCT INCLUDING CLOCK OSCILLATOR/SOUND-OFF
 SHARED MEMORY SYSTEM WITH ITS ASSOCIATED 2MHZ UP.S, EMPLOYING SINGLE COMMON DATA BUS SHARED
 ANALOG CCT OF SCANNER (FSS) ELECTRONICS/COMPARATOR CCT/CONTROL LOGIC/CRT. UNBLANKING PULSE IRED.
 SPARK GENERATOR CCT CONSISTING OF HV. CHARGING, TRIGGERING & SAFETY CCT, USING THYRATRON & IGM
 ADAPTATION OF LINDECK-TYPE POTENTIOMETER
 SPARC (SCALABLE PROCESSOR ARCHITECTURE) INTEGER UNIT TO BE PROVIDED BY LSI LOGIC, BASED ON SUN
 DMA. INTERFACE TO PERMIT HIGH-SPEED DATA TRANSFER BETWEEN BIOMATION 8100 TRANSIENT RECORDER &
 PHASE MEASUREMENT CCT USING PLL. THAT PRODUCES SQUARE-WAVE OUTPUT LOCKED IN FREQUENCY & PHASE
 WEATHER ALERT DECODER THAT SOUNDS WARNING FOR SEVERAL MINUTES, ACTIVATED BY SPECIAL 1050HZ TONE
 HEAD AMP. FOR ION PROBE
 TRANSMITTER CCT OF WIRELESS SYSTEM OF REMOTE CONTROL OF AC. LINE, BY COMPUTER/RECEIVER CCT FOR

ANALOG READ-OUT CHAIN WITH PREAMP. (CURRENT-TO-VOLTAGE CONVERTER, PEAKER, INTEGRATOR & ADC.)
ATARI TRANSMITTER-KEYING CCT
HEATHKIT MODEL SA-2550 REMOTE ANTENNA MATCHER
CHARGER FOR YAESU FT-208R TRANSCEIVER
ANALOGUE SIGNAL AMPLIFICATION & FILTRATION NETWORK CONSISTING OF 5-POLE BUTTERWORTH LPF. & 3-POLE
HEATHKIT SB-200-300 AMP. HV. PS./MOD. TO PS. TO INCREASE HV. LINE BY ~300V & POWER OUTPUT BY ~50W
FRACTION MARKER-TIMER CONTROLLER (FMTC) TO PARTIALLY AUTOMATE PEAK COLLECTION & PROVIDE EVEN
TRANSMITTER USING REMOTE CONTROL CHIP, IN APPLICATION WITH HIGH NOISE/CCT USING IR. PREAMP. & SIN
TRANSDUCER-COMMODORE PET MINICOMPUTER INTERFACING CCT INCLUDING 8-BIT CMOS. ADC., INTEL PPI. &
BOARD CONTAINING 27512 EPROM.S, WITH DEVICE-PROGRAMMING LAYOUT/BOARD CONTAINING 27512 EPROM.S
DRAM. TESTER USING MICROCONTROLLER (UP.), TO TEST 64K, 256K & 1M DRAM.S FOR DATA INTEGRITY & ACCE
BOARD HOLDING EPROM.S FOR REAL-TIME CORRECTION OF SPATIAL DISTORTIONS, FIFO. BUFFERS & EMPTYING
FRACTIONAL DIVIDER USING PLL.
READOUT SYSTEM USED WITH SINGLE ENDED TUNGSTEN DETECTOR WIRE ANODE, INCLUDING DISCRIMINATOR
QUADRATURE RESOLVER CCT USING PROGRAMMABLE EMBEDDED CONTROLLER TECHNOLOGY, SUITABLE FOR
ATARI 600XL HOME COMPUTER 2K MEMORY EXPANSION USING 2KX8 RAM., INCLUDING BUFFERED TTL. INTERFA
ALARM CLOCK USING MICROCONTROLLER, SOUND GENERATOR & VOLTAGE REGULATOR, USING INTERRUPT CA
DMA. SYSTEM FOR MULTICHANNEL SERIAL OUTPUT
STANDARD DUAL-POLARITY 5V PS. USING 5V & -5V REGULATORS & BRIDGE RECTIFIER, FOR USE WITH TTL. & LO
ADAPTER BOARD TO DEVELOP TARGET SYSTEM BASED ON 68030 UP., USING 68020 ICE., INCLUDING PAL.
SMARTSPOOLER'S (PRINTER BUFFER'S) DIP.-SWITCH & LED. IO. CCT USING SINGLE PIA. CHIP TO HANDLE SWITCH
SCA. USING COMPARATORS FOR BAF2 FAST COMPONENT ENERGY RESOLUTION MEASUREMENTS/DECAY EDGE
FRAME-GRABBER CCT USING CRT. CONTROLLER THAT ACTS AS PROGRAMMABLE FREQUENCY DIVIDER INSIDE
SPARTAN ENSEMBLE 103 & 578, INCLUDING SELECTOR, RF. AMP. & POWER CONVERTER
15A MULTIPLE REGULATOR/VARIABLE-VOLTAGE 3-TERMINAL REGULATOR/12 TO 13.2V 15A PS.
CHARACTER- & LOW-RESOLUTION-COLOR-GRAPHICS GENERATOR USING 40-KEY KEYPAD, TO PRODUCES TITLE
DRAM. TO Z80 INTERFACE/CCT TO SIMPLIFY PSEUDOSTATIC REFRESHING/DRAM. REFRESH CCT FOR 6800/(BBB)
ADAPTER (INTERFACE CCT) TO RETROFIT RTC52 (OR ANY OTHER 8031-BASED SYSTEM) FOR USE WITH ZILOG Z8
CHARGING CCT USING THYRATRON AS CHARGING ELEMENT/TRIGGER CCT INCLUDING DOUBLE-PULSE TRIGGER
DMA. INTERFACE OF TRIPLE CORRELATOR FOR POINT PROCESSES IN WHICH LONG BATCH OF PULSES IS RECO
ANALOG DATA LOGGER (BBB)/CPU. & COMMUNICATIONS BLOCKS INCLUDING RAM. & EPROM./INPUT BLOCK USIN
TRANSVERTER (RECEIVING & TRANSMITTING CONVERTER) CONSISTING OF ATTENUATOR, DBM., 90MHZ LO. & LF
OMA-MINICOMPUTER INTERFACE FOR DATA TRANSFER & HANDSHAKE SIGNALS/VOLTAGE REGULATOR/OMA M
ANALOGUE SIGNAL PROCESSING CCT OF CENTROID MONITOR, INCLUDING SH. MODULE, O.A.S, FET. SWITCHES,
LNA. PS.
GRAPHICS SYSTEM USING GRAPHICS CONTROLLER, HOST UP., DMA. CHIP & FRAME-BUFFER MEMORY (BBB)
DRAM.-6809-UP. INTERFACE THAT ALLOWS BURST-DMA. OPERATION, USING 4-STAGE REGISTER TO GENERATE A
SMART SERIAL INTERFACE BETWEEN ULTRASONIC TRANSDUCER (SONAR RANGING MODULE) & PC., USING 16-P
GAASFET. PREAMP. FOR USE ON 144, 432, & 903MHZ AMATEUR BANDS, USING SINGLE-GATE GAASFET. WITH 2 S
SHAPE CORRECTED DRIVE (SERVO) AMP. THAT OPERATES AT ~5HZ, INCLUDING VOLTAGE FOLLOWER, INTEGRA
STABLE DC. PS. USING VOLTAGE REGULATORS WITH INTERNAL FOLD-BACK, THERMAL & SHORT-CCT PROTECTIO
TRANSMITTER STRIP OF GE UHF. 4ET24A1 (OR A11) 406 TO 420MHZ TRANSMITTER, INCLUDING 2ND TRIPLER, AM
SMALL AUDIO OSCILLATORS (6)/SMALL AUDIO OSCILLATOR USING SCR., TANTALUM CAPACITOR & SUB-MINIATUR
FLAME SENSOR-TRIGGER DEVICE USING DUAL IR. FLAME SENSOR COMBINED WITH PRESSURE-ARMING ELEMEN
FLAME LASER-EXCITED ATOMIC FLUORESCENCE SPECTROMETRY (FLAFS) SYSTEM INCLUDING HAMAMATSU PM
STATE-VARIABLE FILTER IN WHICH CONTROL VOLTAGE SETS CUTOFF FREQUENCY, INCLUDING 2 INTEGRATORS
DUAL BICOLOR LED. DRIVER WITH BLANKING & LAMP TEST, USING RS232 TRANSCEIVER/DRIVER WITH OUTPUT V
EVALUATION CCT FOR MAXIM DUAL-OUTPUT, 3W SWITCHING REGULATOR IC, INCLUDING FILTER TO REDUCE RIF
PHASE-FREQUENCY LOOP AMP.S & FILTERS, INCLUDING DETAILS CONCERNING COUPLING OF CONDITIONED LO

QUADRATURE OSCILLATORS WITH EXTENDED TIME CONSTANT, WITH TIMING COMPONENTS SCALED BY RESISTOR
 CHARGE DIVISION PREAMP. (LINEAR FAST CURRENT-TO-VOLTAGE AMP.) WITH HIGH GAIN, LOW INPUT IMPEDANCE
 OTA.-BASED CCT TO GENERATE SAWTOOTH (OR TRIANGLE) WAVEFORM WITH INDEPENDENTLY ADJUSTABLE RISE
 ANALOG SIGNAL CONDITIONING CCT INCLUDING SH. CCTS, ANALOG SWITCH, 12-BIT 8US ADC. INTERFACED TO D
 CLAMPING CCT TO MINIMIZE ROUNDING ERRORS, USING SINGLE-ZENER-DIODE BRIDGE/CCT TO CONTROL CLAMP
 DRAM. TEST CCT THAT WRITES 0'S & 1'S ALTERNATELY TO EACH DATA LOCATION, WITH FLASHING LED. TO INDICATE
 TRAPEZOIDAL VOLTAGE (FUNCTION) GENERATOR USING O.A.S, WITH RISE, FALL & HOLDING TIMES VARIABLE OVER
 PEAK DETECTOR THAT CAPTURES & HOLDS PEAK VALUE OF FAST CHANGING ANALOG SIGNAL, WITH PEAK DETECTOR
 CLASS-A PUSH-PULL AMP. SHOWING MOD. OUTPUT STAGE, THAT GIVE OUTPUT STAGE VOLTAGE GAIN & LARGE
 DUAL INPUT INTEGRATOR (ODI) COMPOSED OF 2 INDEPENDENTLY-CONTROLLED CURRENT SOURCES REALIZED
 PEAK DETECTOR CCT (VIDEO DETECTOR)

QUADRATURE DETECTOR/CCT USING TUNING-INDICATOR IC TO DETERMINE IF CONTROL SIGNAL IS WITHIN RANGE
 SHAFT POSITIONER THAT CONVERTS OUTPUT OF DIGITAL POTENTIOMETER TO SIGNALS SUITABLE FOR DRIVING
 OTA.-BASED CCT IMPLEMENTING 1ST-ORDER ALL-PASS FUNCTION, WHOSE GAIN IS ELECTRONICALLY TUNABLE
 DUAL WAVE AWA RADIOLETTE VINTAGE RADIO USING REFLEXING TO AMPLIFY RF. OR IF. SIGNALS & AMPLIFY DE
 STABLE DIFFERENTIATOR USING WIDEBAND TRANSCONDUCTANCE AMP. WHOSE NORMAL GAIN-SETTING RESISTOR
 STABLE LIQUID HELIUM COOLED 430MHZ PREAMP., USING GAAS. MESFET., WITH 3DB BW. OF 35MHZ
 DUART. & RS-232C DRIVERS/PARITY GENERATION & DETECTION CCTS/RAM. CONTROLLER/CPU., FLOATING-POINT
 CHANGES TO SB-104 RECEIVER FRONT-END BOARD/CARRIER GENERATOR-CRYSTAL FILTER BOARD CHANGES/A
 TRANSMITTER USING IR. LED.S/IR. RECEIVER PREAMP./IR. RECEIVER & PS.

DUAL-CHANNEL FAST, GATED CHARGE INTEGRATING FRONT END FOR USE IN EM. & HADRONIC CALORIMETRY, WITH
 ANALOG SECTION OF READOUT SYSTEM FOR CCD. SENSOR, THAT SCANS ENTIRE ARRAY BY COMPARING SIGNALS
 PEAK-DETECT & HOLD (PEAK EXTRACTOR) CCT TO IMPROVE EFFECTIVE CONVERSION TIME OF HIGH RESOLUTION
 CHANGE-OF-STATE DETECTOR & INTERRUPT-REQUEST LATCH/ISOLATED ZERO-VOLTAGE SENSOR/Z8 POWER IC
 CLASS AB OUTPUT STAGE INVOLVING COMPLEMENTARY PAIR OF POWER TRANSISTORS, WITH QUIESCENT CURRENT
 QUANTA-LINK (OPTICAL DETECTOR UNIT) THAT, WHEN COMBINED WITH CYBER LASER, ALLOWS BUILDING OF SE
 TRANSMITTER FOR WIRELESS HEADPHONE, USING CMOS. PLL. & IR. LED.S/RECEIVER USING HIGH-GAIN IR. REMO
 STATE-VARIABLE-FILTER CCT OF INTEREST TO ELECTRONIC-MUSIC ENTHUSIASTS, USING TRANSCONDUCTANCE
 IMAGE PARTITION CCT, CONSISTING OF TIMER TRIGGERED BY SYNCHRONIZATION SIGNAL TO CONTROL VIDEO
 RCA BIMOS. OA. CCT/10 GAIN INVERTER/CCT SHOWING HOW GAIN IS DETERMINED/CCT SHOWING PROPER BIAS
 DUAL STEPPER-MOTOR WAVELENGTH CONTROLLER INCLUDING CCT TO DRIVE 2 STEPPER MOTORS & INTERFACED
 TRANSCEIVER FOR 2300MHZ USING MMIC. AMP.S IN RECEIVE & TRANSMIT AMP.S, THAT FEEDS COMBINER THAT
 ANALOG DIVIDER CCT USING O.A.S & VOLTAGE VARIABLE RESISTANCE (VVR) PROPERTY OF N-CHANNEL FET., WITH
 STABILIZER/CCT USING WIDE-BAND AMP.S/SEARCH OSCILLATOR/PSD./CCT SERVO CONTROL OF FREQUENCY DR
 PHASE SHIFTING CCT USING LOW COST OA. & COMPONENT VALUES SUITABLE FOR FREQUENCIES AROUND 1KH
 READOUT ELECTRONICS OF Z-DETECTOR, INCLUDING PREAMP., LINE DRIVER & CHARGE-TO-DIGITAL CONVERTER
 REAL-TIME SIGNAL PROCESSOR FOR USE WITH ELECTROMAGNETIC (EM.) SEISMOMETER TO TRACK GROUND AC
 HEATER CCT TO PROVIDE BETTER FREQUENCY COUNTER ACCURACY, USING DIODE TO SENSE TEMPERATURE/
 CLAMP CCT TO PROTECT INTERNALLY LIMITED POWER OA./OA.S WITH FOLDOVER & FOLDBACK CURRENT LIMIT
 DUAL DAC. WITH ISOLATED OUTPUT, USING 12BIT SERIAL INTERFACE DAC., HALF OF RS232 CHIP SET, OPTO-ISO
 STATUS TRANSMITTER THAT ACCEPTS AS MANY AS 7 PARALLEL STATUS BITS & TRANSMITS THEM IN SERIAL FO
 PEAK DETECTOR FOR MILLIVOLT SIGNALS USED AS PEAK-VELOCITY DETECTOR IN ULTRASONIC DOPPLER FLOW
 QUADTHERMOMETER (QUADTHERM) 4-CHANNEL THERMOMETER USING THERMISTORS & CONNECTING TO APPL
 CHARGE-SENSITIVE AMP. (PREAMP.) THAT GIVES LINEAR RESPONSE FOR ENERGIES UP TO 80-90MEV, WITH 25NS
 TRANSMITTING END OF FIBER-OPTIC COMPUTER INTERFACE UNIT, CONSISTING OF LV. AUDIO AMP. FEEDING NP
 TRANSFORMER-COUPLED ALL-TRIODE AMP./"WILLIAMSON" AMP./"KAPPLER" AMP. WITH DIRECT-COUPLED AMP. S
 ALARM TO AUTOMATICALLY SOUND AUDIBLE ALERT TO TURN ON VEHICLE'S HEADLIGHTS AT DUSK, INCLUDING I
 CHANNEL SELECTION LOGIC OF ADD-ON CARD FOR IBM PC. FOR DATA ACQUISITION & DIAGNOSIS OF ECG.S (BB
 CHARGE SENSITIVE PREAMP./PULSE SHAPING AMP. WITH LIMITED BW. TO REDUCE NOISE & LF. & HF. PICKUP, W

OTA.-BASED IA. INCLUDING AMP.S THAT FUNCTION AS DIFFERENTIAL VOLTAGE-TO-CURRENT CONVERTER/CCT U
 ANALOG CCT USED IN REAL-TIME ELIMINATION OF EFFECT OF DECAY PRODUCT RAC'
 DUAL-OUTPUT WIDEBAND CURRENT CONVERTER TO DRIVE DIFFERENT LOADS WITH SAME CURRENT, USING MA
 ANALOGUE MEASURING CCT TO TRANSMIT UNBALANCED BRIDGE VOLTAGE VARIATIONS/TIMING CCT (BBB)/AUT
 PEAK TIMER TO AUTOMATICALLY MEASURE TOF. FOR REPETITIVE SIGNALS, STABLE IN PRESENCE OF NOISE RE
 DUAL VIDEO LINE DRIVER FOR USE WHEN >1 MONITOR IS USED WITH VCR. OR COMPUTER, WITH 75OHM SOURC
 ANALOG MODULE OF 12-BIT 70US ADC. BASED ON BINARY SEARCH MODE OF OPERATION, INCLUDING 2 SH.S (2)/
 ANALOGUE INTERFACE SUITABLE FOR APPLE II & OTHER 6502 MACHINES, THAT IS ALSO WAVEFORM GENERATO
 ANALOGUE MULTIPLIER USING COMPARATOR, OA.S, ANALOGUE SWITCHES & NAND GATES, BASED ON TRANSIE
 ANALOG PART OF RATEMETER CONSISTING OF HIGH IMPEDANCE IA. & WINDOW COMPARATOR
 CLASS AB LIMITING AMP. WITH LOW OUTPUT IMPEDANCE, CONSISTING OF LIMITING DIFFERENCE AMP. & BUFFER
 STABILIZING (CONTROL) CCT THAT AMPLIFIES DIFFERENCE BETWEEN SIGNAL FROM POWER METER & ADJUSTA
 ANALOG SECTION OF AC. MAGNETOMETER ELECTRONICS, INCLUDING H-FIELD AMP., INTEGRATOR & SH.S/MAGN
 TRANSCONDUCTANCE-AMP.-CAPACITOR SINUSOIDAL OSCILLATOR USING 2 OTA.S & 2 GROUNDED CAPACITORS
 VCA. USING GAIN-BLOCK IC/12-INPUT VCA. USING CMOS. LOGIC/DIGITALLY CONTROLLED ANALOG MULTIPLIER/U
 STANDARD SYNTHESIZER/NONADAPTIVE & ADAPTIVE DESIGNS USING SYNTHESIZER WITH FULLY INTEGRATED P
 PHASE SHIFTER FOR FREQUENCIES AROUND 50MHZ, WITH LOW DISTORTION, FAIRLY CONSTANT AMPLITUDE, &
 BEAM LIMITER CCT OF PYE SOLID-STATE COLOUR RECEIVER/PS. & LINE TIMEBASE CCTS OF PYE 715 & 717 CHAS
 MEASURING BRIDGE TO STUDY SPONTANEOUS FERROELECTRIC POLARIZATION IN CHIRAL SMECTIC LIQUID CRY
 MEASUREMENT CCT USING OA. WITH "ACTIVE" FREQUENCY COMPENSATING NETWORK (ACTIVE COMPENSATED
 CLASS C OR CLASS AB PUSH-PULL POWER AMP. USING POWER MOSFET.S IN COMMON SOURCE CONFIGURATIO
 DUAL-LEVEL FLOAT CHARGER TO CHARGE 6V (3 2V CELLS) 2.5AH SEALED LEAD-ACID BATTERY, WITH "FULLY CH
 ADAPTIVE ELECTRONIC HYBRID WITH RESIDUES AS ADJUSTABLE PARAMETER ONLY (3-RESIDUE HYBRID), USING
 LOAD-CURRENT MONITOR THAT CONVERTS LOAD CURRENT OF POSITIVE PS. TO GROUND-REFERENCED SIGNAL
 HEART OF SBC., SHOWING MICROCONTROLLER & SERIAL PORT/PC. KEYBOARD INTERFACE/CCT TO ADD VIDEO I
 MEASUREMENT SYSTEM (MUX.ED ADC. WITH RS232 INTERFACE) USING 12-BIT ADC. IC WITH PARALLEL INTERFA
 CHARGE-SENSITIVE PREAMP. USING JFET.-BIPOLAR FOLDED CASCODE/PULSE SHAPING CCT/GATED BASELINE P
 GRADIENT CONTROLLER INTERFACE/SINE & COSINE WAVE GENERATOR/SMOOTHING CCT/2 DIGITAL ATTENUATO
 TRANSISTOR THERMAL-CONDUCTIVITY PROBE
 SMALL QUIET STABLE EFFICIENT 0.25KW 23CM LINEAR AMP.
 DUAL-MODE TIMER TO SWITCH LOADS TO 200V AC. AT 1.5A, USING COUNTERS DATA SELECTORS & LATCHES/60
 LEAK RC-PA-U INCLUDING 1ST AF. AMP., PHASE INV, PRE-AMP.-TONE AMP., OUTPUT & RECT SECTIONS, WITH MIC
 PEAK PROGRAM METER (PPM) CCT MOD. FOR REVOK A77 OPEN-REEL TAPE RECORDER/PARTIAL CCTS SHOWING
 DIAL PULSE PICK-UP CCT/DIALLED TELEPHONE NUMBER ANNOUNCER INCLUDING SPEECH SYNTHESIZER, EPRO
 TRAMP (TRANSITION RADIATION AMP.) AMP. TO READ OUT CHAMBER SIGNALS, INCLUDING FAST LINEAR PREAM
 PHASE DETECTOR INCLUDING ZCD.S, DELAY, PHASE-DETECTOR, PULSE GATING, DIFFERENTIAL LOW-PASS AMP
 SMALL (5W) TRANSMITTER INCLUDING TUBE USED IN PIERCE OSCILLATOR DRIVING TUBE AS DOUBLER OR AMP.
 ANALOG MEAN-TIMER THAT GENERATES MEAN-TIMING PULSE THAT IS ANALOG COMPUTATION OF MEAN ARRIVA
 UVA METER USING HAMAMATSU GAASP PHOTODIODE AS DETECTOR, & CURRENT-TO-VOLTAGE CONVERTER US
 FLASH-LAMP (CHARGING) & TRIGGER UNITS/TIMING UNIT & SOLENOID SHUTTERS/GATE & PHOTOMULTIPLIER (PM
 PEAK INDICATOR FOR LOUDSPEAKERS, POWERED BY DRIVE SIGNAL OF AMP., PROVIDING VISUAL WARNING WH
 TRANSMITTER OF BATTERY-POWERED, ULTRASONIC PROXIMITY DETECTOR USING 40KHZ MATCHED PIEZOCERA
 DUAL-WAVELENGTH LED. BASED DETECTOR FOR FIA PROCESS ANALYSERS, INCLUDING CURRENT-VOLTAGE CO
 EVALUATION VERSION OF S2/PULSE-BURST GENERATOR/FREQUENCY METER FOR 0.1 TO 530KHZ
 DUAL-SLOPE 8-BIT ADC. CCT THAT TRANSFORMS LOGARITHMIC INPUT SIGNALS TO LINEAR OUTPUTS
 ALARM CCT FOR UNDER-VOLTAGE CONDITION IN RECORDER FOR MEASUREMENT OF PF., HORSE POWER, SLIP,
 HEATHKIT DECODER TO CONVERT SYSTEM WITH DISCRETE DECODER TO INTEGRATED DECODER, & EXPAND CA
 SLAVE CONTROLLER BASED ON INTELLIGENT PERIPHERAL CONTROLLER (IPC), PIA., PROGRAMMABLE TRIPLE TI
 PHASE-SHIFTING CCT FOR CONSTANT PHASE PRODUCTION, USING PLL. CCT, MONOSTABLE VIBRATOR & RC. NE

TRANSMITTER CONSISTING OF LEVEL CONVERTOR, 4-DEVICE INPUT SELECTOR, CLOCK GENERATOR, PWM. & LI
 TRANSLATOR CCT THAT ENABLES 100K ECL. TO DRIVE 10K-10H-FAMILY LOGIC WITHOUT LOSS OF NOISE MARGIN
 PHASE MODULATION CAPACITANCE METER TO ENABLE MEASUREMENT OF SHORT-LIVED CAPACITANCE TRANSI
 ADAPTER TO RUN PARALLEL-INTERFACE (CENTRONICS-COMPATIBLE) COMPUTER PRINTER FROM PC.'S RS-232 S
 HEATHKIT(R) IG-72 AUDIO (SINE WAVE) GENERATOR (OSCILLATOR) USING 2 TUBES, RECTIFIER TUBE, CAPACITO
 CHARGE-MEASURING (CHARGE-SENSITIVE) AMP. USING CHOPPER-STABILISED INTEGRATED OA., & OA. AS OUTF
 START GATE, STOP GATE & 500MHZ COUNTER FOR 1 CHANNEL OF UP. CONTROLLED NANOSECOND COUNTER (N
 ANALOG PROCESSING CHANNEL TO EXAMINE PHOTOMULTIPLIER SIGNALS, & ELIMINATE THOSE NOT MEETING P
 CLASS-D (SWITCHING) AUDIO POWER AMP. WITH LOW DISTORTION, +-30V OUTPUT INTO 8OHM, 92% EFFICIENCY
 SMARTGAGE (DASHBOARD INSTRUMENT) THAT PROVIDES DIGITAL READOUT OF CAR'S WATER TEMPERATURE C
 CHARGING CCT THAT DISCHARGES NICD. BATTERY, CHARGES AT <=25% OF FAST-CHARGE RATE, & RESTORES I
 PEAK ADAPTER FOR USE WITH BIRD 43 WATTMETER, RF. DETECTOR OR SWR. BRIDGE, OR AS PEAK-DEVIATION I
 READOUT ELECTRONICS OF 1 CAPACITIVELY-COUPLED PAD, INCLUDING COMPARATOR, MONO-FLOP & SHIFT RE
 CHARACTER-GENERATOR CCT FOR CONNECTION TO VIDEO DISPLAY BOARD, TO PROVIDE ESSENTIAL APL CHAR
 BOARD TO CONVERT RAW DATA OF SONAR TR. TIME INTERVAL INTO NUMERIC DISTANCE VALUE (4)/STEPPER M
 TRANSMITTER WITH 5KHZ TONE GENERATOR ACTIVATED BY SECURITY SWITCH/RECEIVER WITH AUDIBLE OUTP
 DUAL CONVERSION 2M FM. RECEIVER USING MOTOROLA "RECEIVER ON A CHIP", AUDIO AMP. & VOLTAGE REGUL
 TRANSMITTER OF IR. REMOTE CONTROLLER, THAT DECODES 20-SWITCH MATRIX/RECEIVER THAT CONVERTS BI
 ANALOG ANTILOG CONVERTER FOR POTENTIOMETRIC MEASUREMENTS, BASED ON INTERSIL ANTILOG AMP. & S
 PLATINUM RTD. CCT USING HIGH-PERFORMANCE OA.
 SMALL MICROCOMPUTER SYSTEM INCLUDING UP., RAM., EPROM., UART., CLOCK GENERATOR & EIA. INTERFACE
 2MA CONSTANT CURRENT SOURCE USING HIGH-GAIN NPN TRANSISTORS, WITH DYNAMIC RESISTANCE >1MOHM
 ANALOG-TO-DIGITAL EXPERIMENT POD INCLUDING ADC. & DAC. THAT BOTH ALLOW SWITCHING OF IO. VIA ANAL
 STATION MONITOR OSCILLOSCOPE/CRT. CCT/PS.S
 CHARGE PREAMP. WITH TWISTED-PAIR DIFFERENTIAL OUTPUT, & LINEAR BUFFERED DIFFERENTIAL RECEIVER, I
 TRANSISTOR-STORAGE-TIME TESTER THAT PRODUCES PASS SIGNAL IF TRANSISTOR UNDER TEST HAS STORAG
 BIAS CCT FOR TRIODE GROUNDED-GRID AMP., WITH RESTING DISSIPATION OF 30W/VHF. CLASS-C AMP. USING D
 PEAK CURRENT DETECTOR TO STORE PEAK CURRENT IN 10-BIT ADC., INCLUDING HALF-WAVE RECTIFIER (BASE
 FLASHTUBE SUPPLY BOARD/PS./CCT TO TRIGGER STROBE ON LIGHT-TO-DARK TRANSITIONS/DEBOUNCER
 TRANSMITTER CCT/RECEIVER CCT
 BEAMS CONTROLLER TO TURN ION & ELECTRON BEAMS OFF OR ON/ION & ELECTRON BEAM CHOPPER CCTS (2)
 DUAL DIRECTIONAL COUPLER INCLUDING DETECTOR/PEP (PEAK ENVELOPE POWER) WATTMETER USING LED. B
 TRANSMITTER CONSISTING OF LOW-POWER TEMPERATURE SENSITIVE MULTIVIBRATOR USING THERMISTOR AS
 DUAL RS-232C INTERFACE BOARD FOR TRS-80 MODEL I OR III COMPUTER, USING SIGNETICS DUART.
 DUAL PIA. INTERFACE FOR APPLE II/INTERRUPT CCT FOR APPLE II/ADC. WITH DUAL PIA. INTERFACE
 SMALL BATTERY-POWERED PROJECT THAT EMITS BREEP! EVERY FEW MINUTES
 SHAPER CARD OF CHARM II DIGITAL ELECTRONICS, SERVING 4 STREAMER TUBES/TEST SYSTEM CCT USING 4 P
 TRANSPONDER IN WHICH INCIDENT MAGNETIC FIELD DRIVES TUNED LC. INTO OSCILLATIONS, & PORTION OF TH
 ANALOGUE CCT TO FORM SUITABLE VIDEO SIGNALS FOR LASER MODULATION, FROM CCT TO MONITOR COINCID
 PHASE-NOISE DETECTOR USING ASIC. TO DECODE C-QUAM(R) AM. STEREO SIGNAL/OSCILLATOR CONFIGURATIO
 TRANSMITTER MODULE OF LASER COMMUNICATION SYSTEM, INCLUDING 10MHZ OSCILLATOR, AM., & RF. AMP. &
 DUAL-PORTED DRAM. CONTROLLER INCLUDING 26 TO 16 MUX. IN DESIGN OF MUX. & ARBITER FOR ADDRESSING
 ANALOGUE CCT INCLUDING CONDITIONING, SCALING & IRRADIANCE AMP.S/VFC.
 PLATINUM RESISTANCE THERMOMETER INCLUDING VOLTAGE OFFSET SOURCE & CONSTANT CURRENT SOURCE
 RCA 74AC241 NON-INVERTING, 3-STATE OCTAL BUFFER SHOWN WITH DECOUPLER
 SMALL PORTABLE LOW-COST PROGRAMMABLE-BURST ULTRASONIC GENERATOR WITH EXCELLENT FREQUENC
 DUAL RF. SWITCH, BASED ON POWER-MOSFET. CHIP & PIN-DIODE SWITCHING ELEMENTS, OFFERING 50NS PROF
 CHARGER USING UNITRODE'S SEALED LEAD-ACID BATTERY CHARGER IC THAT CONTROLS BULK CURRENT, TAP
 CHARGE-SENSITIVE PREAMP. INCLUDING CHARGE SENSITIVE LOOP, & 2ND STAGE USING HIGH IMPEDANCE VOL

CHARGER THAT FEEDS BATTERY AT CONSTANT CURRENT UNTIL TERMINAL VOLTAGE REACHES 2.33V-CELL WH
ANALOGUE LASER DOPPLER SIGNAL PROCESSOR FOR FLOWMETER, INCLUDING DIFFERENTIAL PHOTODETECTI
SMALL, LOW-COST, LOW-CURRENT-DRAIN 4-IC CMOS. IAMBIC KEYS INCLUDING OPTIONAL LOW-LEVEL SIDETON
REAL TIME CALENDAR CLOCK BASED ON Z8 TINY BASIC DEVELOPMENT SYSTEM
HEADS & TAILS GAME
ALARM TRIGGER CCT THAT ADAPTS TO INITIAL STATE OF ITS 4-BIT INPUT & TRIPS ON CHANGE OF INPUT
ANALOG DELAY LINE BUILT FROM JUST A FEW DISCRETE COMPONENTS/2-PHASE CLOCK/VCO. CLOCK/LPF.
MEASUREMENT ARRANGEMENT OF CURRENT COMPARATOR
PHASE-LOCKED REGULATOR SYSTEM (PLRS) WITH TRIANGULAR PHASE COMPARATOR (TPC) USING EXOR GATE
REALTIME HIGH RESOLUTION DATA ACQUISITION UNIT INCLUDING SH. AMP. & 12-BIT ADC., FOR DSP./MEMORY IN
TRACTOR MONITOR TO INDICATE FUEL CONSUMPTION BY MEASUREMENT OF EXHAUST GAS TEMPERATURE, US
DUAL-VARIABLE DETECTION SYSTEM TO PROVIDE WIDER DYNAMIC RANGE TO LIGHT INTENSITY MEASUREMENT
TRANSVERTER BAND-SWITCHING LED. DISPLAY USING LATCH-DECODER-DRIVERS/TRANSVERTER PS. VOLTAGE
QUADRATURE OSCILLATOR THAT LOCKS ONTO INPUT REFERENCE SIGNAL & SETS PHASE DIFFERENCE BETWEEN
TRANSMIT CONTROL FOR MOBILE OPERATION, THAT CONSISTS OF PUSH-BUTTON SWITCH/TIMING TEST CCT/OU
ANALOG INPUT ADAPTER TO MAKE DATASCOPE 83 BALLOON PUMP ANALOG OUTPUT COMPATIBLE WITH HP 783.
BEAM-LOCK ELECTRONICS TO MONITOR & CORRECT FOR CHANGES IN PARENT ION BEAM POSITION, USING PAR
TRANSMISSION-LINE TUNNEL DIODE OSCILLATOR (TDO) (TLTDO)/TLTDO RESONATOR USING TRANSMISSION LINE
ADAPTIVE 2ND-ORDER PLL. (APLL) THAT KEEPS LOOP WITHIN PSEUDO-LINEAR REGION FOR WIDE RANGE OF INF
SCA (SWITCHED CAPACITOR ARRAY) OUTPUT BUFFER AMP. INCLUDING OA. THAT PROVIDES VOLTAGE GAIN OF
ANALOGUE SECTION OF ANALOGUE IMPLEMENTATION OF HOUGH TRANSFORM (HT), THAT ACHIEVES BETTER TH
RIAA AMP. CONSISTING OF TRANSCONDUCTANCE AMP.-UNITY-GAIN BUFFER COMBINATION, USING ANALOG DEV
TRANSMITTER OF ASYNCHRONOUS DIGITAL DATA LINK WITH DC.-10KHZ BW., USING PCM./RECEIVER/4TH ORDER
BEAM TRANSMITTANCE METER (BTM) FOR MEASUREMENT OF TURBIDITY IN SITU, USING LED. AS LIGHT SOURCE
QUASI-ANALOG SERVO CONTROLLER FOR ARM, TO POSITION CARRIAGE PLATE WITHOUT RPC. (ROBOTIC PC.) S
PHASE METER THAT DISPLAYS PHASE DIFFERENCE & SIGN OF 2 50% DUTY-CYCLE SIGNALS ON CENTRE-ZERO M
STATIC & VARYING MAGNETIC FIELD GENERATOR INCLUDING LOW-NOISE OA. IN VOLTAGE-TO-CURRENT CONVE
READOUT SYSTEM/AMP. BOARD THAT SERVICES 8 WIRES, INCLUDING MUX. & ANALOG SWITCHES/PLANE CONTR
8 ANALOGUE INPUTS FOR Z80-8085
TRANSMITTER USING SWITCHABLE GAIN IA., & PWM. WITH VFC./RECEIVER TO DEMODULATE SIGNAL
CHARGE-INTEGRATION ADC. OF 12-BIT RESOLUTION, USING SH. PROCESS/INPUT-STAGE AMP. BASED ON GROUND
HEART RATE MONITOR INCLUDING FREQUENCY-TO-VOLTAGE CONVERTER, HIGH-PASS BUTTERWORTH FILTER,
FLASH ADC. & SUPPORT CCT, THAT REACHES HIGHER IF.S, ABLE TO SAMPLE >400MSAMPLES-S AT >500MHZ BW.
FEATURE BOX INCLUDING 100HZ TELETXT & DIGITAL DEFLECTION CONTROLLER, FOR DIGITAL PROCESSING OF
PHASE-AMPLITUDE SHIFTER INCLUDING AMP.S, MIXERS, QUADRATURE HYBRID, 3DB COMBINER, BANDPASS FILT
ANALOG SECTION OF PREPROCESSOR THAT DETERMINES TIME INTERVAL BETWEEN SUCCESSIVE R WAVES OF
ANALOG SECTION SECTION OF INTERFACE TO CONVERT SIGNALS FROM NORMAL TV. RECEIVER INTO SIGNALS
DUAL-CHANNEL VCA./ULTRALOW-DISTORION VCA./VOLTAGE-TUNABLE STATE-VARIABLE FILTER/VARIABLE-Q FILT
DUAL OUTPUT SCANNING PULSER TO EFFECT CYCLIC FIRING OF PAIRS OF LED.S TO SIMULATE EVENT
CLASS D AMP. USING SGS-ATES DRIVER IC DRIVING 4 BRIDGE-CONNECTED MOSFET.S, TO DELIVER 25W INTO 20
TRANSIENT RECORDER INCLUDING ADC., MEMORY & CONTROL LOGIC (BBB)/TRANSIENT RECORDER (3)/BURST-M
STANDARD RMS.-TO-DC. CONVERSION CCT THAT CAN HANDLE BOTH DC. & AC. INPUT VOLTAGES
MEASURING SYSTEM TO SPECIFY FREQUENCY CHARACTERISTICS OF OA.S, WITH IEEE-4888 INTERFACE (BBB)
TRANSMITTER INCLUDING POTENTIOSTATS FOR OXYGEN SENSOR & GLUCOSE ELECTRODE, & LOGIC & COUNT
MEASUREMENT CCT (INTERFACE CCTS) FOR MICROCOMPUTER-BASED CONTROL SYSTEM FOR POULTRY HOUS
TRANSISTORIZED OSCILLATOR CCT WITH INSULATING CAPACITOR, USING 9MHZ AT-CUT CRYSTAL OF 12.5MM DI
VCA. WITH DYNAMIC RANGE OF 55DB, 3DB BW. OF 8MHZ & EXPONENTIAL CONTROL, USING DUAL MULTIPLIER CH
ANALOG BOARD OF STABLE 4.5 DIGIT MICROVOLT METER FOR USE WITH GLASS ELECTRODES/DIGITAL BOARD
ALARM SYSTEM FOR HOME OR CAR, USING 4 SCHMITT-TRIGGER GATES, 1 POWER TRANSISTOR, 12V VOLTAGE F

TRANSIENT DIGITIZER TO DIGITIZE REPETITIVE SIGNALS WITH 30NS, 8 BIT RESOLUTION AT REPETITION RATES C
 CHARGE AMP. USING ANALOG DEVICES LASER TRIMMED FET. OA., INCLUDING CHARGE SAMPLING CAPACITOR &
 ALARM USING 1 CMOS. SCHMITT IC THAT GENERATES "BEEP" DELAYED BY SWITCHABLE TIMES FROM 15S TO 12
 ANALOG DEVICES 12 BIT DAC. TEST CCT WITH UNIPOLAR CURRENT SOURCE OUTPUT SPECIFIED FOR FULL SCAL
 ANALOG DEVICES DAC. TEST CCT
 DUAL DAC. TO 8085 CPU. INTERFACE (BBB)/DIGITALLY CONTROLLED STATE VARIABLE (UNIVERSAL) FILTER INCLU
 STAND-ALONE SYSTEM USING 8-BIT MICROCOMPUTER/FULL-BLOWN SYSTEM (BBB)/PORTABLE PC. INCLUDING D
 READOUT SYSTEM TO COLLECT DATA FROM VIDEO (TV.) CAMERA, USING SH., ADC. & VIA.
 SMALL SYNC-&-VIDEO MIXER TO ENABLE XEROX COMPUTER BOARD TO FEED SIGNAL TO TTL.- & COMPOSITE-VI
 PHASE-LOCKED TED (THRESHOLD EXTENSION DEMODULATOR) WITH CARRIER DETECTION, INCLUDING LOOP FI
 PEAK-STRETCH & COMPUTER-CONTROLLED ATTENUATION CCTS, USING MDAC./9-BIT CHARGE DIVISION CCT US
 PHASE METER INCLUDING SWITCHED CAPACITOR PHASE-SHIFTER, LOOP PHASE DETECTOR, INTEGRATOR, VFC
 STATION MODULE THAT GENERATES DIGITALLY PROGRAMMABLE OUTPUT VOLTAGE & ITS COMPLEMENT/HV. MC
 ANALOG-TO-DIGITAL INTERFACE USING 25US 12-BIT ADC. WITH INPUT RANGE OF 0 TO +5V, & OA./APPLE II TO 652
 ANALOG INPUT STAGE, DVM. BUFFER AMP., ADDER-SUBTRACTOR STAGE & OUTPUT TO ADC., DESIGNED FOR LO
 TRANSISTOR SWITCH TO SWITCH FROM LITHIUM BATTERY TO 5V PS., THAT ELIMINATES EXCESSIVE BATTERY DI
 HEATER CONTROL & BRIDGE AMP., TO SUPPORT FLOW SENSOR, INCLUDING HIGH-PRECISION IA. WITH DIFFERE
 TRANSMITTER OF VERY HV. ISOLATION AMP. USING ADC. & SERIAL DATA TRANSMISSION ON FIBER OPTIC CABLE
 FLATNESS ANALYZER INCLUDING DIGITAL WHITE-NOISE (PSEUDO-RANDOM SEQUENCE) GENERATOR, SQUARE-V
 READOUT ELECTRONICS OF DSI (DIRECT SAMPLE INSERTION) SYSTEM, USING ANALOG DEVICES FET.-INPUT ELE
 EVALUATION BOARD USING MOTOR DRIVE IC, THAT PROVIDES 3-PHASE, FULL-WAVE DRIVE FOR 3 PAIRS OF PUS
 TRANSDUCER HEAD ELECTRONICS OF OPTICAL FM. LINK, INCLUDING FM. CARRIER GENERATOR & MODULATOR/
 DUAL-THRESHOLD CLAMP CCT USING QUAD OA. & ANALOG MUX., WITH RAZOR-SHARP CLAMPING
 PHASE METER INCLUDING SWITCHED CAPACITOR PHASE SHIFTER (SCPS), LOOP PHASE DETECTOR, INTEGRATO
 ANALOG RATIOING ELECTRONIC SYSTEM USING ANALOG MULTIPLIER (CONFIGURED IN SINGLE QUADRANT DIVIS
 ANALOG SQUARER USING RMS.-TO-DC. CONVERTER/CCT USING ANALOG SWITCH FOR UP. CONTROL
 ANALYSER SETUP FITTED TO OBJECTIVE-LENS POLE PIECE
 ANALOG INPUT CCT TO CONDITION SIGNALS TO BE APPLIED TO ADC., INCLUDING PREAMP. & CONVERTER BUFF
 REAL-TIME UP. SYSTEM TO REALIZE DIGITAL FILTER TO EXTRACT SMOOTHED RANGE & RANGE DATA FROM NOIS
 TRANSMITTER FOR 1750M (180KHZ) BAND, INCLUDING ANTENNA TUNING (MATCHING) NETWORK & OSCILLATOR T
 TRANSMITTER CONTROLLER (TC) OF COMMUNICATION CHANNEL THAT LINKS DAS. WITH COMPUTER/TRANSMISS
 GAASFET. PS./CCT SHOWING GAASFET. BIASING
 SPARK MISS DETECTOR
 ANALOG REVERBERATION SYSTEM THAT PROVIDES DIGITAL DELAY USING "BUCKET-BRIGADE" IC'S
 PHASE-FREQUENCY-TO-VOLTAGE CONVERTER-DEMODULATOR USING PREANALOG SUBTRACTIONS & SAMPLED
 CLASS-A PUSH-PULL AMP. IN WHICH OUTPUT BIPOLAR TRANSISTORS ARE PERMANENTLY FORWARD BIASED (CO
 PHASE DEMODULATOR RESEMBLING QUARTER-PERIOD PHASE-SHIFT FM. DEMODULATOR
 VCA./DIFFERENTIAL, INVERTING, & NONINVERTING AMP.S
 ANALOG SIGNAL CONDITIONING CCT WITH HIGH & LOW RANGES FOR VOLTAGE & CURRENT INPUTS, INCLUDING
 TRANSMITTER CONSISTING OF MICROPHONE PREAMP. & CONSTANT-CURRENT MODULATOR/RECEIVER INCLUDI
 TRANSMITTER STAGE OF IR. REMOTE CAMERA CONTROLLER/RECEIVER STAGE OF CONTROLLER
 FLASH CONTROL UNIT FOR USE IN STREAK PHOTOGRAPHY
 FLASH CCT (TIMING & TRIGGERING CCTS) INCLUDING OSCILLATOR, GATE FOR COMPUTER CONTROL, PULSE SH
 TRANSDUCER & SIGNAL PROCESSING CCT, TO TRANSDUCE RADIANT POWERS TO PROPORTIONAL ELECTRIC SI
 DUAL ASTABLE MULTIVIBRATOR CCT USING TIMER CHIP IN HUMIDITY-SENSITIVE & REFERENCE OSCILLATORS, V
 QUAD VERSION OF MSD2 HYBRIDIZED LOW NOISE PREAMP., USING MICROWAVE TRANSISTOR & TRANSISTOR CH
 ANALOG LED. OPTICAL TRANSMITTER & ITS DC. REGULATED BATTERY SUPPLY/OPTICAL RECEIVER-DEMODULAT
 CHARGE PREAMP. USING PIN PHOTODIODE AS RADIATION MONITOR (CHARGED-PARTICLE DETECTOR), INCLUDI
 CLAMPING CCT THAT CLAMPS MOST POSITIVE VALUE OF INPUT PULSE SIGNAL TO ZERO BASE LEVEL, & INVERTS

HEADPHONE AMP.

PEAK INDICATOR

GRAY-SCALE TEST GENERATOR THAT PROVIDES BLACK & WHITE & SHADES IN BETWEEN, FOR PRODUCING FAX
 PHASE DIFFERENCE-TO-VOLTAGE CONVERTER USING JFET. INPUT FAST COMPARATORS FOR ZCD., & REFEREN
 CHARGE PREAMP. OF COMPUTER CONTROLLED LOSS-ANGLE BRIDGE WITH AUTOMATIC CAPACITIVE BALANCE/
 CHARGE-SENSITIVE PREAMP. CONSISTING OF OA. INTEGRATOR FOLLOWED BY AC. COUPLED OA. DIFFERENTIAT
 TRANSLINEAR DIVIDER & SQUARE-ROOTER OF ANALOG SINUSOIDAL F-V CONVERTER/DIFFERENTIATOR & INTEG
 CHARGE SENSITIVE PREAMP. FOR HIGH CAPACITANCE DETECTORS, USING DUAL JFET.S IN PARALLEL, WITH SE
 PHASE-SHIFT UNIT TO GENERATE RF. PULSES WITH CONTROLLED FREQUENCY & PHASE, INCLUDING ZCD., PHAS
 MEASURING CCT OF WIDE-RANGE OHMMETER USING DUAL OA., WITH UPPER LIMIT OF 1000MOHM & LOWER LIM
 STABILISED PS. FOR PREAMP./SMALL-SIGNAL BIPOLAR TRANSISTOR SWITCH/SHUNT- & SERIES-CONNECTED FET
 ANALOG-DMM. INCLUDING DC. & AC. AMP. & RECTIFIER, CURRENT SOURCE, & AC. PREAMP., TO MEASURE VOLTA
 SHAFT-ANGLE ENCODER/CCT TO PUT OUT PULSE COUNT PROPORTIONAL TO TEMPERATURE/CCT TO COMPENS
 MEASURING SYSTEM INCLUDING AMP.S & PHA. (BBB)/LOW NOISE INPUT- & PRE-AMP. INCLUDING JFET. OA.S & DI
 SMATCH VIBRATION FEEDBACK CCT USING MOTION SENSOR CONSISTING OF IR. LED. & PHOTOTRANSISTOR/FV
 QUARTZ GENERATOR USING QUARTZ RESONATOR (PROBE OF DETECTOR) TO OPERATE AS FREQUENCY-DETE
 CHARGE-BALANCE VFC./VFC. WITH OPTOCOUPLER OUTPUT/FREQUENCY-TO-VOLTAGE (F-V) CONVERTER/SINGL
 ANALOGUE FREQUENCY DIVIDER COVERING 140-150MHZ RANGE, DIVIDING BY 16 & CONSISTING OF OSCILLATOR
 ANALOGUE INTEGRATOR & RESULT (OUTPUT) SH. CCTS USING JFET. FOR REMOTE RESET, INCLUDING TIMING C
 ANALOGUE FREQUENCY-TO-VOLTAGE (F-V) CONVERTER INCLUDING ACTIVE INTEGRATOR CONSISTING OF LINEA
 ANALOG CCT OF SWITCHED-CAPACITOR INTERFACE FOR CAPACITIVE SENSORS WITH WIDE DYNAMIC RANGE/SA
 TRANSMITTER PORTION OF DATA TRANSCEIVER THAT ALLOWS 2 COMPUTERS TO TRANSMIT & RECEIVE DATA O
 TRANSMITTER CCT FOR CHANNEL 1, USING BALANCED MODULATOR/RECEIVER CCT FOR CHANNEL 1, USING PLL
 ANALOG SECTION OF TEMPERATURE CONTROLLER/SAME MOD. FOR USE WITH LOAD CELL COMPARATOR/ZCD. &
 TRACKING SWITCHED-CAPACITOR FILTER USING PLL., THAT AUTOMATICALLY DETERMINES PROPER FILTER CLO
 CHARGE-SENSITIVE PREAMP. TO GIVE LINEAR RESPONSE FOR ENERGIES TO 80-90MEV, WITH RISE TIME OF ~25
 SHAPE-SENSITIVE TRIGGER CCT TO PRODUCE SYNCHRONISING PULSE WHEN SLOPE OF R-WAVE PASSES THRO
 CHARGE-SENSITIVE PREAMP. (DUAL FEEDBACK LOOP AMP.) USED AS INVERTING SUMMER CCT, USING OA. & FA
 RIAA STAGE OF MOS. PREAMP., USING P-CHANNEL MOS. DEVICES & CASCODE OF INPUT STAGE JFET.S/POST AM
 ANALOGUE CCT USING SH. CCTS (2)/DIGITAL CCT/AUTOMATED MEASUREMENT SET-UP (BBB)/CCT FOR CONSTAN
 START DETECTOR CCT OF INSTRON-APPLE II INTERFACE CARD/CALIBRATION AMP. THAT BUFFERS & FILTERS
 CHARGE INTEGRATOR USING TRUE INTEGRATOR INCORPORATING OA., BLOCKED DURING TRAP-FILLING PULSE
 TRANSMITTER TO CONVERT RS-232C DATA TO IR. PULSES, USING IRED./RECEIVER THAT SERVES AS OPTICAL LE
 TRANSIMPEDANCE PREAMP. FOR RADIOMETRIC EXPERIMENT WITH SI:GA HIGH SPEED IR. PHOTOCONDUCTOR (I
 BIAS CCT INCLUDING RESONANT PATCH ANTENNA IN EMITTER CCT OF TRANSISTOR CONNECTED IN COMMON B
 LNA. USED IN ARTIFICIAL COLD RESISTOR, USING 4 AF. LOW-NOISE JFET.S AT INPUT, TO SUPPRESS VOLTAGE FI
 MEASUREMENT SETUP (TEST CCT) TO TEST 4-TRANSISTOR 4-QUADRANT ANALOG MULTIPLIER, INCLUDING COM
 PHASE-LOCKING CCT TO PHASE LOCK CW. MODE-LOCKED ND:YAG THAT SYNCHRONOUSLY PUMPS TUNABLE DY
 'BAR' INDICATOR FOR DISPLAYING PEAK LEVEL OF AC. SIGNALS FROM TRANSDUCERS
 RIAA-1 V.3 (EB-1190-122) BOARD OF PREAMP./CLASS A RIAA-2 V.3 (EB-990-120) BOARD/CLASS A LINE AMP. (EB-48
 DUAL-STAGE 10GHZ RF. AMP. (PREAMP.) USING 2 FET.S, WITH 18DB GAIN & ~2DB NF.
 ANALOGUE SUB-SECTION OF SIGNAL ANALYSER FOR SIMULTANEOUS DISPLAY ON OSCILLSCOPE/DIGITAL SUB-S

DLA

SMALL BRUSHLESS MOTOR USING POWER HALL-EFFECT SENSOR CONTAINING POWER-OUTPUT TRANSISTORS,

ANALOG CCT FOR SIMULATION OF PYROELECTRIC DETECTOR RESPONSE
ANALOGUE PORTION OF DAS., FROM ELECTRODE AMP.S TO ADC., INCLUDING OA., & ANALOGUE IC MUX. TO COM
ANALOG-TO-DIGITAL & DIGITAL-TO-ANALOG HARDWARE, INCLUDING 12-BIT DAC., 12-BIT ADC., ADDRESSABLE AN
PEAK MEMORY FOR SHORT LASER PULSE
DUAL CHANNEL DIGITAL TEMPERATURE MONITOR TO MEASURE TEMPERATURE OF ION MOBILITY SPECTROMET
MEASUREMENT ELECTRONICS
25A CONSTANT CURRENT SOURCE USING 12V AUTOMOTIVE LEAD-ACID STORAGE BATTERY, & POWER OA. & PO
SPARK SOURCE CCT INCLUDING HV. TRIGGER PULSE WAVEFORM GENERATOR & L-C-R CURRENT PULSE GENER
PEAK DETECTOR USING HIGH SLEW RATE AMP. & SH./AUTOMATIC ECHO SELECTION LOGIC
ANALOG DIGITAL GAS FLOW TOTALIZER TO CONDITION SIGNAL FROM FLOW SENSOR, USING CHOPPER STABILIZ
FLASH VAPORIZER INCLUDING CHARGING & CHARGE CONTROL CCT & FLASH & DISCHARGE CCT, USING VOLTAGE
SNAP INDICATOR TO SUPPLY VISUAL INDICATION OF WHO PRESSED BUTTON 1ST, USING 2 SCR.S & LED.S, SUITA
TRANSFORMERLESS PS. THAT OPERATES AT LINE (117V AC.) POTENTIAL, USING 8A SCR. & NON-POLARIZED ELE
TRANSDUCER CCT USING STATIONARY PHOTON-COUPLED INTERRUPT MODULE CONSISTING OF LED. MATCHED
BIAS CCT USING PNP TRANSISTOR WITH DIODE COMPENSATION, TO PROVIDE BIAS CURRENTS & VOLTAGES THA
HEADER BACKPLANE & 16 CHANNEL ANALOGUE MUX. CCT/ADC. & DAC. & CONTROL LINE INTERFACES TO ROCKY
CHARGE-SENSITIVE PREAMP. WITH EXCELLENT ENERGY RESOLUTION & STABILITY FOR OPERATION WITH SURF
TRANSISTOR CONTROLLED FLASHLIGHTS (2)/CCT USING PHOTOTRANSISTOR AS LIGHT SENSOR/SYNTHESIZER U
STATIC-COLUMN DECODING MEMORY CONTROLLER USING FUSE-PROGRAMMABLE SEQUENCE GENERATOR, INC
STABLE 50KHZ DC.-COUPLED ISOLATION AMP. USING 2 IDENTICAL OPTO-ISOLATORS TO NEGATE DRIFT
STABILIZED 200MA DC. BIAS CURRENT SOURCE INCLUDING BATTERY, 3 TERMINAL REGULATOR, LPF. & BIAS CUR
TRANSMITTER OSCILLATOR/OUTPUT CCT FOR IR. TRANSMITTER/RECEIVER OSCILLATOR
TRACK-&-HOLD AMP. INCLUDING SH./FAST PULSE AMP. WITH DIGITAL OFFSET TO REMOVE DC. SIGNAL FROM PM
ADAPTERS TO ELIMINATE BATTERY REPLACEMENT IN GEAR USED IN AUTOMOBILE, BY STEPPING DOWN BATTER
TRANSMITTER CONSISTING OF CURRENT DRIVER & GATES USED AS DIGITAL DIFFERENTIATORS/DETECTION CCT
ADAPTATION OF KIT RYAN'S VOLTAGE REGULATOR CCT, CONSISTING OF DRIVER CCTS WIRED TO OUTPUT DARI
CHARGE SENSITIVE PREAMP. (CSP) USING INPUT N-CHANNEL JFET. THROUGH WHOSE GATE DETECTOR LEAKAGE
TRANSCIEVER/VOTING CCT
CHANGES TO ICOM IC-730 KEYING CCT, RECEIVER AUDIO CCT, ALC CCT & VOX-DELAY CCT/FAN-MOTOR CONTROL
DUAL-VOLTAGE REGULATED PS. TO STABILIZE MILITARY SURPLUS R-392-URR RECEIVER
25A PS. BUILT FROM AUTOMOTIVE-TYPE BATTERY CHARGER
STANDARD 3 OA. IA. BASED ON MICRO LINEAR'S FB300 ANALOG ARRAYS
REAL-TIME ANALYZER USING FINITE DIFFERENCE METHOD, THAT CAN SEPARATE NEURAL SPIKES FROM COMPO
PEAK READOUT DEVICE (PEAK HEIGHT DETECTOR) THAT DETECTS & HOLDS MAXIMUM (POSITIVE) & MINIMUM (N
SMALL BOARD OF AUDIO PEAK PROGRAM METER USING RED LED.S, WITH FAST RESPONSE, ATTACKING QUICKL
FLAVORIG (80M 5W CW. TRANSCEIVER) USING \$7 AM. POCKET RADIO WITH ORIGINAL FRONT END REPLACED WI
TRANSCONDUCTANCE PREAMP./INPUT, FOLLOWER & COMMON-BASE STAGES OF PROTOTYPE AMP. (3)/VELOCIT
PHASE MEASUREMENT CCT WITH 180DEG RANGE & LEAD-LAG SIGN, INCLUDING CLOCK GENERATORS, LEAD-LA
SCANNER THAT SCANS ALL INPUTS OF ALL-SOLID-STATE PREAMP. TO ASCERTAIN WHERE AUDIO SIGNAL IS PRE
ANALOGUE CCT/RAMP VOLTAGE SOURCE USING DAC., USING DATA FROM USER PORT TO PRODUCE OUTPUT CU
HEATER DRIVER TO CHANGE SAMPLE TEMPERATURE/CONSTANT-CURRENT GENERATOR TO MEASURE RESISTIV
RIAA EQUALISED GAIN STAGE/TILT OR SLOPE-ADJUSTMENT TONE CONTROL/RUMBLE FILTER/UNITY-GAIN SALLE
ANALOGUE SPECTRUM (FREQUENCY) SHIFT ENCODER-DECODER FOR SCRAMBLING & DESCRAMBLING, WHOSE
PHASE METER CCT USING TI ENHANCED-JFET. PRECISION OA.S, THAT OPERATES FROM 100HZ TO 10KHZ PRODU
ANALOG-DMM. TO MEASURE AC. & DC. VOLTAGE & CURRENT, & RESISTANCE, INCLUDING DC. & AC. AMP. & RECT
SCANNED LED. SEGMENT TRANSLATOR THAT CAN BE FROZEN INTO CONTINUOUS 7-SEGMENT OUTPUT BY USE
TRANSMITTER USING AGC. WITH 60DB DYNAMIC RANGE PROVIDED BY VOICE OPERATED GAIN ADJUSTING DEVI
PEAK DETECTOR USING RF. OA., THAT CAN CAPTURE PEAK SIGNAL LEVELS IN 50NS/40MHZ ACTIVE BANDPASS F
LEAD-ACID-BATTERY TRICKLE CHARGER/HV. PS. TO OPERATE FLUORESCENT TUBE FROM 12V SOURCE/HARTLE

CLASSIC QRP RIG OF THE 40S

ANALOG READOUT ELECTRONICS, USING QUAD FET.-INPUT OA., INCLUDING PREAMP. & SHAPER/DIGITAL READOUT

ANALOGUE PART OF 24-INPUT 8-CHANNEL EEG. UP.-CONTROLLED (SOFTWARE-CONTROLLED) DC. AMP. USING 3

PRACTICAL SH. CCT/LOW OFFSET SH. CCT/SIMPLE 'PEAK PICKER' CCT

TRANSMITTER FOR IR. REMOTE CONTROLLER, USING LED.S & TIMERS GENERATING MODULATED 35KHZ SIGNAL

ANALOG FRONT END OF HAL ("HEMISPHERIC ACTIVATION LEVEL DETECTOR") TO AMPLIFY BRAIN WAVES, INCLUDING

ANALOG LEVEL DETECTOR

STANDARD CURRENT-FEEDBACK-AMP. CCT/CCT TO REDUCE EFFECTIVE FEEDBACK RESISTANCE AT LF.S/CCT U

QUASI-ISOLATED CURRENT SOURCE THAT GENERATES NEAR-ZERO GROUND CURRENT, BASED ON QUAD OA., V

QUASI-ISOLATED CONSTANT-CURRENT STIMULATOR/QUAS-ISOLATED AC. COUPLED STIMULATOR/HF. ISOLINEAR

TRANSMIT CONVERTER INCLUDING TRANSMITTER FINAL STAGE (2)/FM. IF. MUTE & AF. SWITCHING CCTS WITH A

TRANSMITTING SECTION OF ULTRASONIC TRANSIT-TIME DIMENSION CCT (2)/RECEIVING SECTION/LEFT-VENTRIC

USASI NOISE WEIGHTING-PULSER CCT WITH BALANCED PULSED-USASI NOISE OUPUT FOR WHITE NOISE INPUT,

SPARK CHAMBER HV. PULSING SYSTEM/ADDRESSING & SENSING CCT, INCLUDING PULSER STRIPS & ATTENUAT

SMALL AMP. WHOSE AMPLIFICATION CAN BE VARIED BETWEEN +1 & -1 WITH POTENTIOMETER, USING OA. & SOM

MEASUREMENT CCT USING 4 STIMULUS & MEASUREMENT UNITS & VOLTAGE SOURCE IN HP-4145A SEMICONDU

QUARTER-STEP STEPPER-MOTOR DRIVER THAT PROVIDES 2 LEVELS OF CURRENT TO EACH WINDING, USING HI

SCAN WAVEFORM GENERATOR/HEADSTAGE CCT FOR FCV (FAST CYCLIC VOLTAMMETRY) AMP./FCV AMP. (E-C A

ANALOG CONTROLLER OF DC. SERVO MOTOR SYSTEM USING CHATTERING ALLEVIATION CONTROL (CAC), INCLU

COAXIAL LINE DRIVER/BUFFER-AMP., TRANSLATING DAC.'S CURRENT OUTPUT TO VOLTAGE

PEAK-TIME DETECTOR

TRANSMISSION LINE DRIVERS & LINE RECEIVERS, USING CONSTANT-CURRENT SOURCE WITH FAST COMPARATO

SMART, LOW-POWER DAS. THAT COMMUNICATES REMOTELY WITH HOST, USING PERIPHERAL CHIP WITH 13-BIT

LNA. STAGE PLUS COMBINER & LOW-PASS & HI-PASS FILTERS/MOVING-COIL HEAD AMP. USING LOW-NOISE AMP.

DUAL, VARIABLE PS. & FIXED 15V SUPPLIES/AUTO-POLARITY VOLTAGE MONITOR/AUTO-POLARITY, AUTO-RANGIN

RIAA PHONO PREAMP. OF FET. KIT PREAMP. FOR DYNACO PAT-4 CHASSIS/LINE & TONE CONTROL PREAMP./+- 15

PEAK DETECTOR OF DEMODULATION SYSTEM USING SAW. DELAY DEVICE, TO DISTINGUISH PEAK VALUE & OTH

ANALOG TO FREQUENCY CONVERTER OF COMPUTER INTERFACE THAT RECEIVES SIGNALS FROM UP TO 4 ANAL

SMALL, LOW-POWER VOX UNIT FOR ICOM 2AT, USING TEXAS INSTRUMENTS QUAD LV. OA., INCLUDING BUFFER V

ATARI CW. RECEIVING & TRANSMITTING INTERFACE

TRANSMITTER CCT USING OSCILLATOR CHIP PRODUCING 1V AMPLITUDE 1KHZ SQUARE WAVE TO EXCITE STRAI

PEAK PROGRAM METER (PPM) CONSISTING OF 2 OA.S CONFIGURED AS FULL WAVE RECTIFIER, & LPF. WITH FAS

CLASS-D AUDIO AMP. TO PROVIDE 200W CONTINUOUS POWER INTO 4OHM LOAD, USING MOTOROLA TMOSFET.S

DUAL LED. DRIVER USING OSCILLATOR-FLASHER/LIGHT-SOUND CCT/VARIABLE AF. OSCILLATOR/ELECTRONIC SI

ANALOG TEMPERATURE SENSOR

PHASE TRACKING 3 PHASE GENERATOR

PEAK LEVEL INDICATOR

HEART RATE MONITOR USING LIGHT FILTERING THROUGH FINGER TIP, USING CADMIUM SULPHIDE PHOTORESIS

TRANSLINEAR CURRENT CONVEYOR WITH TYPE-I CELLS IN 3 & 4, & WITH TYPE-II CELLS IN 3 & 4 (2)

ANALOG THERMOMETER (SEMICONDUCTOR TEMPERATURE SENSOR)

ANALOG CCT TO CALCULATE CUMULATIVE SUMS FOR PSTH'S (PERI-STIMULUS TIME HISTOGRAMS) & CONTROL I

TRANSMITTER OF WIDEBAND IR. TELEMETRY SYSTEM, USING 7 LED.S/RECEIVER USING RCA APD.-PREAMP. DET

PEAK-DETECT-&HOLD (PDH) CCT TO MEASURE PULSE-TO-PULSE AMPLITUDE OF COMPLEX BIOELECTRIC SIGNA

HEAVY-DUTY PS. USING 2 HEFTY 150W PASS TRANSISTORS & VOLTAGE REGULATOR IC, THAT DELIVERS 13.8VDC

SMALL ANALOGUE COMPUTER USING 7 OA.S AS COMPUTING ELEMENTS, FOR EXPERIMENTAL APPROACH TO ST

STABLE DIFFERENTIATOR THAT IS NOT RESTRICTED TO LF.S, WITH SNR. INVERSELY PROPORTIONAL TO CUBIC I

HEART RATE TACHOMETER INCLUDING FREQUENCY TO VOLTAGE CONVERTER, CALIBRATOR SOURCE, COMPAR

TRAIN THROTTLE CONTROL/BCB (BC. BAND) BOOSTERS (2)/CAPACITANCE BRIDGE TESTER/COFFEE DE-BURNER

BOAK REGULATORS MOD. FOR USE IN DYNACO ST-150 AMP., WITH 55V DC. OUTPUT WITH MAXIMUM DRAW OF ~5

DUAL VOLTAGE BENCH PS. USING 3-TERMINAL REGULATOR IC'S, PROVIDING FIXED 5V OUTPUT & VARIABLE VOL
FRAME GRABBER (PC. STUDIO 64) (MONOCHROME VIDEO IMAGING SYSTEM FOR VGA & MCGA PC.-GRAPHICS SY
TRANSISTOR CURRENT NOISE TESTER (TEST CCT) USING OA.
DUAL DIODE PREAMP. USING 2 PIN PHOTODIODES IN PARALLEL FED TO INPUT OF OA., TO DETECT COHERENT L
STATION TR. CONTROLLER INCLUDING SIDETONE GENERATOR, AUDIO AMP., DELAY SWITCHING & KEYING (DELA
ANALOG PROCESSING ELECTRONICS OF TRANSIENT GAMMA-RAY SPECTROMETER (TGRS), INCLUDING GERMAN
CHARGER THAT RELIES ON 50% DUTY CYCLE SQUARE WAVE TO RECHARGE 4 R6 (AA) SIZE DRY CELLS (BATTER
DUAL DSP. SYSTEM WITH DUAL-PORT COMMON MEMORY (SRAM.) (BBB)/CCT SHOWING CONNECTION OF ANALOG
PLANT WARMER THAT SENSES TEMPERATURE IN COLDFRAME & CONTROLS 2 HEATING ELEMENTS INDEPENDEN
ANALOG SIGNAL SOURCE WITH TIMED VOLTAGE SEQUENCE OUTPUT, USING 2 COUNTER IC'S (SOME OF WHOSE
ANALOG COMPUTER THAT CALCULATES PROBABLE BLOOD ALCOHOL LEVEL
D-A & A-D INTERFACE BETWEEN SWTPC MP-68 MICROCOMPUTER & BOONTON 72BD DIGITAL CAPACITANCE MET
CHARGE SENSITIVE DEVICE TO MEASURE VOLTAGES IN KV REGION, USING CHARGE TRANSFER BETWEEN 2 CO
CHARGE-TO-TIME CONVERTER (CTC) TO CONVERT PHOTOMULTIPLIER (PM) OUTPUT TO SIGNAL WHOSE LENGTH
PHASE-FREQUENCY DETECTOR THAT REPLACES PHASE DETECTOR & AMP. BOARD IN MICROWAVE SYSTEMS PL
BOARD TO PROVIDE VIDEO INPUT & OUTPUT CONNECTIONS, & PICTURE PROCESSING/ANALOG EFFECTS BOARD
LEAD-ACID BATTERY CHARGER/FUZZ BOX/LIGHT DETECTOR/LIGHT DIMMER/BATTERY MONITOR/LIGHT-SENSITIV
TRANSMITTER OF OPTICAL LINK, CONSISTING OF MIDI.-IN-INTERFACE & E-O (ELECTRICAL-TO-OPTICAL CONVERT
GRADIENT PROTECTION SYSTEM TO DISCONNECT SUPPLY IN EVENT OF EXCESSIVE GRADIENT DURATION/400W
HEAT-SENSING CCT USING NPN TRANSISTOR, TO TRACK DOWN HEATING & COOLING LOSSES AROUND WINDOW
ANALOGUE INPUT CCT INCLUDING DIFFERENTIAL INPUT, PRE-EMPHASIS, PRE-AMP. & POWER AMP. STAGES/8-BI
TRAP HEATER CONTROL & POWER CCT, TO HEAT COLD TRAP FROM TRANSFORMER USING 1 OR MORE CYCLES
STATE-VARIABLE FILTERS USING OA.S, WITH BANDPASS, HIGHPASS & LOWPASS OUTPUTS, SIMULATING NATION
2MA CONSTANT CURRENT FEED FOR EXCITATION OF PIEZORESISTIVE PRESSURE SENSOR (TRANSDUCER) BRID
ANALOG DIVIDER, SIGNAL MONITORING & REJECTION, VISUAL DISPLAY, & FINAL AVERAGING CCT/PEAK DETECTO
CHARGER-REGULATOR FOR 2M HANDIE-TALKIE (HT)/SAME WITH CHARGE-INDICATOR CCT ADDED/DELUXE MOBIL
STAND-ALONE AF. DAC. FEATURING 20-BIT DAC.S & X8 OVERSAMPLING TO TRANSLATE DIGITAL OUTPUT OF CD.
TRANSFORMER BOOSTER/STRAIN GAUGE AMP./APPLE MICROCOMPUTER A-D BOARD USING ADC./APPLE DAC./S
TRANSMIT, RECEIVE, MUX.ING & AUDIO-VISUAL INDICATOR CCTS/COUNTER, DAC., SH., FILTER & DIGITAL READO
ANALOG SECTION OF 16-CHANNEL ULTRA-HIGH RESOLUTION TDC. WITH BETTER THAN 15PS RESOLUTION & VEF
TRANSDUCER-PUMP COUPLING CCT USING DIFFERENTIAL PRESSURE TRANSDUCER WHOSE OUTPUT PASSES T
PHASE-ACCUMULATOR CCT OF DIRECT DIGITAL SYNTHESIZER (DDS) TO GENERATE LOW-DISTORTION SINE WAV
ANALOG INTERFACE BETWEEN SAMPLING OSCILLOSCOPE & MINICOMPUTER (2)/AUXILIARY TRIGGER CCT USING
REAL-TIME CONTROLLER USING 4-BIT SINGLE-CHIP MICROCOMPUTER PREPROGRAMMED FOR TIMED AUTOMAT
DUAL FREQUENCY AUDIO DEMODULATOR & AMP. (2)/AFC.-METERING BOARD GIVING AFC. CONTROL FOR MIXER
TRAIN & SLOT CAR CONTROLLER USING OSCILLATOR-TIME CONFIGURED AS ASTABLE MULTIVIBRATOR, DUAL CO
DUAL PS.S WITH FIXED AND-OR VARIABLE (ADJUSTABLE) POSITIVE AND-OR NEGATIVE SOURCES, USING 3-TERM
CHANNEL MULTIPLYING CCT TO CONVERT SINGLE-TRACE OSCILLOSCOPE INTO 4-TRACE UNIT, USING TONE DEC
TRANSMITTER OF STETHOSCOPE, INCLUDING 2.25MHZ RF. OSCILLATOR/RECEIVER USING 2 AMP. STAGES WITH
SMARTER GAS (FUEL) GAUGE USING OA. (CONFIGURED AS COMPARATOR) WHOSE OUTPUT TOGGLES HIGH WHE
CHARGING POD FOR RONAR (REMOTELY ORIENTED NUMERICALLY ACTUATED ROBOT), USING VOLTAGE REGUL
ANALOG PREAMP. TO AMPLIFY PHOTODETECTOR CURRENT, USING FET.-INPUT PRECISION OA./STEP ATTENUAT
ANALOG SECTION OF WEATHER-FORECASTING INSTRUMENT THAT ACCURATELY DETECTS SMALL CHANGES IN
DUAL CHOPPER AMP. USING QUAD BILATERAL SWITCH & OA./RC. TIMER USING 0.1F CAPACITOR & OA./30MIN VIR
ANALOGUE READOUT ELECTRONICS CONSISTING OF PREAMP., SHAPER & AMP./DIGITAL READOUT ELECTRONIC
STAND-ALONE FSK. MODEM SUITABLE FOR ANY MICROCOMPUTER WITH RS232-COMPATIBLE SERIAL PORT, USIN
ANALOGUE-TO-TTL. PULSE CONVERTER-DISCRIMINATOR/BOTTLE DOWN SENSOR, INTERFACE
DUAL-SET-POINT METER IMPLEMENTATION
TRANSDUCER-TO-RECORDER INTERFACE

ANALOG RECIPROCAL-COMPUTING CCT USING SUPER-MATCHED DUAL TRANSISTORS, OPERATING AS LOG-ANT
2-AMP. GIC- (GENERALISED IMMITANCE CONVERTOR) A 2ND-ORDER ALLPASS BIQUAD/GIC-B-SR CCT/PMG ALLPA
SPARK GENERATION CCT WITH PICKUP SIGNAL MOD. USING ADJUSTABLE VOLTAGE BRIDGE/HIGH-LOW-POWER
HEAT-CONTROLLER CCT FOR PRECISE CONTROL OF INTERNAL TEMPERATURE OF FILM-HYPERING TANK, USING
TRANSMITTER OF REMOTE-CONTROLLED FAX (FACSIMILE) SWITCH TO ALLOW ACTIVATION OF REMOTELY LOCAL
SPACE, CARRIAGE RETURN & INDEX PORT DECODING CCTS (3) (BBB)/SHIFT, PRINT & CHARACTER PORT CCTS (3)
TRANSMITTER CONSISTING OF OA. (AS MICROPHONE PREAMP.) & AUDIO AMP./RECEIVER TO CONVERT LIGHT SH
PEAK DETECT & HOLD (PDH) CCT/ADC.-RS-232C LISTENER-TALKER CCT INCLUDING UART., RS-232C LINE DRIVER
SMALL 2-TONE OSCILLATOR THAT GENERATES SINE WAVES WITH <0.1% THD., FOR TRANSMITTER TESTS LIKE C
TRANSFORMER SECTION OF 13.8V 25A PS./VOLTAGE REGULATOR/PASS TRANSISTOR SECTION/OVERVOLTAGE F
TRANSISTOR BASE DRIVE CCT WITH AUTO PROTECTION & AUTO REGULATION, TO DRIVE TRANSISTORS IN PWM.
TRACE DOUBLER FOR CRO., USING QUAD 2-INPUT NAND GATE & DUAL OA. USED AS GATED AMP.S, INCLUDING S
DUAL-POLARITY 1A DC. PS. USING ONLY 1 BRIDGE RECTIFIER/BENCH-TOP PS. THAT OUTPUTS +12, -12 & +5VDC.
EVALUATION MODULE FOR A DIGITAL SIGNAL PROCESSOR (DSP.)
ANALOG PROCESSING CCT/ADC./DAC.
CHARGE SENSITIVE PREAMP. FOR PROPORTIONAL COUNTERS OF MUON DETECTORS, WITH DYNAMIC RANGE O
ANALOGUE BOARD INCLUDING EYE MOVEMENT DETECTOR USING PHOTOTRANSISTORS, 40HZ 4TH DEGREE BUT
SMALL 5A PS. FOR LOW-POWER OPERATOR, USING TO-220 CASE ADJUSTABLE VOLTAGE REGULATOR, TRANSFC
ANALOG PULSE-HEIGHT STORE INCLUDING INPUT BUFFER, BASE LINE RESTORER, STRETCHER, GATE, PEAK DE
TRANSMITTER FOR REMOTE SPEAKER DISTRIBUTION-CONTROL UNIT USING POWER LINES AS LINK/RECEIVER F
2 ADJUSTABLE VOLTAGE MODULES/FIXED VOLTAGE MODULE
TRACE GENERATOR TO PROVIDE ANALOGUE INDICATION SIMULTANEOUSLY WITH TEXT ON VDU. USED WITH PC
VCA./AM. (2-QUADRANT MULTIPLIER)/RING MODULATOR (4-QUADRANT MULTIPLIER)/VOLTAGE-CONTROLLED FILT
CHARGE PUMP CONSISTING OF TEMPERATURE COMPENSATED CONSTANT CURRENT SOURCE ADJUSTABLE TO
CHARGE-CONTROL CCT USING 10 OPTOISOLATORS CONTROLLED BY DOT-BAR-GRAPH CHIP, TO PROPORTION B
CRANKING AMP ESTIMATOR (CRAE) (SIMPLE METER TO GIVE ESTIMATE AUTOMOBILE (CAR) BATTERY'S POWER (I
ANALOGUE SH. CCT USING 'IN 0,4' INSTRUCTION TO 'TRACK' INPUT SIGNAL/ADC. CCT UNDER UP. CONTROL (BBB)
TRANSISTOR TESTER CONSISTING OF LF. OSCILLATOR (1HZ ASTABLE), & FLASHING 10 LED. BARGRAPH TO INDIC
SLAC ECL. DIFFERENTIAL TRANSCEIVER INCLUDING DRIVER & RECEIVER/DUAL-WIDTH CLOCK GENERATOR TO A
SRAM. & SUPPORT CCT FOR FIRMWARE DEVELOPMENT CARD/CCT USING UP. SUPERVISORY CCT THAT MONITO
LEAK DETECTOR CCT THAT SENSES PRESENCE OF WATER & SOUNDS ALARM WHEN PROBE (SENSOR) RESISTA
PRACTICAL ACTIVE BAND-PASS FILTER/TRIANGLE-WAVE GENERATOR
STAND-ALONE SINGLE-CHIP MODEM WITH ADDITIONAL COMPONENTS TO OPTIMIZE HYBRID CCT TO COUNTERAC
PHASE-ACCURATE HORIZONTAL-DRIVE GENERATOR TO ALLOW INSERTION OF NTSC. COMPOSITE VIDEO SIGNAL
ALARM CCT USING HAMAMATSU UV. FLAME SENSOR (UVTRON) TO DETECT (SPOT) CIGARETTE LIGHTER'S UV. EM
RIAA AMP. & INPUT SELECTOR STAGE/INPUT BUFFER, BALANCE & RUMBLE FILTER/BAXANDALL TONE CONTROL S
LEADING EDGE SHAPE (LES) DISCRIMINATOR TO IMPLEMENT AMPLITUDE INDEPENDENT PULSE RISE TIME MEAS
PEAK-HOLD CCT OF INTERFACE UNIT OF SIGNAL PROCESSING SYSTEM, TO SEQUENTIALLY HOLD PEAK HEIGHTS
TRACKING AMP. USING OPTICAL SWITCH & COMPARATOR/OPTICALLY ISOLATED TRACKING AMP. USING PHOTOC
ANALOG CCT INCLUDING DC. SOURCE & DC. METER
TRANSMITTER USING 400-500W CONSUMER MICROWAVE OVEN, MAGNETRON, POWER FET. & WIDEBAND OA./NB
ANALOG-TO-PULSE-WIDTH CONVERTER THAT SENSES DC.-VOLTAGE & OUTPUTS PULSE-STRING TO SERVO-DRIV
PEAK-READING POWER METER FOR STEREOS
DUAL REGULATOR CCT INCORPORATING 3 TERMINAL POSITIVE REGULATOR & DC.+ TO DC.- CONVERTER MODUL
TRANSISTOR OSCILLATOR/SCHMITT TRIGGER FOR TTL. COMPATIBILITY/RC. OSCILLATORS USING 3 GATES (3)/VE
P.A.R. METER USING OA.S, & PERCENT TRANSMISSION MONITOR INCLUDING LOGARITHMIC MODULES, CURRENT
PHASE DETECTOR CCT TO MEASURE ANGLE BETWEEN 'DRIVE' SIGNAL TO TRANSMITTER OUTPUT STAGE, & VOL
SMALL "WALKMAN" STYLE AM. RADIO WITH ADJUSTABLE RF. GAIN, USING FERRANTI ZN414 RADIO-ON-A-CHIP
ADAPTER TO DISPLAY RF. SIGNALS ON NARROW-BW. OSCILLOSCOPE

Sheet1

PHASE-SHIFT FREQUENCY MULTIPLIER (625HZ TO 2500HZ)/HF. QUADRUPLER (7.5MHZ TO 30MHZ)
QUADRATURE DETECTOR TO TRANSFORM UNIPOLAR FREQUENCY-TO-VOLTAGE CONVERTER INTO BIPOLAR DE
CHARGE INDICATOR FOR SOLDERING IRON
SMALL BATTERY-OPERATED PORTABLE SINGLE-ENTRY ALARM (HARTLEY OSCILLATOR)
PLASMA MACHINE
ANALOG DELAY LINE THAT DIGITIZES SIGNAL WITH ADC., STORES RESULT IN 2048-WORD RAM. & CONVERTS 1 S.
HEATH HD-1420 VLF. CONVERTER/HEATH HD-1422 ANTENNA NOISE BRIDGE THAT GENERATES TONE-MODULATE
STABILIZATION CCT FOR POWER MOSFET.S (E.G. 15W VDMOSFET. OR 0.5KW HEXFET.)/SAME FOR CURRENT SEN
TRANSMITTER CONTROL CCT TO IMPLEMENT AMP. POWER SWITCHING, USING 24V DC. COAX RELAY TO SWITCH
FLASHLAMP TRIGGER CCT FOR LV. MODE, INCLUDING IGNITION COIL & SCR./FLASHLAMP TRIGGER CCT FOR HV.
TRANSISTOR AMP. USING DIFFERENCE AMP. FOLLOWED BY LEVEL SHIFTING AMP. & EMITTER FOLLOWER TO PR
CLASS E ZERO-CURRENT-SWITCHING (LOW DI-DT) RECTIFIER WITH PARALLEL INDUCTOR, CONSISTING OF DIOD
DIATHERMY SUPPRESSION FILTER CONSISTING OF 2 CASCADED LOW-PASS LC. STAGES, TO ENABLE CARDIAC C
2MA CURRENT SOURCE USING N-CHANNEL FET. WHOSE DRAIN IS CONNECTED TO OA.'S OUTPUT, TO BIAS OA. F
COAX TUNER-ANTENNA SWITCH ("COAXIAL TUNER") FOR USE WITH HF. ANTENNAS, USING TUNING CAPACITORS
LEAD-ACID CHARGER ABLE TO SENSE WHEN DISCHARGED BATTERY DRAWS LITTLE CHARGING CURRENT, KEEP
AVALANCHE STACK/TRIGGER UNIT & DELAY LINE
BRASS RACER EK-1 KEYER
TRANSISTOR TESTER INCORPORATING N.P.N.-P.N.P. SWITCHING, INCLUDING BRIDGE RECTIFIER TO ELIMINATE S
CHARGE-SENSITIVE PREAMP. WHOSE INPUT CCT INCLUDES LOW-NOISE FET./PREAMP. FOR USE WITH DETECTO
FLASHMATE CCT, SHOWING CORRECTIONS (HAEL8711)
LNA./SYNCHRONOUS DEMODULATION CCT USING RF. MIXER/DIFFERENTIAL AMP. (IA.) & SALLEN-KEY 2ND-ORDE
BIAS BOX CONSISTING OF POTENTIOMETER, 9V BATTERY & CURRENT STEERING DIODE, WHOSE VOLTAGE OUTP
TRANSISTORIZED (TTL.) CCT INCLUDING AT-CUT CRYSTAL, FOR USE IN MEASUREMENT OF OSCILLATING FREQU
SHAPER AMP. CCT USING HYBRID SMT., CONTAINING 6 TRANSISTORS, INCLUDING COMMON BASE INPUT STAGE
ANALOGUE INTERFACE CCT (SMALL IO. BOARD) THAT OPERATES AS DAC. TO GENERATE ANALOGUE VOLTAGES
TRANSMITTER TO EMIT AUDIOENCODED RF. SIGNAL PROPORTIONAL TO TEMPERATURE, INCLUDING TEMPERAT
SHAPE-MEMORY-WIRE INTERFACE TO 8052 MICROCONTROLLER IO. PORT, USING OPTOISOLATOR
DIAL-PULSE ANNUNCIATOR-RINGER (CCT THAT WILL "CHIRP" WITH EACH OUTGOING DIGIT)
TRANSISTORIZED MOISTURE SENSING CCTS (2)/2-TRANSISTOR METRONOME/FET. TIMER CCT/POWER MOSFET. T
TRANSISTOR DRIVER CCT TO SUPPLY 40MA DRIVE CURRENT TO EACH MCL SRA-1H DBM.
TRANSISTOR FREQUENCY TRIPLER INCLUDING PARALLEL COIL & CAPACITOR CHOSEN TO RESONATE AT 3RD HA
ANALYZING LIGHT SIGNAL SUBTRACTION DEVICE (EAS)
SMALL LOGIC BOX
SMALL CCT TO PRODUCE AUDIBLE SIGNAL AFTER IT HAS BEEN EXPOSED TO LIGHT FOR MORE THAN A FEW SEC
FLASH METER USING INSULATED-GATE FET. (IGFET.) & SILICON PHOTO CELL, TO ENABLE ONE TO KNOW WHAT P
ADAPTER TO USE KENWOOF VFO-520 EXTERNAL VFO. WITH YAESU FT-707 TRANSCEIVER
QUARTZ-CRYSTAL BIOSENSOR ASSEMBLY INCLUDING OSCILLAOR USING 10MHZ AT-CUT QUARTZ HOUSED IN FA
PHANTOM CCT USING IA.S, TO TRANSMIT 3RD DIFFERENTIAL SIGNAL AS VOLTAGE DIFFERENCE BETWEEN PAIR
GAASFET. PREAMP. SWITCHING CCT
BIAS REGULATOR TO BIAS UHF. AMP. USING 2C39-7289 CLASS OF TRIODES (TUBES) IN GROUNDED-GRID OPERA
STABLE HF. CRYSTAL OSCILLATORS FOR RECEIVER LO. DESIGN (7)/70MHZ PIERCE FUNDAMENTAL OSCILLATOR/
AVALANCHE TRANSISTOR CHAIN THAT PRODUCES FAST RISE TRIGGER PULSE TO KRYTRON SWITCH
TRANSISTORIZED AUDIO AMP.
LEAD-LAG INDICATION CCT USING 1 S-R FF., WITH CURRENT SIGNAL TO SET FF., & RESET CONTROLLED BY INVE
STABLE LOW-NOISE 3-STAGE 27MHZ RF. PREAMP. USING TEXAS INSTRUMENTS DUAL GATE MOSFET.S, WITH 50C
ADAPTER THAT TURNS DVM. INTO DIGITAL FIELD STRENGTH METER
CLASS E TUNED RF. POWER OSCILLATOR INCLUDING STAGGER TUNED INDUCTIVE LINK, INCLUDING SERIES TUN
STATE-OF-THE-ART BATTERY CHARGE MONITOR TO PREVENT EARLY FAILURE OF NICD. BATTERIES

CLASS A AMP./PS.

TRANSFORMERLESS DC.-TO-DC. VOLTAGE DOUBLER

TRANSISTOR SWITCH TO ADD QSK (FULL-BREAK-IN) COMPATIBILITY TO DRAKE TR-7 TRANSCEIVER, THAT CLOSE PRACTICAL 5MHZ VFO./CRYSTAL-CONTROLLED LO. FOR SSB. TRANSMITTER

SMALL CRYSTAL-CONTROLLED TRANSMITTER THAT PROVIDES 1.25W AT 12V, CONSISTING OF OSCILLATOR, DRIVER TRACKING TRANSMITTER CONSISTING OF FREE-RUNNING MULTIVIBRATOR, TRANSMIT SWITCH, AUDIO-TONE GENERATOR TRACK-HOLD & DITHER GENERATOR, USING MOSFET. SWITCH & DAC, FOR IMPLEMENTING ADC. WITH 20 BITS OF PLASMA-GLOBE HV. HF. PS. CONSISTING OF BLOCKING OSCILLATOR, USING MOD. BLACK-&WHITE TV. FLYBACK ADAPTER CCT USING 4 2716 EPROM.S TO EMULATE MOSTEK MK36000 8KX8 ROM. (BBB)

TRANSIENT LINE-VOLTAGE SENSOR PROVIDING INDICATION OF SURGES EXCEEDING 400 V, USING NEON LAMP STABLE TUNEABLE 2-10MHZ LC. OSCILLATOR WITH LOW HARMONIC OUTPUT

READOUT CARD INCLUDING AMP., FOR HODOSCOPE CHAMBERS/READOUT CARD FOR HEXAGONAL CHAMBERS BOARD THAT IMPLEMENTS FULL LEVEL 1 FASTEXT SYSTEM, FAVOURITE PAGES & SPANISH, TO DEMONSTRATE FIRE ALARM CONTROL PANEL WITH ENTRY-EXIT DELAY SUITABLE FOR RESIDENTIAL USE

TRANSISTORIZED DIP-OSCILLATOR CCT USING 6 COILS TO PROVIDE COVERAGE FROM 3 TO 190MHZ, WITH LOW CHASE LIGHT CCT FOR USE IN MODEL RAILROADING/SIGNALING CCT/DETECTOR USING MAGNETIC REED SWITCH

TRANSMITTER USING PLESSEY 8-BIT SERIAL OUTPUT ADC. THAT CONVERTS ANALOGUE INPUT TO DIGITAL WORDS ANALOGUE TRANSDUCERS FOR POINTER POSITION ON TABLET SURFACE (2)/DYNAMIC ADC. INTERFACE TO READOUT PEAK READING LED. RF. WATTMETER

TRANSVERTER CONSISTING OF 2 MIXERS & LO., BUFFER & RF. AMP. & DRIVER & PA (BBB)

PEAK-READING LED. RF. WATTMETER USING L12 LED.S DRIVEN BY SMALL-SIGNAL NPN TRANSISTORS, USING SMALL BRIDGE BASED ON RESISTIVE BRIDGE NETWORKS, THAT ATTENUATES TRANSMITTED SIGNAL WHEN TUNING

AVALANCHE TRANSISTOR CCT TO RAPIDLY DISCHARGE CAPACITOR THROUGH PULSE TRANSFORMER/HV. TRANSMITTER TRANSISTOR SWITCH OF CCT TO MINIMIZE DAMAGE CAUSED BY ARCS BETWEEN COMPONENTS OF ION SOURCE

QUASI-COMPLEMENTARY TRANSISTOR POWER AMP.S (3)/30W AMP. WITH COMPLEMENTARY OUTPUT STAGE/10V STABLE, EASY TO BUILD, COMPACT SEILER OSCILLATOR (VFO.), TUNABLE FROM FROM 7.0 TO 7.3MHZ, USING FEEDBACK

TRANSMITTER CONSISTING OF CRYSTAL OSCILLATOR & C CLASS AMP., TO TRACK WILD ANIMALS/MODULATOR TO TRACK CLASS A LINEAR VFO. AMP. ABLE TO PRODUCE 1W OF OUTPUT WITH 75MW DRIVING POWER/GROUNDED-GRID VFO. WITH SMALL VSWR. INDICATOR FOR QRP (LOW-POWER) OPERATION

CHARGE-BALANCING CAPACITIVE VOLTAGE DIVIDER (DIFFERENTIAL AMP.) THAT ISOLATES TINY DIFFERENTIAL VOLTAGE ALARM CCT/CCT MOD.S NECESSARY IF RELAY DRAWS >100MA

PRACTICAL THRESHOLD GATE

BIASED DIODE CLIPPER FOR AUDIO CCTS

CHARGE (LOW NOISE HEAD) AMP., BIPOLAR SHAPING AMP., & VOLTAGE TO TIME CONVERTER (VTC) THAT WORKS WITH TRANSMITTER OF USER INTERACTIVE DATA TRANSMISSION TRAINING SYSTEM/RECEIVER/RECEIVER, SHOWING HEAD-AMP. TESTER THAT USES GOOD RF. ENVELOPE FROM WORKING VCR. TO TEST (TROUBLESHOOT) VCR. WITH

AVALANCHE CCT (PULSE GENERATOR) TO PROVIDE HV. AMPLIFICATION & GATING PULSE, TRIGGERED BY TTL. PULSE AVALANCHE TRANSISTOR MARX BANK GENERATOR USING 3 TRANSISTORS CONNECTED IN SERIES IN EACH STAGE

COAXIAL SWITCHER ACCEPTING UP TO 4 RIGS SWITCHABLE TO CHOICE OF 2 ANTENNAS, WITH ALARM TO WARN OF SWR. TRANSMITTER VXO/MOD. RF. PREAMP.

CHARGER-REGULATOR USING OPTOCOUPLER

STATISTICALLY OPTIMISED QRS DETECTOR INCLUDING NOISE PEAK-DETECTOR, MULTIPLIER-DIVIDER, QRS PEAK DETECTOR FLASHLAMP PREPULSE & MAIN PULSE FORMING NETWORK, TO DRIVE FLASHLAMP, USING IGNITRON/FLASHLAMP

ADAPTIVE PAUSE DETECTOR THAT DISTINGUISHES BETWEEN SIGNAL & PAUSE STATES IN SPEECH SIGNAL COMPARISON TRANSMISSION LINE SAMPLER TO SAMPLE RF. FIELD FLOWING IN TRANSMISSION LINE, INCLUDING DEMODULATOR

CHARGE PREAMP./BURST PROCESSOR/GATED INTEGRATOR, ANALOGUE GATE & SHAPING AMP.

ADAPTER FOR DVM.-FREQUENCY COUNTER TO MEASURE CAPACITANCE & RESISTANCE VALUES

TRANSMITTER FOR INFORMATION IN NRZ. PULSED FORM/RECEIVER CONSISTING OF DETECTOR BASED ON DAC. STANDARD AMP. USED WITH DRIFT CHAMBERS/CCT TO PROVIDE ADDITIONAL GAIN OF 12DB, TO INCREASE SENSITIVITY

SHAPER AMP. OF FRONT END ELECTRONICS FOR EOS (EQUATION OF STATE) TPC., TO PRODUCE SEMI-GAUSSIAN TRANSMITTER INTERFACE
DUAL PS. ADJUSTABLE TO 0V WITHOUT LOSS OF REGULATION & CURRENT-OVERLOAD PROTECTION
SHARED-CHANNEL CODEC CONSISTING OF ENCODER ANALOG CCT, TIMING NETWORK (INCLUDING CRYSTAL OSCILLATOR)
CHARGE-DISCHARGE CCT CONSISTING OF BANK OF 30 ELECTROLYTIC CAPACITORS CHARGED BY 500W CURRENT SOURCE
CCAT (CCT CELLAR AT) COMPUTER (IBM PC. AT 100% COMPATIBLE CLONE ON 1 BOARD) THAT RUNS ON 8 OR 10 MHz
GAAS. OA. SHOWN IN BASIC INVERTER CONFIGURATION
PLASMA PROBE FOR MEASURING EXTREMELY SMALL CURRENTS
PHASE STABLE AGC. CCT USING ANALOG MULTIPLIER CCT TO PERFORM GAIN CHANGES
PHASE-LOCKED 2M FM. TRANSMITTER
HEART-A-MATIC HEART RATE MONITOR TO KEEP TRACK OF HEALTH & FITNESS, & GIVE DIGITAL READOUT IN BEAT PER MINUTE
STABLE CCT TO PRODUCE OPTICAL (LIGHT) PULSES, USING GAALAS SINGLE HETEROSTRUCTURE LASER DIODE
READING CCT TO MEASURE CURRENT, CONSISTING OF CURRENT-VOLTAGE CONVERTER & LPF. WITH 68KHZ CRYSTAL
TRANSCONDUCTANCE MULTIPLIER CORRELATOR WITH BW. >1GHZ USING BALUN FOR BALANCED DRIVE TO REDUCE COMMON-MODE NOISE
CHARGE SENSITIVE PREAMP.S (CSPA'S) WITH POSITIVE & NEGATIVE OUTPUT (2)/SHAPING AMP. (SA) & DISCRIMINATOR
TRANSCEIVER/FRONT END OF FT-980/455KHZ IF. Q MULTIPLIER/POWER AMP.
CLAMPING FEEDBACK (LIMITER) CCT CONSISTING OF INPUT BUFFER, OUTPUT-SCALING AMP. & ZENER DIODES TO CLAMP
ANALOG SECTION OF PRECISION PULSE GENERATOR, USING BUFFER AMP.S WITH FET. INPUT, ECL. FF., 16-BIT DIGITAL
FRANKLIN OSCILLATOR USING FET.S/EXTERNAL VFO. FOR YAESU FT-102, USING FRANKLIN OSCILLATOR, INCLUDING
FLASHLAMP CCT SHOWING EG&G FLASHLAMP & SPARKGAP, 3MOHM RESISTOR CHAIN, 0.1UF LOW-INDUCTANCE CAPACITOR
PEAK DETECTOR EMPLOYING POSITIVE FEEDBACK TO CONTROL (REDUCE) OVERSHOOT, USING OA.S & DIODES TO CLAMP
DUAL-INPUT-PORT DIFFERENTIAL CURRENT-CONVERTER WITH DUAL OMA IN FEEDBACK LOOP (BBB)
FLASH TRIGGER CCT INCLUDING PULSE GENERATOR, SPARK GENERATOR & FLASH LAMP/POLARIZATION CCT (FOR
PLANAR-ARCHITECTURE PROCESSOR USING RASTER GRAPHICS PROCESSOR, WITH 8 BIT-BLOCK-TURN-OFF TRANSFER PER
AVALANCHE TRANSISTOR PULSE GENERATOR/AVALANCHE SQUARE PULSE GENERATOR/HV. PULSE GENERATOR
GRAPHICS ADAPTER FOR APPLE II, INCLUDING NEC GDC (GRAPHICS DISPLAY CONTROLLER), DRAM., TIMING GENERATOR
SLAVE FLASH TRIGGER CCT USING PHOTOTRANSISTOR, SCR. & 3 RESISTORS, TO TRIGGER 2ND SLAVE FLASH GENERATOR
HEAT-LIGHT CONTROLLER (SWITCHING UNIT) DESIGNED FOR PORCH LIGHTS OR THERMOSTATIC CONTROL, USING
ANALOG PART OF TAC. EQUIPPED WITH CFD.S/DIGITAL PART OF TAC.
PHASE DEMODULATOR TO TAKE 2 70MHZ SIGNAL INPUTS & PROVIDE 2 2.5VPP OUTPUTS PROPORTIONAL TO SINUSOIDAL
STABLE PHOTOMULTIPLIER PS. INCLUDING UNREGULATED HV. SUPPLY, COLPITTS-TYPE OSCILLATOR, REVERSE-BIASED
ANALOG CCT TO MIMIC NONLINEAR OSCILLATOR, INCLUDING LINEAR & NONLINEAR BLOCKS (BBB)/OSCILLATOR
ANALOGUE INPUT CCT OF BBC COMPUTER, SHOWING ADC./MOD. ANALOGUE INPUT CCT INCLUDING PRECISION
VIA. CCT TO PERMIT INTELLIGENT DISPLAY CONTROLLER TO BE USED WITH STD BUS
MEASUREMENT & CONTROL CCT/CONSTANT CURRENT SUPPLY
TRANSRESISTIVE AMP. USED IN MEASUREMENTS OF ELECTRON DEVICE CURRENT NOISE, USING OA. THAT HAS
SLAVE OPERATION INTERFACE TO UP./LOCAL DMA. INTERFACE/REMOTE DMA. INTERFACE/(BBB)
GAAS. DECODER USING GAAS. GATE ARRAY, THAT PERFORMS HIGH-SPEED PROCESSING/POWER STROBE TO SOURCE
TRANSDUCER DRIVE CCT/ULTRASOUND RECEIVING CCT INCLUDING RECEIVING TRANSDUCER, PREAMP., & 2ND
CLASS E RESONANT DC.-DC. POWER CONVERTER COMPOSED OF CLASS E ZERO-VOLTAGE-SWITCHING INVERTER
GAASFET. 400-512MHZ PREAMP. USING LOW-COST DUAL-GATE DEVICE FOR UHF. APPLICATIONS
CLASS-E 500KHZ 21W ELECTRONIC LAMP BALLAST (POWER INVERTER) FOR 220V, WITH GALVANICAL ISOLATION
PHASE-CONTROL CCT THAT ALLOWS YOU TO MANUALLY ADJUST POWER DELIVERED TO LOAD, FOR DC.-CONTROLLED
SCANVERTER CVR-1 BROADBAND FREQUENCY CONVERTER THAT IS 175MHZ WIDE, FEATURING "BANDSTACKING"
TRANSFORMERLESS CLASS-E RESONANT DC.-DC. POWER CONVERTER WITH CAPACITIVE IMPEDANCE CONVERTER
CLASS E^2 DC.-DC. CONVERTER CONSISTING OF CLASS E ZERO-VOLTAGE-SWITCHING INVERTER & CLASS E RECTIFIER
CLASS-E AMP. WITH INDUCTIVE IMPEDANCE INVERTER, CONSISTING OF BIDIRECTIONAL SWITCH USING MOSFET
CLASS-E^2 RESONANT DC.-DC. CONVERTER COMPOSED OF DC.-AC. INVERTER & RECTIFIER, USING MOSFET. AS
CLASS D HALF-WAVE (TRANSFORMERLESS) (CURRENT-DRIVEN) RECTIFIER CONSISTING OF 2 SCHOTTKY DIODES

CLASS E CONTROLLABLE SYNCHRONOUS RECTIFIER WHOSE SWITCH CONSISTS OF MOSFET. & ANTIPARALLEL D
QUASI-COMPLEMENTARY CLASS-D HF. POWER AMP. (PA) THAT DIRECTLY CONNECTS PAIR OF N-CHANNEL MOSF
DUAL-CHANNEL FUNCTION GENERATOR USING 2 EXAR MONOLITHIC FUNCTION GENERATOR CHIPS CONTAINING
STATE VARIABLE FILTER
PHASE DETECTOR COMPRISING MULTIPLIER & VOLTAGE CONTROLLED LPF.
TRANSMITTING & SIGNAL DETECTION CCTS FOR SEARCH COIL SYSTEM, BASED ON PHASE DETECTION PRINCIP
CHARGE-SENSITIVE PREAMP. WITH INPUT STAGE USING HIGH SPEED, LOW NOISE FET./MAIN AMP./TIMING FILTER
TRANSDUCER-DRIVER CCT OF PIEZOELECTRIC DROPLET GENERATOR/FREQUENCY-DIVIDER CCT/DROPLET-CHA
CLASS E CONVERTOR (AMP.) INCLUDING POWER MOSFET., MATCHING TRANSFORMER & LOAD/GATE DRIVE CCT
CLASS-C RF. AMP./CLASS-AB LINEAR AMP./10W BROADBAND LINEAR AMP.
TRANSMITTER SECTION OF LCM100 LINE-CARRIER MODEM/FSK. MODULATOR (BBB)/RECEIVER SECTION/FSK. DE
CLASS C GROUNDED-BASE AMP. USING BIPOLAR TRANSISTOR, TO PROVIDE $\geq 5W$ OUTPUT POWER AT 2GHZ, INC
ANALOG CORRELATOR INCLUDING 2 PREAMP.-CUM-BUFFER UNITS, DELAY UNIT, 2 AMP.S OF GAIN 15, MULTIPLIE
PHASE-LOCK LOOP (PLL.)/RF. PREAMP./5HZ PREAMP./5HZ INTEGRATE & DUMP SERVOSYSTEM/SEQUENSOR
ANALOGUE ELECTRONICS CHAIN INCLUDING CURRENT SENSITIVE AMP. (ON PREAMP. CARD) & SPLITTER SHAPE
TRANSISTORIZED RF. POWER AMP. USING MOTOROLA POWER MOSFET.S WORKING IN PUSH-PULL CONFIGURAT
CLASS-E CCT HAVING 3 DIFFERENT LOAD NETWORKS THAT ARE SWITCHED IN OR OUT UNDER COMPUTER CONT
TRANSMITTER CONVERTER PART OF RTTY. CONVERTER, USING FUNCTION GENERATOR, & PTT. INTERFACE (3)/
CLASS A AMP. USING POWER MOSFET./RELAY CONTROLLER/PROXIMITY SWITCH/LAMP FLASHER/AUDIO VFO./CA
DRAM. REFRESH CYCLE INTERFACE CCT USABLE WITH IMS2600 OR Z80 UP. (BBB)
BOARD USING 32-BIT CPU., TIMING CONTROLLER, MEMORY MANAGER & FLOATING POINT UNIT (BBB)
TRANSMITTER THAT PUTS OUT FROM 250 TO 500MW ON 40M, INCLUDING CRYSTAL OSCILLATOR & AMP., BUILT IN
CLASS A POWER AMP. PROVIDING 25W INTO 80HM, 12.5W INTO 40HM & $>6W$ INTO 20HM, INCLUDING CURRENT M
CGA-TO-SCART ADAPTOR THAT DERIVES COMPOSITE SYNC SIGNAL & BLANKING SIGNAL FOR TV. FROM HORIZO
STATIC INVERTER COMPOSED OF DC. PS., THYRISTOR SWITCHING UNIT WITH FIRING CCT, & OUTPUT CCT/THYR
BOARD TO REPLACE 4 LSB.S OF 1 ANALOG CHANNEL WITH 4 1-BIT DIGITAL CHANNELS, FOR SONY PCM-701ES
TRANSDUCTION STAGE OF ROTAMETER, INCLUDING TIMER CONTROL UNIT/ANTICLOCKWISE COUNTER CCT/PS.,
PHASE ADJUST CCT USING MONOSTABLE MULTIVIBRATOR/HV. SQUARE-WAVE PULSE (LOGIC) GENERATOR WITH
CHARGE-SENSITIVE PREAMP. CONSISTING OF HYBRID IC INCLUDING POSITIVE FEEDBACK TO 1ST FET., CR PHAS
TRANSFORMERLESS SWITCHING PS. CCT OF TEKNIKA ATV-M19 VIDEO (COLOR TV.) MONITOR, WITH SWITCHING
CHARGE-SENSITIVE PREAMP. CONSISTING OF DOMINANT POLE AMP., BASED ON SONY SINGLE-GATE GAAS. MES
TRANSISTOR DESTRUCT TEST CCT USING STATIC ELECTRICITY SIMULATOR THAT IMPRESSES 0-30KV TO CAPAC
PLAYBACK-ONLY CCT USING ISD VOICE CHIP/CCT THAT ALLOWS RECORDING OF NEW MESSAGES INTO VOICE C
MEASURING CCT USED IN CONJUNCTION WITH BIASED FIELD-FILTER SECTION OF COMPOSITE PROBE, INCLUDIN
PHASE SHIFTER FOR USE WITH ELECTRIC GUITARS OR LINE-LEVEL INSTRUMENTS, WITH CLEAN SOUND, & EVEN
MEASURING CCT OF ISFET (ION-SELECTIVE FET.) OR CW-ISFET (COATED-WIRE-ISFET) ELECTRODE, INCLUDING V
CHARGE-SENSITIVE PREAMP. USING 6 FET.S IN PARALLEL AT INPUT STAGE TO OBTAIN HIGH GM, WITH RISE TIM
STANDARD PROXIMITY DETECTOR CCT TO DETECT ISOLATED SWITCH CLOSURE, USING A FEW ADDED TURNS C
CHARGE-SENSITIVE PREAMP. OF SCINTILLATION READOUT, TO WHICH HAMAMATSU PHOTODIODE IS COUPLED,
REALIZATION OF SIMPLE UNCOUPLED CCT WITH CHAOTIC ATTRACTORS, CONTAINING NONLINEAR RESISTOR RE
CLASS E RESONANT DC.-DC. CONVERTER USING TRANSFORMER-COUPLED FULL-WAVE RECTIFIER, USING MOSF
CHARGE SENSITIVE AMP. CCT WITH FEEDBACK CAPACITOR, TO OBSERVE ANODE & CATHODE SIGNALS IN PROP
FLASH ADC. (FADC) REFERENCE CCT INCLUDING 8-BIT FADC WITH ANALOGUE BW. OF 5MHZ & DAC. FOR FASTBU
CHARGE SENSITIVE PREAMP. USING 10 HIGH G/M FET.S CONNECTED IN PARALLEL AT INPUT STAGE, FOR LARGE
CLASS E RESONANT CONVERTER REGULATED BY HALF-WAVE SCC, USING MOSFET.S/VOLTAGE-FED SERIES CO
MEASUREMENT CCT TO SUPERIMPOSE AC. CURRENT ON DC. OPERATING CURRENT, TO QUANTIFY EFFECTS OF
HEADPHONE AMP. USING OA. (THAT PROVIDES GAIN FOR CCT), BUFFER AMP. (BIASED FOR HEAVY CLASS A OPE
CLASS D VOLTAGE-SWITCHING TUNED POWER AMP. (INVERTER) WITH 106KHZ SERIES-RESONANT CCT, USING M
FLAT RIBBON CABLE DRIVER-RECEIVER USING PROGRAMMABLE HEX-LEVEL TRANSLATOR IC'S

DUAL HIGH-SIDE CCT BREAKER INCLUDING POWER RELAY, & "SLOW BLOW" CURRENT SENSING & AUTOMATIC R
STATIC SWITCH CCT USING SCR.S (THYRISTORS), TO SIMULATE 2ND-ORDER EFFECTS/SERIES RESONANT INVER
4MA TO 20MA SIMULATOR TO TEST CURRENT-LOOP DEVICES, USING BURR-BROWN'S 4 TO 20MA, 2-WIRE TRANS
FLASH-MEMORY PROGRAMMING CCTS TO PROVIDE HV. PULSES (2)/MOD. FOR EEPROM. HV. (21V) PROGRAMMIN
DUAL-MODE, DC.-DC. CONVERTER (CONVERSION CCT) THAT OPERATES AS BURP-MODE BOOST CONVERTER WH
SMART RS-232 SWITCH (CROSSPOINT SWITCHBOARD FOR RS-232) USING MICRO (F68HC11 BOARD), TELEPHONE
MEASUREMENT CCT OF NOISE CANCELLER IC USING S.C. SYSTEM, THAT ELIMINATES PULSE NOISE LIKE ENGINE
CLASS-E FLUORESCENT LAMP BALLAST WITH RFI. SUPPRESSION (120V CONVERTER INCLUDING CLASS-E INVER
STAGES OF 4 POLE LOW PASS BESSEL FILTERS WITH CORNER FREQUENCY OF 15KHZ (6)/2 POLE LOW PASS BES
PHASE-AMPLITUDE MATCHING BOX (PAM) TO PARTIALLY CANCEL REFLECTED PROBE SIGNAL/DIODE SWITCHED
RCA 10W CLASS AB AMP. USING POWER TUBES (AS REPRODUCED FROM 1970 RCA RECEIVING TUBE MANUAL)
ADAPTIVE-FIRMWARE CARD TO GIVE PHYSICALLY DISABLED INDIVIDUALS IMMEDIATE ACCESS TO STANDARD SO
RCA RADIOLA 17 MODEL AR-927 TABLE MODEL RECEIVER (RADIO)/WELL-FILTERED PS. WITH HUM SUPPRESSION
STATE-OF-THE-ART BAROMETER FOR MAKING WEATHER PREDICTIONS/BIPOLAR SUPPLY USING VOLTAGE CONV
CHARGING & SWITCHING CCT FOR PULSED MAGNET, USING IGNITRON FIRED BY KRYTRON TRIGGERED BY SCR.
SMALL, X-RAY PREIONIZED-DISCHARGE SYSTEM SHOWING TRIGGERING ARRANGEMENT
DUAL-UP., SHARED-MEMORY SYSTEM USING DUAL-PORT RAM. TO ELIMINATE WRITE-CONTENTION PROBLEMS, A
CHARACTER TRANSLATOR FOR SBC., INCLUDING UART., & BAUD RATE GENERATOR & CONTROLLER & CHARACT
SHAPER-AMP.-DISCRIMINATOR (BBB)/FRONT-END & CONTROL UNITS OF & FOR PULSE MONITORS (4)/CONTROL U
ARBITRATION CCT USING CMOS. COMPONENTS & WAIT-STATE LOGIC/PROCESSOR TIMING CCT/ARBITRATION-LO
CABLE SEGMENT HYBRID DRIVER CONSISTING OF CURRENT SOURCE-SINK DRIVER WITH TRANSISTOR SWITCHING
X-BAND VCO. USING NEC MESFET. IN COMMON GATE CONFIGURATION, & ALPHA VARACTOR DIODE, TUNABLE FF
SUB-AF. METER THAT OPERATES FROM 3HZ TO >100HZ/FREQUENCY-TO-VOLTAGE CONVERTER USING OSCILLAT
EMBEDDED CONTROLLER SYSTEM INCLUDING CPU., 16-CHANNEL ADC., PPI. & SERIAL PORT (4)/1 OF 8 CCTS OF 9
ROBOT (SOVIET SATELLITE AUTOTRANSPONDER) ID KEYS (CALLER) USING EPROM. CONTAINING CW. MESSAG
4MBYTE MEMORY EXPANSION BOARD FOR HEWLETT PACKARD (HP) LASERJET IIP-III PRINTER, USING 1MBIT 256
ISBC(R) 286-12 CPU. CARD FOR SYSTEMS REQUIRING UP TO 1M-BYTE OF MEMORY
SUBSYSTEM OF HEART-RATE MONITOR
8 BIT DAC. COMPRISING 16 VOLTAGE OUTPUTS
ROBOT'S CONTROL BOARD CONTAINING POWER & CONTROL CCTS, INCLUDING REGULATED PS.S & "SLEEP" CCT
1-BOARD MICROCOMPUTER, COMPATIBLE WITH IBM PC. AT/N BUS & INTEGRATED PERIPHERAL CONTROLLER/(BI
BUBBLE MEMORY CONFIGURATION USING 1M-BIT CHIP/MEMORY SUBSYSTEM WITH 0.25M BITS OF STORAGE/(BB
4-BIT COUNTER TO ADD REPEAT FUNCTION TO INTEL 8279 KEYBOARD-&-DISPLAY INTERFACE IC (BBB)
1MBIT (128KBYTE) MAGNETIC BUBBLE MEMORY SYSTEM INCLUDING FORMATTER SENSE AMP., CURRENT PULSE
4MB OR 1MB MAGNETIC-BUBBLE MEMORY UPGRADE FOR 8080-8085, INCLUDING BUBBLE-MEMORY CONTROLLE
HYBRID LOGARITHMIC AMP./ANALOG MULTIPLIER/ANALOG DIVIDER
3 BIT BINARY DIGITAL HARDWARE DIVIDER USING 4-BIT LATCH, FULL ADDER, PARALLEL LOAD & SERIAL INPUT S
SIBILANCE DISTORTION SUPPRESSOR USING 2 SALLER & KEY HIGH-PASS FILTERS & ELECTRONIC SWITCH
SUBSONIC FILTER FOR A STEREO SYSTEM
BUBBLE MEMORY SYSTEM (BBB)/BUBBLE MEMORY SYSTEM INTERFACE/CLOCK CCT
DEBOUNCING CCT USING NO. SPST. PUSHBUTTON, SCHMITT-TRIGGER-INVERTER & 0.47UF CAPACITOR, TO PRE
RGBI-TO-ANALOG MONITOR ADAPTER TO PERMIT USE OF ANALOG RGB. COLOR MONITOR WITH IBM COMPUTER
ROBUST SOLID STATE FILAMENT LAMP DRIVER
8-BIT TTL.-LEVEL OUTPUT/8-BIT TTL.-LEVEL INPUT/DAC. FOR WAVEFORM SYNTHESIS/SUCCESSIVE APPROXIMATI
4-BIT RING COUNTER TO CONTROL STEPPING MOTOR OR TO USE IN ANY APPLICATION REQUIRING SIMPLE SHIF
2-BIT COUNTER-DEBOUNCER CLOCKED BY DEBOUNCED, NO., PUSHBUTTON SWITCH, USING CMOS. FF. & SUITAB
HYBRID BUS
CABLE-LINE DRIVER FOR CMOS. OR TTL. SIGNALS, CONNECTING 3 GATES IN PARALLEL TO PROVIDE CURRENT D
8-BIT DAC./DC. MOTOR DRIVE CCT

VIBRATING ELECTRODE VOLTAGE PREAMP. USING DUAL JFET., WITH OUTPUT BEING DIFFERENCE BETWEEN VIB
A-B COUNTER TO PROVIDE POSITIVE DIFFERENCE BETWEEN 2 INPUT PULSE TRAINS, WITH POLARITY DISPLAYED
CCBM GANTRY SENSORS, THE WIRES OF WHICH HOLD INPUTS OF BUS BUFFERS AT GROUND/MOD.S FOR IBM PA
8-BIT INTERNAL DATA PATH OF FPI (FASTBUS PROCESSOR INTERFACE), THAT RECEIVES DATA & LOADS FPI REG
HYBRID SQUELCH CCT USING OA. AS HIGH-GAIN NOISE AMP., & GERMANIUM DIODES TO PROVIDE DC. VOLTAGE
ROBOT'S ELECTRONICS BOARD INCLUDING UP., SERIAL PORTS CONSISTING OF UART.S & RS-232 DRIVERS & RE
ROBOT'S CONTROL CCT BASED ON 1-SHOTS THAT WAIT TO RECEIVE SIGNAL BEFORE TURNING ON FOR PREDET
5-BAND AUDIO EQUALIZER TO CLARIFY TRANSMIT OR RECEIVE AUDIO/ACTIVE DE-EMPHASIS CCT TO RESTORE F
MOBILE THEFT DETERRENT THAT ALLOWS CAR TO BE DRIVEN FOR ~60S, AFTER WHICH IT WILL STALL
DEBOUNCE CCT/LIGHT-CONTROLLED OSCILLATOR/IR. REMOTE-CONTROL SYSTEM (2)/TRANSMITTER & RECEIVER
8-BIT NMOS. UP. EQUIPPED WITH MIXED-LOGIC CONTROLLER TO REDUCE RF. NOISE & POWER DRAIN (BBB)
UNBALANCED, ACTIVE, LINE-LEVEL M-S (MID-SIDE) MATRIX TO INSERT IN LINE AFTER MICROPHONE PRE-AMP.S,
FIBER-OPTIC LED. TRANSMITTER-RECEIVER (TR.)
8-BIT ROCKWELL RM65-1000 SBC. MODULE BUILT AROUND R6502 UP. (BBB)
MOBILE UTILITY BOX
8-BIT CMOS. MICROCONTROLLER CONTAINING 8 300MA 6V POWER DMOSFET.S, CHARGE PUMP, 4 COMPARATOR
EMBEDDED CONTROLLER CONSISTING OF Z80 RUNNING AT 6MHZ, 8KBYTE EPROM., 48K DRAM., SERIAL COMMUN
COB09 6809-BASED SINGLE BOARD MICRO-COMPUTER WITH FLEX COMPATIBILITY & MEMORY MAPPED VIDEO
HYBRID HALF-BRIDGE MOTOR DRIVER CCT INCLUDING 2 MOSFET.S/3-PHASE MOTOR DRIVER INCLUDING HALL-E
32BIT RISC. MICROCONTROLLER WITH ON-CHIP CACHE & FLOATING POINT CO-PROCESSOR, WITH DYNAMICALLY
HYBRID PLL. (HPLL) USING VCO. PORTION OF CMOS. PLL. IC, ANALOG SWITCHES, OA.S, ZENER DIODES & CROSS
FIBER OPTIC DATA RECEIVER/PIN-BJT. (BIPOLAR) TRANSIMPEDANCE FRONT END FOR FIBER OPTIC RECEIVER, V
SUBMERSIBLE LIQUID LEVEL SENSOR THAT DRIVES ALARM CCT, USING IR. LED. & PHOTO SENSOR-OA., WITH IR.
CYBER LASER CONTROLLED WITH PC. VIA CARD THAT PLUGS INTO SERIAL PORT, USING LASER DIODE WITH INT
ARBITRARY WAVEFORM GENERATOR (SYNTHESIZER) WITH 16 DIFFERENT OUTPUTS, USING 2KB EPROM., 2 SH. I
6-BIT FLASH-ADC. MISSING-CODE TESTER THAT DISPLAYS VALID CODES ON OSCILLOSCOPE ON WHOSE GRID O
VIBRATING-MODE DRIVE OF 4-DOT MONOSTABLE TRANSDUCERS/BCD.-TO-BRAILLE CONVERTER/7-SEGMENT CO
HYBRID ISOLATION AMP./ECG. AMP./THERMOCOUPLE AMP.
CYBER HC5 MICRO DEVELOPMENT SYSTEM USING EPROM.-BASED MICROCONTROLLER & RS-232 INTERFACE, FO
IGBT. (INSULATED-GATE POWER BJT.) SWITCHING CCT WITH OVER-CURRENT PROTECTION USING PILOT RESIST
FIBER OPTIC SERIAL LINK USING LIGHT TO MOVE DATA, CAPABLE OF TRANSMITTING DATA AT 19KBAUD ON 5M C
FIBER OPTIC TRANSMITTER CCT/FIBER OPTIC 100KBIT RECEIVER IN WHICH DETECTOR PHOTOCURRENT IS CON
RGB.-NTSC. COLOR CONVERTER THAT COSTS <\$30 & USING MOTOROLA CONVERTER IC, TO PROVIDE COMPUTE
HYBRIDIZED HALF-BRIDGE, HALF-WAVE ZCS-QRC (CONVERTER)/2MHZ 2-CHANNEL ISOLATED GATE DRIVE TO DR
RGB. TO NTSC. ENCODER WITH NTSC. COMPOSITE VIDEO OUTPUTS (2)/RGBI TO RGB. CONVERTER TO INTERFAC
HYBRID AUDIO GAIN STAGE WITH LOW OUTPUT IMPEDANCE & LOW DISTORTION, USING VACUUM TRIODE IN COM
CABLE TESTER USING 32-BIT SHIFT REGISTER, ABLE TO HANDLE UP TO 32 CONDUCTORS & EXPANDABLE IN 32-C
3-BYTE MUX.ED UP-DOWN COUNTER CONNECTED TO KIM MICROCOMPUTER (BBB)/ECL.-TTL. CONVERSION CCT,
X-BAND & K-BAND RADAR-CALIBRATOR CCT (FALSE-TARGET GENERATOR) WHOSE OUTPUT IS FED TO MA49159 C
2-BAND PREAMP. WITH VARIABLE GAIN FROM 0 TO 40DB, FOR 160M & 80M SMALL RECEIVING LOOPS & BEVERAG
SUBSCRIBER CHANNEL UNIT BUILT AROUND 2 DM. CODECS, 1 SWITCHED-CAPACITOR FILTER & 1 SLIC.
CYBER KEY THAT ATTACHES TO COMPUTER'S SERIAL PORT, TO LIMIT ACCESS TO AUTHORIZED USERS, INCLUD
CYBER LINK CCT USING MICROCONTROLLERS (2)/INPUT INTERFACE USING 8-INPUT ADC. USING OPTICAL ISOLAT
RGB.-TO-NTSC. COMPOSITE-VIDEO ENCODER FOR WORLD SYSTEM TELETEXT DECODER/VIDEO SWITCH TO SEL
RGB.-NTSC. ENCODER (RGBI TO NTSC. CONVERTER) WHICH, WITH INTERLACED COMPOSITE SYNC, ALLOWS FOR
8-BIT MDAC./OPERATIONAL PS. (VOLTAGE-CONTROLLED CURRENT SOURCE) USING INTERSIL POWER TRANSIST
SSB. PRODUCT DETECTOR OPERATING FROM 12V SUPPLY, IN WHICH ALL FREQUENCIES EXCEPT DEMODULATE
8-BIT MICROCONTROLLER & INPUT SECTIONS OF MAIN CCT BOARD/LED. CCT, TONE GENERATOR & RELAY DRIVE
UNBALANCED LINE DRIVER SERVING AS LEVEL TRANSLATOR TO LINK TTL. CCTS WITH RTL. OR CMOS. LOGIC/DU

5-BIT FAST ACCURATE DIGITAL PHASE SHIFTER BASED ON ECL. LOGIC & OPERATIVE WITH CLOCK FREQUENCY U
8-BIT, 8-CHANNEL CCT TO ALLOW CONNECTION OF ANALOG VOLTAGES TO TRS-80 MODEL I MICROCOMPUTER, U
VIBRATION DETECTOR & ANALYSER USING B & K 8306 ACCELEROMETER & CONSISTING OF AMP.S, FILTERS, RMS
HYBRID PATCH CLAMP AMP. (CURRENT-TO-VOLTAGE CONVERTER) USING OA.S, WITH BOTH INPUT STAGES USIN
MOBILE NICD. BATTERY CHARGER USING AUDIO-POWER AMP. CONFIGURED AS POWER OSCILLATOR WHOSE P
DUBBING (SOUND) MIXER THAT ALLOWS FADING, SOUND DUBBING & VOICE-OVER EFFECTS TO BE REALIZED, US
DEBUGGING AID CONSISTING OF CMOS. DIVIDER IC WHICH IS FED FROM CLOCK SIGNAL OF MICRO SYSTEM
8-BIT MICROCOMPUTER-SAMPLING OSCILLOSCOPE INTERFACE FOR <0.35NS RISE TIME DIGITAL BOXCAR GENE
6-BIT ADC. BOARD WITH PARALLEL PORT, ALLOWING SAMPLING AT ~100US, USING 8 BIT A-D, FOR DIGITIZING PIC
8-BIT 8-CHANNEL ADC. WITH UNIPOLAR RANGE OF 0 TO +5V/RS-232C SERIAL OUPUT PORT FOR COMMUNICATION
SUBCARRIER OSCILLATOR FOR RESISTIVE TRANSDUCER INPUT & CARRIER OSCILLATOR THAT IS MOD. OF COLP
VIBRATION AMPLITUDE SERVO USING SWITCHED-CAPACITOR FILTERS, VCA. & TRANSCONDUCTANCE AMP.S/CC
Q-BUS-BASED IMAGE PROCESSING SYSTEM USING INPUT MODULE, FRAME BUFFER, ALU. & DSP. ARRAY PROCES
HYBRID CONSTANT-FRACTION-DUAL-THRESHOLD DISCRIMINATOR (CFD.-DTD) FOR TIMING MEASUREMENTS
1 BASIC DELAY UNIT OF AUDIO CCD. DELAY UNIT, INCLUDING DRIVING CCT, 256-CELL CCD. CHIP & 10TH-ORDER I
5-BAND JUNKBOX TRANSMITTER (RADIO) USING TUBES, CONSISTING OF TUNABLE OSCILLATOR & FINAL AMP., U
LABORATORY-STYLE RX NOISE BRIDGE FOR ANTENNA MATCHING, INCLUDING 1KHZ SQUARE-WAVE TONE GENE
MOBILE AUDIO STUDIO WITH MIXING FACILITIES WITH INPUTS FOR MICROPHONES, MUSICAL INSTRUMENTS & TA
VIBRATION COMPENSATION CCT/DIFFERENTIAL LIGHT DETECTOR
TUBE TESTER TO CHECK GAIN, DISTORTION, PLATE RESISTANCE, & NOISE/PS. (2)/PLUG-IN TO TEST 7199 TUBES/
FIBER-OPTIC TRIGGER CCT THAT GENERATES HIGH-AMPLITUDE, HIGH-SPEED PULSES
SUBWOOFER SIMULATOR TO OBTAIN MOVIE-THEATER SOUND WITH DEEP-BASS AMPLIFICATION, USING QUAD J
FIBER-OPTIC PHOTODETECTOR-AMP.
BUBBLE GATE USING SH. AMP. & LOGARITHMIC AMP./DIFFERENTIAL EDGE SENSOR/CCT FOR AUTOMATIC THRES
HYBRID PREAMP. CONSISTING OF DIODE PROTECTED COMMON BASE INPUT & 2 CASCADED EMITTER FOLLOWE
2-BAND ANTIQUE GENERAL ELECTRIC A-53 TUBE RADIO INCLUDING POWER REC, CONVERTER & OSCILLATOR, IF
CUBR LASER SHOWING CCT INCLUDING HYDROGEN THYRATRON THAT COMMUTATES THROUGH LASER DISCHA
HYBRID PROCESSOR TO PROCESS ANALOGUE SIGNALS, USING 4 VARIABLES & PERFORMING ARITHMETICAL OP
BUBBLE MEMORY SYSTEM USING INTERFACE CCTS/TYPICAL UP. & BUBBLE MEMORY CONTROLLER (BMC) INTER
CABLE CHECKER TO IDENTIFY OPEN CONDUCTORS & SHORTS BETWEEN ADJACENT CONDUCTORS IN MULTICOR
8-BIT-WIDE PROGRAMMABLE-TAPPED DELAY LINE USING RAM., EQUIVALENT TO 4096-BIT SHIFT REGISTER (BBB)
SSB.-CW. AUDIO FILTER WITH VARIABLE DEGREES OF AUDIO SELECTIVITY/PS.
AMBULATORY REST-ACTIVITY RECORDER USING ACCELERATION DETECTOR/AMBULATORY BODY-TEMPERATUR
7 BIT ANALOGUE TO DIGITAL INTERFACE USING ADC. CHIP, IO. DECODER & TRI-STATE BUFFER
RGB.-NTSC. COLOR VIDEO CONVERTOR TO CONVERT RED, GREEN & BLUE SIGNALS TO COMPOSITE COLOR VID
VIBRATION AMP.
MOBILE EXTENDER USING VOX CONTROL, USING NORTON OA. IC & POWER MOSFET.S, ACTING AS REPEATER
CABLE TESTER USING TIMER AS ASTABLE MULTIVIBRATOR WHOSE OUTPUT IS USED AS CLOCK INPUT FOR DEC
2KBYTE SINGLE-SET CACHE-MEMORY SYSTEM FOR 16-BIT PROCESSOR WITH 22-BIT ADDRESS FIELD (BBB)
3-BAND (BASS, MID-RANGE & TREBLE) ACTIVE TONE CONTROL/DNR CCT BETWEEN TAPE, PREAMP. OR FM. & POW
GDB (GRAPHIC DISPLAY BLOCK) SYSTEM USING 4 BANKS OF 9 16KX1-BIT SRAM.S FOR BIT-MAPPED PLANE/DRAM
4-BIT ADC. WITH FULL SCALE OF 4V & PS. OF +-8V, THAT IMPLEMENTS EACH NEURON WITH COMPARATOR PLUS
6-BIT DAC./ADC. USING COMPARATOR, DAC. & SOFTWARE TO BRACKET JOYSTICK INPUT VALUE/MICROPHONE A
4-BIT PHONEVU (CAMERA PHONE) TO SEND PICTURES ON TELEPHONE LINE & RECORD THEM ON AUDIO CASSET
BABY ALERT TRANSMITTER OF CARRIER-CURRENT SYSTEM, USING QUAD OA. & 2 CMOS. OSCILLATOR-TIMERS/B
SUBLIMINAL TAPE MIXER WHOSE MUSIC INPUT IS SENT TO TAPE RECORDER WITHOUT AMPLIFICATION WHILE SU
8 BIT DAC./SPEAKER DRIVER THAT ACCEPTS SQUARE WAVES & PRODUCES TONES/SHARP LPF. WITH 3KHZ CUT
CABLE COMPENSATING FILTER WITH POLE-ZERO COMPENSATION SECTIONS USING RC. NETWORKS, INCLUDING
1MBIT DRAM. CONTROLLER USING DYNAMIC MEMORY CONTROLLER, MEMORY TIMING CONTROLLER, PROGRAM

FIBER-OPTIC (FO) RECEIVER-TRANSMITTER PAIR, INCLUDING 6MHZ PIN RECEIVER (2)/LASER TRIGGERING UNIT (CYBERNET CB. BOARD/FM. DEMODULATOR BOARD
8-BIT ALU. MODULE OF 4-BIT BIT-SLICE UP. (BSM), RESPONSIBLE FOR ARITHMETIC & LOGIC COMMANDS/SEQUENCING
1 BIT ADC. THAT AMPLIFIES & CONVERTS AMPLITUDE OF MICROPHONE SIGNAL FROM ANALOG TO BINARY, TTL.-LEVEL
UNBALANCED-TO-BALANCED LINE DRIVER/PIEZOELECTRIC ALARM
ROBOTIC VISION SYSTEM USING 2 LDR.S THAT FORM SIMPLE SENSOR ARRAY TO DETECT RELATIVE LIGHT INTENSITY
7-BAND STEREO EQUALIZER/ANTI-POP MOD.S/CASCADING FOR 8 TO 14 BANDS
1-BIT 6.9MHZ 10-CHANNEL COUNTER-TIMER TO MONITOR RATES OF PARTICLE DETECTORS, COMPATIBLE WITH I/Q
SSB. OVERDRIVE INDICATOR THAT FLASHES RED LED. IF TRANSMITTER IS OVERDRIVEN, USING UJT., TO AVOID I/Q
FIBER OPTIC TRANSMITTER/MEGABIT RECEIVER/100 KILOBIT RECEIVER/PHOTO DARLINGTON RECEIVER
FIBRE-OPTIC ECG. MONITORING INSTRUMENT INCLUDING DIFFERENTIAL AMP. WITH 36DB GAIN, CMRR. OF 80DB
8-BIT HIGHEST-WINS STORE THAT RETAINS HIGHEST 2'S COMPLEMENT VALUE TO OCCUR SINCE LAST RESET, USING
1-BAND SW. CONVERTER INCLUDING RF. AMP., LO. & MIXER, TO CONVERT CAR RADIO INTO SW. RECEIVER, COVERING
FIBER OPTIC RECEIVER
SSB. MODULATION MONITOR-MULTI-FUNCTION TEST INSTRUMENT/"SSB. SNIFFER"
HYBRIDIZED VERSION OF 30MHZ VIDEO PREAMP./DEFLECTION-AMP. & SWEEP-FAILURE CCT FOR FPS CAMERAS
HYBRID PREAMP. WITH GAIN OF 100 & DIFFERENTIAL OUTPUT TO DRIVE 38M OF INDIVIDUALLY SHIELDED TWISTED PAIR
8-BIT ABSOLUTE-MAGNITUDE COMPARATOR THAT COMPARES 2'S COMPLEMENT NUMBERS WITH SET MAGNITUDE
SUBNANOSECOND LIGHT FLASHER INCLUDING AVALANCHE PULSE GENERATOR & ELECTRO-LUMINESCENT DIODE
TUBE TESTER (CHECKER) USING HIGH SENSITIVITY TO LOOK FOR LEAKAGE, ABLE TO FIND BAD TUBES FROM ALL
HYBRIDIZED TEMPERATURE MEASUREMENT DEVICE USING VFC. WHOSE OUTPUT IS COUNTED, WRITTEN TO REGISTER
FIBER OPTIC MODEM FOR TRANSMISSION OF RS-232 COMPUTER DATA, TO ELIMINATE EMI. & RFI.
4-BY-4 LED. DISPLAY CONTROLLED BY LIGHT PEN
H BRIDGE WITH CYCLE-BY-CYCLE CURRENT MODE CONTROL USING DRIVER/BRIDGE ARRANGEMENT TO DRIVE VARIOUS
H BRIDGE WITH CYCLE-BY-CYCLE CURRENT-MODE CONTROL PROVIDED BY CURRENT SENSING & SHUTDOWN IN
SUBSYSTEM LINKING MULTIDISK CONTROLLER TO 2 HARD DISKS & 2 MINIFLOPPIES (BBB)
DEBUGGING CCT TO FIND MISSED DATA REQUESTS (DRQ'S) WHEN TRYING TO DETECT TIMING VIOLATIONS IN DR
2-BAND AUDIO COMPRESSOR AMP. INCLUDING HIGHPASS & LOWPASS SECTIONS WHOSE GAIN IS ADJUSTABLE
HYBRID PREAMP. WITH CASCADE FRONT-END STAGE USING HIGH TRANSCONDUCTANCE FET., & NORTON AMP. T
FIBER CHANNEL POINT-TO-POINT LINK OPERATING AT 100MBYTES-SEC USING G-TAXICHIP SET INCLUDING TRANSMITTER
HYBRID CHARGE SENSITIVE PREAMP. WITH FAST DECAY TIME, CONSISTING OF NEGATIVE FEEDBACK AMP., CALIBRATED
8-BIT, 15MHZ ADC. WITH LOOKUP TABLE, USING BROOKTREE IMAGE DIGITIZING 8-BIT FLASH CONVERTER WITH 4
HYBRID POWER AMP. WITH 50W OUTPUT POWER
H BRIDGE USING MOSFET.S, TO CONTROL DC. MOTORS OR DRIVE INVERTER STAGE, EXCITABLE FROM LOW-DRIVE
SUBSYSTEM USING VIDEO DIGITIZER, DRAM. FOR IMAGE MEMORY, CAPTURE & COMPRESSION PROCESSORS, &
2LB 20 TO 30W RF. AMP. (HF. TRANSMITTER) FOR 3.5, 7.0 & 14.0MHZ AMATEUR BANDS, USING PUSH-PULL PAIR OF
LABORATORY COMPUTER INTERFACE FOR EXTERNAL DEVICE CONTROL, USING GENERAL INSTRUMENT UART.,
ACC MICROELECTRONICS SINGLE-CHIP PC. AT THAT PACKS ALL MOTHERBOARD LOGIC INTO SINGLE CHIP/CCT USING
ADC. CCT USING 6-BIT FLASH-ADC. (FADC), INCLUDING UNITY-GAIN FRONT-END DIFFERENTIAL AMP., FAST BUFFER
RECEIVER PORTION OF 222-225MHZ TRANSVERTER/100MHZ CRYSTAL OSCILLATOR CCT & DOUBLER/220MHZ TRANSMITTER
MICRO-CHIP BASED COMPUTER & PERIPHERAL MICRO-ELECTRONIC ELEMENTS, INCLUDING CPU., RAM., EPROM, KEYS,
PICK-A-NUMBER COUNTER & TIMER
OSCILLOSCOPE BAR DISPLAY (MUX.)
VICTOR 9000 COMPUTER, INCLUDING PROCESSOR, POWER-UP ROM., PIC., DISK CONTROLLER & CRT. CONTROLLER
MICROCONTROLLER TO PRODUCE VARIABLE DELAY ANGLE PULSES SYNCHRONIZED WITH AC. MAINS (BBB)/POWER
CRC (CYCLIC REDUNDANCY CODE) CHECKER & GENERATOR THAT CAN OPERATE TO 800MHZ, USING GAAS. FF. C
TACHOMETER TO MEASURE HEARTBEATS, RESPIRATORY RATES & OTHER LF. EVENTS THAT RECUR AT INTERVALS
1-CHIP TACHOMETER CCT THAT DRIVES COUNTER UP OR DOWN, ACCORDING TO SPEED & DIRECTION OF SHAFT
LUCKY-NUMBER SELECTOR THAT CAN BE PROGRAMMED BY WIRING CHANGE TO SELECT NUMBERS IN 3 LOTTERY

SECTION OF UP.-BASED SYSTEM, INCLUDING MPU., DECODERS, BUS DRIVERS & LATCH/SECTIONS INCLUDING P
 NICD. BATTERY CHARGER THAT USES 2 12-STAGE DIVIDERS TO AUTOMATICALLY TURN (SWITCH) OFF SUPPLY A
 MICROCOMPUTER-BASED MUSCLE STIMULATING & MONITORING SYSTEM INCLUDING MPU. (UP.), MUX.ED ADC. &
 TICK-TOCK CCT FOR DIGITAL CLOCK
 CYCLING CCT FOR BIPOLAR TEMPERATURE CONTROLLERS SHOWING MOD.S TO CAMBION PELTIER DEVICE TO A
 SECTION OF IMAGEWISE DISPLAY-RECEIVER THAT GENERATES PRECISION SYNC TIMING, USING INTEL PIT. (BBB)
 MICROCONTROLLER, RAM. & EPROM. PORTION OF DIGITAL COMPASS THAT USES MAGNETIC SENSOR/CCT SHOW
 LOCK WITH 10^9 COMBINATIONS, THAT REQUIRES CORRECT SEQUENCE OF KEYS TO BE PRESSED TO ENERGIZE
 SBC. OF MTEC (UP. TIME, ENCODER & CONTROL) TELESCOPE & INSTRUMENT CONTROL SYSTEM, INCLUDING UA
 FLC (FERROELECTRIC LIQUID CRYSTAL) ELECTRO-OPTICAL SHUTTER CONTROL CCT TO CONTROL 3-SHUTTER S
 ACCURATE LOW-COST DIGITAL CAMERA SHUTTER TESTER TO CHECK SPEEDS FROM .001 TO 1S
 2-CHIP, 4-CHANNEL ADC. THAT WORKS WITH ANY 8-BIT COMPUTER, USING ANALOG SWITCH & ADC.
 SECTION OF LINE FREQUENCY MONITOR, TO PRODUCE SQUARE WAVE/SECTION USING PROCESSOR FOR SAMP
 ENCODER (BBB)/ENCODER USING UP.-COMPATIBLE 8-BIT, 8-CHANNEL ADC./DECODER (BBB)/DECODER
 2-CHANNEL MUX. FOR USE WITH SIGNAL AVERAGER/4-CHANNEL MUX.
 OSCAR-10 DECODER WHICH, WHEN CONNECTED TO HOME COMPUTER & AMATEUR-BAND RECEIVER, MONITORS
 MICROWAVE PULSE GENERATOR USING MOSFET.S MATSUSHITA MAGNETRON OSCILLATOR DRIVEN BY TRAIN O
 2-CHANNEL, FULL-DUPLEX COMMUNICATIONS LINK/INTELLIGENT TERMINAL USING DMA. CONTROLLER FOR TRAF
 VFC. WHOSE OUTPUT VARIES BETWEEN 400HZ & 1600HZ WHEN SIGNAL FROM SEISMOGRAPH IS APPLIED TO INF
 OSCILLATOR THAT OPERATES IN OSCILLATING & SINGLE SHOT MODES/HV. PULSER CONSISTING OF DRIVING, SV
 CACHE CONTROLLER BLOCK (CTRL) OF 80386 UP. CACHE CONTROLLER MODULE, INCLUDING PAL. BLOCK CONS
 MICROCONTROLLER-BASED SBC. OF MUSIC-ON-HOLD ADAPTER THAT SERENADES TELEPHONE CALLERS WITH
 DECODER TO DETECT LINES 24 & 257, USING 2 DUAL 4-INPUT NOR GATES & DUAL 4-INPUT AND GATE/CCT USING
 SOCKET ADAPTER TO COPY INTERNAL MICROCONTROLLER INTERPRETER INTO EPROM. FOR USE WITH LESS-IN
 MICROCOULOMETRIC TOTAL ORGANIC HALOGEN ANALYSER USING MICROCOULOMETER CONSISTING OF KNICK
 EXCITER INCLUDING CMOS. IC'S AS HF. CRYSTAL OSCILLATOR & FREQUENCY DIVIDER/FINAL RF. AMP. USING PO
 ARCADE VIDEO GAME CCT USING UP. THAT RESPONDS TO INPUTS FROM SWITCHES & RAM. & EAROM. (BBB)
 OSCILLATOR CONNECTIONS TO 4060 IC (2)
 OSCILLATOR TO PRODUCE SQUARE WAVE (CLOCK SIGNAL), WITH CONTROL OF FREQUENCY & DUTY CYCLE OF
 ACCOS 2S 4-IO. ANALOGUE INTERFACE CONFIGURABLE IN VARIETY OF ANALOGUE IO. ARRANGEMENTS, INCLUD
 3-CLOCK DRAM. CONTROLLER CONTAINING UP., 2 BANKS OF 32-BIT-WIDE DRAM. MODULES, 2 REGISTERED PAL.S
 5-CHIP 2-USER 8088 UP. SYSTEM INCLUDING 8155 WITH MEMORY, IO. & TIMER, 8755A WITH EPROM. & IO., & STAT
 MICROCOMPUTER USING INTEL 8088 UP. IN MINIMUM MODE, INTERFACED WITH MUX.ED ADDRESS & DATA COMP
 5 CHANNEL MEMORY SCANNER AS ADD-ON UNIT TO 720 CHANNEL AIRBAND RECEIVER (REW8209, REW8210)
 OSCILLOSCOPE-COMPUTER INTERFACE USING GOULD-BRUSH DIGITAL STORAGE OSCILLOSCOPE & PET 2001 CO
 MICROCONTROLLER SYSTEM SHOWING MINIMUM CONFIGURATION & CONFIGURATIONS WITH IO. & RAM. EXPAN
 I CHING ORACLE THAT PRODUCES VISUAL LED. DISPLAY TAKING FORM OF ORIGINAL CHINESE HEXAGRAM
 RECORD & PLAYBACK CCT, USING FPGA (FIELD-PROGRAMMABLE GATE ARRAY), & 12-BIT DAC. & OA. FOR CONVE
 NUCLEAR SPECTROSCOPY ELECTRONICS INCLUDING PIN SI PHOTODIODE (PD), CHARGE SENSITIVE PREAMP., M
 MPC-2 PART-68 PHONE-LINE INTERFACE (COUPLER), WITH WHICH TO MAKE TELEPHONE PROJECTS FCC TYPE-A
 ARC OPERATING & INTERRUPT CCT
 NUCLEAR ADC. USING COMMERCIAL ADC., CORRECTED 12-BIT DAC. EMPLOYING 2 0-BIT AD561 DAC.S, UP-DOWN
 RTCV25 BOARD INCLUDING V25 PROCESSOR, 2 SERIAL PORTS, 40 PARALLEL IO. LINES, 8-CHANNEL 8-10-BIT ADC
 1 CHANNEL OF RIAA-EQUALIZED VACUUM TUBE STEREO PREAMP. FOR DISC & UN-EQUALIZED INPUTS
 BBC SIDEWAYS RAM. BOARD/BBC MICROCOMPUTER KEYBOARD CCT (BBB)/EXTERNAL DATA ACCESS CCT FOR B
 TNC. TO PLUG INTO EXPANSION SLOT OF IBM PC., USING INTEL PROGRAMMABLE HDLC.-SDLC PROTOCOL CONT
 NICD. BATTERY CHARGER TO CHARGE 2.5V 7AH NICD.S/SLA (SEALED LEAD ACID) BATTERY CHARGER USING FLC
 EICO HF20 HIGH-FIDELITY AMP. INCLUDING TAPE OUTPUT & SELECTOR SWITCH
 RECOGNIZER-HOST HARDWARE INTERFACE/INTEL BPK 72 MEMORY UNIT (BBB)/BPK 72 TO 8085A INTERFACE

DAC. & PARALLEL LINE INTERFACE/2-CHANNEL SERIAL LINE INTERFACE/ADC. BOARD/DMA. & TIMING CONTROLLER
 NICD. BATTERY CHARGER USING TELEFUNKEN PROCESSOR THAT CONTAINS LOGIC CCTS FOR AUTOMATICALLY
 SBC. BUILT FROM CHIPSET ASIC.S FROM CHIPS AND TECHNOLOGIES (BBB)
 VACUUM TUBE LINE LEVEL PREAMP. TO DRIVE TRANSFORMERLESS POWER AMP., USING TRIODES, INCLUDING P
 MICROCONTROLLER INTERFACE TO INTERFACE KRYSALIS 2KX8 UNIRAM. TO MOTOROLA MC68HC11 (BBB)
 N-CHANNEL FET. TESTER IN WHICH FET. IS PLACED IN LEG OF WIEN-BRIDGE OSCILLATOR, TO DETERMINE FET.'S
 2-CHANNEL S-100 SERIAL INTERFACE (IO. BOARD) USING UART. IC'S, CAPABLE OF DATA RATES UP TO 38.4 KILOB
 83C652-BASED ACCESS.BUS SYSTEM INCLUDING CPU., RAM., EPROM., & 87C751-BASED IO. PORTS ADDED WITH
 RECEIVER LOGIC FOR PLU (PARALLEL LINE UNIT) TO OMA DATA TRANSMISSION/CCT FOR OMA TO PLU DATA BUF
 2-COLD-STAGE PREAMP. USING GAAS. MESFET.S IN CRYOSTAT, & ROOM-TEMPERATURE SOURCE RESISTORS/1-
 RECEIVER (BBB)/RF. FILTER/RF. PRE-AMP./1ST MIXER/2ND MIXER/3.18MHZ AMP./48.18MHZ OSCILLATOR/BFO. & P
 2-CHANNEL POLARITY CORRELATOR THAT ESTIMATES 256 CORRELATION COEFFICIENTS PER CHANNEL AT SAM
 MICROPHONE AMP. (PREAMP.)/MICROPHONE BUFFER AMP./AUDIO MIXER/LATCHING PUSHBUTTON SWITCH FOR
 ARC-DISCHARGE PATH OF EG&G MICROFLASH UNIT (ARC-IN-A-GROOVE SPARK LAMP), USABLE AS POINT SOURC
 LOCK DETECTOR FOR PLL., USING UP-DOWN COUNTER THAT DERIVES IMPULSE FROM MONOSTABLES, FOR VLB
 MICROPROGRAM START LOGIC USING PROM., COUNTER, FF.S, TIMER & OSCILLATOR (CLOCK), CONTROLLED BY
 BACK-&-FORTH SEQUENTIAL FLASHER
 RECEIVER CCT OF SYSTEM TO CHECK ERROR PERFORMANCE OF LINKS IN LAN., OPERATING UP TO BYTE RATES
 1 CHANNEL OF VOICE MUX.ING SYSTEM USING 4 ENCODING SEQUENCES, CONSISTING OF AMP., MULTIPLIER US
 2-CHANNEL DIFERENTIAL AMP. FOR ERG (ELECTRORETINOGRAM) & EOG (ELECTRO-OCULOGRAM) MEASUREMEN
 ADC. BOARD/12-BIT DAC. (BBB)/STEPPING-MOTOR CONTROLLER USING LOGIC TO ENERGISE WINDINGS IN SEQU
 POCKET-SIZED AF. COUNTER USING CMOS. OSCILLATOR TO PROVIDE 60HZ TIME BASE, DIVIDER & BUFFER CCT
 BBC COMPUTER INTERFACE CCT FOR G4ENA-G3WCY SLOW SCAN TV. SCAN CONVERTER, TO ALLOW SSTV CONN
 TNC. CONNECT ALARM USING D FF., CONNECTED TO DATA CARRIER DETECT LINE 8) OF RS-232 PORT OF KPC-2
 DECODING LOGIC FOR MOD. MP-8M MEMORY BOARD (BBB)
 CYCARD THAT CONNECTS CYDAT UNIVERSAL DATA COLLECTOR-CONTROLLER TO BUS OF IBM PC. USING 8-BIT
 ENCODER OF ALL-DIGITAL PI-4-DQPSK. MODULATOR/IJF FILTER (PULSE SHAPER) FOR F-QPSK. MODULATOR (MO
 VFC./CCT FOR HANDLING POSITIVE & NEGATIVE VOLTAGES
 4-CHANNEL STATE MACHINE ARBITER SYSTEM THAT INCLUDES 512-WORD BY 8-BIT PROM.S WITH ADDRESS REG
 BCC55-BUS INTERFACE CCT (BBB)/CCTS ADDED TO BCC55 TO COMPLETE STEPPER MOTOR-CONTROL POD INTE
 POCKET-SIZE, BATTERY-OPERATED, & INEXPENSIVE (<\$40.00) REFLECTOMETER TO MEASURE LIGHT REFLECTAN
 MICROCOMPUTER-TO-TV. INTERFACE ISOLATION CCT INCLUDING SYNC SEPARATOR & HV. TOTEM PLE STAGE/D
 OSCILLATOR INCLUDING PLL., COUNTERS, GATING & QUADRATURE SECTION, & PUSH PULL OUTPUT/DRIVER STA
 MICRO MONITOR (FRONT PANEL) FOR TRS-80 COMPUTER, THAT ALLOWS ONE TO WATCH ADDRESS & DATA CHA
 ADC. FOR MONITORING OF TEMPERATURE, CO2 & O2 CONCENTRATIONS/CO2 CONCENTRATION CONTROL ELEC
 1 CHARACTER-SEGMENT SUBASSEMBLY FOR SCROLLING ALPHANUMERIC LED. DISPLAY, INCLUDING 35 LED.S, S
 INCREMENTAL-ENCODER INTERFACE THAT RELIES ON PROPAGATION-DELAY-RESET TO PRODUCE NARROW CL
 VFC./STABLE FREQUENCY OSCILLATOR
 MICROPHONE AMP. WHOSE AMPLIFICATION OF SIGNAL AMPLITUDE RANGES FROM 100 TO 1000 TIMES, USING O
 OSCILLOSCOPE ADAPTER FOR COMPUTER CONTROLLED DIGITAL IC TESTER
 VIC 20 INTERFACE CCT
 VIC 20 MICROCOMPUTER INTERFACE CCT & DECODER SECTION OF E & L AID-1 ANALOG INTERFACE DESIGNER
 SECTION OF CCT ADDED TO VIC 20, THAT USES 2 LINES OF VIA. THAT APPEAR AT USER PORT OF COMPUTER, IN
 LOCALIZED CURRENT FIELD (LCF) TEMPERATURE REGULATING (POWER MODULATING) CCT USING OA.S & FET. T
 2-CHANNEL, PULSE-COUNTING INTERFACE OF SYSTEM FOR COMPUTER REGISTRATION OF INDICATOR-DILUTION
 EXCITATION & AMPLIFICATION CCT, IN WHICH LIGHT TRAVELING FROM LED. TO PHOTODIODE (LIGHT SENSOR) (S
 1 CHANNEL OF LIQUID LEVEL MONITOR USING LED. & PHOTODETECTOR IN DETECTOR (SENSOR) HEAD, INCLUDI
 MICROPHONE & AMPLIFYING CCT WHOSE OUTPUT IS DIGITIZED USING ADC. BOARD, USED TO OBTAIN VALUE OF
 AGC. CCT USING PHOTOCONDUCTOR ISOLATOR TO PERFORM AGC. OVER DYNAMIC RANGE OF 60DB, WITH AMP

ADC. USING COMPARATOR & FF./SAME USING 2 FF.S TO ELIMINATE RUNT PULSES/CMOS. PULSE GENERATOR/CO
TACHOMETER CCT TO INTERPRET QUADRATURE SQUARE-WAVE SIGNALS FROM OPTICAL ENCODER
1 CHANNEL OF AMP. WITH DIFFERENTIAL INPUT, HIGH INPUT IMPEDANCE >500KOHM & OUTPUT IMPEDANCE OF -
3-CHIP SYNCHRONIZER & SEQUENCER CCT FOR CONTROLLING DMA. OPERATIONS FOR Z80-BASED SYSTEM (BB
BUCK ZVS QRC (ZERO-VOLTAGE-SWITCHED QUASI-RESONANT CONVERTER) WITH 5V OUT FOR 12V IN/FLYBACK
RTC.-LCD. KEYBOARD INTERFACE INCLUDING KEYBOARD ENCODER THAT SCANS UP TO 16 KEYS ARRANGED IN
DECLINATION CONTROL CCT OF MOTOR DRIVE SYSTEM, INCLUDING PRESET COUNTER & LOGIC SEQUENCE GEN
1 CHANNEL OF RECORDING SOIL MOISTURE METER TO MEASURE IMPEDANCE OF SOIL MOISTURE BLOCKS, INCL
RECEIVER (FREQUENCY DISCRIMINATOR)
VFC. ADC. CCT
SECURITY SYSTEM/TEMPERATURE SENSING CCT/CCT USING TRIAC DRIVER & TRIAC TO CONTROL HV. CCTS
ADC. FOR CONNECTING DAC. TO VIC-20 COMPUTER USER PORT, FOR INTERFACING 5-WIRE ROTOR/RELAY CCT T
BCC55 BCC-BUS PROTOTYPING (PROTO) BOARD/VIDEO (RELAY) MUX. BOARD/OPTOISOLATED INPUT (OPTOISOLA
N-CHANNEL GAASFET. BIAS REGULATOR INCLUDING INTEGRATOR/NPN BIPOLAR TRANSISTOR BIAS REGULATOR
OSCILLATOR FOR AUDIO & LOW RF. FREQUENCIES/OSCILLATOR/LF. AUDIO-TONE GENERATOR/WIEN-BRIDGE OS
RTC. FOR TMS 9900 16-BIT UP., USING 60HZ TIM-BASE GENERATOR, DIVIDE-BY-6 & DIVIDE-BY-10 COUNTERS, DUA
RECEIVER CCT FOR FIBER-OPTIC VIBRATION SENSOR (MICROPHONE) MADE OF PLASTIC, USING PHOTOTRANSIS
MICROPHONE EQUALIZER
DECIMAL COUNTING UNIT (DCU) THAT COUNTS BY 10'S & PRODUCES DECIMAL OUTPUT, USING DECADE COUNTER
1-CHIP TRANSCEIVER USING Q-MULTIPLIER EFFECT
7-CHANNEL SEQUENCER TO EXPAND CAPABILITIES OF SINGLE-CHANNEL RECORDING & CONDITIONING UNIT INT
AGC. UNIT & OTHER COMPONENTS CONSTITUTING ELECTRONIC SYSTEM FOR CD (CIRCULAR DICHROISM) INSTR
VFC. USING ASTABLE MULTIVIBRATOR (OSCILLATOR), TO MEASURE VOLTAGES FROM 0 TO 5V USING FREQUENC
MECHANICAL SWITCH DEBOUNCING CCT USING HEX SCHMITT TRIGGER & CMOS. ALARM TIMER, TO PREVENT CH
8-CHANNEL MONITOR FOR GO-NO GO SENSORS
MICROCOMPUTER INTERFACE CARD USING PIA. (VIA.) FOR EXTRACELLULAR RECORDING
BICYCLE SAFETY FLASHER USING CLOCK SOURCE (TIMER), UP-DOWN COUNTER WITH COUNT-RECYCLE-REVER
ARC (AUDIO RESEARCH CORPORATION) D-150 AMP., SHOWING LEFT CHANNEL, INCLUDING PARTIALLY CATHODE
1-CHIP ASTABLE OSCILLATOR THAT OFFERS DUTY-CYCLE CONTROL OVER WIDE FREQUENCY RANGE, USING DIG
ADC. WHOSE OUTPUT IS PROPORTIONAL TO NATURAL LOGARITHM OF INPUT VOLTAGE, BASED ON MACLAURIN'S
OSCILLATOR-TIMER CONFIGURED AS MONOSTABLE (1-SHOT)/SWITCH DEBOUNCER/TOUCH SWITCH USING MONO
VACUUM TUBE AMP. INCLUDING CLASS A INPUT STAGE, & DRIVER & OUTPUT STAGES/PS.S INCLUDING REGULAT
OSCILLATOR-DRIVER OF SOLAR PS. USING SOLAR-CELL ARRAY & NICD. BATTERY/NICD. CONVERTER USING N-C
LOCK-IN AMP. USING 4-QUADRANT ANALOG MULTIPLIER IC & PLL. IC, INPUT FOLLOWER & LPF., FOR DETECTION
1 CHANNEL OF INTERFACE TO OVERRIDE PUSH BUTTON SWITCHES USING APPLE IIE MICROCOMPUTER, THAT G
OSCILLATOR USING 555 TIMER/STABLE DIGITAL SINEWAVE GENERATOR WITH OUTPUT RANGE OF 100HZ TO 100
MICROCOMPUTER-CONTROLLED CCT TO GENERATE COMPLEX LINEAR ANALOG WAVEFORMS, USING 8-BIT DAC.
1-CHIP CAPACITANCE METER THAT MEASURES FULL SCALE FROM 500PF TO 500UF & REQUIRES NO CALIBRATIO
ADC. CCT USING HIGH SLEW RATE OA., 12-BIT SUCCESSIVE APPROXIMATION ADC. & TRACK-&-HOLD AMP./FIFO. S
3-CHANNEL LIGHT CHASER INCORPORATING 'REVERSING' SWITCH SO THAT DIRECTION OF 'CHASE' CAN BE CHA
OSCILLATOR DRIVING DECADE COUNTER (FOR USE IN DEVICE FOR PICKING 'LUCKY' NUMBERS IN LOTTERIES)
PACEMAKER TEST DEVICE CONSISTING OF REFRACTORY CCT, PULSE GENERATOR USING TIMING CHIP, VARIAB
MICROCOMPUTER BOARD INCLUDING UP., EPROM., RAM. & VIDEO DISPLAY CONTROLLER (CRTIC)/ADC. INTERFAC
RECORRECTION OF CCT IN ARTICLE ENTITLED "ELECTRONIC KNIGHTHOOD" (RAEL8804)
5-CHIP BIDIRECTIONAL CCT THAT CONVERTS RS-422 SIGNALS INTO RS-232-C PROTOCOL
ACCURATE DIGITAL-READOUT CAPACITANCE METER
OSCILLATOR, CHANNEL SEQUENCER, INITIALISER, ERROR DETECTOR & TRIGGER GATE/BUFFER, MUX., MODULA
DECODER (RECEIVER) USING 1-SHOT, THAT CAN TOLERATE CONSIDERABLE LINE DISTORTION, & DERIVES CLOC
ADC. INTERFACE CCT THAT DIGITIZES VALUE OF TRANSDUCER INTO 8-BIT SIGNAL FOR UP. DATA BUS

POCKELS CELL DRIVER/FET. AMP.

4 CHANNEL TELEMETRY CCT FOR 3 STRAIN GAUGES & 1 THERMIC REFERENCE, USING MUX., TIMER CCT, TRANSISTOR, & 741 OP-AMP. ROCKWELL UP.-BASED TIME-OF-ARRIVAL DIGITAL PHOTON CORRELATOR APPLICABLE TO GAUSSIAN & NON-GAUSSIAN SIGNALS. BACK-DIODE CCT/SIMPLE LOW COST MIXER/FM. DETECTOR BASED ON SIGNETICS PLL. IC, IN WHICH REFERENCE SIGNAL IS PROVIDED BY 1MCS RAM. MODULE THAT GENERATES SOFTWARE-PROGRAMMABLE OUTPUT VOLTAGE/COUNTING MODULE USING 741 OP-AMP. DECODER (RECEIVER) THAT IS 1-SHOT BASED FOR SIMPLICITY & TOLERATION OF LINE DISTORTION, USED IN SB

RECEIVE-ONLY COMPUTER INTERFACE FOR RECEPTION OF CW., RTTY., & ASCII.

VECTORCARDIOGRAM (V.C.G.) SYNTHESIZER (GENERATOR) INCLUDING EPROM. & SH. CCT, TRIGGERED BY HEART RATE MONITOR. ASCII. KEYBOARD TESTER TO DETECT FAULTY KEYS OR DATA LINES QUICKLY, USING EPROM. IN WHICH ASCII. C

H-COM SCANNING COMMUNICATOR, USING EPROM. TO STORE MNEMONICALLY KEYED PHRASES, TO SEND TEXT. MICROCONTROLLER-BASED INSTRUMENT THAT CONDITIONS ANY TYPE OF RECHARGEABLE BATTERY BY PERFORMING CHARGE & DISCHARGE CYCLES.

MICROCONTROLLED TELEPHONE ACCESSORY THAT PROVIDES 4 JUMPER-SELECTABLE MODES OF OPERATION, INCLUDING CALL WAITING, MICROCOMPUTER-CONTROLLED SYSTEM TO PRODUCE CONSTANT-AMPLITUDE PROGRAMMABLE-FREQUENCY AUDIO SIGNALS.

NICD. BATTERY CONDITIONER (DISCHARGER) USING RELAY THAT DROPS OUT AT 7.25V, PREVENTING DISCHARGE. ADC./DAC. SUBSYSTEM/DIGITAL MOTOR-SPEED CONTROLLER WITH CONVERTERS & MOTOR-DRIVE CCTS TO INTERFACE WITH MOTOR.

ADCM-48 DATA ACQUISITION & DIGITAL IO. (INTERFACE) MODULE FOR HP-48SX CALCULATOR, INCLUDING PROCE

MICROCOMPUTERIZED ARTIFICIAL LEG THAT CAN BE MADE TO SIMULATE NATURAL LEG ACTIVITIES, CUSTOMIZABLE. RECEIVER SECTION OF X-10 POWERHOUSE TW523 2-WAY POWER LINE INTERFACE, INCLUDING ZCD. & PS., TO RECEIVE

PACKET RADIO TEST SET. TNC. INCLUDING CPU., SERIAL IO., SDLC-HDLC., MODE, & MEMORY CONSISTING OF 2764 EPROM., 4016 RAM., & EPROM.

VECTRONICS HFT-1500 HF. ANTENNA TUNER THAT COVERS 160-10M, & HAS SWR.-POWER METERS & SWITCHED CAPACITORS.

TECHNO-WHIZZY 1 VOLTAGE REGULATOR CCT, SHOWING CORRECTION IN PLACEMENT OF DIODE (7ART9212)

4-CHANNEL CODE-ACTIVATED SWITCH TO ALLOW SWITCHING BETWEEN PERIPHERALS CONNECTED TO 1 SERIAL PORT.

MICROCOMPUTER MODULE USING CPU. & SMI (BBB)/CCT TO INTERFACE MICROCOMPUTER MODULE WITH SPECIFIC PERIPHERALS.

OSCILLATOR-PULSE GENERATOR OF EEPROM. PROGRAMMER/CCT FOR DATA SETUP & READOUT, USING THUMBLETT.

4 CHANNEL MEASUREMENT ELECTRONICS SUB-SYSTEM FOR DSI & IBM PC. BASED ON DATA TRANSLATION DT2860.

3-CHIP MICROCOMPUTER TO CONTROL SYNTHESIZED RADIO/CCT OF PIA. INTERFACING/BAND-SWITCHING SYSTEM.

MICROCONTROLLER (SELF-CONTAINED MICROCOMPUTER) (BBB)/MICROCONTROLLER BOARD LOGIC (2)/PS. & BATTERY.

TACHOMETER TESTER (CALIBRATOR) TO CHECK ACCURACY OF TACHOMETER, THAT GENERATES 12V SQUARE-WAVE.

MICROCONTROLLER BASED ON SINGLE CHIP COMPUTER/CRATE SUPERVISOR (BBB)/UNIPOLAR SUPPLY TO PRODUCE SQUARE-WAVE.

4 CHANNEL MIXER/MAGNETIC CARTRIDGE PREAMP.

1 CHANNEL OF QUADRATURE DEMODULATOR TO PRESERVE PHASE INFORMATION IN IF. SIGNAL AFTER DOWN-CONVERSION.

OSCILLATOR USING TRANSDUCER THAT FORMS PART OF RESONANCE CCT CONSISTING OF 2 CAPACITANCE DIODES.

1 CHANNEL OF BIAXIAL COUNTER FOR FRINGE COUNTING, USING PHOTOTRANSISTORS AS PHOTODETECTORS, & 741 OP-AMP.

VRC45 45MHZ IF.-ATV. RECEIVER MODULE.

MICROAUTOMATIC DAS. FOR COLLECTING, ACCUMULATING & COMPUTING DATA FROM OPTICAL-TYPE MEASUREMENTS.

INCANDESCENT-LIGHT DIMMER CCT THAT CAN BE USED TO CONTROL SOLDERING-IRON TEMPERATURE
BCC BUS DVM. INTERFACE USING DMM. CHIP/CCT TO INCREASE DVM. CAPACITY TO 8 CHANNELS/AC.-TO-DC. CO
MICROPOWER SWITCHING REGULATOR POWERED BY 8-CELL SOLAR ARRAY/LINEAR REGULATOR USING LOW-PO
OSCILLATOR, RING MODULATOR & FILTER SECTIONS OF CYMBAL SYNTHESIZER/ENVELOPE SHAPER & VCA. SEC
OSCILLATOR TO TEST TUNING DIAL
1-CYCLE PS. USING ZERO-VOLTAGE SWITCH CCT AS TRIGGER FUNCTION FOR CONTROL OF THYRISTORS & TRIA
4-CHANNEL MUX. CCT WITH SYNCHRONIZED TIME BASE GENERATOR, TO GENERATE SIMULTANEOUS DISPLAY C
ACCURATE & INEXPENSIVE TIMED CONSTANT CURRENT SOURCE USING IC VOLTAGE REGULATOR, WITH OUTPUT
1-CHIP PRECISION WINDOW COMPARATOR/CCT USING DAC.S TO HELP UP. CONTROL WINDOW COMPARATOR
RECEIVER AMP. CONSISTING OF AVANTEK UNIT AMP.S, EACH PRECEDED BY LIMITER INCLUDING INDUCTOR, CA
4-CHANNEL DIFFERENTIAL AMP. TO AUTOMATICALLY ADJUST GAIN OF MULTICHANNEL IA. AS EACH CHANNEL IS
SUCCESSIVE-APPROXIMATION ADC./INCREMENTAL ADAPTATION CCT/SYLLABIC ADAPTATION CCT USING ANALO
DAC. & LINEARIZER SECTION/VCXO & FREQUENCY DIVIDER
ADC. CONSISTING OF CLOCK, 12-BIT COUNTER, 16-BIT OUTPUT MUX. & FAIRCHILD SEMICONDUCTOR ADC. IC CO
OSCILLATOR DESIGNED USING NO EXTERNAL REACTIVE ELEMENTS, WITH FAIRLY GOOD SINUSOIDAL OSCILLATI
DAC. CURRENT BOOSTER WITH CURRENT GAIN OF PRECISELY 16, TO PROVIDE INCREASE IN OUTPUT CURRENT
4 CHANNEL MIXER
4 CHANNEL MIXER
VFC. USING CMOS. IC, WITH HIGHLY LINEAR RESPONSE & SMALL TEMPERATURE DRIFT
5-COMPONENT WIDEBAND RF. AMP. FOR VHF. RECEIVER, USING MINI CIRCUITS AMP. THAT COVERS RANGE OF F
ADC. INTERFACE CCT FOR EPR.-UP. INTERFACE, USING PIA./DAC. INTERFACE CCT TO OUTPUT DATA
JDC (JET DRIFT CHAMBER) FRONT END, SHOWING 4 CHANNELS OF 24 AMP.S ON 1 CARD, INCLUDING FUJITSU AM
MICROWELDING PS. WITH OUTPUT VOLTAGES TO 7KV, INCLUDING HV. & CURRENT BOOSTING SECTIONS/DC. PS
AFC. LOCK-IN CCT INCLUDING PREAMP., LOCK-IN AMP., LPF., DC. AMP., MODULATION DRIVE, ADDER, OSCILLATO
ACCURATE & FLEXIBLE 1-IC TIMEBASE GENERATOR TO DELIVER 1- & 10HZ SIGNALS FROM 50- OR 60HZ LINE FRE
MICRO-COMPUTER BASED MUX-30 EVENT INTERFACE TO CONNECT 32 CONTACT CLOSURE TYPE SENSORS TO C
MICROCOMPUTER CONTROLLED (BASED) PEAK DETECTOR FOR ASTRO FLIGHT 211 CONSTANT CURRENT NICD.
DAC. CCT USING PIA. & RADIO SHACK'S TRS-80 COLOR COMPUTER JOYSTICK PORT/LIGHT METER CCT USING SC
RTC. THAT KEEPS TICKING WHEN ATARI ST COMPUTER IS SWITCHED OFF, INSERTED BETWEEN CENTRONICS PF
1 CHANNEL OF PHOTODIODE DETECTOR AMP. INCLUDING TRANSCONDUCTANCE CCT, IC WITH GAIN OF 10, & GA
RECHARGEABLE DEVICE THAT FIRES XENON FLASH TUBE EVERY 7 TO 10S, POWERED BY 2 AA CELLS
VFC. CCT WITH PULSE-TO-WIDTH RATIO PROPORTIONAL TO INPUT VOLTAGE
ECC SYSTEM USING IC THAT OFFERS SINGLE ERROR CORRECTING & DOUBLE ERROR DETECTION TO PROTECT
BACKUP-BATTERY CCT FOR MC146818 UP., WITH EXTERNAL LATCHES FOR AS & CE-BAR (2)
ACCENTED BEAT METRONOME INCLUDING LF. OSCILLATOR, DIVIDE BY 'N' CCT, BARGRAPH DISPLAY, MIXER, MO
MICRO-SIZE (MINIATURE) SENSITIVE SMT. AMP. THAT CAN BE BUILT USING SMD. OR CONVENTIONAL COMPONENT
MICROPOWER CLOCK CCT USING CERAMIC RESONATOR TO GENERATE LF. CLOCK SIGNALS, WITH LOGIC ELIMIN
PACKETMAC MODEM THAT CONNECTS BETWEEN MACINTOSH COMPUTER'S SERIAL PORT & RADIO, USING AUDIO
CYCLE COUNTER COMPRISED OF THERMOCOUPLE PROBE, THERMOCOUPLE SIGNAL AMP., DVM., TEMPERATURE
MICROWAVE RADAR DETECTOR FOR VEHICLE, USING VARIABLE ELECTRONIC ATTENUATOR IC, AUDIO-AMP. IC &
MICROCONTROLLED DIGITAL ACQUISITION UNIT USING UP., AMPLIFYING SH. CCT, 12-BIT ADC. & VIA.
MICROCOMPUTER SECTION OF VIDEO TITLER, USING UP., PROGRAMMED 8K EPROM., WITH INTERFACE BUS ALL
RECORDING CCT FOR PHYSIO-CONTROL 6000 CENTRAL STATION MONITOR, INCLUDING SWITCH DECODER CCT.
OSCILLATOR WITH <20% AMPLITUDE CHANGE OVER 2.5 TO 60MHZ TUNING RANGE, WITH 50OHM OUTPUT IMPEDA
6-CHANNEL INSTRUMENT CLUSTER WITH ADC. AS TALKER & DAC. AS LISTENER, BUILT AROUND MC6802 CPU. (BE
MICROCONTROLLER CCT BASED ON 3870 MICROCOMPUTER WITH PROGRAMMABLE PORTS, IN WHICH SWITCHES
1 CHANNEL OF 8-CHANNEL CURRENT-TO-FREQUENCY CONVERTER FOR MEASURING (MONITORING) PHOTOMUL
MICROCONTROLLER CCT INCLUDING ADC., MUX. & PHOTODIODES (3)/STEPPER MOTOR DRIVER CCT INCLUDING
IRCOMM IR. HAND-HELD TRANSMITTER/IRCOMM REMOTE CONTROL IR. RECEIVER

MICROCOMPUTER USING FUNCTIONS OF MULTIFUNCTION PERIPHERAL (MFP), INCLUDING USART. SERIAL IO. & C
MICROCONTROLLER CARD CCT INCLUDING SERIAL INTERFACE TO DERIVE +-12V RS-232 LEVELS TO COMMUNICA
ACCURATE LOGIC PROBE THAT DETECTS HF.S & PULSES, WITH INPUT PROTECTED AGAINST HV.
OSCILLATOR WHOSE FREQUENCY CAN BE SET FROM 20HZ TO 220MHZ, & THAT CAN BE TURNED OFF OR ON WIT
FCC PART 68 INTERFACE USING TRANSFORMER/INTERFACE BETWEEN CERMETEK DAA (PRE-APPROVED PART 6
VFC. GIVING SINUSOIDAL OR SQUARE-WAVE OUTPUT, USING WIEN-BRIDGE OSCILLATOR
FACSIMILE TRANSMITTING CONVERTER (4)/CCT TO PROCESS VIDEO SIGNAL, WITH SWITCH SELECTING BETWEEN
MICE (MICROPROGRAMMED FILTER ENGINE) CPU. USING ECL. BIT SLICES (MEMORY INTERFACE, ALU., REGISTER
RECEIVER USING VARIABLE ATTENUATOR, DBM. (AS PRODUCT DETECTOR, & MIXER IN 455KHZ HARTLEY-OSCILL
OSCILLATOR CCT, GALVANOSTAT & ELECTROCHEMICAL CELL, INCLUDING HV. OA.S & QCM (QUARTZ CRYSTAL M
3-CHIP SERVOCONTROLLER USING CONTROLLER FOR BRUSHLESS DC. MOTOR CONTROL WITH HALL-EFFECT SE
EPCI-PGC TO UP. INTERFACE/INTERRUPT PRIORITIZING & VECTOR GENERATION LOGIC/MPCC-PGC BUS INTERFA
MECHANICAL SHOCK ALARM THAT EMITS LOUD, MODULATED TONE FOR 1MIN, USING TIMERS, PIEZOELECTRIC P
DECODER CCT TO CONVERT AM. RADIO TO RECEIVE C-QUAM STEREO BC.S
MICROCOMPUTER MODULE INCLUDING PROGRAMMABLE MEMORY, EPROM., IO., COUNTER, SYSTEM CLOCK, PIA
TDC. (BBB)/DERANDOMISER, CABLE INTERPOLATOR, FREE-RUNNING COUNTERS & ASSOCIATED LATCHES
MICROPHONE-DATA AMP./EXTERNAL LOOP AMP./NTSC. VIDEO MODULATOR/FM. TRANSMITTER AT 320MHZ, USIN
MICROPROGRAMMABLE PROCESSOR CONSISTING OF MICROPROGRAM CONTROLLER, MICROPROGRAM MEMOF
BUCK-BOOST REGULATOR TO CREATE NEGATIVE VOLTAGE FROM POSITIVE SUPPLY, INVERTING & STEPPING DO
SECRET VOTING MACHINE FOR 5 VOTERS, USING PRINCIPLE OF MAJORITY LOGIC/FOOLPROOF SECURITY SYSTE
OSCILLATOR CCT OF RECIRCULATING FLOW SYSTEM, TO MEASURE CHANGES IN COIL INDUCTANCE AS FUNCTIO
ASCII.-TO-MURRAY CONVERTER/CLOCK DRIVER CCT/TELEPRINTER INTERFACE
SECTION OF RECEIVER OF AZDEN '3000 2M FM. TRANSCIEVER (RIG), SHOWING WHERE TO EXTRACT RECEIVE DA
ACCELEROMETER TO ESTIMATE HUMAN ENERGY EXPENDITURE, INCLUDING 4.5 DIGIT LCD. & USING PIEZOELEC
MICROPHONE AMP. OF SSB. EXCITER FOR HF./CARRIER OSCILLATOR/BALANCED MODULATOR/CARRIER MIXER/C
MICROCOMPUTER MODE WITH KEYPAD & LCD., FOR ENERGY MANAGEMENT SYSTEM IN FACTORIES
BACK ELECTRET CONDENSER MICROPHONE TO DETECT OPTOACOUSTIC SIGNAL, & ASSOCIATED ELECTRONIC C
ADC. CCT & CONTROL-LOGIC CCT (INTERFACE) FOR APPLE II COMPUTER, THAT CONVERTS CONTINUOUSLY AT F
MICROPHONE INPUT MODULATION CCT/30MHZ FET. PREAMP./GUNN TRANSCIEVER USING SIGNETICS SINGLE-CH
DECODER CONSISTING OF SMART SPEAKER THAT PLUGS INTO SPEAKER JACK & REMAINS SILENT UNTIL ACTIVA
ADC. TO DISPLAY INTERFACE
MICROCOMPUTER INTERFACE USING 8 BIT ADC./OPTO ISOLATOR OUTPUT CCT/PIO DIRECT DRIVE OUTPUT CCT
BUCK REGULATOR WITH HYSTERESIS CURRENT-MODE CONTROLLER & FEED-FORWARD OF OUTPUT CURRENT
ADC. CCT INCLUDING ANALOG DEVICES 10-BIT ADC., SH., TRW MULTIPLIER-ACCUMULATOR CHIP (MAC), & START
ADC. CARD USING ANALOG DEVICES 12-BIT ADC. & MUX./DAC. CARD USING ANALOG DEVICES 12-BIT DAC., FF.S &
1 COUNTING BLOCK INCLUDING ADC. (BBB)/INTERFACE BETWEEN INTEL ISBC 517 IO. EXPANSION BOARD & COUN
ACCURATE DIGITAL CAPACITANCE METER
POCKET UP.-CONTROLLED ECG. WITH LCD. DISPLAY, CONSISTING OF ECG. AMP. & ADC. CONTROLLED THROUGH
ACCURATE ISOLATED CURRENT SOURCE THAT IS OUTPUT DEVICE FOR UP. SYSTEM BASED ON ZILOG Z80, DIRE
AGC. CCT USING 4-QUADRANT ANALOG MULTIPLIER, AMP. STAGE, ACTIVE FULL-WAVE RECTIFIER & INTEGRATOR
VACUUM TUBE HEATER REGULATOR (TUBE-SACING CCT) USING NOISELESS ZERO VOLTAGE SWITCHING (ZVS) &
CACHE MEMORY SYSTEM FOR 16-BIT UP., USING CACHE TAG RAM.S/32-BIT CACHE MEMORY SYSTEM/2-WAY SET
ADC. OF APPLE II BASED SYSTEM, TO FEED OUTPUT OF TACHOGENERATOR BACK TO MICROCOMPUTER/DAC. W
VOCAL EFFECTS MIXER TO PROVIDE SOUND REVERBERATIONS ("MULTIPLE-ECHO" EFFECT) IN RECORDINGS WH
DECODER CARD OF PSA-SYSTEM, USING 3-TO-8 LINE DECODER/10-BIT DAC. CARD/10-BIT ADC. CARD/RELAYS CA
DAC. WITH RUN-RESET, DIRECTION (UP-DOWN) & PULSE LINES FROM COMPUTER (PC.)/CCT OF POTENTIOSTAT C
GIC (GENERAL IMPEDANCE CONVERTER) FDNR (CD.) FILTER WITH LINEAR PHASE RESPONSE IN PASSBAND & NO
ADC. PORTION OF APPLE II INTERFACE, USING 100US 8-BIT 8-INPUT ADC., INCLUDING INPUT AMP./SOFTWARE-CC
ACCURATE STEPPED-RAMP CURRENT SOURCE TO PROVIDE BASE CURRENTS IN TRANSISTOR CURVE TRACER,

VFC. CCT THAT GENERATES 2MHZ FULL SCALE FOR 1V INPUT, INCLUDING DIFFERENTIAL COMPARATOR & P-CHANNEL MOSFET
 OSCILLOSCOPE VOLTAGE CALIBRATOR, HIGH-ACCURACY
 RECEIVER CCT (CONTROL TERMINAL ELECTRONICS) CONSISTING OF GAAS. PIN-FET. LIGHT-WAVE RECEIVER, MUX. & ADC. (INTERFACE) THAT CONNECTS TO PRINTER PORT, USING A-D CHIP THAT HAS 8-CHANNEL MUX. & TRANSFER FUNCTION
 ADC. CCT FOR 16-BIT RESOLUTION CONVERTER WITH DISPLAY, USING VFC.
 RECEIVER COMPATIBLE WITH ALL IR. REMOTE CONTROLS THAT TRANSMIT RC5 CODES, INCLUDING IC TO HANDLE 3-CHANNEL
 3-CHIP PSK. MODULATOR WITH PSK. SQUARE-WAVE OUTPUT, TO SEND BINARY DATA OVER LONG DISTANCES, USING VCO & PLL
 DECODER TO CONVERT NTSC. INPUT INTO RGB. SIGNALS, USING COMB-FILTER MODULE TO DERIVE CHROMINANCE SIGNALS
 LOCK INDICATOR TO DETECT LOCK CONDITION (STATE) IN CMOS. PLL., USING DUAL D FF. (THAT DETECTS PHASE LOCKING)
 1-CHIP HIGH-TEMPERATURE AUDIO ALARM TRIGGERED BY MUTE PIN OF DUAL AUDIO AMP., WITH 10W OUTPUT
 OSCILLATOR & BRIDGE DRIVE CCT/AMP. & RECTIFIER
 LOCAL & REMOTE STATIONS OF LOCAL-REMOTE VOLTAGE MONITORING NETWORK
 ADC. CCT THAT MEASURES VALUE OF UNKNOWN RESISTOR AS FRACTION OF KNOWN RESISTANCE, USING 10-BIT ADC.
 ADC. CCT FOR RADIO DIRECTION FINDING (RDF), THAT CONNECTS TO MICROCONTROLLER (CPU.), USING 8-BIT ADC.
 1 CHANNEL OF VACUUM TUBE PREAMP., INCLUDING INDIVIDUAL STAGE VOLTAGE REGULATORS/PS.'S PREREGULATED
 3-CHIP FUNCTION GENERATOR QUAD NAND GATE, SIERRA SEMICONDUCTOR EEPROM., & ANALOG DEVICES IC C
 DAC./CURRENT AMP./ADC.
 1 CHANNEL OF DUAL 20W RMS. CAR-RADIO BOOSTER AMP. WHOSE INPUT IS TAKEN FROM CAR RADIO'S LOUDSPEAKERS
 ADC. & MUX. OF POLAROGRAPH INTERFACE/OPTICALLY ISOLATED RS232 & DIGITAL INPUTS/SBC.
 RECORDING SETUP INCLUDING HEADSTAGE AMP.S CONSISTING OF OA.S CONFIGURED AS DC.-COUPLED, VOLTAGE FOLLOWERS
 ADC. INTERFACE (DATA-CAPTURE SYSTEM) TO LET PC. MEASURE TEMPERATURE, DISPLACEMENT, & ANY OTHER PHYSICAL QUANTITIES
 RTC. MODULE (2)/12 BIT DAC. (INTERFACE) MODULE (3)/12 BIT ADC. (INTEFACE) MODULE (2)/DISPLAY MODULE (2)
 ADC. INTERFACE LOGIC OF MICROCOMPUTER-ASSISTED HPLC. SYSTEM/TRACK-&-HOLD ANALOG AMP.-BUFFER/INTEGRATOR
 RECEIVER AMP. AT INPUT OF FADC (FLASH ADC.)/FADC INCLUDING 6-BIT FADC'S, 6-BIT BY 256 WORD FLASH MEMORY
 BACK-OFF (AUTOMATIC COMPENSATION) CCT TO AVOID DROOP PROBLEMS, USING SH. AMP.
 MICROCOMPUTER CCT WITH CPU., IO. & BUS, FOR MONITOR FOR AMBULATORY ECG. RECORDING & ANALYSIS/MONITORING
 ADC., MUX. & LOGIC FOR DATA CHANNEL SELECTION/SAMPLING RATE CONTROL CCT (BBB)/BUS ADAPTER/CHIP SELECT
 POKELS CELL CONTROLLER FEEDBACK SECTION USING CLOSED LOOP FEEDBACK CONTROL/FEEDFORWARD SECTION
 OSCILLATOR WHOSE FREQUENCY IS FUNCTION OF WATER LEVEL, & FREQUENCY DIVIDER THAT DIVIDES FREQUENCY
 ADC. ANALOG INPUT CCT/ADC. DIGITAL CCT/CRYSTAL-CONTROLLED TIME BASE IN ADC. USING ANALOG DEVICES
 RECEIVER MODULE OF REMOTE-CONTROL SYSTEM THAT ENABLES ONE TO CONTROL VCR. OR MUSIC SYSTEM FROM REMOTE CONTROL
 4-CHANNEL ADC. CCT FOR SYSTEM USING MC-1Z SBC./DAC., SSR. & EM. RELAY CCT/SENSE SWITCH & KEYPAD CONTROL
 AGC. CCT WITH TRUE-RMS. CONVERTER IN FEEDBACK LOOP, THAT MAINTAINS CONSTANT OUTPUT LEVEL OVER A WIDE RANGE OF INPUTS
 DAC. & RELATED CCTS/PS.
 DAC. CORRECTION CCT USING SUMMING AMP. USED FOR MEASUREMENT OF CODE DISTANCES, & 4.5 DIGIT DVM
 ADC. FOR COMMODORE 64 COMPUTER DAS., INCLUDING MUX. TO MUX. MULTICHANNEL ANALOG INPUT SIGNALS
 ACCURATE HF. AGC. CCT/3-IC CCT WHOSE OUTPUT IS ACCURATELY PROPORTIONAL TO DECIBEL VALUE OF RMS VOLTAGE
 OSCILLATOR FOR 3RD OVERTONE CRYSTAL-CONTROLLED APPLICATIONS/DEMONSTRATION CCT USING 200MHZ
 OSCILLATOR/BUTLER 3RD OVERTONE OSCILLATOR/LC. TUNED VFO./SERIES & PARALLEL TUNED VOLTAGE VARIATOR
 RECOGNIZER CCT USING FAST COMPARATOR, RC. INTEGRATOR & SCHMITT TRIGGER, TO RECOGNIZE MARKERS
 2-CHANNEL BASEBAND VIDEO SWITCHER PROVIDING 75OHM BUFFERED VIDEO-IO. PORTS, STEREO-COMPATIBLE
 MICROWAVE FEEDBACK AMP. USING GAAS. MESFET., WITH 6DB GAIN OVER FREQUENCY RANGE FROM 1 TO 11GHz
 2-CHANNEL HIGH-SPEED TIME-DOMAIN ANALYSER INCLUDING ZCD.S, OCTAVE RECIPROCAL GENERATOR, SHIFT REGISTER
 VIC-20 COMPUTER RESET SWITCH ADDED BETWEEN PINS OF IC TIMER
 MICROWAVE OSCILLATOR USING BJT. IN COMMON-BASE CONFIGURATION/S-BAND VCO. USING ACTIVE BIAS TO STABILIZE FREQUENCY
 DECODING CCT/CLOCK GENERATOR-TIMING LOGIC/PSEUDORANDOM GENERATOR/FIFO. BUFFER/HV. PULSER/DRIVER
 ADC. THAT IS ACCURATE TO 7 BITS WITH INPUT BUFFER
 RECEIVER PORTION OF AC. WIRELESS REMOTE CONTROL SYSTEM/TONE DECODER
 4 CHANNEL MONO AUDIO MIXER, INCLUDING MICROPHONE PREAMP. USING ULTRA LOW NOISE OA. & HAVING INPUT

BUCK CONVERTER WHOSE INPUT VOLTAGE OF 10V IS DOWN CONVERTED TO OUTPUT VOLTAGE OF 5V, COMPR
1 CHANNEL OF DEVICE TO CENTRALIZE VISIBLE & AUDIBLE OPERATING-STATUS INDICATION OF SEVERAL COMP
OSCILLATORS & MIXER OF MASS-THICKNESS MONITOR/PLL. DEMODULATOR/HIGH-GAIN DIFFERENTIATOR WHOS
ACCENTUATED BEAT METRONOME
TAC. PROVIDING 500PS TIME RESOLUTION & 127.5NS RANGE/MUX., DIFFERENTIAL AMP. & 8-BIT FLASH ADC./(BBB
ACCURATE PHASE METER
AGC. CCT FOR TEN-TEC CENTURY-21 RADIO (RECEIVER), THAT SAMPLES SIGNAL AT AUDIO STAGES & ADJUSTS
MACRO-SCRUBBER (MACROVISION STABILIZER) TO RESTORE SIGNALS FROM COPY-PROTECTED VIDEO TAPES T
VACUUM PHOTODIODE DETECTOR IN WHICH CURRENT EMITTED BY PHOTOEMITTING PLATE PRODUCES VOLTAGE
SECONDARY FREQUENCY STANDARD TO PRODUCE MARKERS AT 15, 50 & 100KHZ/WWV OR CHU CONVERTER FO
VFC. CCT USING HYBRID DEVICE, GIVING PULSE OUTPUT & SQUARE WAVE OUTPUT, WITH 10KHZ FULL SCALE
AGC. CCT WITH 1800:1 DYNAMIC RANGE/CCTS FOR DIGITAL CONTROL OF CURRENT AMPLIFICATION & ATTENUAT
UNCOMPENSATED DUAL-INPUT IDEAL DIFFERENTIATOR USING HIGH GAIN OA.S, WITH SINGLE RESISTOR CONTR
OSCILLATOR WITH FREE-RUNNING FREQUENCY OF 140MHZ, USING 180DEG PHASE-SHIFT SAW. FILTER/SAME, W
MICROPHONE TRANSFORMER SUBSTITUTE CCT
DAC. MULTIPLIER/INVERTER/CURRENT GENERATOR/DEPHASOR/BANDPASS FILTER/DETECTOR
ACCURATE, EASY-TO-USE, LINEAR, SELF-CALIBRATING ANALOG OHMMETER
RECEIVER CCT USING PHOTODIODE & AMP./BOOTSTRAP TRANSIMPEDANCE AMP. INCLUDING UNITY GAIN STAGE
VFC. MODULE TO CARRY OUT ADC./MULTICHANNEL INTERFACING UNIT INTENDED FOR USE WITH 16-BIT MINICO
POCKELS CELL DRIVER (AVALANCHE TRANSISTOR DRIVER)
PAC LP-3 HYBRIDIZED LOW NOISE PREAMP. USING INPUT FET., 2 CURRENT GENERATORS FOR LARGE DYNAMIC
1 CHANNEL OF MULT-CHANNEL WAVEFORM GENERATOR TO TEST NEUROELECTRIC SIGNAL PROCESSING SYST
1 CHANNEL OF 8FOLD MODULE FOR GENERATION OF VERY FAST PULSES WITH CALIBRATED CHARGE OUTPUT/O
D-C RECEIVER INCLUDING TR. SWITCH/VFO. & MOD. MAVTI-40 TRANSMITTER/UNREGULATED PS.
ADC. CCT WITH DITHER PROVIDED BY BAND-LIMITED NOISE FROM NOISY ZENER DIODE, TO IMPROVE RESOLUTIO
VFC. ADC. IN WHICH VFC. CONVERTS 0-10V INPUT TO 10-100KHZ OUTPUT BY OFFSETTING VFC. INPUT, INCLUDIN
8-CHANNEL DVM. USING MUX.S & DVM. CHIP SET THAT PERFORMS ADC., WITH FULL-SCALE READING OF 1.9999V
RECEIVER CCT OF ANALOG OPTICAL LINK, USING RECEIVER CONTAINING PIN PHOTODIODE & LOW-NOISE PREAMP
BUCK-TYPE CONVERTER USING SWITCHING REGULATOR THAT CONTROLS 5V 5A OUTPUT, WITH LINEAR REGULA
1 CHANNEL OF PHONO (PHONOGRAPH) PREAMP. USING OA. FEEDBACK AMP. THAT FORMS RIAA FREQUENCY RO
4-CHANNEL DIGITAL OSCILLOSCOPE USING PIC, 64KX4 DRAM., RESISTOR LADDER (VOLTAGE-DIVIDING) DAC. & R
MICRO MARQUEE THAT DISPLAYS SCROLLING MESSAGES ON LCD. MODULE, USING PIC (5V, 8-BIT CMOS. MICRO
LLC-TYPE SERIES RESONANT CONVERTER (SRC) DERIVED BY ADDING INDUCTOR IN PARALLEL WITH RESONANT
TAC. USING TTL. JK FF., LOW LEAKAGE OA., ANALOG SWITCH TO MUX. PULSE HEIGHT, & FAST FET. SWITCH FOR
OSCILLOSCOPE PREAMP. USING DIFFERENTIAL VIDEO AMP. IC THAT ALLOWS SELECTABLE AMPLIFICATION (GAIN
ADC. USING MOSTEK 8 BIT 16 CHANNEL ADC. IC, & COMPUTER INTERFACE CONSISTING OF 3 LOW POWER SCHO
1 CHANNEL OF COUNTING DEVICE FOR TIME ANALYSIS OF LIGHT PULSES BY TAC., WITH CAPACITY OF 10^{12} PUL
3-CHIP CCT TO READ & WRITE (PROGRAM) SGS-THOMSON ZEROPOWER 2KX8 SRAM.S WITH INTEGRAL LITHIUM B
INCANDESCENT LIGHT FLASHER USING SCR./BATTERY-TRIGGERED AC. SWITCH CCT
2-CHANNEL LINEAR ADC. USING PADDLE CONTROL, INCLUDING RAMP GENERATOR & COMPARATOR TO LINEARL
2-CHANNEL ANALOGUE MEASUREMENT AMP. TO MAGNIFY SENSOR OUTPUTS, INCLUDING ATTENUATORS, SELE
AGC.-CONTROLLED OSCILLATOR TO MEASURE UNKNOWN INDUCTANCE & CAPACITANCE (OF FERRITE-CORE TR
DAC.-ADC. FILTER AMP. WITH INPUT & OUTPUT BUFFERS & SWITCHABLE AC. OR DC. COUPLING
MICROPOWER PPM. CONSISTING OF MONOSTABLE, INVERTERS, OA. & MOSFET., & JFET. TO PROVIDE CONSTAN
ACCURATE & SIMPLE JOSEPHSON JUNCTION ELECTRONIC ANALOG/CURRENT SOURCE TO BIAS JUNCTION/NETV
INCREDIBLE SOUND EFFECTS GENERATOR USING TEXAS INSTRUMENTS TL507C ADC.
3-CHIP STEPPER-MOTOR CONTROLLER THAT CAN BE PROGRAMMED TO GENERATE LOGIC SEQUENCE FOR ANY
MICROPHONE AMP./MOVING-COIL PICKUP HEAD AMP./STEREO IMAGE-WIDTH MODULE/IMPULSE-NOISE BLANKER
OSCILLATOR/VFC.S BASED ON CHARGE-BALANCING PRINCIPLE (2)/12-BIT SUCCESSIVE-APPROXIMATION ADC./12

ADC. SECTION/POSITIVE PEAK DETECTOR SECTION/NEGATIVE PEAK DETECTOR SECTION/DAC. CCT/ANALOG OUT
TDC. MEASUREMENT CCT/CCT TO PERFORM ADC. MEASUREMENT/COUNTER & LATCH CCTS, INCLUDING GRAY CODE
OSCILLATOR, SYNC. & RESET CCTS/INPUT STAGE/AUTORANGE CCT/PS./DISPLAY
3-COMPONENT ASTABLE MULTIVIBRATOR THAT ACHIEVES NEAR-50% DUTY CYCLE, USING CMOS. TIMER
MICROPHONE PREAMP. CONSISTING OF DIFFERENTIAL AMP. THAT GIVES BALANCED-TO-UNBALANCED CONVERSION
VECTOR PROCESSING SYSTEM FOR HIGH-PERFORMANCE ARRAY-PROCESSING APPLICATION/CCT SHOWING ALL
1 COMPARATOR CHANNEL OF PULSED-RADIATION IC TEST SYSTEM, INCLUDING VOLTAGE COMPARATOR, TRANS
AIC-TMS320C25 INTERFACE CCT TO CONNECT DSP. TO TEXAS INSTRUMENTS (TI) ANALOG INTERFACE CHIP (AIC)
RECEIVER FOR LONG & MEDIUM WAVES/OSCILLATOR & FREQUENCY CHANGER STAGE/AUDIO AMP./DEMODULATOR
TAC. THAT MEASURES TIME INTERVAL (DRIFT TIME)/QVC (CHARGE-TO-VOLTAGE CONVERTER) THAT MEASURES
ACCURATE & STABLE TEMPERATURE-MEASUREMENT CCT PROVIDING LINEAR OUTPUT OF 1MV-DEGREE C, USING
MICRO CHANNEL POS SETUP/MICRO CHANNEL INTERFACE TO CEP (COMPRESSION-EXPANSION PROCESSOR) S
MICROPROGRAMMABLE PROCESSOR BASED ON AM2900 FAMILY OF BIT SLICES, CONFORMING TO CAMAC STANDARDS
RECTIFIERS (3)/AC.-DC. CONVERTERS (3)/PEAK DETECTOR/VOLTMETER/AMMETER/OHMMETERS (2)/MILLI VOLTMETER
RLC. ATTENUATING CCT OF ELECTRONICALLY AIDED TOROIDAL CURRENT TRANSFORMER, USED FOR OUTER FEEDBACK
DAC./DAC. WITH BIPOLAR REFERENCE SIGNAL/4-QUADRANT MULTIPLIER/RATIOMETRIC ADC.
MICROPHONE AMP. HAVING GAIN OF 100, USING OA.
OSCILLATOR-DIVIDER CCT/DELAY & PULSE-WIDTH CCTS USING HALF-MONOSTABLES COMPOSED OF SCHMITT TRIGGER
OCCLUSAL SOUND LOCALISATION CCT FOR GNATHOSONIC ANALYSER, USING MICROPHONES, CMOS. FF.S, AMP
RTC. INTERFACE FOR BBC MICROCOMPUTER & OTHER ACORN COMPUTERS, INCLUDING CRYSTAL OSCILLATOR
MSC-9305 TRANSLATOR TO HANDLE DISK CONTROL, INCLUDING GPIB. ADAPTOR, UP., DISK IO. PROCESSOR, DMA
8-CHANNEL ANALOG MEAN-TIMER THAT PROVIDES MEAN TIME OF 2 ECL. SIGNALS WITH BETTER THAN 100PS PRECISION
MICROPHONE SIGNAL CONDITIONING CCT TO CONDITION ELECTRET MICROPHONE OUTPUT PRIOR TO DIGITIZATION
POCKET LED. COLOR ORGAN USING 3 ACTIVE FILTERS THAT SEPARATE AUDIO INPUT SIGNAL INTO LF.S, MEDIUM
3-CHIP VIDEO GRAPHICS MICROSYSTEM SHOWING VIDEO DISPLAY PROCESSOR CHIPS INTERFACED WITH DRAM
DICHOTIC DETECTOR FOR CW., FOR RECEIVER USING 455KHZ IF., TO REJECT UNWANTED SIGNALS
VECTOR GRAPHICS GENERATOR CONSISTING OF DIGITAL INPUT & CONTROL SECTION & 2 LINEAR SCAN GENERATORS
MICROCOMPUTER-CONTROLLED ROTATING-SAMPLE MAGNETOMETER ELECTRONICS/POSITION & ROTATION SENSORS
ACCURATE CONSTANT-CURRENT SOURCE
NICD. CHARGER-REGENERATOR
INCREMENTAL TIMER
VECTOR-GRAPHICS DISPLAY SYSTEM USING UP. TO ACCEPT COMMANDS FROM HOST COMPUTER IN FORM OF EBCDIC
TSCA (TWIN-SCA.) USING COMPARATORS & AND-GATES/ROUTING-COINCIDENCE & INTERFACE BOARD FOR TAND
POCKET CALIBRATOR PROVIDING DC. & AC.-WAVEFORM OUTPUTS, HIGH-PRECISION RESISTANCES, & 60HZ TIME
MICROSTRIPLINE HIGH POWER NARROW-BAND 1.6GHZ+-10MHZ L BAND TELEMETRY TRANSMITTER CLASS 'C' AM
MICROPHONE TRIGGER (TIMING) CCT FOR SYNCHRONIZATION OF DATA ACQUISITION WITH MOTION OF COMPRESSOR
MICROPOWER PFM. OF FIBER OPTIC SYSTEM THAT MAKES SENSOR VOLTAGE MEASUREMENTS/PULSE FREQUENCY
OSCILLATOR WHOSE FREQUENCY CAN BE VARIED OVER WIDE RANGE WITH POTENTIOMETER, TO DRIVE 2-PHASE
MICROMAPPED CONTROL SYSTEM INCLUDING 74S472 PROM.S, WITH ABILITY TO SELECT NEXT MICROINSTRUCTION
AGC. AUDIO AMP. WHOSE ATTACK & RELEASE TIMES CAN BE ADJUSTED BY ATTACK SWITCH & AGC. RELEASE POINT
NICAM (NEAR-INSTANTANEOUSLY COMPANDED AUDIO MUX.) DECODER USING PROCESSOR CONTAINING DIGITAL
NICD. RESTORER-CHARGER THAT BREAKS DOWN INTERNAL SHORT BY BRIEFLY APPLYING HIGH CURRENT PULSES
ENCODING-DECODING CCT THAT INCLUDES 3 PLD.S (BBB)
RTC. CCT USING NATIONAL SEMICONDUCTOR CLOCK-CALENDAR CHIP, BIDIRECTIONAL BUS DRIVER, WAIT-STATE
OSCILLATOR USING OA., & INCANDESCENT LAMP TO CONTROL FEEDBACK, TO GENERATE SINE WAVE WITH LOW
OSCILLATOR OF METER THAT NULLIFIES EFFECT OF OHMIC LOSSES WHEN MEASURING/METERING CCT/RECTIFIED
INCANDESCENT LAMP-FAILURE DETECTION CCT FOR CASES IN WHICH LAMP SERVES AS CRITICAL WARNING, USING
1-CHIP ELECTRICAL CONDUCTIVITY CHECKER
RTC. BOARD FOR COMPUTER, WITH BATTERY BACK-UP TO KEEP CORRECT TIME & DATE

Sheet1

POCKET-SIZE ELECTRONIC CHRISTMAS TREE TO GIVE HOLIDAY LIGHTING & FESTIVE LOOK, USING LED. FLASHES
RECEIVER SECTION OF 30M CW.-AM. QRP TRANSCEIVER, INCLUDING RF. PREAMP. & 2 IF. AMP. STAGES (2)/TRAN
ADC.

1 CHANNEL OF DIGITAL OUTPUT CARD, INCLUDING 2-TRANSISTOR AMP., COMPARATOR, MULTIVIBRATOR & DIFFERENTIAL
1 CHANNEL OF DISCRIMINATOR USING LEADING EDGE & CONSTANT FRACTION TRIGGER TECHNIQUES, & POWER
ACCURATE ENVELOPE (PRECISION) DETECTOR USING 2 O.A.S CONNECTED AS PRECISION RECTIFIER, & O.A. IN B
TNC. ***CONNECTED WITH INDICATOR ALARM FOR CONNECTION TO TAPR, HEATH & AEA TNC.S

RTC. CCT TO PROVIDE ONCE PER SECOND (1HZ) PULSE TO UPDATE SDK-85 (INTEL MCS-85 SYSTEM DESIGN KIT)

NICD. BATTERY TESTER USING 2 3-TERMINAL VOLTAGE REGULATORS, COMPARATOR, TRANSISTOR & BRIDGE R

8-CHANNEL AUDIO SWITCHER THAT ALLOWS 1 OF 8 DIFFERENT STEREO-AUDIO SOURCES TO BE FED TO 1 PAIR

NICD. BATTERY RESTORER (ZAPPER) AS MOD. BY K4GOK, INCLUDING CURRENT-LIMITING REGULATOR/NICD. RE

DECODER BOARD TO DETECT TONE PAIRS FROM TOUCH-TONE PHONES OR DETECT PULSES FROM ROTARY-DIA

AGC. CCTS/VIDEO CCTS TO PROVIDE SUBCARRIER FILTERING, DETECTION & POST-DETECTION FILTERING/LINE

OSCILLATOR USING VOLTAGE COMPARATOR IC CONNECTED AS AMP. WITH POSITIVE FEEDBACK, BUT CONTROL

VFC. & FREQUENCY-TO-VOLTAGE (F-V) CONVERTER CCTS/RF. ATTENUATOR, PHASE MODULATOR & MODULATOR

RECORD CCT THAT PROVIDES BURST FOR 1 & SILENCE FOR ZERO/PLAYBACK CCT CONSISTING OF RECTIFICATI

ENCODER-DECODER WIRED FOR TRANSMITTER & RECEIVER OPERATION (2)/TRANSMITTER RF. OSCILLATOR/RE

RECEIVER CONVERTER THAT, WHEN USED WITH VFO., FORMS DIRECT CONVERSION RECEIVER TO TUNE 80 & 40

ETCHING CURRENT DIFFERENTIAL CONTROL UNIT INCLUDING ADJUSTABLE DC. POWER, COMPARATOR, DIFFER

RECEIVER USING TWEETER AS SOUND-DETECTION ELEMENT/OSCILLATOR-DISTRIBUTION-AMP./SPEAKER DRIVE

PACING ARTEFACT FILTER SYSTEM (SYNCHRONISING CCT) THAT ACCEPTS INPUTS FROM GRASS SQUARE-WAVE

RECEIVER COR (CARRIER OPERATED RELAY) CCT (2)/5K LINK CONTROLLER TO EXPAND REPEATER SYSTEM INT

5-CHIP DSP. EXPERIMENTATION UNIT ABLE TO RUN IN SPECTRUM ANALYSIS, DFT, SAMPLING, ALIASING, FIR. LPP

MSC-9305 CONTROLLER USING MSC-9000-FAMILY CONTROLLER MODULE, ALLOWING COMPUTERS HAVING IEEE-

INCREMENTAL OPTICAL SHAFT ENCODER CONSISTING OF MULT-CHANNEL PHOTODETECTOR SYSTEM, SIGNAL C

1 CHANNEL OF PROBE SIGNAL CONDITIONING UNIT, INCLUDING BOOTSTRAP CURRENT-VOLTAGE CONVERTER C

MICROPOWER COUNTING INTEGRATOR WHOSE COUNT IS RECORDED BY LCD. POCKET CALCULATOR, USING CH

BICYCLE MEASUREMENT SYSTEM THAT MEASURES ROTATIONAL SPEED OF WHEEL & PRODUCES POWER, TORQ

ADC. USING PROGRESSIVE CLOCK TO IMPROVE SPEED/CCT PROVIDING GATTI SLIDING-SCALE DNL IMPROVEME

OSCILLATOR, RF. MIXER, & PLL. CCTS OF ELECTRONICS ASSOCIATED WITH HIGH-BW. FORCE SENSOR, TO DETE

AGC. METERING CCT THAT IS PLACED IN VIDEO, OR BASEBAND PATH, BETWEEN MICROWAVE RECEIVER & TRAN

NICD. CHARGER THAT WILL CHARGE FROM 1 TO 18 CELLS WITH MAH RATING FROM 100MAH TO 1500MAH, & AUT

RECEIVER INCLUDING RF. OSCILLATOR & RF. POWER AMP./TRANSMITTER INCLUDING PRE-AMP., DEMODULATOR

NICD. BATTERY VOLTAGE-LIMITED PULSE CHARGER WITH PULSE DURATION OF 8.33MS & 16.67MS BETWEEN PUL

EXCITATION LED. CONTROLLER THAT CONTROLS POWER TO ACTINIC LIGHT SOURCE/DETECTOR AMP. TO DETE

VFC./TAPE HEAD DRIVER WHICH GIVES POSITIVE & NEGATIVE PULSES ALTERNATELY TO THE MAGNETIC TAPE W

BBC MICROCOMPUTER & INTERFACE, INCLUDING THERMISTOR & PRESSURE SENSOR (BBB)

ADC. CCT OF MINI-MITTER SIGNALS, THAT OBTAINS ANALOG SIGNALS FROM 2 RADIOS, CONVERTS THEM TO TTL

VACUUM IONISATION GAUGE METER USING PWM. SWITCHING CCT TO STABILISE ELECTRON EMISSION CURREN

OSCILLATOR & LED. DRIVER, CONSISTING OF WIEN BRIDGE USING FET., AT 1KHZ/RECEIVER USING PHOTODIODE

NICOLET SIGNAL INTERFACE TO CONVERT CHANNEL-D +-12V LEVELS TO TTL. LEVELS (2)/TRIGGER CCT WITH VA

ADC. OF "FEEDBACK" CONTROL CCT TO REGULATE GAS FLOW IN ARGON ION GUN SYSTEM, USING BAR GRAPH I

5-CHIP CCT TO ADAPT OSCILLOSCOPE FOR USE AS LOGIC ANALYZER, PERMITTING NUMERICAL DISPLAY OF 1'S

SUCCESSIVE APPROXIMATION ADC. WHOSE OUTPUT IS DIGITALLY COMPENSATED USING PROM., FOR HIGH SPE

EXCITATION SYSTEM USED IN PORTABLE DC. FIELD MAGNETOMETER, THAT PERMITS LOWEST POWER CONSUM

1 CHANNEL OF AUDIO SWITCH BOX TO SWITCH CONNECTIONS BETWEEN AUDIO COMPONENTS, USING 4W AUDI

UPCONVERTER CCTS

EXCITER/DRIVER & POWER-AMP. STAGES/PS. & KEYS FOR TRANSMITTER

BACK END OF PHASE-SWITCHING INTERFEROMETER (RADIOMETER)/PHASE SWITCH/PS./DIODE DETECTOR

NICD. BATTERY CHARGING INDICATOR

NICD. BATTERY CHARGER WITH REVERSE CONNECTION SAFEGUARD

VFC.

ADC.-DAC. BOARD FOR SYNTHESIS, & SAMPLING AT MAXIMUM FREQUENCY OF 83KHZ/CCT USING DAC. & POWER RECORD SECTION TO CONVERT ANALOGUE SIGNALS TO DIGITAL WORD & FEED UART./REPLAY CCT INCLUDING ADC. CCT TO CHANGE SQUARE WAVE AMPLITUDE INTO DIGITAL VALUE (BBB)

OSCILLATOR CCT FOR CANTILEVER GAP CAPACITANCE DETERMINATION

OSCILLOSCOPE TIME-BASE GENERATOR THAT PROVIDES Z-AXIS MODULATION FOR SCOPES

MICROCOMPUTER-BASED TRIGGERING CCT FOR TRIAC AC. VOLTAGE CONTROLLER TO CONVERT OUTPUT FROM

BCC180 MULTITASKING SBC.-CONTROLLER USING HITACHI HD64180 CMOS. Z80 INSTRUCTION-COMPATIBLE 8-BIT

VIC-20 COMPUTER INTERFACE & RELAY DRIVER/COMPUTER INTERFACE & METEOR CAMERA SHUTTER SOLENOID

EXCLUSIVE-OR LOGIC, INCLUDING EXCLUSIVE-OR GATES WHOSE OUTPUTS ARE TIED TOGETHER THROUGH RESISTORS

OSCILLATOR USING SCHMITT TRIGGER, WHOSE OUTPUT FREQUENCY, AFTER RESETTING, DECAYS EXPONENTIALLY

MICROPHONE PREAMP. CCTS THAT CAN BE USED WITH ICOM & KENWOOD TRANSCEIVERS (2)

NICD.-BATTERY MEMORY BACKUP FOR AZDEN PCS-2000 2M TRANSCEIVER

N-CHANNEL DUAL GATE MOSFET. RF. (VHF.) AMP. WITH CENTER FREQUENCY OF 200MHZ, BW. OF 10MHZ, & SOUND

EXCELLENT FLOATING VOLTAGE SOURCE FOR FREQUENCIES <1MHZ, WITH VERY LOW IMPEDANCE LOOKING BACKWARD

VXCO FOR ACSSB. TRANSCEIVER, USING HIGH Q REACTANCE DIODE (TRW "VARICAP" DIODE), PROVIDING UP TO 100W

OSCILLATOR CCT TO TEST CRYSTALS

4 CHANNEL ADC. TO CONNECT TO COMPUTER, USING INPUT COMPARATORS, TO DETERMINE INPUT VALUE USING

MICROPHONE AMP. WITH CONTROL CCT USING \$1 SSR. TO DISCONNECT OUTPUT OF OA. UNLESS POSITIVE & NEGATIVE

PACEMAKER INHIBITOR THAT ENABLES PACEMAKER PATIENT'S NATIVE RHYTHM TO BE DISPLAYED EVEN IF RATE

OSCILLATOR CCT FOR CAPACITOR GAP MEASUREMENTS, INCLUDING OPTO ISOLATOR

NICD. DISCHARGER WITH POLARITY PROTECTION & SHORTED-CELL DETECTION/TIMER/CONDITIONER-DISCHARGER

OSCILLATORS TUNED USING VVC (VOLTAGE-VARIABLE CAPACITANCE) DIODES (2)/OSCILLATOR TUNED USING TRIMMER

OSCILLATOR FOR FREQUENCY-ERROR MEASUREMENTS, THAT COVERS 4 TO 5.3MHZ RANGE

4-CHANNEL AUDIO MUX./AUDIO SIREN/VOLTAGE REGULATOR/CONSTANT CURRENT SOURCE/CLASS A AMP.

VVC-TUNED (VOLTAGE VARIABLE CAPACITANCE-TUNED) VFO. USING TUNING DIODES & JFET., & BUFFER-AMP. TO

OSCILLATOR THAT DISSIPATES <10⁻⁹W IN TANK CCT IN CRYOSTAT, SUITABLE FOR SUSCEPTIBILITY MEASUREMENTS

OSCILLATOR THAT ALLOWS USE OF HEATHKIT(R) HW-5400 TRANSCEIVER AT FREQUENCY SPLITS MUCH GREATER THAN

MICROPHONE PREAMP. WITH MICROPHONE PHANTOM POWERED & DC. RESTORER TO REMOVE DC. OFFSETS FROM

1 CHANNEL REGULATED PS. (REGULATOR) FOR MAGNET CONSISTING OF HELMHOLTZ COILS/COMPUTER-MAGNETIC

EXCITATION CCT TO GENERATE PULSE WAVEFORM (PULSE FORMING CCT), INCLUDING RF. TRANSFORMER, & CRYSTAL

MECHANICALLY PHASE-CONTROLLED ROTATOR FOR OPTICAL POLARIZERS, TO PRODUCE AM. OF BROAD BAND

RECEIVER PAIR WITH GOOD NOISE REJECTION FOR SHORT DISTANCE/LONG-LINE DATA-COMMUNICATIONS SYSTEMS

DECODING LOGIC FOR ABSOLUTE 360-POSITION PSEUDORANDOM SHAFT ENCODER, INCLUDING SEQUENTIAL COUNTER

1 CHANNEL OF 12 CHANNEL HIGH SPEED PIN DIODE SWITCH DRIVER CCT USING HIGH SPEED TRANSISTORS WITH

RTC. BACKUP CCT INCLUDING DIODE TO ISOLATE BATTERY FROM PS. DURING NORMAL OPERATION

OSCILLATOR/RF. CALIBRATOR/CCT SHOWING RF. CALIBRATOR ALIGNMENT DETAIL

VSCD (VOLTAGE SENSE CURRENT-DRIVE) INDUCTOR-ENHANCING CCT FOR DC.-CONVERTERS WITH 1MHZ SWITCHING

CYCLER-TESTER TO TEST & CYCLE NICD. TRANSMITTER & RECEIVER BATTERY PACKS, WITH DISCHARGE CURRENT

RECEIVER-NOISE MEASUREMENT SYSTEM INCLUDING NOISE GENERATOR FOLLOWED BY 50OHM ATTENUATOR

SECONDARY ELECTRON MULTIPLIER (SEM) GAIN CHANGE RELAY TO MONITOR REACTANT & PRODUCT ION CURRENTS

LOCAL (60MA CURRENT) LOOP SUPPLY FOR TELEPRINTER

OSCILLOSCOPE-BASED DIODE MATCHING CCT/CRYSTAL TESTER USING PIERCE OSCILLATOR/TUNABLE TONE GENERATOR

POCKELS CELL DRIVER TO GENERATE CELL VOLTAGE, ALLOWING SIGN OF CELL POTENTIAL TO BE CHOSEN FROM

1 CHANNEL OF 500MHZ DIGITIZER, INCLUDING TIME DE-MUX., TEKTRONIX HYBRID INCLUDING 2 250MSAMPLE AND

RECEIVER-CCT MOD.S TO ASTRO 103/PART OF ASTRO 102BX LPF.-BANDSWITCH BOARD

OSCILLATOR CCT THAT OSCILLATES ONLY IF GOOD CRYSTAL IS CONNECTED TO TEST CLIPS, & CAUSES LED. TO

2-CHIP ARCNET NODE CONSISTING OF ARCNET IC CONNECTED TO MICROCONTROLLER (UC) WITH NONMUX.ED I
PICTURE-IN-PICTURE APPLICATION CCT OF PIP (PICTURE-INSERTION-PROCESSOR) DEVICES INCLUDING ADC.
3 CHANNEL DAC. INTERFACE CARD USING EXPANSION SLOT OF IBM PC., INCLUDING 3 12-BIT DAC.S & PARALLEL
2-CHANNEL MUX. USING SWOP (SWITCHABLE-INPUT OA.), WITH GAINS OF 8/PROGRAMMED-GAIN AMP. WITH GAIN
OSCILLATOR USING SERIES-RESONANT CRYSTAL/RECEIVING CONVERTER ADAPTER INCLUDING MIXER & OSCIL.
MICROPHONE FOR COBRA MODEL 66GTL REMOTE (HIDEAWAY) 40-CHANNEL CB. MOBILE RADIO, WITH CONTROL
PICTURE PHONE FOR TRANSMISSION OF TV. PICTURES VIA TELEPHONE, USING VIDEO CAMERA & SSTV.
MICROLOG AIR-1 RTTY., MORSE, & AMTOR UNIT
MICROCOMPUTER OXIMETER TO MEASURE PERCENT OF OXYHEMOGLOBIN IN FLOWING WHOLE BLOOD, INCLUD
OSCILLATORS USED FOR FM. & PM. GENERATORS IN CRYSTAL-CONTROLLED SYSTEM/AUDIO CHANNEL IN FM. TR
AGC. CCT USING JFET. TO CONTROL INPUT ATTENUATION, PROVIDING DYNAMIC RANGE OF +-20DBM, OPERATIN
1 CHANNEL OF 7-CHANNEL PHOTO-OPTICAL TRANSDUCER-AMP. CCT USING IR. LED.-PHOTOTRANSISTOR, WITH
RECORDING & MEASUREMENT SYSTEM INCLUDING OA., POTENTIOMETRIC AMP., OFFSET UNIT, RECORDER, MILL
GIC (GENERALIZED IMMITTANCE CONVERTER) FILTER TO SIMULATE LC. LADDER NETWORK'S TRANSFER FUNCTI
RECEIVER OF RI-RPI (RADIANT INTENSITY-RADIANT PHOTOELECTRON INTENSITY) MEASUREMENT SYSTEM, USIN
1 CHANNEL OF 8-CHANNEL ECG. AMP. THAT ACCOMPLISHES ISOLATION WITH OPTICALLY COUPLED ISOLATION A
VOCAL AC.-LINE VOLTMETER USING MOS. SPEECH-PROCESSOR CHIP USING STORED PROGRAM TO SYNTHESIZI
AFC. AMP. USING CURRENT-FEEDBACK AMP. WITH WIDE GAIN RANGE/ACTIVE-FEEDBACK CCT THAT CANCELS DO
OSCILLATOR THAT IS TUNED BY MEANS OF DIODES
RECOMMENDED VOLTAGE DIVIDER FOR PHILIPS POSITION SENSITIVE PMT. WHOSE SENSITIVE PART CONSISTS
POCKET-SIZE ACTIVE ANTENNA (HIGH-GAIN HF. FET. AMP.) THAT PROVIDES BETWEEN 14 & 20DB GAIN OVER RAN
2-CHIP TV. TUNING SYSTEM USING PLESSEY'S SP5000 FREQUENCY-SYNTHESIS CONTROLLER COMBINED WITH C
AGC. AMP. INCLUDING GAIN STAGE, POSITIVE PRECISION RECTIFIER, INTEGRATOR & N-CHANNEL JFET. USED AS
RLC. ELECTROLYTIC TEST STAND (PULSE DISCHARGE CCT) INCLUDING MOSFET. TRIGGER CCT FOR SCR. (SOLID
VIC-20 MICROCOMPUTER LIGHT PEN USING LIGHT-SENSITIVE PHOTOTRANSISTOR THAT SENSES LIGHT OF CRT.
OSCILLATOR IN WHICH DIODE-RESISTOR NETWORK SHAPES TRIANGLE INTO SINE WAVE/PS. & POWER AMP./OSC
ACCURATE & TEMPERATURE-STABLE REGULATED PS. USING THALER +-15V VOLTAGE REFERENCE WITH ACCES
RECEIVER SECTION OF 20M TRANSCEIVER WITH QSK, SIDETONE & DIODE ANTENNA SWITCHING/VFO. SECTION/V
NICD. BATTERY CHARGER INCORPORATING TIMER THAT TIMES OUT BETWEEN 15.5 & 17HR, & RELAY, TO SLOW C
OSCAR 13 SATELLITE 2M CONVERTER INCLUDING Q MULTIPLIER, DBM., IF. AMP. & CRYSTAL OSCILLATOR, TO AC
2 CHIP PLL. SYSTEM OUTPUT FREQUENCY OF WHICH DEPENDS ON BOTH INPUT VOLTAGE & CLOCK FREQUENCY
BUCK ZERO-VOLTAGE-SWITCHED MULTIRESONANT CONVERTER (ZVS MRC) WITH SINGLE-LOOP CONTROL, INCL
P-CHANNEL FET. DRIVER (GATE-DRIVE CCT) USING 28V SUPPLY/IMPROVED CCT THAT OPERATES FROM 16-50V S
N-CHANNEL MOSFET. SP SHUNT DRIVE VOLTAGE REGULATOR INCLUDING CURRENT LIMITING CCT TO ENSURE F
1 CHIP TU. USING PLL. DEMODULATOR
1 CHIP RTTY. AFSK. GENERATOR
RECTIFIER & AMP. CCT, INCLUDING 2 KENETRONS THAT RECTIFY 70MA AT 550V & RADIOTRON THAT SERVES AS
POCKET-SIZE DEVICE FOR LOCATING STUDS & JOISTS IN BUILDING WALLS & CEILINGS (STUD DETECTOR), WITH
RTC. CCT
BUCK-BOOST CONVERTER WITH LC. SNUBBER, WITH 4 OPERATION MODES WITH SUPPRESSION OF TRANSISTOR
AGC. AMP. WITH ADJUSTABLE TIME CONSTANTS FOR ATTACK & RELEASE, & SNR. OF 90DB, OPERATING TRANSP
ACCURATE DIGITAL-TUNING INDICATOR TO READ OUT AM. & FM. RECEIVED FREQUENCIES
80C52-TO-DS2224 INTERFACE POWERED BY DATA LINE, INCLUDING CAPACITOR THAT RETAINS ENOUGH OF CHA
DECODER OF SELECTIVE CALL SYSTEM THAT DOES NOT PASS AUDIO UNTIL CORRECT TOUCH-TONE SEQUENCE
DECODER THAT ALLOWS PC. TO LOG DTMF. TONES RECEIVED BY SCANNER, MOBILE TELEPHONE, SW. RADIO, &
3-COLOUR BAR GRAPH USING GREEN & RED LED.S IN 1 PACKAGE, & LATCHES THAT STORE DATA ON DATA, ADD
MICROCOMPUTER-TO-TRIAC INTERFACE USING PHOTOTRIAC OPTOISOLATOR/PHASE-CONTROLLED DIMMER/10-
1 CHANNEL OF TRANSISTOR-VALVE AMP./TRANSISTOR CLASS-A DRIVER MODULE/PHASE SPLITTERS TO PROVID
VFC. THAT ACCEPTS BIPOLAR-AC. INPUTS, PRODUCING 0 TO 10KHZ OUTPUT FOR -10 TO +10V INPUT, WITH 0.04%

MICROPOWER VFC. WHOSE 0 TO 5V INPUT PRODUCES 0HZ TO 10KHZ OUTPUT WITH 0.05% LINEARITY, WITH MAX RECORDING ARRANGEMENT INCLUDING PROBE & EMITTER FOLLOWER USED AS IMPEDANCE TRANSFORMER BE VFC. WITH 17-BIT ACCURACY/CCT USING DUAL MICROPOWER COMPARATOR/CONVERTER WITH 1HZ TO 100KHZ . 2-CHANNEL BARRIER IN SERIES WITH NON-GROUNDED LINE BETWEEN CONTROL ROOM & PROCESS/CCTS USING BUCK-BOOST DC.-DC. CONVERTER WITH 5V OUTPUT FOR 3 TO 30V BATTERY VOLTAGE, USING SWITCHING REGUL BUCK-BOOST SWITCHING REGULATOR THAT PRODUCES CONSTANT 12V DC. OUTPUT FROM INPUTS RANGING FR VFC. (2)/FAST SH. CCT (2)/FAST SUMMING COMPARATOR/TRIGGER CCT/CCT TO CHANGE PULSE WIDTHS TO VOL MICROPOWER, BUFFERED REFERENCE USING OA. THAT PROVIDES BIAS CURRENT & BUFFERING FOR 2-TERMIN TAC. & DIFFERENTIAL AMP. OF INTERPOLATION CCT

MICROPOWER COLD JUNCTION COMPENSATION FOR SEVERAL TYPES OF THERMOCOUPLES

BUCK SWITCHING REGULATOR (CONVERTER) USING NMOS. SERIES-PASS SWITCH & BOOTSTRAPPED, FLYING C. LOCK-IN BRIDGE AMP./LEVEL-TRANSDUCER BRIDGE CCT/AC.-BASED BRIDGE CCT/BRIDGE-BASED OSCILLATORS RECEIVER RF. SECTION/TRANSMITTER SECTION/MIXER & IF. AMP./LO./SWITCHING SECTION

VFC. WITH 1HZ TO 100MHZ FREQUENCY RANGE (3)/VFC. USING FEEDBACK FROM CHARGE PUMP/VFC. WITH HIGH VFC.S (2)/12-BIT ADC./SERIAL ADC./FAST SH. CCT WITH ACQUISITION TIME OF <200NS/10NS SH. CCT/TRACK-&HO VACUUM PHOTO-TRIODE (VPT) DETECTOR INCLUDING PREAMP. (HV. & SIGNAL READOUT CCT USED WITH VPT, IN 8-CHANNEL E CELL (DISCHARGE) INTERFACE UNIT FOR PET & BBC MICROCOMPUTERS, USING TRANSISTORS TH OSCILLATOR TO CHECK LF. QUARTZ CRYSTAL, USING AF. BIPOLAR TRANSISTORS FOR OSCILLATOR & AMP. SEC 8 CHANNEL, 12-BIT, ADC. FOR USE WITH 16-BIT TTL. COMPUTER INTERFACE/MONOSTABLE PULSE CONDITIONING 8-CHANNEL SINGLE-ENDED MUX. TEST CCT USING PHOTOVOLTAIC RELAYS (PVR'S) AS SWITCHING ELEMENTS, IN RECEIVE INPUT RF. AMP. OF 2M TRANSVERTER/LO./RECEIVE & TRANSMIT MIXER/TRANSMIT PREDRIVER/DRIVER BUCK-DERIVED HF. SMPS. PROVIDING UP TO 8A AT 5VDC. OPERATING OFF 24-32VDC., USING CONTROLLER & 2 F MICRO TV. TRANSMITTER USING RF MONOLITHICS (RFM) SAW. RESONATOR (OSCILLATOR), PRODUCING >5MW IN EXCITATION CCT OF TEA CO₂ LASER, INCLUDING LC. DISCHARGE CCT WITH PEAKING CAPACITOR, & DEUTERIUM RECORD CLOCK (BBB)/MASTER CHANNEL RECORD CCT/REPLAY CCT FOR MASTER CHANNEL/REPLAY CLOCK/CL DSC (DIFFERENTIAL SCANNING CALORIMETER)-MICROCOMPUTER INTERFACE THAT DIGITIZES VALUES & TRANS MOD.S TO PROVIDE SB-220 VHF.-PARASITIC-OSCILLATION CURE, INCLUDING Q-DAMPING RESISTORS IN CATHOD AUDIO LINE SIGNAL ROUTING DEVICE

ODD-RATIO FREQUENCY DIVIDER THAT CAN DIVIDE BY ANY INTEGER, WITH MAXIMUM INPUT FREQUENCY OF 1.8 AUDIO ANALYZER

MOD. TO PET TO IEEE CONNECTOR NEEDED WITH 7075 DVM./PET USER PORT RELAY UNIT/CCT ADDED TO A7 BR MOD. OXYGEN ELECTRODE INTERFACED TO ADC. WITH TELEDYNE-PHILBRICK FET. OA./EPROM. INTERFACE CAR AUDIO OSCILLATOR/WIEN BRIDGE OSCILLATOR/LOGIC PROBES (2)/IR. INTRUDER ALARM (DETECTOR) INCLUDING LED. TRAFFIC LIGHT FOR MODEL RAILROAD & CAR LAYOUTS

LED. FLASHER

ISDN. TERMINAL COMBINING DIGITAL SUBSCRIBER CONTROLLER WITH SUBSCRIBER POWER CONTROLLER MODEM TONE DECODER EMPLOYING TELEPHONE PICK-UP COIL, CMOS. PLL., BIFET. OA. & ACTIVE FILTERS BUDGET LAMP DIMMER THAT CAN HANDLE UP TO 400W OF RESISTIVE LOAD WITHOUT HEAT SINK

LED. BAR-SEGMENT LOW-COST OSCILLOSCOPE

WIDEBAND AMP. IN INPUT POD OF HP 54003A OSCILLOSCOPE, USING OA. & HF. HYBRID, & CONTAINING HF. & LF. LCD. SECTION OF DIGITAL STORAGE OSCILLOSCOPE (DSO)/CPU. CCT/INPUT, TRIGGER, ADC. & RAM. CCT/TIMEBA 6-DIGIT CODED AC. SWITCH TO SWITCH AC. LOADS OF UP TO 25A ON & OFF, INCLUDING 4 BISTABLE IC'S, OPTOIS CODE-SPEED READER (DIGITAL WORDS-PER-MINUTE DISPLAY) FOR HEATH 1410 ELECTRONIC KEYS, THAT USE AUDIO LPF. MOD./FREQUENCY COUNTER FOR TRANSCEIVER/SIDEBAND CORRECTION INDICATOR

MODULATOR TANKS INCLUDING THOMSON-CSF KLYSTRON & FLOATING DECK MODULATOR/WATER DETECTOR T MOD. TO ADD TO MACRO-SCRUBBER CCT, TO TAKE CARE OF MACROVISION PULSES AT VERY BEGINNING OF VE LED. NUMERIC DISPLAY TESTER TO TEST 7-SEGMENT DISPLAYS, USING 14-STAGE BINARY COUNTER-DIVIDER & MIDI. INTERFACE FOR VERSATILE KEYBOARD INSTRUMENT USING 2 PROCESSORS, INCLUDING INTEL 8088 UP. MODULATOR & RF. STRIP, INCLUDING BUFFERED WAVEFORM GENERATOR & HARTLEY OSCILLATOR/MONITOR IN

MODULARIZED (MODULE) CONTROL UNIT (8088-BASED PROGRAMMABLE DIGITAL CONTROLLER) OF MULTIMICRO
 BIDIRECTIONAL PWM. CONTROL FOR BRUSH-TYPE PERMANENT-MAGNET MOTOR, USING PLL. & MOTOR-DRIVER
 VIDEO (CRT.) TERMINAL UNIT INCLUDING CPU. (UP.) & INTEL VIDEO-DISPLAY CONTROLLER (2)/INTERFACE TO CO
 LED. DRIVER CCT INCLUDING FIBER OPTIC ACTIVE CONNECTOR (FOAC)/FIBER-OPTIC RECEIVER USING DETECT
 PID. REGULATOR IN RF. FURNACE, INCLUDING COMPARATOR & INTEGRATOR/REGULATOR IN ARC-IMAGE FURNA
 MOD. WB3CEH PROGRAMMABLE CALL SIGN IDENTIFIER, USING 64-BIT SHIFT REGISTER & PIEZO BUZZER, FOR US
 AUDIO BOARD INCLUDING AMP./IF. BOARD/COUNTER USING TIMEBASE (2)/MIXER USING DUAL-GATE MOSFET./LO
 MOD. OF TAPR TNC. FOR 2V OPERATION, USING POWER GENERAL DC.-TO-DC. CONVERTER CHIP TO GENERATE
 VIDEO-POLARITY INVERTER TO ENCODE-DECODE VIDEO SIGNALS FOR SECURITY, INVERTING POLARITY OF DAT
 LVDT. & ASSOCIATED CCT/PANEL METER
 BUDGET SW. RECEIVER
 AUDIO AMP. BASED ON CMOS. TRANSISTOR ARRAY CONSISTING OF 3 INDEPENDENT N-CHANNEL-P-CHANNEL CO
 MOD. FOR ROBOT 400, PROVIDING BLACK-&-WHITE COMPATIBLE VIEWING OF SINGLE-FRAME COLOR SSTV. TRAN
 LED. LIGHT CHASER USING CMOS. TIMER CONFIGURED AS ASTABLE, CONSISTING OF CLOCK PULSE GENERATO
 CFD.-LED TEST CCT USING GBL GAAS. DUAL COMPARATOR, INCLUDING ZCD. & LED. DISCRIMINATORS COMPENS
 ADDITION TO MUSIC BOX PERIPHERAL, THAT PRODUCES RANDOMLY GENERATED MUSIC WITHOUT COMPUTER (P
 PADDLE POLARITY REVERSE CCT/VIBROPLEX EK-1 KEYS
 WIDE-RANGE (15-1000 BPM), HIGH-RESOLUTION (1 BPM) HEART RATE METER BASED ON AUTOMATIC GRADING O
 MIDI. SEQUENCER INCLUDING MICROCONTROLLER & INTERFACE CONSISTING OF KEYPAD, LCD. DISPLAY, & CAS
 VIDEO DIGITISER/DAC. CCT/CCT SHOWING METHOD DOR DIGITISING VIDEO
 MODEL III INTERFACE USING 12-BIT ADC. & 5 CONTROL OUTPUTS/OUTPUT CONTROL CCT USING OPTO-ISOLATOR
 1-DIP. 2MHZ CLOCK SECTION OF LABORATORY CONTROLLER/CPU./PPI./DEMUX./EPROM.
 MIDI. INTERFACE CCT (2)/PA-422 INTERFACE/PA-422 COMPUTER INTERFACE CCTS (2)/RS-232C TO PA-422 CONVE
 VIDEO CONTROLLER SYSTEM BASED ON LOGIC CELL ARRAY (LCA), INCLUDING SUPPORT MEMORY & INTERFACE
 CCD. INPUT, OUTPUT & DRIVER CCTS FOR LOW COST & FAST ANALOGUE BUFFER MEMORY/TTL. PROGRAMMABLE
 MOD. ROCKWELL AIM-65 UP. SYSTEM WITH 8 TTL.-COMPATIBLE 1KX1 NOVRA.M.S CONNECTED TO APPEAR AS OR
 BIDIRECTIONAL PROPORTIONAL DC. MOTOR CONTROL CCT TO ALLOW SPEED & DIRECTION CONTROL (ELEN840
 LED. MOVING-DOT DISPLAYS (3)/4-LED. "ACCELERATOR" DISPLAYS (2)/20-LED. CHASER (SEQUENCER)/0-1V BAR-C
 MEDIUM-SPEED, 12-BIT DAS. FOR IBM PC.-XT-AT FAMILY, WITH PROGRAMMABLE DATA ACQUISITION RATE (MAXIM
 3-DIMENSIONAL & GRAPHICS DISPLAY CCT TO ENABLE ANY 3-DIMENSIONAL PATTERN TO BE SHOWN ON LABORA
 MOD. TO '400 FOR TRANSMITTING 1ST SSTV. FRAME IN SYNC/MOD. TO '400-3000-C FOR SUPERIMPOSING CAMER
 AUDIO CCTS OF 4-INPUT STEREO LINE MIXER/PS./OPTIONAL PREAMP. FOR UNBALANCED DYNAMIC MICROPHONE
 ADDRESSABLE CURSOR FOR BAR-GRAPH DISPLAY
 WIDEBAND PREAMP. WITH NEON BULB PROVIDING INPUT STATIC CHARGE PROTECTION/AMP. FOR VLF.-LF. RANG
 INDUCTIVE CURRENT PROBE (FAST PICKUP PROBE USING SHIELDED COIL) (CURRENT-PICKUP SIGNAL TRACER)
 MOD. TO TANDY MODEL 4P MAIN PCB.
 AUDIO MODE & MONO-STEREO CONTROL UNIT OF FM. TUNER (4)/KEYBOARD-DISPLAY UNIT USING 7-SEGMENT LI
 NODE USING ADDRESSABLE UART./RS-232 INTERFACE THAT ROUTES 12V POWER TO NODES & BUFFERS DATA B
 ADDRESSING PORTION OF INTERFACE CARD FOR CAMECA SECONDARY ION MS./PORTION TO TRANSMIT DATA F
 MOD. SOLID-STATE LITTLE JIMMY KEYS THAT REPLACES REED RELAY OF ORIGINAL CCT WITH TRANSISTOR, FO
 MOD. SHOWING ADDITION OF TRANSMITTER TIME-OUT TIMER COMPONENTS TO KANTRONICS KPC-2 TNC. CCT, I
 ADDRESS DECODING CCT/INTERRUPT ARBITRATION LOGIC USING PRIORITY ENCODER/CLOCK CCT TO DRIVE UA
 MOD.S TO INTERFACE & MID (MULTIPLE ION DETECTION) UNIT, WITH WHICH START-OF-SCAN PULSE DRIVES REL
 CCD.-OSCILLOSCOPE INTERFACE THAT GENERATES SEQUENCES OF PULSES TO DRIVE EXTERNAL SAMPLING T
 MOD. OF NOR GATE CCT TO BOOST DRIVE LEVELS OF BIDIRECTIONAL CPU. PINS (ELDE820121)
 MOD. TO TRICKLE CHARGE CCT FOR BROTHER EP44 PORTABLE TYPEWRITER (REW8408)
 MODULAR SWITCH ARRAY WITH PRIORITY ENCODER, TO RESPOND TO 1ST COMMAND & LOCK OUT SUBSEQUEN
 VIDEO MIXING CCT WITH 2 INTENSITY CONTROL INPUTS ENCODED TO SUPPLY 4 LEVELS OF INTENSITY ON DISPI
 AUDIO SWEEP OSCILLATOR FEATURING SQUARE, SINE, TRIANGLE, TTL. & TONE BURST OUTPUT/PS.

MOD. AUTOMATIC ECHO SELECTION LOGIC FOR ULTRASONIC ATTENUATION MEASUREMENT SYSTEM
BUDGET BCD.-TO-ANALOG READOUT
MODEM AUTO-ANSWER CCT TO CONVERT DUMB MODEM (TELEPHONE LINE INTERFACE TO DETECT RING SIGNAL)
MOD. PULSE GENERATOR FOR TEMPERATURE TO FREQUENCY CONVERTER, WITH 2 TRANSISTOR SWITCHES IN
8-DIGIT HEXADECIMAL DISPLAY THAT OCCUPIES ONLY 4 Z80-UP. OUTPUT PORTS & ALLOWS MICROCOMPUTER T
AUDIO-VIDEO PORT INTERFACE FOR SERVICE-ORIENTED TONE GENERATOR FOR COMMODORE 64, PROVIDING S
AUDIO Q-MULTIPLIER COMBINING Q-MULTIPLIER & WEIN-BRIDGE OSCILLATOR TO MAKE SIMPLE, EFFECTIVE AUD
8 DIGIT HEXADECIMAL LED. READOUT USING PROM. (CUSTOM DECODER) FOR MUX.ED DISPLAY, INCLUDING MUX
DEDICATED COMPUTING PROCESS CONTROLLER FOR CONTINUOUS COMPARISON OF PROCESS PARAMETER W
BCD. WORD GENERATOR THAT, IN CONJUNCTION WITH KEYPAD, GENERATES ANY 4-BIT BCD. WORD TO TEST UP
BCD.-OUTPUT FREQUENCY COUNTER & AUDIBLE FREQUENCY READOUT, INCLUDING DECODER & OSCILLATOR F
BCD. CONVERTER USING STORAGE REGISTER IN FEEDBACK LOOP, TO PROCESS LARGE BCD. NUMBERS (BBB)
ZCD. & WAVE SHAPING CCT/1MHZ CRYSTAL OSCILLATOR WITH 100KHZ CLOCK OUTPUT/SAMPLING & RESET PUL
MOD. TO ALLOW CLOCK RADIO TO TURN ON ANY DEVICE AUTOMATICALLY, INCLUDING REMOTE-CONTROL SWITC
AUDIBLE CRITTER CHASER TO FLOOD AREA WITH HF. TONE/LF. CONTROL OSCILLATOR/AUTOMATIC SWITCH USI
ROD SELECT LOGIC SECTION OF CONTROL ROD INTERLOCK SYSTEM/ROD OPERATION LOGIC (INTERFACE BETW
MOD. TO WAVETEK 185 SWEEP-FUNCTION GENERATOR, TO PROVIDE FSK. OUTPUT FOR TESTING OR DESIGNING
4-DIGIT AUDITORY BCD. READOUT FOR MUX.ED SIGNALS/BCD. INTERFACE FOR YAESU FT-707 TRANSCEIVER
WIDTH MULTIPLIER
AUDIO OSCILLATOR USABLE AS TONE ELEMENT OF CODE PRACTICE OSCILLATOR/CODE PRACTICE OSCILLATOR
AUDIO PROCESSOR SWITCHING SYSTEM TO SWITCH 1 AUDIO PROCESSOR BETWEEN 3 RECORDING STATIONS
ADDITIONAL 2ND IF. & AUDIO CCTS
3-DIGIT LOW-COST 1MHZ FREQUENCY COUNTER
BCD. TO DECIMAL CONVERTER
ADDRESS DECODING & BUFFERING MODULE THAT PLUGS INTO AMSTRAD PCW8256-8512 COMPUTER BUS CONN
MODEL I LINE-PRINTER CONTROLLER (EXPANSION INTERFACE PRINTER LOGIC) (BBB)/A-D CCT TO ALLOW JOYST
ADDRESS-DECODING & BUFFERING SECTION/MEMORY-EXPANSION SECTION (2)/DISK CONTROLLER, EXTERNAL-
LED. & SPEAKER CCT WITH DEVICES DRIVEN BY OPEN-COLLECTOR INVERTERS/RESET CCT USING 555 TO GENE
MOD. BRIDGE FOR DIRECT MEASUREMENT OF INCREMENTAL RESISTANCES, CONSISTING OF SELF-BALANCING I
VIDEO TEST GENERATOR THAT PRODUCES TTL. & COMPOSITE VIDEO OUTPUTS, GENERATING TEST SIGNAL FOR
LED. QUALITY CHECKER THAT MEASURES VOLTAGE DROP ACROSS LED. AT HIGH CURRENTS
MOD. FOR PT-69 SYSTEM USING CHARGING RESISTOR & DIODE FOR BATTERY BACKUP OF CLOCK IF NICD.S ARE
ZCD. USING OA. THAT GIVES TTL.-COMPATIBLE SQUARE WAVE OUTPUT, FOR MEASURING SYSTEM FREQUENCY
BIDIRECTIONAL SEQUENCING LOGIC & MOTOR DRIVE FOR 4-PHASE STEPPER MOTOR
HIDDEN TRANSMITTER CW. IDENTIFIER USING TTL. LS LOGIC CCTS & DUAL TIMER FOR CW. RATE & 1KHZ AUDIO
MOD. CCT FOR INTERNAL FRICTION MEASUREMENT OF THIN WIRE SPECIMENS, INCLUDING DIFFERENTIAL AMP
ADDRESS DECODING & STROBED LATCH SECTIONS OF INTERFACE/COMMAND DECODER & FLAG CCT SECTIONS
ADDRESSED OUTPUT PORT DECODING CCT FOR DIGITAL GROUP OR ALTAIR (S-100) BUS SYSTEM/MEMORY ADDI
BCD. INPUT PROGRAMMABLE DIVIDER CONSISTING OF COMPARATOR & DIVISION CCTS, COMBINED WITH INVER
ADDER TO PROVIDE POSITIVE SIGNALS TO ANALOGUE PORT OF BBC MICROCOMPUTER IF ECG. OR PCG (PHONO
MOD.S TO CCT TO PRODUCE SERIAL OUTPUT FROM CENTRONICS PRINTER INTERFACE (ELWI8502)
BCD. ADDER USING COUNTERS, COMPARATOR & MONOSTABLE, TO ADD 1 BCD. NUMBER TO ANOTHER
RUDIMENTARY LOGIC ANALYZER, USING DELAYING-SWEEP OSCILLOSCOPE, TO CAPTURE & DISPLAY DATA ON D
MIDI. MERGE UNIT USING DARLINGTON OPTOISOLATORS/TRANSMITTER SECTION OF MIDI. PEDAL, USING UART./
3RD BRAKE LIGHT CCT/SLIDE TIMER CCT/LED. FLASHERS (2)/RELAY DEBOUNCER/OUTDOOR LIGHT CONTROLLER
ZCD. USING UP. CONTROLLER
ADDRESS DECODER BLOCK OF SERVO ARM INTERFACE FOR SINCLAIR ZX81 MICRO/TIMING GENERATOR USING
WIDEBAND VCO. CONSISTING OF VARIABLE-CAPACITANCE DIODE ADDED TO TIMING CCT OF MULTIVIBRATOR, US
INDUCTANCE METER THAT ALLOWS USE OF DVM. TO DIRECTLY DISPLAY INDUCTANCE IN MICROHENRIES, USING

Sheet1

VIDEO AMP., ADC., DATA TRANSFER CCT & 13-BIT ADDRESS COUNTER/FRAME-ACCUMULATION CCT
ADDRESS DECODER USED TO START ADC.
ADDRESS DECODER(BBB)/CCT TO GENERATE CONTROL SIGNALS/PROCESSOR-MEMORY INTERFACE/CCT SHOW
CCD. PRIMARY MEMORY OF 2-LEVEL 64KBYTE CCD. MEMORY SYSTEM USING RAM. TO BUFFER SERIAL CCD. MEM
SMDE (STATIC MERCURY DROP ELECTRODE) CONTROLLER/CCT TO AMPLIFY SIGNAL FROM "REFRACTOMETER"
VIDEO LINE SELECTOR TO ISOLATE SELECTED JITTER & DRIFT FREE VIDEO SCAN LINES TO MAKE THEM AVAILAB
AUDIBLE AUDIO-SIGNAL TRACER/PCB. SIGNAL TRACER/LINE IN-USE INDICATOR/TOUCH-ON-TOUCH-OFF CCT CON
RADIO SHACK DOUBLE-DENSITY ADAPTER ENABLE CCT, EMPLOYING DENSITY SELECTION BY USING UPPER 3 BI
BCD. THUMBWHEEL FREQUENCY SELECTOR (TWFS) TO ALLOW ENTRY OF ANY FREQUENCY, IN OR OUT OF CURR
WIDE BAND OPTICALLY ISOLATED PROBE CURRENT & VOLTAGE SENSING UNIT/HF. DC.-DC. CONVERTER WITH +
4-DIGIT COUNTER CCT THAT DISPLAYS ONLY MOST SIGNIFICANT DIGITS (MSD'S) OF COUNTER'S TOTAL & AUTOM
MOD. TO ADD INVERSE VIDEO (REVERSED ALPHANUMERIC CHARACTERS) TO TANDY TRS-80 PC., INCLUDING DPL
VIDEO ADAPTER TO ENABLE USE OF IBM RGB. MONITOR WITH APPLE II+, TAKING COMBINED SYNCH, SEPARATE
INDICATOR WHOSE LED. LIGHTS CONSTANTLY WHEN BATTERY VOLTAGE IS SUFFICIENTLY HIGH, & FLASHES WH
RFDLVA (RF. DETECTOR LOGARITHMIC VIDEO AMP.) THAT OBTAINS LOGARITHMIC TRANSFER FUNCTION IN VIDE
WIDE RANGE, TUNABLE FUNCTION GENERATOR/WIDE-RANGE SQUARE-WAVE-TRIANGLE-WAVE GENERATOR/INV
WIDE-RANGE TIMER/RELAY OUTPUT TIMERS (2)/60MIN TIMER/800HZ ALARM/RELAY PULSER/LED. FLASHERS (3)/M
AUDIBLE (BUZZING) CONTINUITY TESTER WITH OPEN CCT & SHORT CCT MODES
MODEL TRAIN ELECTRICAL NOISE (INTERFERENCE) ELIMINATOR USING TIMER CONFIGURED AS INTERVAL TIME
AUDIBLE TESTER WITH OPEN CCT MODE IN WHICH IT BUZZES AT SLIGHTEST CONTINUITY, & SHORT CCT MODE
AUDIO 14S TURN-ON DELAY CCT TO ELIMINATE HV. OFFSETS IN TUBE PREAMP. IF VACUUM TUBE PREAMP. FEED
LED. LIGHT DISPLAY CCT USING CHARACTER GENERATOR (ASCII. ENCODED ROM.), TO INTERFACE ALPHANUMERIC
WIDE-RANGE AFSK. GENERATOR
LED. DRIVER/IEEE-488 INTERFACES (3)/PHOTOELECTRIC SIGNAL CCT USING CURRENT-TO-VOLTAGE CONVERTER
AUDIBLE COMPASS THAT EMITS TONE THAT VARIES IN FREQUENCY (PITCH) DEPENDING ON WHERE IT POINTS, U
AUDIO OSCILLATOR INCLUDING CONTROLS TO TURN SOUND ON & OFF, & CONTROL DECAY & FREQUENCY (TON
LED. FLASHER CCT USING 555 TIMER & DUAL-ELEMENT (RED-GREEN) LED./CCT CONNECTIONS FOR MPC900 NEG
HIDE-AWAY LIGHTING SYSTEM'S CONTROL CCT INCLUDING DUAL MONOSTABLE, HEX BUFFER, NAND GATE, TRIA
LED. ID TIMER
MODERATE-GAIN, CW. RF. AMP. WITH 50W OUTPUT POWER FROM 500 TO 1000MHZ, USING HIGH-PASS-LOW-PASS
ADDRESS DECODING CCT FOR 8255 & 6522/ADDRESS SELECTION SWITCHING CCT/LOGIC TO CONVERT 6800 PRO
LED.-FLASHING RC. RELAXATION OSCILLATOR
CODE PRACTICE OSCILLATOR/MORSE PRACTICE OSCILLATOR/TOUCH SWITCH/GENERAL PURPOSE PREAMP.
CODE-STUDY-SYSTEM CONTROL UNIT, WITH ISOLATION BETWEEN SPEED-CONTROLLING SECTION & AUDIO SEC
MOD. SHUNT REGULATOR WITH ALMOST NO PHASE SHIFT, USING COMMON-COLLECTOR OUTPUT TOPOLOGY (M
AUDIBLE WARNING CCT FOR LIGHTS, EMERGENCY BRAKE & OIL PRESSURE LIGHT
AUDIO PRE-AMP. THAT IS AC. COUPLED, PROTECTED FROM POWER-LEAD NOISE & HAS ITS OWN VOLUME CONT
MOD. TO AUTO-ERASE CCT FOR 5100 SERIES OSCILLOSCOPES, CONSISTING OF DELAY BETWEEN TRIGGERING F
CODE REGENERATOR & SPEEDOMETER HYBRID UNIT/COUNTER/DISPLAY/AUDIO AMP.
MOD. SDK85 SINGLE-BOARD DEVELOPMENT KIT CURRENT LOOP INTERFACE USING OPTO-COUPLER/CURRENT L
RADIO SHACK WEATHER RADIO (WEATHERADIO ALERT) INCLUDING RF. AMP., LO., MIXER, IF. AMP., AUDIO AMP. &
MODULATED IR. TRANSMITTER/MODULATED IR.-RECEIVER CCT/CCT TO PRODUCE EFFECT LIKE FM., USING PLL./
ADDRESS DECODER/HALT INDICATOR/DTACK GENERATOR USING SHIFT REGISTER TO KEEP COMPUTER FROM L
AUDIO INTERFACE PORT FOR PC., USING PLL. (TONE DECODER)/LATCHING CCT FOR AUDIO INTERFACE CCT/DIG
INDICATOR SYSTEM FOR "SCHOLASTIC BOWL" EVENTS, IN WHICH 1ST CONTESTANT TO ANSWER PRESSES PUSH
AUDIO SPECTRUM ANALYZER USING PAL. CHIPS FOR CONTROL LOGIC, INCLUDING LINEAR-TO-LOG CONVERTER
MOD. OF HF.-ANTENNA SWITCHING SCHEME, USING ROTARY SWITCH, RED LED.S & 12V DC. RELAYS, TO SWITCH
RADIO SHACK COLOR COMPUTER (BBB)
MIDI. 1.0 IBM BOARD

UNDER-VOLTAGE MONITOR USING REGULATOR & ZENER DIODE, INCLUDING ALARM OUTPUT, THAT TRIGGERS A
 RADIO SHACK TRS-80 COLOR COMPUTER INCLUDING MOTOROLA UP., SYNCHRONOUS ADDRESS MUX., VIDEO DI
 VIDEO EDITOR CONTROLLER THAT CODES TAPE & CONVEYS COMMANDS TO VCR., BASED ON MODULES USING J
 AUDIO AMP. THAT RUNS OFF 9V BATTERIES & HAS VOLUME CONTROL, TO DRIVE POWER AMP. FROM GRAPHIC E
 MODULATOR DRIVER CONSISTING OF TRIPLE AVALANCHE DRIVER TO DRIVE 50OHM LOAD WITH 10NS PULSES, F
 MODEL 2 VERSION OF NATIONAL SW-3 3-TUBE AMATEUR (SW.) RECEIVER INCLUDING RF. STAGE, DETECTOR & A
 MOD. OF STANDARD HARDWARE CONFIGURATION FOR Z80-BASED SYSTEM, IN WHICH PERIPHERAL IO. (PIO) PO
 2ND PROCESSOR CCT FOR MICROCOMPUTER, INCLUDING SECTIONS FOR CPU.-CLOCK GENERATION, MEMORY
 MIDI. INTERFACE USING ACIA. THAT IS COMPATIBLE WITH 6502 PROCESSOR (CPU.) USED BY BBC MICROCOMPU
 MOD. TRIANGLE WAVEFORM OSCILLATOR THAT ALLOWS ADJUSTMENT OF VOLTAGE WAVEFORM WITHOUT AFFE
 CODE-PRACTICE-DIGITAL-KEYER UNIT
 MOD. DYNODE CHAIN OF HAMAMATSU PMT. IN WHICH FINAL 3 DYNODES ARE NOT USED, RESULTING IN RESPON
 2ND-GENERATION CURRENT CONVEYOR (CCII) USED IN VOLTAGE-CONTROLLED 2ND-ORDER ACTIVE-RC. OSCILL
 MOD. TO LINEAR PS. THAT CONVERTS IT TO SWITCHING TYPE WITH 10 TIMES CURRENT CAPACITY
 VIDEO IF., AGC. & DETECTOR/CHROMA PROCESSOR & DEMODULATOR/DIFFERENTIAL AMP. DYNAFILTER
 3RD-ORDER LOWPASS BUTTERWORTH FILTER WITH CUT-OFF FREQUENCIES OF 158.2KHZ, 79.6KHZ & 39.8KHZ, U
 MOD. CCT TO MEASURE PHASE SHIFT BETWEEN 2 7 TO 400KHZ SIGNALS, USING CMOS. OA.S, XOR GATE & CMOS
 MODULATION CCTS (2)/LED. DRIVING CCT TO CONVERT ELECTRICAL PULSES INTO LIGHT PULSES/RECEIVER USI
 TAD (TAPPED ANALOG DELAY LINE) TRANSVERSAL FILTER LOCK-IN AMP. INCLUDING OA.S FOR INPUT DIFFEREN
 MODEL RAILROAD CROSSING LIGHT CCT (FLASING SIGNAL LIGHT)
 WIDE-RANGE CAPACITANCE METER
 LED. LEVEL METER
 VIDEO TEST SOURCE/SYNC SEPARATORS/SIGNAL CONDITIONING AMP. & FLASH CONVERTER/VIDEO DAC.
 AUDIO AMP. CLIPPING INDICATOR
 VIDEO DISTRIBUTION AMP.
 VIDEO OA. DRIVING FLASH ADC./6MHZ, 8-POLE LOW-PASS BESSEL FILTER USING 4 CASCADED SALLEN-KEY CCT
 VIDEO SAMPLER & VERTICAL SWEEP GENERATOR (BBB)
 RADIOMETER CCT USING FET. INPUT OA. & PHOTODIODE WHOSE REVERSE SATURATION CURRENT (PHOTOCUR
 AUDIO AMP. USING FEEDFORWARD ERROR AMP. TO PROVIDE CANCELLATION (REDUCTION) OF MAIN AMP.'S DIS
 3-DIGIT VOLTMETER FOR MONITORING CAR'S ELECTRICAL SYSTEM/CCT TO INCREASE DVM. RANGE TO 99.9V
 HYDROGEN LAMP PS. THAT PROVIDES LV. HIGH CURRENT (2.5V, 4A) AC. FOR FILAMENT, HV. PULSE (800V FOR 0.
 VIDEO-OUTPUT STAGE/AUDIO-OUTPUT STAGE/MUX. SWITCHING & AMPLIFICATION PORTION
 2ND-GENERATION CD. DECODER USING DECODER FOR DEMODULATION, DIGITAL FILTER, DUAL DAC. & ANALOG
 VIDEO BUFFER USING 100MHZ CURRENT FEEDBACK AMP./BUFFER FOR 8-BIT FLASH ADC./MUX.ED VIDEO AMP./V
 8-DIGIT UP. DISPLAY CCT USING MAXIM SERIALLY INTERFACED 8-DIGIT, 7-SEGMENT LED. DISPLAY DRIVER THAT
 BIDIRECTIONAL RS-232 TO RS-422 CONVERTER USING INTERFACE THAT CONVERTS RS-422 INTO TTL. LEVEL SIG
 VIDEO AMP.-ATTENUATOR WITH 25MHZ BANDPASS & 70DB OFF-CHANNEL ISOLATION IN TV. BAND/64-CHANNEL M
 MODEM MOD. CONSISTING OF ADDITIONAL MONOSTABLE TO ENSURE THAT LINE IS DROPPED CLEANLY AFTER V
 2ND-ORDER BUTTERWORTH HIGH-PASS FILTERS (2)/2ND-ORDER BUTTERWORTH BAND-PASS FILTER/2ND-ORDE
 MOD. LOW-POWER, VOLTAGE-TUNED UHF. OSCILLATOR OPERATING AT >1000MHZ, DESIGNED FOR USE AS LO. IN
 LED. DRIVING CCT TO GENERATE HIGH CURRENT LIGHT PULSES BY LED. FOR RANGING, INCLUDING POWER AMP
 BIDIRECTIONAL HANDS-FREE INTERCOM/ICY ROAD WARNING INDICATOR/LIGHT METER/FUNCTION GENERATOR
 CODED-LIGHT-BEAM DETECTOR/UNDER-TEMPERATURE SWITCHES (2)/LIGHT-OPERATED SWITCHES (2)/OVER-TE
 PAD READOUT (BBB)
 MODULATED AUDIO LASER RECEIVER PLACED SEVERAL METRES AWAY FROM LASER TRANSMITTER, TO DEMON
 RADIOSONDE INCLUDING TUNED RECEIVING COIL, RECTIFIER ENERGY STORER, VOLTAGE STABILISER, PEAK DE
 ADDRESS DECODER/CCT SHOWING PPI., ADC. & DAC. (BBB)/SIGNAL & POWER AMP. OF MOTOR/CCT TO MEASUR
 WIDEBAND LINEAR FM. DISCRIMINATOR FOR SINUSOIDAL SIGNALS, USING BURR-BROWN UNIVERSAL FILTER, IA.
 2ND-ORDER BANDPASS FILTER USING 1 OA. & SWITCHES, WITH CENTRE FREQUENCY OF 1.956KHZ, GAIN OF 20D

2ND-ORDER LPF. WITH LF. GAIN OF 2, CORNER FREQUENCY OF ZERO OF RESPONSE OF 50HZ, & CUT-OFF FREQUENCY OF 100HZ.
VIDEO PROCESSOR/JOYSTICK RESOLVER INCLUDING VCO., FULL-WAVE RECTIFIER, COMPARATOR & DIVIDER/X-RESOLVER.
MOD.S FOR AM.
VIDEO TITLER (VIDEO-CHARACTER INSERTER) THAT ATTACHES TO IBM COMPATIBLE PC., TO INSERT TITLES INTO VIDEO.
RADIATION-RESISTANT CURRENT-TO-FREQUENCY ISOLATION CONVERTER
RADIO SHACK CCT FOR 2K, 4K, 6K OR 8K ROM. CARTRIDGE/ROM. CARTRIDGE CCT TO USE UP TO 8 2716 EPROM.
PSD. THAT AMPLIFIES VOLTAGE ACROSS RESONANT PARALLEL LC. CCT WITH RF. AMP. & MULTIPLIES IT USING ECL.
MOD. TO STEVENS TYPE F WATER STAGE RECORDER, CONSISTING OF CCT TO PERFORM TIMING FUNCTIONS, INVERTER,
3-DIGIT EVENT COUNTER/6-DIGIT EVENT COUNTER/FREQUENCY COUNTER
BUDGET (INEXPENSIVE) POWER METER FOR AUDIO SYSTEMS, DEPENDING ON VOLTAGE FOR READINGS/SIMPLE
2ND STAGE OF AMPLIFICATION, SHOWING 1 OF 32 CHANNELS, CONSISTING OF 3 AMP.S OF ECL. FAMILY, WITH GAIN CONTROL,
8-DIGIT, 100MHZ FREQUENCY PROBE (COUNTER) IN POCKET-SIZED LOGIC-PROBE CASE, USING INTERSIL COUNTDOWN
RADIO SHACK COLOR COMPUTER USING UP., DYNAMIC-MEMORY HANDLER, VIDEO-DISPLAY GENERATOR & PARALLEL
MOD. TO CONVERT FERGUSON TX9 TV. WITH REMOTE CONTROL TO RGB. MONITOR FOR USE WITH BBC MICROCOMPUTER.
LED. DETECTOR
MODEL RAILWAY SWITCH CONTROLLER/CAPACITIVE DISCHARGE PS. TO DRIVE SOLENOID ACTUATORS
LVDT. WITH DETECTOR, WITH CCTS FOR SUPPRESSED-CARRIER MODULATION & PRECISION RECTIFICATION
MOD. TO TV. TO INCLUDE VIDEO INPUT FOR PC. OR VCR., WITH INPUT & OUTPUT SECTIONS ELECTRICALLY ISOLATED.
40DB WIDEBAND AMP. (GAIN BLOCK) WITH 10KHZ TO 15MHZ BW. FOR INSERTION IN 50OHM OR 75OHM CABLE, USING ECL.
MOD. DVM. INCLUDING INPUT MUX. CONSISTING OF 8 DIP. RELAYS & 1 OF 10 DECODER/AC. TO DC. CONVERTER/INVERTER.
INDUCTORLESS ALL-PASS PHASE SHIFTER SUITABLE FOR EASY PHASE TUNING, USING OA. AS ACTIVE ELEMENT.
LED. INDICATOR TO CHECK OPERATION OF SOFTWARE, FOR ADDITION TO MEASUREMENT CARD FOR INDOOR-Climatometer.
LCD. USING 3.5-DIGIT VOLTMETER MODULE INCLUDING ADC. WITH AUTOMATIC ZERO-SETTING & DISPLAY DRIVER.
VIDEO ENHANCER THAT AMPLIFIES HF.S OF VIDEO SIGNAL, RESULTING IN SHARPER TV. PICTURE, INCLUDING BUZZER.
INDUCTIVE RATIO TRANSDUCER WITH SHORT CCT'ING RING FOR PRECISE DISPLACEMENT MEASUREMENT, INCLUDING
VIDEO-SWITCH CCT TO MUX. SECURITY-CAMERA SIGNALS/CCT TO DRIVE 6 75OHM TRANSMISSION LINES/INVERTER.
2ND-ORDER PLL. USED IN INDIRECT FREQUENCY SYNTHESIZERS, INCLUDING PHASE-FREQUENCY DETECTOR, DIVIDER,
VIDEO-FRAME GRABBER CCT FOR IBM PC., USING LOGIC CELL ARRAY (LCA) & SINGLE-CHIP VIDEO SYSTEM IC CO.
4-DIGIT ALPHANUMERIC DISPLAY CCT USING MUX. PARALLEL BCD. OUTPUT OF COUNTER SUPPLYING BINARY DATA.
ISDN. VOICE-DATA TERMINAL ADAPTER (TA) USING INTEGRATED MULTIPROTOCOL PROCESSOR (IMP), INCLUDING
LCD. THERMOMETER FOR PRECISION TEMPERATURE MEASUREMENT, USING IC CONTAINING ADC., 7-SEGMENT DISPLAY.
ISDN. VOICE-DATA TERMINAL USING PCM. CODEC FILTER THAT PERFORMS VOICE DIGITIZATION & RECONSTRUCTION.
4-DIGIT FREQUENCY DISPLAY, INCLUDING AM. INPUT, TIME BASE & PROGRAMMABLE COUNTER/FM. PRESCALER.
ADDRESS STATE ANALYZER TO DISPLAY FLUCTUATIONS OF COMPUTER'S MEMORY ADDRESS BUS, USING 2 DAC'S.
MODULATOR-TRIPLER, CLASS-E AMP., LIMITER, DRIVER & LV. REGULATOR SECTIONS OF E-COMM TRANSCEIVER.
ISDN. BASIC TERMINAL ADAPTER USING DUAL DATA LINK CONTROLLER, CODEC-FILTER & S-T TRANSCEIVER, INVERTER.
MODEM INTERFACE (HOME STATION INTERFACE) USING 1200 BPS BELL 202 HALF DUPLEX MODEM CHIP, INCLUDING
AUDIO POWER AMP. INCLUDING DRIVER (HYBRID CASCODE) COMPRISING VALVE (PENTODE) & TRANSISTOR, & VOLTAGE
CFD. TEST CCT FOR SPICE SIMULATION, USING COMPARATOR
MOD. FREE-RUNNING MULTIVIBRATOR USING PUSH-PULL TRANSISTORS TO GIVE SYMMETRICAL OUTPUT WITH U.
2-DRIVE CONTROLLER USING CHIP SET CONSISTING OF INTELLIGENT MULTIPLE DISK CONTROLLER (IMDC) & 2 D.
SIDESTREAM CAPNOMETER TESTING DEVICE (VARIABLE TIMER) THAT SIMULATES PATIENT BREATHING BY OPENING
MOD. ASTABLE MULTIVIBRATOR FOR MEASUREMENT OF VERY LOW ANGULAR SPEED
ZCD.
VIDEOTAPE CONTROL INTERFACE TO CONNECT APPLE II COMPUTER TO SONY BETAMAX SL0-320 VCR./INTERFACE
RADIO SHACK TRS-80 PERSONAL MICROCOMPUTER (PC.) TO CAMAC INTERFACE TO CONNECT SERIAL CRATE COMPUTER.
RADIATION (RF.) PROBE FOR USE WITH DMM. (DVM.-VOM), USING DIODES
AUDIO MIXER WITH 4 INPUTS & 5 OUTPUTS, WITH INDIVIDUAL GAIN SELECT & INPUT ISOLATION, INCLUDING LPF.
MOD.S IN 1MHZ AMP. OF BOONTON 72BD CAPACITANCE METER, TO REDUCE GAIN DRASTICALLY DURING TIME U.

RADIO (FM. RECEIVER) USING IC CONTAINING LO., MIXER, 2-STAGE ACTIVE IF. FILTER, LIMITER-AMP., DEMODULATOR
AUDIO AMP. WITH AGC., THAT DOES NOT SUFFER FROM THUMP AUDIBLE WITH MANY COMPRESSOR AMP.S
A-D BOARD TO TRANSFORM SINCLAIR ZX81 MICROCOMPUTER INTO "INTELLIGENT" CHART RECORDER, USING N
MOD. STANDARD PEAK DETECTOR TO MEASURE AMPLITUDE OF RGB. SIGNALS GENERATED BY VIDEO RAMDAC.
A-D SYSTEM CONSISTING OF A-D MUX. & A-D UNIT/AC. LOAD CONTROL SYSTEM USING TRIAC & LOAD CURRENT
AUDIO POWER METER
VIDEO AGC. CCT USING FEEDFORWARD TECHNIQUE
VIDEO PROCESSOR CARD (BBB)/HIGH-SPEED VIDEO ADC.-DAC. CONVERTER CARD INCLUDING CONNECTOR ALL
WIDE DYNAMIC RANGE ADC. SYSTEM USING DATEL 12-BIT ADC./INTEGRATOR WITH SENSITIVITY OF 100V-V FOR
AUDIO FUNCTION GENERATOR PROVIDING 20HZ-20KHZ SINE, SQUARE & TRIANGULAR WAVE OUTPUTS, USING U
AUDIO-VIDEO SWITCHING UNIT THAT FUNCTIONS AS SIGNAL ROUTER ALLOWING 2 OR MORE DEVICES TO BE CO
AUDIO PROCESSOR USING STEREO, SPATIAL, PSEUDO-STEREO PROCESSOR IC, TO ENHANCE STEREO & MONO
BADGE WITH FLASHING LIGHTS TRAVELING AROUND EDGE, CONSISTING OF DECADE COUNTER WITH OUTPUTS
MODULUS CCT TO CONVERT BIPOLAR ANALOG SIGNAL TO UNIPOLAR SIGNAL, USING BALANCED MODULATOR C
DCDT (DIFFERENTIAL CAPACITANCE DISPLACEMENT TRANSDUCER) SYSTEM FOR SILICA-TUBE STRAINMETER, IN
VIDEO AMP./CABLE DRIVER/CABLE-SENSE AMP./LINE RECEIVER/DIFFERENTIAL-COMPARATOR AMP.S (2)/WIDEBAN
LED. PULSING CCT/SENSOR & ANALOG PROCESSING ELECTRONICS, INCLUDING OPTICAL SENSOR, PREAMP.S, L
AUDIO PHASE DETECTOR/TRANSMITTER/RECEIVER
2-DECADE COUNTER-DISPLAY CCT FOR SCOREBOARD WITH GIANT NUMERIC DISPLAY, USING COUNTER, 7-SEG
AUDIO DEVICE (LEAD VOCAL FILTER) THAT FILTERS OUT LEAD VOCALS FROM STEREO RECORDING, LEAVING JU
MIDI. INTERFACE INCLUDING 2 UART.S, CCT TO DECODE ADDRESSES & MANAGE CONTROL LINES ON PC.'S SLOT
MOD. CENCO SPARK TIMER, WITH RELAY & THYRATRON REPLACED BY SCR., & ADDITIONAL CCT TO DIVIDE LINE
3RD ORDER INTEGRATOR CCT CONSISTING OF 1ST ORDER RC. STRUCTURE COMBINED WITH SALLEN-KEY 2ND O
MODULATOR OF INTERFACE ENABLING DIGITAL DATA TO BE STORED ON AUDIOCASSETTE RECORDER/DEMODU
MOD. FOR VARIAN FIELDIAL FIELD CONTROLLER TO PERMIT VOLTAGE CONTROL OF MAGNETIC FIELD
MODULATOR OF SET-UP TO TEST COORDINATION OF OVERCURRENT RELAYS OF DIFFERENT TECHNOLOGIES, U
INDICATOR TO WARN WHEN TELEPHONE EXTENSION IS IN USE, INCLUDING BRIDGE RECTIFIER, SCHMITT-TRIGG
AUDIO PAGER FOR TELEPHONE SYSTEM, INCLUDING TONE DECODER LOGIC, 4 TO 6S TIMER, & 1W AUDIO AMP./5
PEDESTAL THRESHOLD LEVEL & PEAK SIGNAL DETECTION CCT, USING ADC. & HIGH-SPEED BUFFER AMP.
MOD. WAVELENGTH MODULATING SPECTROMETER (WMS) SYSTEM TO MEASURE ABSOLUTE OPTICAL REFLECTI
2ND GENERATION ICP (INTRACRANIAL PRESSURE) TRANSMITTER INCLUDING PRESSURE TRANSDUCER, THERMI
2 DIGIT TACHOMETER DESIGNED TO BE PERMANENT FIXTURE IN 4 CYLINDER CAR
4-DIGIT LSI. COUNTER & CONTROLLER, TO SIGNAL ANOTHER INSTRUMENT WHEN PRESET NUMBER IS REACHED
VIDEO STANDARDS CONVERTER TO ALLOW S-VHS VCR. TO BE CONNECTED TO RGB. INPUTS OF TV. (2)/COLOUR
LED. MODULATOR OF PHOTOMETER/ACTINIC LIGHT DENSITY CONTROLLER (2)/SHUTTER CONTROLLER (2)/ADC. (2)
MOD. TO COLLINS 516F-2 PS., INCLUDING ADDITION OF 100V 1W ZENER DIODE, TO HOLD BIAS VOLTAGE CONSTA
WIDEBAND (HIGH-SPEED) PEAK-VOLTAGE DETECTOR USING HIGHLY ACCURATE, FAST SH. AMP. CONTROLLED B
ADDRESS DECODING & DIMMER ENABLE MODULE/CCT TO MULTIPLY LINE FREQUENCY BY 1024/DIMMER MODULE
LVDT. INTERFACE/LPDT (LINEAR PHASE-DIFFERENTIAL TRANSFORMER) INTERFACE/AC. HALF-BRIDGE CCT
AUDIO VOLUME LIMITER USING INVERTING AMP. CONSISTING OF LOW-NOISE OA., WHOSE GAIN IS CONTROLLED
THD. ANALYZER INCLUDING LOW-NOISE, LOW-DISTORTION OA. CONFIGURED AS WIEN BRIDGE SINE-WAVE OSCIL
AUDIO LEVELER (PROGRAMMABLE AUDIO-LEVEL CONTROLLER) USING UNITY-GAIN LOW-POWER COMPANDOR, A
RUDIMENTARY CRT. CONTROLLER
AUDIO PROCESSOR TO CLEAN UP NOISE (POP) WHEN TEACHING MORSE CODE WITH COMMODORE 64 COMPUTE
CODEC & FILTER & PERIPHERAL BOARD CONTROLLER (MAJOR PARTS OF ARCHITECTURE PROPOSED FOR ISDN
CODE-PRACTICE OSCILLATOR
ADD-ON INTERMITTENT WINDSHIELD WIPER CONTROLLER THAT PROVIDES VARIABLE ON & OFF TIME FOR WIPE
AUDIO COMPANDER
AUDIO AMP./DIRECT CONVERSION RECEIVER/MIXER-1ST OSCILLATOR CCTS/IF. AMP./PRODUCT DETECTOR-2ND

MODEL RAILROAD AUTOMATIC CONTROLLER WITH PULSE GENERATOR INITIATING COMMANDS RECORDED ON C
 WIDEBAND AMP. WITH FIXED GAIN OF 20DB TO 450MHZ/CASCADED AMP.S WITH GAIN OF 40DB/ROOFTOP AMP. S
 FAD (FILTER & DETECT) DIGITAL FILTER/5TH-ORDER ELLIPTIC FILTER STAGE/PRE-SAMPLING FILTER BUFFER STA
 LVDT. (LINEAR VARIABLE (VOLTAGE) DIFFERENTIAL TRANSFORMER) SIGNAL CONDITIONER USING PHILIPS-SIGNAL
 AUDIO SIGNAL GENERATOR USING MOTOROLA N-CHANNEL FET. & OUTBOARD FREQUENCY-DETERMINING CAPA
 MODULATION SOURCE FOR BROADBAND HETERONUCLEAR DECOUPLING/DIGITAL LOGIC/HOMONUCLEAR DECO
 MODULE TO EQUALISE MUSIC SYSTEM, BY BRIGHTENING SOUND OF GUITAR OR KEYBOARD, FOR EXAMPLE
 MOD. OF DIRECT-CONVERSION (D-C) RECEIVER TO CREATE "DOUBLY-NULLED" D-C SSB. RECEIVER, USING OA.S
 AUDIBLE WARNING DEVICE THAT WARNS OPERATOR OF PACKARD MODEL 306 SAMPLE OXIDISER WHEN SAMPLE
 AUDIO VOLTMETER (LEVEL METER) WITH RANGE OF 0 TO -80DBM TO CALIBRATE MICROPHONES & SPEAKERS, U
 AUDIBLE S-METER ADD-ON FOR REPEATER/5V REGULATOR
 WIDE BAND FM. CRYSTAL CONTROLLED TRANSMITTER USING FM. RECEIVER IC IN FREQUENCY LOCKED LOOP (F
 WIDEBAND OSCILLATOR, THE REAL PART OF WHOSE IMPEDANCE IS NEGATIVE, INCLUDING GAIN STAGE, RESON
 MOD. OF BROOKDEAL 411 PSD., CONSISTING OF BROADBAND AMP. WITH 50OHM OUTPUT
 MOD. OF INSTANTANEOUS FREQUENCY METER FOR STEADY ZERO-OUTPUT LEVEL, USING SH. (JONE8301)
 AUDIO FILTER WITH 2 WIEN-BRIDGE NETWORKS PROVIDING +-9DB OF INDEPENDENT TONE CONTROL FOR TREB
 3RD-ORDER CCT USING CASCADED OA.S, GIVING LOW VECTOR ERROR USING SIMPLE FEEDBACK NETWORK
 WIDEBAND VCA. USING ANALOG MULTIPLIER IN FEEDBACK LOOP OF HF. OA./VCA. FOR HIGHER GAINS/VCA. FOR
 AUDIO GENERATOR EMPLOYING VCO., BAND FILTER, DIGITAL TIMING & MUX., RAMP GENERATOR, DIFFERENTIAL
 MOD. INCORPORATED IN AM-300 NMR. SPECTROMETER'S T-F12 (PROTON DECOUPLER FREQUENCY GENERATION
 WIDEBAND (1.220GHZ-1.8464GHZ) VCO. WITH 1.7DBM-3DBM OUTPUT
 PAD AMP. USING MOSFET., WITH LINE RECEIVER WITH GAIN CONTROL, POLE-ZERO CANCELLATION & LINE EMITT
 RADIOFREQUENT TIMING DISCRIMINATOR THAT DERIVES TIMING SIGNAL FROM HF. OSCILLATOR OF CYCLOTRO
 VIDEO POSITION-DIGITIZER (VPD) FOR USE WITH VIDEO CAMERA & IBM PC. COMPATIBLE COMPUTER, TO DIGITIZ
 AUDIBLE CONTINUITY TESTER
 LED. DRIVER/OPTICAL RECEIVER/CCT SHOWING PRINCIPLE OF STATIC LED. MEASUREMENTS
 MOD. SWITCHED CAPACITOR BANDPASS FILTER TO CORRECT OFFSET PROBLEMS WITH FREQUENCY PEAK, CAU
 VIDEO CONTROLLER & KEYBOARD INTERFACE OF FORTH COMPUTER, INCLUDING PIA., DISPLAY PROCESSOR &
 MOD. SALLEN-KEY ACTIVE (2ND-ORDER LOW-PASS BUTTERWORTH) FILTER INCLUDING BUFFER AMP., ALLOWING
 LED. DRIVER FOR 1 CHANNEL, USING DAC. & OA.S/AMP. USING PIN PHOTODIODE/INTERFACE CCT BETWEEN APP
 BIDIRECTIONAL CURRENT SOURCE OR SINK WITH WIDE OUTPUT-VOLTAGE COMPLIANCE, & CURRENT SOURCING
 WIDEBAND DAS. USING WIDEBAND VIDEO ANALOGUE SWITCHES & MUX.S, INCLUDING SH., 8-BIT FLASH ADC., CL
 WIDEBAND 8X4 CROSSPOINT USING 8-CHANNEL MUX.S & UNITY-GAIN BUFFER AMP.S/PSU FOR MUX./MULTIPLE-C
 APD. PREAMP./CCT TO DISPLAY FIBRE BACKSCATTER CURVES ON OSCILLOSCOPE/GAAS. LASER-DIODE PULSE C
 LED. DRIVER STAGE USING LOW-IMPEDANCE EMITTER-FOLLOWER CONFIGURATION/PHOTODIODE PREAMP./OUT
 UPDATED 300-BAUD ANSWER-ORIGINATE MODEM USING TXCR, TRANSMIT FILTER, RECEIVE FILTER & DCPH, INC
 ISDN. TELEPHONE/ISDN. PRIMARY ACCESS INTERFACE USING THICK-FILM HYBRID MICROCCT CONTAINING LINE
 VIDEO CAMERA COMPUTER INTERFACE (VCCI) TO SAMPLE & BUFFER IMAGE INFORMATION FROM CAMERA
 MODULE TO INPUT VOLUME & TIME SIGNALS FROM MICROMANOMETER ON OSCILLOSCOPE, INCLUDING CONDIT
 2ND-ORDER ACTIVE CORRECTION NETWORK USING WIDEBAND OA., & HIGH-SPEED BUFFER AMP. AS DRIVER, TO
 ISDN. FLYBACK CONVERTER USING POWER CONVERTER IC USING CMOS. CONTROL CCT, WITH 60% EFFICIENCY
 BIDIRECTIONAL CURRENT-REGULATED PS. FOR BIASING OF MAGNETIC SWITCH CORES, WITH CURRENT CONTR
 MODEL RAILROAD SIGNAL CCTS/JUNCTION MODULE/TRACK MODULE
 LED. DRIVING CCT
 VIDEO INTERFACE FOR SLICING & SYNCHRONIZATION, USING VIDEO-SIGNAL COMPENSATOR IC TO CLAMP PEDE
 MOD. ATLAS 210 TRANSCEIVER CCT FOR CW. SIDETONE, USING SIMPLE AUDIO OSCILLATOR & CCT TO KEY TRAN
 RUDIMENTARY 10MHZ SYSTEM BUILT AROUND 68000 UP., THAT ACCESSES BANK OF DRAM.S
 MOD. ANTENNA-RELAY CONTROL (SWITCH) CCT, FOR USE WITH HEATH(R) SB-200 AMP.'S NEGATIVE 115V DC. AN
 AUDIO & AGC. BOARD (2)/45 TO 75MHZ VCO. USING FET. IN COLPITTS CCT/CRYSTAL OSCILLATOR/PHASE DETECT

2ND-ORDER BAND-PASS FILTER USING SWITCHED CAPACITOR ANALOGUE DELAY LINE (SCADL), USING BILATERAL MOD. PHASE-ANGLE METER WITH 1MV-DEGREE CONVERSION RATIO, INCLUDING LOWER OUTPUT IMPEDANCE & AUDIO POWER AMP. USING 4 FET.S IN OUTPUT (2)/SIMPLE PRE-AMP. ARRANGEMENT/PICKUP EQUALIZER INCLUDING AUDIO AMP. WITH DARLINGTON EMITTER-FOLLOWER OUTPUT SUPPLYING AUDIO MODULATION POWER/LAST STAGE MOD. FILTER CCT WHOSE PARALLEL-T GIVES GREATER DEGREE OF LPF.ING & DEEPER NOTCH AT 19KHZ WHILE WIDE-BAND IF. AMP. WITH BW. OF ~5MHZ, USING RF. IC'S/PHASE DEMODULATOR/S.P.L. (SPLIT-PHASE LOW) DECODER. PID. (PROPORTIONAL, INTEGRAL, DIFFERENTIAL) CONTROL UNIT WHICH, IN CASE OF PRESSURE DEVIATIONS, ADJUSTS 2ND-ORDER CONTROLLER TO PROCESS STRAIN GAGE BRIDGE SIGNAL, USING FILTER WHOSE OUTPUT IS RECTIFIED. VIDEO-BW. AMP. WITH -45DB AC. CMRR. AT FREQUENCIES UP TO 100KHZ, REJECTING COMMON-MODE NOISE SUPPLY. THD. METER/SPOT FREQUENCY OSCILLATOR/PS.

AUDIO COMPRESSOR/MASHER CCT (TRANSMITTER SPEECH PROCESSOR-COMPRESSOR TO "MASH" AUDIO PEAK DETECTOR) BIDIRECTIONAL OPTICAL TRANSCEIVER THAT OPERATES AS HALF-DUPLEX LINK, INCLUDING EMITTER (TRANSMITTER) & RECEIVER. LCD. WRISTWATCH-CONTROLLED MELODY GENERATOR CONSISTING OF TRIGGER CCT, MELODY CCT, TIMER USING 555. AUDIO MIXER/RIAA INPUT STAGE/TREBLE-LIFT MIC INPUT/TONE CONTROL

LED. THERMOMETER-STYLE BAR GRAPH READOUT

BCD.-TO-BRAILLE CODE CONVERTER TO DRIVE 4-DOT NONLATCHING BRAILLE TRANSDUCER/CCT TO CONVERT 7-SEGMENT DISPLAY TO BRAILLE

WIDEBAND CCT TO DETECT PEAK OR PEAK-TO-PEAK VALUES FOR WAVEFORMS TO 5MHZ, WITH +-1% ACCURACY

90DEG PHASE-SPLITTING CCT CONSISTING OF PASSIVE PHASE-SHIFTING NETWORK WITH WIDEBAND DIFFERENTIAL MOD. +6.25V REGULATOR CCT FOR OPTOELECTRONICS CCB BUG DETECTOR, USING NATIONAL LOW OFFSET HIGH GAIN OP.AMP.

2ND-ORDER 1KHZ ACTIVE BANDPASS FILTER/1HZ OSCILLATOR (GENERATOR) THAT CAN BE SYNCHRONIZED TO 1000HZ

MODEM CONTROLLER USING MODEM CHIP TO DIAL & ANSWER TELEPHONE CALLS, & UP. (MICROCONTROLLER) USING 555

WIDEBAND TRANSFORMERLESS CONSTANT-PHASE-SHIFT SYSTEM USING OA.S TO PROVIDE 90DEG QUADRATURE

2ND-ORDER BANDPASS RLC. FILTER WHOSE INDUCTANCE IS REPLACED BY HIGH-Q L-SIMULATOR (INDUCTOR SIMULATOR)

AUDIO WAVEFORM SHAPER TO PICK VOICE OUT OF STATIC WHEN LISTENING TO RADIO TRANSMISSION, INCLUDING 555

CFD. USING 2 HIGH-SPEED IC COMPARATORS WITH RESPONSE TIME OF <6NS, WITH 1ST STAGE BEING DISCRIMINATOR

MOD. KERWIN-HUELSMAN-NEWCOMB (KHN) BIQUAD (FILTER) WITH CENTER FREQUENCY OF 300HZ, Q OF 50 & GAIN OF 10

AUDIO BOARD OF UP. REPEATER CONTROLLER, USING OA.S, AUDIO GATES & CMOS. IC'S, PROVIDING AUDIO GATE

AUDIO POWER AMP. THAT GIVES 20DB GAIN AT OUTPUT, USING IC (CHIP) ABLE TO DRIVE SMALL SPEAKER (PUT IN MODEL ROCKET LAUNCHER (LAUNCH TIMER & AUTOMATIC-OFF TIMER) TO AID TRACKING, RECOVERY & SAFETY

RADIO SHACK MODEL 100 SERIAL ADAPTER TO TURN MODEL 100 INTO MODEM FOR USE WITH ANY COMPUTER

LED. LEVEL METER FOR APPLICATIONS REQUIRING WIDE DYNAMIC RANGE LEVEL DISPLAY/CCT SHOWING LM3915

AUDIO POWER METER EMPLOYING MULTIPLIER CONSTRUCTED AROUND TRANSCONDUCTANCE AMP./PSU.

MODEL III MICROCOMPUTER CASSETTE INPUT LOGIC/ADC. CCT THAT CONNECTS TO CASSETTE JACK OF MODEL 100

LED. READOUT S-METER

40DB AUDIO AMP.

AUDIO VOLUME BOOSTER (AUDIO AUGMENTER)

AUDIO PS. MODULE

AUDIO AMP. OUTPUT POWER METER

AUDIBLE TONE GENERATOR (OSCILLATOR) BUILT AROUND LV. AUDIO AMP., TO DRIVE 8OHM SPEAKER, USABLE AS

RADIATION AUDIO ALARM USING GEIGER-MULLER (G-M) TUBE, 2KHZ HARTLEY OSCILLATOR, HV. PS. & AUDIO POWER AMP.

LED. BAR GRAPH PEAK DETECTOR USING 10-SEGMENT DISPLAY, LED. DRIVER & OA. CONFIGURED AS FOLLOWER

WIDEBAND, LOW INTERMODULATION ELECTRONIC ATTENUATOR USING UNITRODE PIN ATTENUATOR DIODES IN SERIES

FDDI (FIBER DISTRIBUTED DATA INTERFACE) NODE USING ADVANCED MICRO DEVICES' SUPERNET CHIP SET & BUFFER

AUDIBLE SWR. METER (VFC.) TO ALLOW HAM TO "HEAR" ANALOG METER, MEASURING METER VOLTAGE & CONVERTING TO SWR

VIDEO SWITCHING CCTS USING ANALOG SPDT. SWITCHES EACH OF WHICH HAS 3 SECTIONS THAT CAN BE SWITCHED

ADDITIONAL GAIN STAGE FOR USE IN MOD. OF PITMAN 238 ISOTOPE ASSAY CALIBRATOR, USING OA./LED. INDICATOR

LED. PILOT-LIGHT CCTS FOR USE WITH 117V AC. (2)/EXPANDED-RANGE POLARITY INDICATOR/VISUAL CW. DECODER

MOD.S FOR 25KHZ CALIBRATOR/BARGRAPH S-METER MOD./R.I.T. CCT

MODEL OF UTERUS-PLACENTA-FETUS SYSTEM USING DEVICE THAT PROPORTIONS AT ITS OUTPUTS REPRESENTS

PID. & PS. CCT OF PRECISION TEMPERATURE PROGRAMMER, USING IA. ERROR AMP. & HV.-HIGH-CURRENT OA./F
NODE PROCESSOR HARDWARE INCLUDING 8088 PROCESSOR WITH 8087 COPROCESSOR, ADDRESS DECODING
MODE BEATING DETECTOR CCT INCLUDING PYROELECTRIC CRYSTAL, RLC. FILTER, RECTIFIER CCT, VOLTAGE C
RADIO-RECEIVER FRONT END USING 2GHZ LNA.-MIXER/DECT HANDSET (BBB)/CCT USING DIGITAL TR. PLL. SYNT
PADDLE-CCT
AUDIO AMP./PRODUCT DETECTOR/IF. AMP./AGC./1ST MIXER
MODEM MINDER TO ACOUSTICALLY SENSE 1270HZ TONE WHEN COMPUTER RINGS UP REMOTE & RECEIVES ANS
RADAR CCT INCLUDING DATA-ACQUISITION & -PROCESSING & PEAK-DETECTION STAGES/DOUBLE-BUFFERED RA
LED. (PULSED LIGHT) SOURCE CAPABLE OF REPLACING LASER IN MEASUREMENTS NOT REQUIRING COHERENC
RADIO SHACK AM. RECEIVER/BFO. & PRODUCT DETECTOR FOR CW. & SSB. RECEPTION/SIMPLE 80M CONVERTER
ZCD. CCT USING HYBRID WIDE-BAND AMP. WITH FET. INPUT, THAT WORKS AS CURRENT-TO-VOLTAGE CONVERT
AUDIO LIMITER THAT TURNS TV. VOLUME DOWN WHENEVER SOUND GETS TOO LOUD, USING OPTOISOLATOR W
MOD. FORM OF HV. ADJUSTABLE PS. BASED ON 1.5A 3-TERMINAL VOLTAGE REGULATOR, PROVIDING CAVITY & F
4-DECADE RANGE VARIABLE OSCILLATOR WITH VARIABLE DUTY-CYCLE & NO RANGE SWITCH
VIDEOTEX TERMINAL/CCT FOR AUTOMATIC POWER-ON RESET
2ND-ORDER LPF. USING TEMPERATURE COMPENSATED OA.S/HIGH-PASS (HP) FILTER/BAND-PASS (BP) FILTER
AUDIBLE CONTINUITY BEEPER (TESTER) (CHECKER) WITH AUTOMATIC POWER-DOWN, USING DUAL COMPARATO
VIDEO MIXER & BLANKING AMP./5V POWER SOURCE/AUDIO BUFFER (SIMPLE EMITTER FOLLOWER)
BIDIRECTIONAL AMP. THAT AMPLIFIES BOTH SIGNALS OF DUPLEX TELEPHONE CONVERSATION, BASED ON NEG
WIDE-RANGE (8:1) CONVERTER USING 3 2:1-RATIO DC.-DC. CONVERTERS OPERATING IN PARALLEL IN MASTER-S
MOD. SCHMITT TRIGGER BASED OSCILLATOR PROVIDING VOLTAGE CONTROL, THAT GENERATES TRIANGULAR &
AUDIO POWER AMP. THAT ADDS GAIN OF 10/MOD. TO SOFTEN KEYING BY BYPASSING OUTPUT OF REGULATOR T
WIDEBAND VHF. AMP./80W PUSH-PULL STEREO AMP./BROADBAND LINEAR AMP.
AUDIO AMP./PROGRAMMABLE GAIN CONTROL/4-TO-20MA CURRENT LOOP DRIVER/BIPOLAR CURRENT SOURCE
MOD. PIERCE OSCILLATOR WITH COMMON BASE BUFFER STAGE, USING CRYSTAL OPERATED ABOVE SERIES RE
MIDAS (MICROSTRIP DETECTOR ANALOG-TO-DIGITAL SYSTEM) INCLUDING INPUT, CONVERSION & UPDATING, TIM
UPDATE PROCESSOR USING MICROPROGRAMMED SEQUENCER & PARALLEL FLOATING-POINT PROCESSORS (B
LED. POWER INPUT METER TO PROVIDE DIRECT READOUT OF PLATE OR COLLECTOR INPUT POWER IN TUNE OF
LED. VISUAL INDICATOR TO ADD TO AUDIBLE LOGIC PROBE, USING TRISTATE LED. (POEL8007)
VIDEO CHANNEL OF MONITOR, WITH ADJUSTMENT FOR CONTRAST & BRIGHTNESS, USING WIDEBAND VIDEO AM
CFD. FOR TOF. SECTOR UNIT TO PERFORM TIME DIGITIZATION & PROVIDE INPUT TO TRIGGER LOGIC OF DELPHI
VIDEO IMAGE PROCESSING CARD TO MEASURE LEVITATED PARTICLE'S DIAMETER BY COUNTING NUMBER OF SC
AUDIO STAGES OF PHASING SSB. TRANSMITTER USING PHASE-SHIFT NETWORK/WIDEBAND ACTIVE PHASE-SHIF
AUDIO POWER AMP. USING COMPLEMENTARY DESIGN, INCLUDING DRIVER & OUTPUT STAGES/CCTS TO MEASUR
AUDIO AMP. FOR MICROPHONE OR LINE AUDIO INPUT/225MW 2M FM. TRANSMITTER INCLUDING 12MHZ OSCILLAT
MOD.S TO DIAGRAM IN CQ OF NOVEMBER, 1982
MOD. TO UNIDEN PRESIDENT 10M FM. RIG (RADIO) FOR EASY REPEATER OPERATION, USING 10.7975MHZ CRYST
AUDIO CCT WITH PHASE SHIFT OF ~12DEG, INCLUDING EMITTER-FOLLOWER WITH 120KOHM INPUT IMPEDANCE,
CODE PRACTICE OSCILLATOR (CPO) CONSISTING OF SIMPLE HARTLEY-TYPE AUDIO OSCILLATOR USING TRANSI
2ND ORDER LPF. & DIFFERENTIATING AMP., FOR USE IN BIOMECHANICAL MEASURING EQUIPMENT TO DETECT F
MOD. HIGH-IMPEDANCE TRANSISTOR MATCHING CCT TO PROPERLY MATCH CRYSTAL FILTER IN COLLINS 75S3C
ADDRESS GENERATOR TO BANK SELECT TO 1MBYTE IN 64K STEPS/ADDRESS MUX. (BBB)/BIDIRECTIONAL BUFFE
MOD. PS. FOR DRAKE R-4C COMMUNICATIONS RECEIVER, WITH 14V TO AUDIO AMP. ONLY, TO REDUCE EXCESSI
LED. FLASHER TO BE HOOKED UP TO KEY OR KEYSER/FLASHER CONTAINING 5 TRANSISTORS & 5 LED.S INCLUDIN
MOD. DIFFERENCE-AMP. CCT USING EXTERNAL TRANSISTORS TO BOOST OUTPUT SWING CLOSE TO VOLTAGE-S
RADIO RECEIVER USING FERRANTI IC THAT MAKES T.R.F. (TUNED RF.) RECEIVER, INCLUDING TRANSISTOR TO C
INDEPENDENT SIDEBAND (ISB) CONVERTER (ADAPTER) FOR DRAKE TR-4C TRANSCEIVER TO TRANSMIT VOICE &
AUDIO CONTINUITY TESTER FOR CHECKING PCB. FOILS & LOW RESISTANCE VALUES
AUDIBLE ALARM CCT FOR CAR, USING SONALERT, TO WARN THAT TURN SIGNAL IS STILL BLINKING AFTER TURN

LED. BAR GRAPH UNIVERSAL INDICATOR
MIDI. SWITCH BOX TO RECONFIGURE MIDI. SETUP WITHOUT MANUAL REPATCHING, USING OPTO-ISOLATORS, LINE
INDUCTANCE-TUNED LOWPASS RF. ANTENNA MATCHING NETWORK USING VARIABLE INDUCTANCE, FOR LOW-POWER
4-DIODE TRIANGLE-TO-SINE WAVE CONVERTER THAT DOES NOT INTRODUCE ANY PHASE SHIFT INTO WAVEFORM
VIDEO BUFFER USING SINGLE TRANSISTOR, TO ISOLATE 1 STAGE OF HARDWARE FROM ANOTHER & TO ENABLE
2-DIODE SHUNT SHAPER WHOSE OUTPUT IS 2700V (INTO 50OHM) IMPULSE WITH 80PS FWHM., INCLUDING COAX,
MODERN TUNED RF. (TRF.) RECEIVER
ADDRESS & DECODE LOGIC THAT DETERMINES ADDRESS OF REMOTE & PERFORMS DECODING REQUIRED BY C
MOD. TENTEC ARGOSY II XCVR, TO REDUCE INTERNAL NOISE FROM RF. AMP., & IMPROVE AGC. ACTION, DYNAM
VFD (VACUUM FLUORESCENT DISPLAY) INTERFACE/PARALLEL INTERFACE FOR DISPLAY, USING OCTAL D-TYPE I
MOD. TO RECHARGEABLE SOLDERING IRON, WITH DIODE REMOVED FROM CHARGING UNIT & INSTALLED IN IRON
LED. DRIVER CCT FOR CMOS. OR TTL. GATES, USING SWITCHING TRANSISTOR/HIGH SENSITIVITY DARLINGTON L
MODERN CRYSTAL RADIO RECEIVER ("CRYSTAL SET") CONTAINING HALF-WAVE RECTIFIER) USING GERMANIUM
ADDER-SUBTRACTOR IN WHICH ACTUATING EDGE OF CLOCK PULSE CAUSES ADDING OF INPUT BINARY INFORM
BIDIRECTIONAL COMMUNICATOR USING ACE TO PERFORM PARALLEL-TO-SERIAL CONVERSION OF DATA RECEIV
WIDE BW. PHONO PREAMP./CENTER-CHANNEL CCT/PS. CCT
INDUCTANCE BRIDGE CONSISTING OF PIERCE CRYSTAL OSCILLATOR, EMITTER FOLLOWER & BRIDGE CCT, CAPA
MODULATED LIGHT RECEIVER/MODULATED LIGHT TRANSMITTER
VIDEO-INPUT CCT, VM-2 MODULATOR & INTERFACE CCT TO AMP./VM-4 MODULATOR
MOD. TO LIGHT SEQUENCER (RAEL8106, RAE8107)
MOD. TO TIMEX-SINCLAIR 1000 OR ZX81, TO PROVIDE DIRECT VIDEO OUTPUT WITH CRISP CHARACTERS & WHITE
MOD. OF CCT TO GENERATE HV. WITH AUTO IGNITION COIL, INCLUDING SCR. & DIAC, TO ENSURE SPURIOUS FIR
ADDRESS DECODING & HANDSHAKING SECTION OF INTERFACE CCT/ANALOG INPUT & OUTPUT SECTIONS/CCT S
INDUCTANCE METER USING 8100KHZ CRYSTAL OSCILLATOR, TO PERMIT MEASUREMENT OF INDUCTANCE FROM
ADDRESS DECODER & HANDSHAKING CCT (BBB)/REACTION COIL HEATER-THERMOSTAT CCT USING MOSFET. DR
WIDE-BAND, LINEAR, PULSE AMP. WITH CLOSED-LOOP GAIN OF ~10, GAIN-BW. PRODUCT OF 350MHZ & INTEGRAL
LED. DRIVER IN WHICH LED. IS DRIVEN WITH 80NS PULSES THROUGH VMOSFET. AMP./PHOTODIODE AMP.-LINE D
MOD. TO FREQUENCY STANDARD, CONSISTING OF BATTERY BACKUP PROVIDING POWER & CHARGING CURREN
MOD. TO ADC0817 EOC. CCT.
BIDIRECTIONAL SHIFT REGISTER (SR) IN DISCRETE TTL. LOGIC (BBB)
RADIO SHACK 43-107 TELEPROTECTOR THAT ALLOWS EXTENSION PHONE ON LINE ONLY WHEN NO OTHER TELE
AUDIO OSCILLATOR/DIODE RELAXATION OSCILLATOR/LED. & INJECTION LASER DRIVER
WIDE RANGE DC. AMMETER (POSITIVE DC. ION CURRENT METER) THAT OPERATES AT HV. UP TO 30KV, CONSIST
AUDIO MILLIWATT METER TO MEASURE RECEIVER'S INTERNALLY GENERATED NOISE, & MINIMUM DISCERNIBLE
MOD. OF CCT FOR VOX, ALLOWING TIMER TO BE RETRIGGERED CONTINUOUSLY (QST7603)
MOD. (OPTIC INPUT) SOLID-STATE AC. RELAY FOR DIGITAL-OUTPUT CONTROL
AUDIO OVERLOAD PROTECTION CCTS (3)
MODULATOR-MIXER FOR ENDOR FM., CONSISTING OF VOLTAGE-CONTROLLED SAW. OSCILLATOR, RF. MIXERS, A
AUDIO BLANKER (PULSE BLANKER) INCLUDING CCT TO GENERATE CONTROL VOLTAGE PULSES, USING JFET., TO
WIDE-BAND 1MHZ ISOLATION AMP. TO AMPLIFY MULTIPLIER OUTPUT FOR SECONDARY ELECTRON VIDEO IMAGIN
20DB HIGH-IMPEDANCE AMP. THAT WORKS AT AF.S
WIDE-BAND TRANSCONDUCTANCE AMP. FOR CURRENT CALIBRATIONS
MOD. FOR KWM-2, THAT CHANGES AGC. TO HANG-TYPE BUT RETAINS FAST ATTACK CHARACTERISTIC, CAUSING
MEDIUM FREQUENCY CONVERTER WITH 10M IF. OUTPUT TO RECEIVER
MIDI. PLAYBACK UNIT INCLUDING NATIONAL MICROCONTROLLER (PROCESSOR), 8-BIT DAC., EPROM., OPTOISOL
CCD. INTERFACE (OMA LESS DATA ACQUISITION PART) (BBB)/CCD. CONTROL CCT & CCD. PREAMP., BUILT ON AD
MODEM USING VIDEOTEX-MODEM IC USING SWITCHED-CAPACITOR FILTER, THAT PROVIDES DEMODULATION, M
SMD (STORAGE MODULE DRIVE) INTERFACES USING HARD-DISK CONTROLLER IC (2)/PRECOMPENSATION CCT T
MADI TRANSMITTER CCT BUFFER (LINE DRIVER) TO ACHIEVE CONNECTION BETWEEN ECL. TRANSMITTER & COA

AUDIBLE HIGH-WATER ALARM FOR RECEIVER OF STEAM-HEATED WATER STILL, TO PREVENT FLOODINGS DUE TO
DDDF CCT

APD.-PIN DIODE TEST CCT INCLUDING RC. NETWORK AT OUTPUT OF DIODES, FOR SPIKE CANCELLATION/BALANCE
MODULATOR INCLUDING FUNCTION GENERATOR, BUTTERWORTH FILTER, GAIN & OFFSET AMP., & BUFFERS/DEN
MODULATION CCT TO PRODUCE CHORUSING, TO BE ADDED TO BOSS DD-2 DIGITAL DELAY, USING PRECISION FU
MODULATED IR. TRANSMITTER/RECEIVER USING 40KHZ IR. RECEIVER MODULE/CLOSED-LOOP LASER DIODE MO
AUDIO-POWERED (AUDIO ACTIVATED) TAPE RECORDER CONTROLLER TO TURN RECORDER ON & OFF THROUGH
WIDE-BAND PREAMP. WITH 42DB OF GAIN AT 40MHZ & 25DB GAIN AT 250MHZ

AUDIO SWEEP-BURST (SIGNAL) GENERATOR USING FUNCTION-GENERATOR, WITH RANGE OF 20HZ TO 20KHZ IN
RADFAX DECODER THAT LINKS IBM PC. & SW. RECEIVER (RADIO), TO GET WEATHER CHARTS & READ RTTY., BAS
MOD. SINGLE-TRANSISTOR PSEUDO-ACTIVE DIODE SOFT SWITCHED BUCK-TYPE DC.-DC. CONVERTER USING MO
MODEM USING FSK. DECODER (DEMODULATOR) TO RECEIVE 2225HZ TONE FROM EARPIECE, & FSK. GENERATOR
BIDIRECTIONAL 5V 1W POWER ISOLATOR WITH 3750V AC. ISOLATION, THAT CAN BE ENERGIZED FROM EITHER S
MOD. DRIVE CCT FOR CONTROLLED HOLLOW-CATHODE LAMP CURRENT, USING PROGRAM-CONTROLLED SOLID
MOD. TO FT-301 TO CURE KEY-CLICK PROBLEM BY REDUCING OVERALL RESISTANCE TO BASE OF Q106, TO PRO
AUDITORY DIP-OSCILLATOR CCT WITH AUDIO TONE CCT TAKING PLACE OF VISUAL METER

AUDIO-SIGNAL SECTION OF VOICE-RECORDING-PLAYBACK SYSTEM THAT DIGITALLY SAMPLES & STORES MESSA
MOD. TO ISOLATION AMP. TO ALLOW SINGLE-SUPPLY OPERATION, USING DIFFERENCE AMP. TO ESTABLISH ARB
BIDIRECTIONAL RF. ANALOGUE SWITCH USING SILICONIX DMOS. POWER FET.S/RF. ANALOGUE SWITCHING SYST
AUDIO RECORDER & VOICE IDENTIFIER (ID), USING IC THAT CONTAINS MICROPHONE PREAMP., STORAGE CCT &
MOD.S TO VFO. CCT

AUDIO COMPRESSOR-LIMITER FOR TRANSMITTER, USING DYNAMIC RANGE PROCESSOR & PREAMP./EXPANDER
MOD. OF VFO. ASSEMBLY OF KENWOOD RIG WITH RECEIVER INCREMENTAL TUNING (RIT) FUNCTION, USING VAR
VIDEO INTERFACE BETWEEN CCU (CAMERA CONTROL UNIT) & APPLE II+ COMPUTER/CCT FOR WINDOW GENERA
MOD. +-62V PS. REGULATOR FOR ADCOM GFA-555 200W-CHANNEL POWER AMP., THAT RETAINS HIGH CURRENT

AUDIO CCT OF HALLICRAFTERS SKY BUDDY RECEIVER (RADIO), INCLUDING DETECTOR-1ST AUDIO & AUDIO-OUT
ADDRESS DECODING SECTION OF IBM PC. BASED DATA ACQUISITION BOARD/ADC. & SUPPORT CCT/TIMER CCT U
LED. DRIVE CCT SUITABLE FOR USE WITH HIGH POWER LED. OR MULTIPLE LOW POWER LED.S, IN APPLICATIONS
5 DECADE KELVIN-VARLEY DIVIDER BUFFER/FILTER FOR ELECTRONIC SCALE/CCT TO EXTEND RANGE OF VFC./V
VIDEO-SYSTEM CONNECTION USING MONOLITHIC TRIPLE-8-BIT COMPOSITE-VIDEO DAC. DRIVING RED, GREEN, &
WIDE-RANGE I-F CONVERTER THAT CONVERTS PHOTODIODE CURRENT TO FREQUENCY THAT RANGES FROM 0.
WIDEBAND BOOSTER STAGE/RAIL-TO-RAIL OUTPUT STAGE/CCT TO PROVIDE HV. OUTPUTS FROM CCT USING +-1
INDUCTANCE BRIDGE WITH 50OHM SOURCE/CABLE SENSE AMP. (80MHZ BRIDGING-AMP.)/BRIDGE CCT USING VID
MODULAR SYNTHESIZER

WIDEBAND PHASE SHIFTER USING 3 QUADRATURE COUPLER SECTIONS IN CASCADE, USING ADJUSTABLE REAC
MOD. (REVISED) PS. FOR DYNACO FM-3 TUBE FM. TUNER, SHOWING RECTIFIER TUBE, WITH ADDITIONAL CAPACI
RADIO RECEIVER CONSISTING OF RF. AMP., 1ST & 2ND OSCILLATOR-MIXERS, IF. AMP.-DETECTOR, SIGNAL STREI
MODULATOR CCT USING HYDROGEN THYRATRON AS SWITCHING DEVICE

MOD. TO ATARI 1040ST MICROCOMPUTER, TO ALLOW CONNECTION OF 2ND DISK DRIVE TO SHUGART STANDARD
STEPPER-MOTOR CONTROLLER CCT TO AMPLIFY OUTPUT SIGNAL FROM 8255 IO. CARD, INCLUDING BUFFERS, O
CHEAP & RELIABLE A440 TUNING REFERENCE TO BE CONNECTED TO EXISTING AMP.-STUDIO TALKBACK SYSTEM
VIEWDATA RECEIVER WITH KEYBOARD DATA ENTRY & TAPE-RECORDER STORAGE CAPABILITY UNDER CONTROL
CHEAP COMPACT VERY USEFUL DUAL PURPOSE LOGIC TESTER

ELECTRONIC PLAYMATE THAT IS ACTIVATED BY TOUCH PLATES, USING GIANT (JUMBO) LED.S, HEXFET.S & DECA
INEXPENSIVE CCT THAT MAINTAINS DIGITAL COUNTING AUTOMATICALLY DURING POWER OUTAGE
PIECE OF TEST GEAR THAT USES COMPUTER & 2 IC'S AS SIGNAL INJECTOR & TRACER
PSEUDORANDOM-SEQUENCE GENERATOR TO PRODUCE DIGITAL SEQUENCES FROM 7 TO 127 BITS IN LENGTH, I
ENERGY DISPERSIVE X-RAY DIFFRACTION SYSTEM BUILT AROUND 3 UP.S, THAT CAN ACQUIRE 4 SPECTRA IN PR
PRE-AMP. CCTS (2)/PRE-AMP. CCT WITH ADJUSTABLE GAIN CONTROL

ELECTRONIC LED. PENDULUM METRONOME TO REPLACE MECHANICAL MUSIC TIMER, USING TIMER, UP DOWN C
"MEDFER" 160M EXCITER OF SIMPLE MEDFER BEACON, FOR 1600-1900KHZ/BIPOLAR 1.6-1.9MHZ 190-160M FINAL A
CHESS TIMER USING OSCILLATOR, 14-STAGE BINARY COUNTER & PZT. AS OUTPUT DEVICE
ELECTRONIC DICE CCT
INEXPENSIVE RADIATION COUNTER
FREQUENCY CONVERTER USING PIEZOELECTRIC ULTRASONIC SENSOR, THAT MAKES AUDIBLE BURSTS OF ULT
EXERCISE PACER/IR. DETECTOR/DUTY-CYCLE DETECTOR/LIGHT CHASER TO PRODUCE FLICKERING LIGHT SHOW
ELECTRONIC METRONOME
ELECTRONIC SLOT MACHINE USING 3 OSCILLATOR-TIMERS TO CREATE STREAM OF PULSES, DECADE COUNTER
STEPPER-MOTOR-DRIVER CCT USING COUNTER-DIVIDER & BIPOLAR TRANSISTORS/DRIVER USING HEXFET.S/DU
STEPPER CONTROLLER WITH DIGITAL INPUT, PROVIDING VARIABLE DRIVE FOR STEPPING MOTOR, INCLUDING D
FEEDBACK COMPENSATION SYSTEM USED FOR PHASE LOCKING BACKWARD WAVE OSCILLATOR (BWO)
FREQUENCY TRIPLER INCLUDING PHASE DETECTOR, ZERO-POLE LPF., & VCO./TRIGGERING BOX USING PRESET
CHEAP & SIMPLE CCT TO CONSERVE BATTERY POWER, WITH POWER-ON PERIOD OF 13S & CURRENT LIMITING C
ELECTROGONIOMETRY SYSTEM TO MONITOR RECOVERY OF MOTOR FUNCTION, USING VOLTAGE SOURCE, AMP
PSEUDO-RANDOM TONE ALARM
FREQUENCY MULTIPLIER (COMB FREQUENCY GENERATOR) USING HP SRD. WITH 50PS TRANSITION TIME, OPER
CHEAP & SIMPLE CAR ALARM TO PROTECT CAR & CONTENTS FROM THEFT, INCLUDING DOOR & TRUNK SWITCH
FREQUENCY DOUBLER USING MONOSTABLE MULTIVIBRATOR & 2 RC. INTEGRATORS THAT DETECT LEADING & T
ELECTRONICS SYSTEM FOR PRESSURE CHAMBER FOR SMALL-LEAFED CEREALS, INCLUDING PRESSURE TRANS
FREQUENCY (WAVE) GENERATOR & SELECTOR CCT, HAVING LF. & HF. SELECTORS, & ADJUSTABLE FOR AMPLIT
SPECIAL-EFFECT LIGHTING-CONTROL CCT WITH SIMULATED LF. SINE WAVE OUTPUT, TO INCREASE & DECREAS
FREQUENCY STANDARD USING TV. RECEIVER TO GENERATE REFERENCE PULSE, FROM HV. 15625HZ LINE IN EH
THERMAL DISCRIMINATOR CONSISTING OF NON-INVERTING AMP., 2 COMPARATORS, FF. & DARLINGTONS
PREAMP. WHOSE 1ST OA. HAS FET. INPUT WITH 10^{11} OHM INPUT IMPEDANCE & 2ND OA. GIVES GAIN OF ~ 9 , TO A
INEXPENSIVE PSD. CCT USING DUAL ANALOGUE SWITCH, COMPARATOR & DIFFERENTIAL INPUT OA.
ELECTROLYSIS & CONTROL CCT FOR COULOMETRIC TITRATOR/END POINT DETECTION CCT/PS.
ELECTRONIC LIGHT FLASHER CCT TO HELP PEOPLE READ HOUSE NUMBER FROM STREET
PREAMP. SWITCH-ON TRANSIENT ELIMINATOR
INEXPENSIVE DC. AMPERE-HOUR (AH) METER USING ELECTROMECHANICAL COUNTER, USEFUL TO DETERMINE
ENERGY CONTROLLER TO CUT FUEL COSTS & INCREASE EFFICIENCY OF HEATING SYSTEM, WITH RELAY IN SER
INEXPENSIVE THICKNESS-DEPOSITION RATE METER USING OA.S & DPM. CHIP THAT IS ADC. & LCD. DRIVER, FOR
THERMISTOR POWER METER USING OHMMETER CONNECTED TO THERMISTOR LEADS TO MEASURE RESISTANC
INEXPENSIVE MULTICHANNEL SCALER (MCS) THAT DISPLAYS 1024 CHANNELS, INTERFACED TO 8-BIT INTEL-8085
OVERVOLTAGE PROTECTION CCT/MOSFET. DRIVING (DRIVER) CCT CONTAINING 2 MOSFET.S IN PARALLEL, WHO
ELECTRONIC PF. METER BASED ON ADC. PROVIDED WITH RATIO METRIC FACILITIES, INCLUDING HIGH SLEW RAT
STEREO ROTO-BLENDER
SPEECH RECOGNITION SYSTEM TELEPHONE INTERFACE TO COMMODORE 64(R) MICROCOMPUTER, INCLUDING
ELECTRONIC RESISTANCE BRIDGE TO COMPARE UNKNOWN 4-TERMINAL RESISTOR WITH PRECISION RESISTAN
BLEEDER STRING OF R 1294 U PHOTOMULTIPLIER (PHOTOMULTIPLIER & VOLTAGE DIVIDER)
CHEAP, SIMPLE, OPTICAL COUPLED ISOLATOR CCT TO ISOLATE RS232 INTERFACE USING 2 SIGNALS IN EACH DI
BREEDER CCT FOR 5IN HAMAMATSU PHOTOMULTIPLIER OPERATED AT FIXED HV. OF 2.4KV
INEXPENSIVE LASER BURGLAR ALARM CCT
STEPPER-MOTOR DRIVE CCT/RTC./OPTICAL FLUID DETECTOR/VALVE-DRIVER
WEE BATTERY-OPERATED POCKET RADIATION CHIRPER USING SMALL CDTE CRYSTAL PHOTON SENSOR AS DET
FREQUENCY DIVIDER FOR DIVISION BY FACTORS OF 2, 3, & 4, USING FF.S & NAND GATES/50-, 33.3-, & 25KHZ ACT
FREQUENCY SYNTHESIZER/28-BIT ADDER CHAINS/MEMORY & OUTPUT CCTS/TIMING, CONTROL & DISPLAY CCTS
1 END OF FIBER OPTIC DATA LINK, CONSISTING OF LED. TR. PAIR/2ND END WITH LEVEL-SHIFTING TO INTERFACE
ELECTRON TUBE FEEDBACK SYSTEM TO STABILISE EMISSION CURRENT/CCT TO STABILISE DISPLAY INTENSITY

STEPPER MOTOR CONTROL & DRIVE CCT, USING STABLE CURRENT DETECTION RESISTORS WITH TIGHT TOLERANCE
DWEELL METER USING FREQUENCY-TO-VOLTAGE & VFC.S FOR AUTOMOBILES
FEEDBACK TYPE OF 250V VACUUM TUBE VOLTAGE REGULATOR (DC. POWER AMP. WITH TOPOLOGY OF HV. OA.)
IEEE STD 488 INTERFACE USING GPIB. TALKER-LISTENER CHIP & GPIB. CONTROLLER CHIP
PIERCE CRYSTAL OSCILLATOR CCT/SIMPLE PLUG-IN CRYSTAL CALIBRATOR CCT MOD. FOR DRAKE 2C RADIO
SPEECH DIGITIZATION UNIT, USING COMPRESSION TECHNIQUES, BBC MICROCOMPUTER & ADPCM. SPEECH CHIP
COEPP (COMPUTER OPERATED EQUIPMENT FOR PARALYZED PERSONS) INTERFACE/OUTLET INTERFACE/RADIO
BLEEDER (RESISTOR) NETWORK FOR OPTIMUM OPERATION OF R2404 PMT. WITH RECTANGULAR & DUAL PHOTO
PREAMP. (1-A AMP.) OF AC.-OPERATED RADIOEAR HEARING AID FOR HEARING LOSS, USING VACUUM TUBES
INEXPENSIVE CCT FOR CONSTANT-CURRENT CONSTANT-VOLTAGE ANODIC OXIDATION, USING VOLTAGE REGUL
INEXPENSIVE EPROM. PROGRAMMER FOR C64 COMPUTER/AC. POWERED TRANSFORMER RECTIFIER REGULATO
PRESSURE TRANSDUCER ADAPTER INCLUDING HP 78801-66531 PRESSURE PREAMP. BOARD, 3-POLE 50HZ LPF.,
PREAMP.-RECEIVER COMBINATION USING VIDEO AMP.S, INCLUDING PREAMP. WITH COMMON-BASE INPUT STAG
PREAMP. FOR EXPERIMENT TO MEASURE ELECTRICAL ENERGY IN LC. CCT, USING JFET.S
ELECTRIC-BLANKET CONTROLLER THAT CONTROLS POWER SUPPLIED TO HEATING ELEMENTS WITH TRIAC USIN
PREAMP./AMP.-DISCRIMINATOR/REFERENCE VOLTAGE SUPPLY/ENCODING SYSTEM FOR 63-WIRE COUNTER
OPEN-LOOP MOTOR-SPEED CONTROL/PWM. MOTOR-SPEED CONTROL/PFM. MOTOR-SPEED CONTROL/SCR. MOT
FEEDBACK LATCH/CCT SHOWING HOW STATUS-REGISTER BIT IS LOADED FROM MULTIPLE SOURCES/INTERRUPT
PRECISION 4 QUADRANT TIME-DIVISION ANALOGUE MULTIPLIER CONSISTING OF AM., COMPARATOR, LPF. & TRIA
AVERAGING CCT CONSISTING OF FAST COMPARATOR TO SUPPRESS NOISE IN TV. SIGNAL, & RC. INTEGRATOR T
INEXPENSIVE (<\$200) STABILIZED LASER SYSTEM WITH LIGHT INTENSITY STABILITY OF ~1%, USING DETECTOR (C
FREQUENCY MULTIPLIER FOR RECTANGULAR-WAVE INPUT WITH OUTPUT WAVEFORM HAVING SAME DUTY CYCL
EVENT CONTROLLER OF UP.-CONTROLLED PHOTON COUNTER FOR APPLICATIONS REQUIRING SEQUENTIAL CO
FREQUENCY SYNTHESIZER USING DUAL-MODULUS PROGRAMMABLE DIVIDER IN SINGLE LOOP/PROGRAMMING C
ELECTRONIC CONTROL CCT USING PROGRAMMABLE DIGITAL DELAY TIMER OPERATED IN DELAY-ON & DELAYED
SPEECH PROCESSOR WHICH CAN BE ADAPTED TO ANY COMPUTER WITH 7 ADDRESS, 7 DATA & 2 CONTROL LINE
PRE-EMPHASIZER
OVERVOLTAGE CUTOUT FOR AC. GENERATORS
FREQUENCY COUNTER, DIGITAL
INEXPENSIVE ELECTRIC EYE
PRECISION DIGITAL PULSE GENERATOR/COUNTER SECTION/LEVEL SHIFTER/PS.
STEREO PREAMP. TO GO BETWEEN TURNTABLE & AMP.
FREQUENCY DOUBLER FOR RECTANGULAR INPUTS, THAT WORKS INDEPENDENT OF FREQUENCY & DUTY CYCL
PRECISION HALF-WAVE RECTIFIER USING INVERTING AMP. CONFIGURATION/PRECISION FULL-WAVE RECTIFIER
QUENCH PROTECTION CCT (CCT THAT PROTECTS INSTRUMENTS CONNECTED OR COUPLED TO SUPERCONDUCT
ELECTRONIC LOCK (DECODER THAT COMPARES WIRING OF ADDRESS PINS WITH THAT OF KEY)/ENCODING IC KI
INEXPENSIVE ELECTRONIC THERMOMETER TO MEASURE TEMPERATURES OVER RANGE FROM -30 TO +120DEG
INEXPENSIVE MNEMONIC ENCODER TO ALLOW REPEATER TO TALK BACK, USING 4-LINE TO 16-LINE DEMUX., 1-O
THERMAL ALARM THAT GIVES AUDIBLE WARNING OF (DETECTS) HIGH TEMPERATURE SUCH AS CAR OVERHEATI
THETA PINCH TIMING CCT WITH FIBER OPTIC TRIGGER INPUTS & OUTPUTS, USING FIBER OPTIC RECEIVERS & TR
PSEUDORANDOM SEQUENCER INCLUDING OSCILLATOR, THAT DRIVES SSR. TO PRODUCE FLICKERING IN INCAN
WHEATSTONE BRIDGE FED FROM BILATERAL CONSTANT CURRENT SOURCE, INCLUDING SQUARE WAVE GENER
ELECTRONIC WEIGHT-CONTROL CCT FOR USE IN MOD. OF MICROLOG KEYBOARD OR HEATHKIT HD-1040 KEYS
FREEZE CONCENTRATOR CCT INCLUDING OPTICAL-ELECTRONIC CONCENTRATION SENSOR USING IR. EMITTING
FREQUENCY SENSITIVE PREAMP. WITH MAXIMUM GAIN OF 165, TUNED TO 100HZ, OF SCANNER CONSISTING OF
THERMOCOUPLE AMP. USING IA./DIGITAL FREQUENCY COUNTER & RTC., TO ACQUIRE FREQUENCY DATA, CONT
PRESSURE ACTIVATED SHUTDOWN DEVICE CONSISTING OF DETECTION, MEMORY & OUTPUT PARTS, INCLUDING
INEXPENSIVE & HIGHLY ACCURATE PH METER THAT CAN BE BUILT FOR <\$25 (LESS METER & ELECTRODES), USI
PSEUDO-RANDOM BIT-SEQUENCE GENERATOR CONSISTING OF QUARTZ CRYSTAL OSCILLATORS WHOSE OUTPUT

FREQUENCY PROBE USING 12-BIT COUNTER THAT SERVES AS 'FREQUENCY DETECTOR', WITH SCALE FACTOR C
FEEDBACK NETWORK TO DRIVE PIEZOELECTRIC ACTUATORS TO RAPIDLY NULL DIFFERENCE BETWEEN OUTPUT
FEEDBACK CCT WHICH SUSTAINS OSCILLATIONS OF VIBRATING TUBE AT ITS RESONANT FREQUENCY
STEPPER MOTOR DRIVE CCT SHOWING SIGNALS TAKEN FROM BBC MICROCOMPUTER PRINTER PORT THROUGH
SPECTRUM ANALYZER DRIVER & OUT OF RANGE CURRENT LIMITER FOR YIG OSCILLATOR, INCLUDING ISOLATIO
PRE-AMP. OF SYSTEM TO MEASURE COMPLEX PERMEABILITY OF SOFT MAGNETIC THIN FILMS, COMPRISING TEL
FEEDBACK CONTROL UNIT FOR EQUIPMENT CONTROLLING & MONITORING FACE HEATING EQUIPMENT
BEEPER USED TO INSERT SHORT TONE AT END OF PHONE TRANSMISSION
ELECTRONICS FOR DEMONSTRATION OF ACCELERATION ALONG TRACK, USING MULTIVIBRATORS, FF., SCR.S, LEI
ELECTRIC PID. CONTROL CCT USING DIFFERENTIAL THERMOCOUPLE, DC. MICROVOLTMETER, ISOLATING DC. AM
ELECTRONIC GUITAR TUNER CONSISTING OF CRYSTAL OSCILLATOR, PRESETTABLE FREQUENCY DIVIDER, SINE
STEPPER-MOTOR DRIVER USING 4-BIT BIDIRECTIONAL SHIFT REGISTER THAT STORES LOGIC 1 WHOSE SPEED &
PRESSURE-CONTROLLED COMPARATOR, USING CONDUCTIVE PLASTIC FOAM/PRESSURE-CONTROLLED ASTABL
ELECTRONIC PRINTER SWITCH BOX THAT LETS YOU SWITCH 1 COMPUTER BETWEEN 2 PRINTERS
FREQUENCY DIVIDER (STANDARD OSCILLATORS)
USER INTERFACE FOR INTELLIGENT ALARM (2)/CCT TO GENERATE 5 NOTES/CCT SHOWING CONNECTION TO BEL
FEEDBACK STABILIZATION CCT INCLUDING CURRENT-TO-VOLTAGE CONVERTERS & DIFFERENCE INTEGRATOR/F
FEEDBACK AMP.S CONSISTING OF 2-STAGE AMP. TO PROVIDE NULLING CURRENT TO BACK OF SAMPLE, USING H
ELECTRONIC CODELOCK CCT FOR AUTOMOBILES, THAT COMPARES RC. DIVIDER NETWORK TO RESISTOR NETW
ELECTRON-BEAM CONTROL CCT FOR FT.-ICR. ELECTRON-IMPACT DISSOCIATION EXPERIMENTS
ELECTRONICS OF SIMPLE DEVICE TO CUT CONDUCTIVE SAMPLES BY ELECTROEROSION, USING SPARK GAP & D
WHEATSTONE BRIDGE OF WHICH HEATER FORMS 1 ARM, & ASSOCIATED CCT/CCT TO REDUCE INITIAL HIGH RAT
FEEDBACK ELECTRONICS USED FOR STABILIZATION OF LOW POWER HE-NE LASER, USING MONOSTABLE MULTI
ELECTRONIC CCT FOR LINEAR FICK'S LAW CALORIMETER
ELECTRONIC ION BEAM SWITCH
FLEXIBLE EPROM. PROGRAMMER FOR ANY COMPUTER WITH RS232 PORT/PS. FOR PROGRAMMER/LINE INTERFA
ELECTRONIC PRINTER SWITCH BOX TO ALLOW 2 COMPUTERS TO ACCESS 1 PRINTER WITH CENTRONICS INTER
SWEEP GENERATOR
WIEN-BRIDGE 60HZ NOTCH FILTER/TWIN-TEE 60HZ NOTCH FILTER
SWEEP GENERATOR TO GENERATE LINEAR RAMP CURRENTS TO SWEEP ELECTRON BEAM ACROSS VIDICON/VID
EYE-PATTERN INTERFACE FROM MODEM TO SCOPE, EACH CHANNEL OF WHICH CONTAINS SERIAL-TO-PARALLE
ELECTRONICS OF PATCH DETECTOR COUPLED TO OXFORD PRECISION SPRAYER, USING OA.S, & LIGHT DETECT
PRESSURE ACTIVATED SWITCH USING OA. CONFIGURED AS COMPARATOR (2)/PRESSURE SENSITIVE TONE GEN
ELECTRONICS OF ANEMOMETER PROVIDING PRECISE MEASUREMENT OF ROTATION SPEED/CASSETTE INPUT L
INEXPENSIVE CCT TO PROVIDE EXCITATION FOR 5KOHM RESOLVER, & GENERATE 16-BIT SAMPLES OF RESOLVE
INEXPENSIVE ENCODER FOR HEXADECIMAL MATRIX KEYBOARD, WITH 4-BIT OUTPUT CODE CORRESPONDING TO
ELECTRONICS FOR PROPORTIONAL CHAMBER WIRE, INCLUDING PRE AMP., DISCRIMINATOR, 1-SHOT & LATCH, V
TREBLE BOOSTER CCT THAT CAN BE USED WITH GUITAR & OTHER ELECTRONIC MUSICAL INSTRUMENTS
FREQUENCY SYNTHESIZER EMPLOYING ADAPTIVE PLL.
INEXPENSIVE ELECTRONIC THERMOMETER
STEREO MIXER/FULL-CUP DETECTOR/CONTINUITY CHECKER/DELAY TIMER/ELECTRONIC BIRD/CHIME/A-B SWITC
ELECTRONIC VERSION OF SP4T ROTARY SWITCH THAT PASSES DIGITAL SIGNALS WITHOUT CONTACT BOUNCE
SPEECH-PROCESSING HARDWARE INCLUDING COMPRESSOR & DIFFERENTIATOR CCTS, ZERO-CROSSING COMP
ELECTRONIC NANOAMMETER CCT USING CONVERSION OF CURRENT INTO VOLTAGE (LOW CURRENT ZERO-CEN
FLESHER TU-170 TU., SHOWING CONNECTIONS TO MODEL-100 RS-232-C PORT/CCT TO INTERFACE MODEL 100 C
ELECTRON BEAM POSITIONING ELECTRONICS ON MAIN CONTROLLER BOARD OF INTERFACE/CONTROL CCT (BB
INEXPENSIVE, RELIABLE, NON-MECHANICAL SOUND-ACTIVATED SWITCH THAT DIRECTLY SWITCHES ON AC. LOA
STEPPER MOTOR DRIVE CONTROLLER WITH ROTATION DIRECTION CONTROL & 2 SPEED OPTION
FEEDBACK LOOP FOR CONSTANT ANGULAR DEFLECTION/REFERENCE SIGNAL CCT

INEXPENSIVE, SIMPLE, PRECISE & ACCURATE DIGITAL CCT TO MONITOR NORMAL RANGE OF FREQUENCY DEVIATION
ELECTRONIC CCT OF MICROCALORIMETER, CONSISTING OF REACTION, REFERENCE & DIFFERENTIAL TEMPERATURE
ELECTRONIC DOORBELL THAT PRODUCES 2-TONE "DING-DONG" SOUND, USING TONE OSCILLATORS, & VOLTAGE
WIEN BRIDGE OSCILLATOR/TWIN-T OSCILLATOR/RELAXATION OSCILLATOR/SQUARE-WAVE OSCILLATOR/BISTABLE
SPEECH DECOMPRESSOR TO BE CONNECTED BETWEEN LOW-LEVEL AUDIO OUTPUT OF RECEIVER & POWER AMPLIFIER
"SELECT-A-MATIC" RF. SWITCHER THAT CAN TAKE ANY OF 8 INPUTS & ASSIGN IT TO ANY ONE OF 4 OUTPUTS
SPEEDY TUNE CCT TO ADD UP-DOWN FREQUENCY SLEWING TO HEATH HW-5400 TRANSCEIVER, & ALLOWS ADJUSTMENT
3-ELECTRODE POTENTIOSTAT EQUIPPED WITH POSITIVE FEEDBACK OHMIC DROP COMPENSATION, USING O.A.S. CIRCUIT
CHEAP, RELIABLE & ACCURATE VCO. WITH LINEAR FREQUENCY-VOLTAGE RESPONSE OVER ~1 DECADE, USING
FREE-RUNNING OSCILLATOR (SAWTOOTH GENERATOR) WHOSE FREQUENCY IS DETERMINED BY CONSTANT-CURRENT
PRECISION TIMER/VARIABLE-PERIOD TIMER/PORCH LIGHT CONTROL/HEADLIGHT TURNOFF CONTROLS (2)/DELAY
SIEMENS ELEMA 900B SERVO VENTILATOR & MOD. TO CHANGE (ADJUST) MV (MINUTE VENTILATION) AUTOMATIC
OVEN TIMER-ALARM USING ZERO-VOLTAGE SWITCH
INEXPENSIVE TIME-DELAY CCT THAT CAN BE ADJUSTED FOR UP TO 5MIN, USING ELECTROMECHANICAL RELAY
ELECTRONIC WIND CHIME THAT MAKES MUSIC IN THE BREEZE USING MINI-REED SWITCHES & TONE GENERATOR
ELECTRONIC METRONOME (LITTLE TEMPO REGULATOR)
BEEPER
EVENT-FAILURE ALARM/SIMPLE AMP. TO BE USED WITH EFA/LOGIC INPUT TO EFA
FREEZER OVER-TEMPERATURE ALARM
FREE-RUNNING MULTIVIBRATOR USING TIMER, THAT DRIVES LED.S USED FOR BLINKING RED EYES OF KNIGHT'S
STEPPER CCT USING OSCILLATOR-TIMER TO CLOCK COUNTER/CCT TO INCREASE SEQUENTIAL STEPS TO 16 OR
STEPPER-MOTOR CONTROLLER THAT ALLOWS FOR ADJUSTMENT OF MOTOR SPEED & DIRECTION, ABLE TO DRIVE
ELECTRONIC CRICKET THAT PRODUCES INTERMITTENT CHIRP, CONSISTING OF 4 OSCILLATOR-TIMERS, EACH CONTROLLED
BREAKING GLASS ALARM TO SENSE ULTRASONIC SOUNDS GENERATED BY BROKEN GLASS, INCLUDING AUDIO & VIDEO
OVERLAPPED MICROSTRIP (OM) COUPLER FOR MICROSTRIPLINE HIGH POWER AMP. (RFDE8512)
STEPPER-MOTOR DRIVER CONTROLLED BY IBM PC., USING DRIVER CARD/PULSE GENERATOR TO TRIGGER SPARK
ELECTRONIC TIMER & SWITCH TO CONTROL FEEDING CYCLE BY PROVIDING 5S FOOD-DELIVERY PERIOD EACH 8
SPEED DIALER THAT AUTOMATICALLY DIALS ANY AREA CODE, INCLUDING "1" & ANY DIGIT NEEDED IN OFFICE TELEPHONE
FREQUENCY DOUBLER THAT WORKS OVER WIDE (300-8700HZ) RANGE OF FREQUENCIES WITH CONSTANT MARKING
ELECTRONIC PF. METER BASED ON NON-LINEAR ADC., WITH ALTERNATING VOLTAGE & AC. SIGNALS APPLIED TO
BLEEP UNIT THAT ATTACHES TO CB. TRANSCEIVER (RIG), TO TRANSMIT SHORT TONE BURST AFTER PTT. SWITCH
ELECTRONIC PERCUSSION SYNTHESIZER THAT IS PLAYED LIKE BONGO DRUM
SPEECH-OUTPUT SYSTEM USING SINGLE-CHIP SPEECH SYNTHESIZER/EXTERNAL AMP./ACTIVE FILTER/CCT USING
FREE-RUNNING MULTIVIBRATOR USING TIMER, 2 TRANSISTORS & TRIMMING POTENTIOMETER TO PROVIDE VARIABLE
PREAMP. CONSISTING OF CURRENT INTEGRATOR & SH. AMP./CCT SHOWING PREAMP.S, 16-CHANNEL ANALOG METER
ENERGY MONITOR FOR SHORT PULSE LASERS, CONSISTING OF INTEGRATING DETECTOR USING PHOTODIODE, &
"PENALTY KICKS" GAME
STEP OSCILLATOR/DATA-SELECTION & PROGRAMMING CCT/CCT TO KEEP TABS ON WHICH PROGRAM IS RUNNING
ELECTROMETER USING JFET./CCT TO DETECT HV. STATIC CHARGES/WATER-LEVEL MEASUREMENT CCT/WINDOW
THEFT-DETERRENT CCT/NICD.-BATTERY CHARGER/ZAPPER TO RESTORE NICD. CELLS/AUTO-CAD KEYPAD SEQUENTIAL
ELECTRET MICROPHONE PREAMP. WHOSE LED. AT INPUT & SMALL RESISTOR AT OUTPUT PROVIDE BIAS FOR MICROPHONE
ELECTRONICS USED TO AMPLIFY SEEBECK VOLTAGE
ELECTROLUMINESCENT PANEL FLASHER CCT INCLUDING MOSFET./CCT TO MODULATE LED. WITH MODULAR CIRCUITRY
FREEZE FRAME STROBE TRIGGER INCLUDING AC.-COUPLED PROCESSING AMP. (FOR SENSORS), PEAK DETECTOR
SPEAKER DRIVER CCT OF MULTI-OUTPUT ALARM/SONIC-ULTRASONIC SIREN CCT USING COMPLEX SOUND GENERATOR
ELECTRONIC CONTROLLER FOR MOTOR OF PERISTALTIC INFUSION PUMP TO INFUSE 50ML PER HOUR INTO RETORT
PREAMP. FOR BGO CRYSTALS/CHARGE SENSITIVE PREAMP., SHAPER & DIFFERENTIAL LINE DRIVER FOR SILICON
INEXPENSIVE CODE-PRACTICE OSCILLATOR (CPO)
INEXPENSIVE INTERVAL TIMER/CCT SHOWING BASIS OF THE TIMER CCT

INEXPENSIVE VALVE CONTROLLER CCT THAT ALSO TRIGGERS OSCILLOSCOPE
ELECTRONIC LATCHING SELECTOR SWITCH IN WHICH PRESSING 1 BUTTON CAUSES ITS CORRESPONDING OUTPUT
DIELECTRIC CONSTANT CCT USING 2 TIMERS, CONSISTING OF 200HZ OSCILLATOR THAT TRIGGERS 1-SHOT TO F
STEREO NOISE GATE (SINGLE ENDED NOISE REDUCTION SYSTEM) THAT CUTS TREBLE RESPONSE DURING QUIET
INEXPENSIVE PROGRAMMABLE DIGITAL DELAY LINE FOR TTL. SIGNALS, USING 2 MONOSTABLE MULTIVIBRATOR
SWEEPING OSCILLATOR USING CMOS. 555 WIRED AS ASTABLE TO PROVIDE RAMP WAVEFORM & EXPONENTIAL
ELECTRONIC GUITAR TUNING AID TO DECODE 82.4HZ ("E" NOTE), USING TONE DECODER IC/PLL. TONE DECODER
IEEE488 CARD INTERFACE TO LINK FERMENTER TO IBM PC. (BBB)/ADC. & INTERFACE CCTS/CPU. & GPIA CCTS/DA
ELECTRONICS OF T200 ELECTRODYNAMIC CHARGE TRANSDUCERS FOR MASS-FLOW MEASUREMENT WHEN USED
EMERGENCY ALERT TONE DECODER CONSISTING OF PS. FOR RECEIVER & ALERTING CCT
ELECTROPHORESIS POLARITY SWITCHER USING INTEL MICROCONTROLLER & PROGRAMMABLE TIMER, CONNECTED
SWEEP CCT USING AVALANCHE TRANSISTORS & MICROWAVE TRIODES/MARX AVALANCHE DRIVER/PRETRIGGERED
THERMIONIC DIODE NOISE SOURCE USABLE TO 600MHZ WITH EXCESS NOISE RATIO (ENR) OF ~6DB/SOLID-STATE
EMERGENCY BACKUP SUPPLY THAT ALLOWS 12V RADIO OR OTHER EQUIPMENT TO CONTINUE TO OPERATE WHEN
SPEECH DETECTOR WHOSE 1-BIT OUTPUT TO SWITCH KEYBOARD MODE DUPLICATES ACTION OF CONTROL KEYS
ELECTRICAL ARRANGEMENT OF EXPERIMENT, INCLUDING VACUUM GAP UNDER STUDY, IGNITRON, THYRATRON
STEEP-CUT, VARIABLE-SLOPE LPF. WITH SWITCHABLE CUT-OFF CONTROL GIVING 3 SWITCHED FREQUENCIES, IN
SPECTRUM SPEECH SYNTHESIZER USING GENERAL INSTRUMENT ALLOPHONE GENERATOR CHIP
AREA TRACKER (BBB)
SPEECH-RECOGNITION-SYNTHESIZER UNIT (VOICE CONTROL UTILITY SYSTEM) SPEECH INPUT MODULE THAT ATTACHES
ELECTRONICALLY CONTROLLED MICRO-WELDER FOR MANUFACTURE OF CLINICAL ELECTRODES, USING PRINCIPLE OF
3-ELECTRODE POTENTIOSTAT & MINICOMPUTER INTERFACE FOR CSCV (CYCLIC STAIRCASE VOLTAMMETRY) INSTEAD OF
STEPPER MOTOR CONTROL CCT
INEXPENSIVE INTERFACE BETWEEN SINCLAIR ZX-80, ZX-81, OR TIMEX 1000 COMPUTER & SPEAK & SPELL, ALLOWING
STEPPER MOTOR MICROCONTROLLER INCLUDING CPU./TIMER-COUNTER MICROCONTROLLER THAT CAN ACCUMULATE
PIE (PHOTO-INITIATED IMPULSE-ENHANCED ELECTRICALLY-EXCITED) EXCITATION SYSTEM INCLUDING THYRATRON
ELECTRONIC MUSICAL HORN FOR 12V VEHICLE (AUTOMOBILE), USING DIGITAL IC'S (MAGNITUDE COMPARATOR &
FREQUENCY SYNTHESIZER INCLUDING UP., PHASE DETECTOR, VCO., PULSE REMOVER CCT, DAC., 2ND-ORDER
ELECTROCHEMICAL INTERFACE USING PIA. TO INTERFACE COMPUTER TO ADC./HP5315A FREQUENCY COUNTER
PREAMP. USING COMMON BASE TRANSISTOR, POLE ZERO FILTER, VIDEO AMP., & CABLE DRIVER USING EMITTER
ELECTRONIC COMBINATION LOCK TO PREVENT UNAUTHORIZED USE OF TOUCH-TONE TELEPHONE (TELEPHONE
ELECTRONIC POTENTIOMETER USED IN STEREO VOLUME CONTROL/MORE ELEGANT CCT INCLUDING 2-SPEED VOLUME
INEXPENSIVE LIQUID-NITROGEN LEVEL SENSOR & CONTROLLER FOR CRYOGENIC APPLICATIONS
ELECTRONIC TACHOMETER UNIT FOR CHECKING SPEED OF ROTATING SHAFTS
STEREO DECODER IN WHICH 38KHZ CARRIER REGENERATION AND MATRIX ADDITION ARE SIMULTANEOUS, WITH
PRECISION FULL-WAVE RECTIFIER (ABSOLUTE-VALUE AMP.)
INEXPENSIVE, 10-BAND, GRAPHIC EQUALIZER FOR STEREO SYSTEM, USING GYRATOR PRINCIPLE
PREREGULATOR
PREAMP. INCLUDING AC. AMP. & ZERO-OFFSET AMP.S TO MEASURE BIASING VOLTAGE & CURRENT
PRECISE QUADRATURE PHASE SHIFTER USING RETICON BUCKET BRIDGAGE DELAY LINE (BBDL) (DUAL 512 STACKED
PREAMP. WITH JFET. INPUT/1 CHANNEL OF DELAYING & PULSE-SHAPING AMP., INCLUDING GATED OTA.S, FET. IN
STEPPER-MOTOR CONTROLLER/POSITION-LIMIT SENSOR TO OBTAIN REFERENCE POSITION/DC. AMP.-SCALER (C
ELECTRODE PREAMP. (COMPOSITE CLOSELY SPACED ELECTRODE INSTRUMENT CONSISTING OF DIFFERENTIAL
THERMISTOR INTERFACE MODULE & SDA-85 KIT, COMPRISING TEMPERATURE INDICATOR WITH LINEAR PERFORM
PREAMP. USING MICROPOWER OA. USING SINGLE POLARITY PS., IN INVERTING MODE (2)/TEST PROBE INCLUDING
PREAMP. FOR TOTAL ACOUSTIC PHONOGRAPHY (TAPHO) PIEZOELECTRIC CERAMIC CANTILEVER BEAM TRANSDUCER
THERMAL CONDUCTIVITY DETECTOR (TCD) (LOW-WEIGHT THERMAL SENSOR) AMP./FLAME IONIZATION DETECTOR
FEEDBACK DRIVER FOR POCKELS CELL (ELECTRO-OPTIC MODULATOR) OF SYSTEM TO STABILIZE INTENSITY OF
ELECTRONIC LOAD CCT

ELECTRONICALLY CONTROLLED 1ST-ORDER BUILDING BLOCKS USING ONLY OTA.S & CAPACITORS (2)
CRESCENDO ALARM
PRECISION DIGITAL INSTANTANEOUS HEART RATE (IHR) METER WITH RANGE OF 0-1023 BEATS-MIN TO CONVERT
ELECTRONIC MODEL OF HUMAN MIDDLE EAR, INCLUDING THRESHOLD, LIMITING & AMPLIFYING CHARACTERISTICS
PSEUDO ECHO (TREMOLLO) UNIT TO PRODUCE REALISTIC ECHO EFFECTS/SYNCHRONIZATION STAGE
PSEUDO-DMA. TRANSFER SYSTEM USING SCSI. BUS CONTROLLER, FOR DATA TRANSFER RATE OF 125KBYTES-S
ELECTRONIC THERMOMETER USING NTC. THERMISTOR FOR TEMPERATURE SENSING, & 16-LED. BAR-TYPE DISPLAY
OVERVOLTAGE CUTOFF USING OA. AS COMPARATOR, ZENER STABILISER CCT & SCR., TO PROTECT EQUIPMENT
STEREO AUDIO PRE-AMP. FOR USE IN VIDEO SYSTEMS, USING INTEGRATED STEREO PRE-AMP. CHIP & DUAL OA
PSEUDO-RANDOM NOISE GENERATOR USING SHIFT REGISTER WITH OUTPUT EXCLUSIVE-OR'D/STEREO NOISE GENERATOR
STEPPER MOTOR DRIVER CONSISTING OF PULSED CONSTANT-CURRENT CCT (HIGH-POWER CURRENT SINK), 1 (1)
ELECTRONIC SPARK SOURCE USING HYDROGEN THYRATRON/TRIGGERING ELECTRONICS/MONOSTABLE SEQUENCE GENERATOR
STEPPER-MOTOR DRIVER CCT USING DRIVER CHIP, INCLUDING 2 OPTICAL COUPLERS/PARALLEL INTERFACE CIRCUIT
FEEDFORWARD LINE AMP./POSITIVE & NEGATIVE 17V REGULATORS (2)/PS. USING 2 TRANSFORMER WINDINGS &
FREQUENCY MONITOR USING HIGH SPEED TTL. COMPARATOR, BINARY COUNTER, DAC., MULTIVIBRATORS, AMP
ELECTRONICALLY TUNABLE, DIGITALLY PROGRAMMABLE ACTIVE-R SQUARE WAVE GENERATOR USING 2 OA.S, 2
STEP-UP SWITCHING REGULATOR (DC.-DC. CONVERTER) USING DIODE-CAPACITOR TRIPLER NETWORK THAT DELIVERS
STEREO IMAGE EXPANDER
STEP-DOWN SWITCHING CCT/STEP-UP REGULATOR/VOLTAGE-INVERTING REGULATOR/RATIO-EXTENDER CCT/42V
VME BUS INTERRUPTER USING FPLA. THAT REQUESTS INTERRUPT FROM BUS & RECOGNIZES VALID INTERRUPT
STEPPER-MOTOR DRIVE (SOLAR TRACKER MOTOR) CCT USING HEX BUFFER-DRIVER, IC TO DRIVE SMALL STEPPER
STEREO AUDIO-LEVEL METER THAT DISPLAYS LEVELS OF -16, -11, -6, -3, & 0DB, WITH INPUT SENSITIVITY OF 1MV
ELECTRONIC THERMOMETER/TEMPERATURE-TO-FREQUENCY CONVERTER USING CURRENT-TO-FREQUENCY CONVERTER
THERMOSTATIC CONTROL FOR INCANDESCENT LAMP, USING OA. FEEDBACK CCT TO ADJUST FILAMENT CURRENT
PRECISION 10MA-1A CONSTANT CURRENT GENERATOR/THERMALLY-STABILISED CONSTANT CURRENT GENERATOR
ELECTRONIC DOORBELL (CHIME) THAT CAN BE ACTIVATED BY AC. PULSE, USING IC TONE GENERATOR
JFET. SOURCE-FOLLOWERS (2)/JFET. COMM-SOURCE AMP.S (3)/JFET.-BASED VOLTMETERS (2)/CONSTANT-VOLUME
INEXPENSIVE MEASUREMENT HOLD CCT THAT MEASURES 0.1 TO 15V DC., TO UPDATE VOLTMETERS NOT SO EQUALLY
THERMOCOUPLE-SIGNAL AMP./IA./LOW OFFSET AMP./POWER DAC./PRT AMP.
ELECTRICAL ARRAY RECONFIGURATION (LOGIC) CONTROL CCT THAT SENSES INCIDENT IRRADIANCE AS HIGH OR LOW
STEPPER MOTOR CONTROL & DRIVE CCT FOR PLOTTER USING 2 STEPPER MOTORS MOUNTED ON ETCH-A-SKETCH BOARD
THERMO-VOLTAGE AMP./TEMPERATURE CONTROLLER/CCT FOR CONDUCTANCE MEASUREMENTS/LINE CONTROL
PRECISION ANALOG MULTIMETER/REGULATOR/MEASURING CCT/AC.-DC. CONVERTER/VOLTAGE SOURCE CALIBRATION
OPERATIONAL TRANSCONDUCTANCE AMP. (OTA.)
ELECTRONICS OF CLOSED-LOOP SERVO CONTROL SYSTEM TO VARY MOTOR RATE OF FIXED VOLUME RESPIRATION
FREQUENCY DOWN TRANSLATOR TO MAKE RF. SWEEPER WORK BELOW 2MHZ, USING DBM., INCLUDING LO. COUPLER
PREAMP. USING PLESSEY FET.S, SUITABLE FOR FEEDBACK DAMPING/PREAMP. PROTECTION CCT INCLUDING PREAMP.
PREAMP. OF CCT TO READ OUT CHAMBER, BASED ON TRANSISTOR ARRAY, CONSISTING OF COMMON-BASE AMPLIFIER
FEEDBACK CCT FOR THERMAL STABILISATION
SPEED CONTROL CCT USING COMPARATOR CONNECTED TO SMALL DC. MOTOR AS SQUARE-WAVE GENERATOR
PREAMP.S USING MMIC. (3)/3-30MHZ FEEDBACK AMP./HF. PREAMP. USING MOSFET. DEVICE/LF. CASCADE PREAMP.
WIEN BRIDGE SINE-WAVE OSCILLATOR USING 2 RCA OA.S, COVERING 30HZ TO 100KHZ WITH <0.5% THD.
INEXPENSIVE SSR. USING RCA LOW-COST ZERO-VOLTAGE SWITCH IC & 10A TRIAC, TO SWITCH 115V AC. OUTLET
STEP-UP SWITCHING REGULATOR USING MAXIM DC.-TO-DC. CONVERTER IC TO GENERATE +5V SOURCE FROM 2
ELECTRIC SERVO CIRCUIT FOR ADIABATIC CRYOSTAT SYSTEM
PRE-AMP. CARD TO AMPLIFY ANODE SIGNALS FROM MWPC./POST-AMP. CARD TO AMPLIFY SIGNALS AGAIN AFTER
ELECTROMETER (AMP.) CCT TO AMPLIFY COLLECTION ELECTRODE CURRENT & CONVERT IT TO MEASURABLE DC
ELECTRONIC ELECTROSCOPE
ELECTRICAL CCT OF HYDRIDE GENERATION SYSTEM INCLUDING SWITCHES, EM. RELAYS, SOLID-STATE TIMERS

PREAMP. WITH DIODES FOR INPUT PROTECTION/AMP.-SHAPER-DISCRIMINATOR (ASD)/AMP. & ASD TEST CCT WITH
INEXPENSIVE ULTRASONIC DETECTOR/ULTRASONIC TRANSMITTER
SPEECH PERIPHERAL CCT INCLUDING 3 BASIC CHIPS, SIMPLE AUDIO AMP. & UP. INTERFACE
OVERTONE OSCILLATOR USING SERIES-MODE CRYSTAL OSCILLATOR WITH SINUSOIDAL, TTL. & ECL. OUTPUTS,
OVERVOLTAGE CCT USING OVP & SCR./CCT TO PROTECT PS./OVERVOLTAGE PROTECTION CCT FOR MOBILE SU
THERMOCOUPLE COLD-JUNCTION COMPENSATION CCT USING 2 AMP.S IN BALANCED CONFIGURATION
ELECTRONIC SPARK GAP CCT FOR VARIAN V2300A ELECTROMAGNET THAT OPERATES AT 300V & DRAWS 4A
PIERCE OSCILLATOR/MILLER OSCILLATOR/PIERCE ELECTRON-COUPLED OSCILLATOR/COLPITTS OSCILLATOR
FREQUENCY DOUBLING CCT USING 1 ECL. IC
PREAMP. STAGES INCLUDING INPUTS FOR DISK, CD., TUNER & TAPE/20W PER CHANNEL DM20 POWER AMP. SEC
FEEDBACK CONTROL SYSTEM USING PWM. POWER CONVERTER WITH HIGH POWER EFFICIENCY, & STARTING C
FREQUENCY-SHIFT DETECTION ELECTRONICS
ELECTRONICS UNIT & INTERFACE, USING CHOPPER STABILISED OA. TO AMPLIFY OUTPUT OF THERMOCOUPLE T
GREENBUS CPU. CARD INCLUDING MPU. (UP.), ACIA., RTC., EPROM. & RAM. (BBB)
SPEED MODULATOR/DETECTOR CCT INCLUDING PIN PHOTODIODE & FET. INPUT CHARGE-PREAMP./CLOCK CCT/
YAESU FT-102 HF. TRANSCEIVER (BBB)
ELECTRONIC TELEPHONE TONE RINGER APPLICATION CCT
OVERVOLTAGE-PROTECTION CCT
ONE IC VOLTAGE CONVERSION CCT
PRESETTABLE COUNTER WITH ALARM
ELECTRONIC PIANO INTERFACE
OPEN-CCT DETECTOR TO CHECK 2-CONDUCTOR CABLES FOR INTERMITTENT OPEN-CCT CONDITIONS, USING SC
EVENT TIMING SYSTEM FOR MEASURING SUBNANOSECOND TIME INTERVALS, USING ECL. CCT WITH MICROSTRIP
PRECISION BATTERY-VOLTAGE MONITOR USING INTERSIL CMOS. VOLTAGE-MONITOR CHIP CONTAINING TEMPE
PRECISION HV. POWER AMP. WITH GAIN OF 40 & ABLE TO PROVIDE OUTPUT VOLTAGE SWING OF 970V PEAK-TO-
PRECISION PROGRAMMABLE CONSTANT CURRENT SOURCE USING CMOS. OA. CONFIGURED AS VOLTAGE TO CU
FREQUENCY-TO-VOLTAGE COVERTER-DEMULATOR (FVCD) USING PULSE WIDTH DISCRIMINATOR-MODULATOR
PREAMP. BIAS & MODULATION SECTIONS/RECEIVER OF TRANSCEIVER, INCLUDING FSK. RECEIVER & SEARCH OS
STEP-UP MAXIMUM POWER POINT TRACKER USING PWM. TRIGGERING CCT, STEP-UP CHOPPER IN LOAD-CONDIT
FREQUENCY TRIPLER THAT PRODUCES 5V SQUARE WAVE AT 3 TIMES FREQUENCY OF INPUT, USING PHASE CO
STEP MOTOR DRIVE-CCT USING UP. (SINGLE-CHIP MICROCONTROLLER), INCLUDING FULL STEP DRIVER, MICRO
PRECISION ANALOGUE VOLTMETER THAT OVERCOMES DRIFT, USING CHOPPER-STABILISED OA./PS. OPTIONS, IN
STEP-UP CONVERTER USING 72KHZ POWER SWITCHING REGULATOR WITH EXTERNAL POWER MOSFET. AT OUT
ELECTRONIC TIMER FOR USE WITH FARMER 2502-3 DOSEMETER, USING INTERSIL CMOS. IC, TO REDUCE ERROR
ELECTRONIC IGNITION MODULE INCLUDING BUILT-IN TEST OSCILLATOR, IN WHICH IC ACTS AS CHARGE PUMP G
FREQUENCY DOUBLER USING INTERNAL X2 DIVIDER OF CHOPPER-STABILIZED OA. INSERTED AS LPF. BETWEEN
ELECTRONIC SCALE USING LOAD CELL, IA. (USING 2 OA.S), ADC., & 3.5-DIGIT LCD., TO WEIGH OBJECTS IN 0 TO 1.
ELECTRONIC SAFETY CONTROL USING QUAD 2-INPUT NAND GATE/RELAY-REPLACEMENT CCT/TIMED SAFETY CO
THERMISTOR BRIDGE CONTROL BOX
ELECTRONIC PRESSURE GAUGE USING SENSYM DIFFERENTIAL SEMICONDUCTOR PRESSURE SENSOR, INTERSIL
SPEECH & TONE (AF.) FILTER TO INTERFACE WITH BRITISH TELECOM TELEPHONE LINES, USING 3 PAIRS OF GYR
ELECTRONIC ALTIMETER USING PRESSURE SENSOR, ADC., QUAD OA. & LCD. MODULE/CCTS SHOWING WIRING F
STEREO BLEND CONTROL/AC. PS.
OPERATING IMPEDANCE BRIDGE
STEREO TV. DECODER
SWEET TALKER PHONETIC SPEECH SYNTHESIZER IN PARALLEL-PORT VERSION/100US PULSE EXTENDER/SERIAL
STEP-UP-STEP-DOWN BATTERY-OUTPUT SWITCHING REGULATOR USING 1 INDUCTOR, SWITCHING-REGULATOR
INEXPENSIVE DIGITAL SOIL MOISTURE METER USING INTERSIL ADC. & 3.5-DIGIT LCD. DRIVER, TO KEEP PLANTS I
FREQUENCY COUNTER USING FREQUENCY-COUNTER IC, LATCHES & 8-DIGIT MUX.ED LED. DISPLAY (2)/ASTABLE

FREQUENCY COUNTER INCLUDING CRYSTAL OSCILLATOR, DIVIDE-BY-10 & BINARY COUNTERS, TRIGGER CCT, C
FREQUENCY-SHIFTING CCT CONSISTING OF MICROPHONE, AUDIO AMP., 2 OSCILLATORS, 2 5KHZ LPF.S, 2 MODUL
PRECISION PULSE-DELAY GENERATOR
ELECTRONIC WARBLING TELEPHONE RINGER TO SUBSTITUTE FOR CONVENTIONAL BELL, WITH IC POWERED BY
STEP-VARIABLE AC. ADAPTER/ALARM TO PROVIDE PRINT-ERROR INDICATIONS/KEYLESS LOCK/LV. CONTINUITY
STEPPER-MOTOR DRIVER USING CMOS. IC'S & DARLINGTON POWER TRANSISTORS TO CONTROL SPEED & DIRE
PRECISE DIGITAL CMOS. TIMER SETTABLE WITH 4 THUMBWHEEL SWITCHES
REED SWITCH ANTI-BOUNCE CCT FOR RECORDING & WIND-SPEED ANEMOMETER
SPECTRUM ANALYZER USABLE WITH OSCILLOSCOPE, TO DETECT RF. ENERGY AT LOW LEVELS (-75DBM), WITH
ELECTRONIC TELEPHONE RINGER THAT REPLACES BELL WITH PLEASING 2-TONE WARBLE CALLER
PRECISE & INEXPENSIVE TEMPERATURE MONITOR & CONTROLLER, USING OA. & SENSOR
ELECTRONIC TEMPERATURE CONTROLLER USING SINGLE SOLID-STATE HEAT PUMP AS HEATING & COOLING EL
ELECTRON AVALANCHE MEASUREMENT SET UP INCLUDING SCHEME FOR PROTECTION OF PREAMP., CONSISTIN
FREQUENCY COUNTER USING 17-STAGE OSCILLATOR-DIVIDER, DUAL SYNCHRONOUS UP COUNTER, DUAL MONO
STEREO FM. TRANSMITTER CAPABLE OF TRANSMITTING STEREO SIGNAL UP TO 100FT, INCLUDING BALANCED M
PRECISION DIVIDING CCT TO EXTEND SOURCING CAPABILITY OF HP4145A SEMICONDUCTOR ANALYZER, USING
TREASURE FINDER (VERY BASIC METAL DETECTOR) CONSISTING OF HARLEY OSCILLATOR/ELECTRIC BOINGER
INEXPENSIVE, LOW-VOLUME, SENSITIVE OA. BASED AMPEROMETRIC DETECTOR FOR ION CHROMATOGRAPHY (I
PIEZOELECTRIC CERAMIC ELECTRONICS INCLUDING PIEZODRIVE MODULE CONSISTING OF DAC.S & HV. AMP.S/S
ELECTRONIC STOPWATCH & ASSOCIATED CCTS, INCLUDING DISTURBANCE AMP.
SWEEP CCT TO REVEAL RESOANT STRUCTURE IN JUNCTION I-V (CURRENT-VOLTAGE) CHARACTERISTICS, INCLU
THERMOMETER THAT DEPENDS ON SEEBECK (THERMOELECTRIC) EFFECT, USING THERMOCOUPLE AS SENSOR
OWEN'S PULSE SHAPE DISCRIMINATION (PSD) NETWORK (DYNODE CHAIN) USING SATURATION (NONLINEAR GAI
FREQUENCY-TO-VOLTAGE (F-V) CONVERTER USING DUAL MONOSTABLE MULTIVIBRATOR & FAST (HIGH-SPEED)
PRECISION, DIRECT-READING LOW-POWER THERMOMETER, USING TEMPERATURE TRANSDUCER, ADC., & LCD. I
ELECTRONIC CCTS OF CONTROLLER
STEP-UP DC.-DC.-CONVERTER/PS. FOR VACUUM-FLUORESCENT DISPLAY MODULE/DISPLAY CCT INCLUDING COM
PRECISION FULL-WAVE RECTIFIER TO WHICH AC. ARC VOLTAGE & CURRENT INDICATIONS ARE FED
INEXPENSIVE A-D & D-A INTERFACE CARD WITH 8 ANALOGUE INPUTS, 1 ANALOGUE OUTPUT & 8-BIT DIGITAL BUF
BEEP-ONLY & DISPLAY PAGERS USING POCSAG (CCIR RADIOPAGING CODE NO. 1) DECODERS (2)/LOW POWER D
STEP-DOWN DC.-TO-DC. CONVERTER USING MOTOROLA POWER SWITCHING REGULATOR, PROVIDING 5V AT 1A,
FREQUENCY-MULTIPLYING CCT TO GENERATE SAMPLING PULSES, USING PLL. & BINARY COUNTER, WITH OUTPUT
FREQUENCY STANDARD USING COLOR BURST CRYSTAL SYNTHESIZER PLL. CCT, TO CALIBRATE FREQUENCY C
INEXPENSIVE RELIABLE DATA LOGGER THAT STORES UP TO 1024 BYTES OF 13-BIT DATA AT REMOTE SITES
FREQUENCY LIMIT DETECTOR CONSISTING OF 2 RETRIGGERABLE 1-SHOTS (MONOSTABLE MULTIVIBRATORS), T
FREQUENCY MULTIPLIER TO DRIVE CLOCK INPUT OF SWITCHED CAPACITOR FILTER TO CONDITION ANALOGUE
PRECISION 10A CURRENT SOURCE USING CURRENT-SENSING POWER MOSFET./CCT TO MEASURE SHEET RESIS
WHEATSTONE BRIDGE CCT CONSISTING OF STRAIN GAUGE & LINEAR THERMISTOR NETWORK, INCLUDING IA. CO
ELECTRONIC DETECTION CCT PROVIDING HIGH DEGREE OF ACCURACY & LINEARITY, USED IN NUCLEAR-IMAGIN
PRESSURE SENSOR (TRANSDUCER) & ITS AMP. CCT USING DIFFERENTIAL INPUT IA./THERMISTOR (TEMPERATUR
FREQUENCY MARKER (HIGHLY ACCURATE SERIES OSCILLATOR)
PRE-PREAMP. FEATURING VACUUM TUBE & POLYPROPYLENE DIELECTRIC SIGNAL PROCESSING, USING LOW-NO
PREAMP., BIAS SOURCE, & ISOLATION STAGE OF POLAROGRAPHIC OXYGEN SENSOR, USING FET.-INPUT OA., PF
PRE-SETTABLE AUDIO FLIGHT TIMER (AFT) TO INDICATE HOW LONG MODEL PLANE HAS BEEN FLYING, TO PROD
FREQUENCY COUNTER WITH LOW PARTS-COUNT, THAT COUNTS INCOMING PULSES IN 10MS INTERVALS
PRECISION LOCK-IN AMP. FOR TEMPERATURE CONTROL IN SPACELAB CALORIMETRIC EXPERIMENT, USING AC.
ELECTRONIC HORSE-RACE GAME
FREQUENCY DIVIDER-COUNTER-METER
FREQUENCY-CONTROLLED GATE (GATED FILTER)

NYE VIKING MB-V ANTENNA TUNER

INEXPENSIVE BUT EFFICIENT THERMOMETER-HEATER CCT FOR HEATING & REGULATING TEMPERATURE WITH 1
EYE-COIL AMP.S, PSD.S, & FILTERS/300KHZ OSCILLATOR, FREQUENCY DIVIDERS, & POWER AMP.S

PRECISION 5- TO 2000UA CONSTANT-CURRENT LOAD (OR SOURCE) FOR 0 TO 5KV VOLTAGES, USING VACUUM TU
ELECTRONIC CHRISTMAS "CARD" USING QUAD 2-INPUT CMOS. SCHMITT-TRIGGER NAND GATE, FLASHING LED.S

STEPPER-MOTOR'S DRIVE CCT (CLOSED-LOOP DRIVER FOR SM SERVO SYSTEM) WITH OUTPUT OF REGULATED
PRECISE, HIGH-CURRENT BUFFER AMP. THAT CAN DRIVE HIGH-POWER LOADS, USING HIGH-CURRENT BUFFER A

ELECTRODE ELECTRONICS INCLUDING ANALOG SWITCH & MDAC. (BBB)/CURRENT-TO-VOLTAGE CONVERTER INC
ELECTRONIC SPINNER TO ELECTRONICALLY DETERMINE NUMBER OF PLACES TO MOVE ON BOARD GAME OR SE

ELECTRONIC DRAGONFLY WHOSE WINGS ARE MADE OF 2 LAYERS OF PIEZOELECTRIC FILM, INCLUDING LF. (~10
FEEDBACK-COMPENSATED SYNCHRONOUS TYPE PSD. THAT PROVIDES DC. OUTPUT PROPORTIONAL TO AMPLIT

SPEED MEASUREMENT SYSTEM (INDUCTION-TYPE TACHOMETER WITH DIGITAL OUTPUT) USING FREQUENCY-MU
SAEM (SCANNING AUGER ELECTRON MICROSCOPE) & DIGITAL INTEGRATOR (SIGNAL PROCESSING SYSTEM), INC

INEXPENSIVE MARKER GENERATOR FOR TUNING SW.

BREADBOARD FEATURING POSITIVE PS., BOUNCELESS PUSH BUTTONS TO SUPPLY POSITIVE OR NEGATIVE PUL
ELECTRONIC FUNCTION SWITCH, PROVIDING COMMUTATION NEAR AMP. STAGE WHERE NEEDED, & FEASIBILITY

FLEXIBLE 1HZ TIMEBASE THAT DRIVES COUNTER MODULE, TO PRODUCE STREAM OF 1HZ, 200US PULSES, USIN
STEREO AUDIO DIGITIZER THAT INTERFACES WITH AMIGA THROUGH PARALLEL PORT, USING ADC.S, ANALOG SV

FREQUENCY MULTIPLIER USING PL. & 3-DECADE COUNTER (DIVIDER), TO MEASURE LF.S SUCH AS 50HZ POWER-
STEPPER MOTOR CONTROL CCT

SPECIAL DIFFERENTIATOR FOR VLF. SIGNALS

PREAMP./TRIGGER STAGE/DIFFERENTIAL STAGE/PEAK HEIGHT DETECTOR USING FAST DIODE, & SH. CCT/AND-G
ELECTRICAL CONTROL SYSTEM INCLUDING PROPORTIONAL AMP., INTEGRATOR, COMPARATOR, TEMPERATURE

PRECISION RECTIFIER USING BALANCED MODULATOR-DEMODULATOR AS COMMUTATING AMP.

ELECTRICALLY VARIABLE RESISTOR USING MOS. SWITCHES, TO CHANGE VALUE OF TUNING RESISTORS DIGITA
PRECISION CURRENT-TO-VOLTAGE CONVERTER/LOGARITHMIC CCT OFFERING DYNAMIC RANGE OF 160DB

FREQUENCY MULTIPLIER INCLUDING AMPLITUDE DETECTOR, AMPLITUDE ADAPTOR, FREQUENCY REDUCTION C
PRECISION LIMITER & ZERO REGULATION SYSTEM THAT CLIPS SQUAREWAVES AT +10V & -10V & STABILIZES ZER

ELECTRONIC CCT (BBB)

FREQUENCY COMPARATOR CCT INCLUDING VCO. WHOSE VOLTAGE CONTROL RESULTS FROM VARICAP-INDUCT
FREE RUNNING CCT USING CMOS. INVERTERS, HAVING PULSE DURATION & PULSE PAUSE DEPENDENT ON TEMP

ELECTRON GUN (CURRENT) MODULATOR OF MODULATION SYSTEM USED WITH ELECTRON ACCELERATOR TO P
FEEDBACK TEMPERATURE CONTROLLER OF RECORDING (HEATING-COOLING) STAGE, INCLUDING THERMOELEC

JFET. OA. CCT USING BOOTSTRAPPING IMPLEMENTED BY 2ND FEEDBACK DIVIDER, TO REDUCE THD. CAUSED BY
AVERAGE-RESPONDING PRECISION RECTIFIER/TRUE RMS. CONVERTER CCT WITH DIFFERENTIAL INPUT/TRUE R

INEXPENSIVE INTERFACE BOARD TO CONNECT RECORDER OUTPUTS OF PH METER TO APPLE II(R) MICROCOMP
WIEN BRIDGE OSCILLATOR USING MONOLITHIC IC THAT IMPLEMENTS CURRENT CONVEYOR/BANDPASS FILTER U

STEREO TONE CONTROL/WIDE-RANGE AC. VOLTMETER/DIFFERENCE AMP./VOLUME-TONE CONTROL/2-TONE SIR
OVEN TEMPERATURE CONTROLLER THAT PRODUCES NO SWITCHING NOISE & HAS GOOD TEMPERATURE STABI

THERMOCOUPLE SIGNAL-CONDITIONER CCT FOR ENHANCING THERMOCOUPLE RESOLUTION

INEXPENSIVE, EASY TO USE, RUGGED INTEGRATOR FOR USE WITH OSCILLOSCOPE, TO MEASURE EARTH'S MAG
SPECTRAL ANALYZER TO DETERMINE HARMONIC CONTENT OF REPETITIVE SIGNAL, USING MULTIPLIER, TUNED

FLEXIBLE MULTICHANNEL INTERFACE TO ENABLE PC. TO PERFORM DATA ACQUISITION & STORAGE OF SIGNALS
THERMOCOUPLE EMF. AMP./ISOLATION AMP. & OFFSET CCT/PROGRAMMABLE HIGH-CURRENT PS.

ELECTRONIC CCT FOR USE WITH DOPPLER VISCOMETER

SPECTRUM CHANNEL CARD THAT PROCESSES 2 COMPONENT SIGNAL CENTERED AT 1HZ & PRODUCES VOLTAGE
PREAMP. WITH WIDE DYNAMIC RANGE FOR INPUT CAPACITANCE, USING 6 HIGH G_m FET.S CONNECTED IN PARA

PRECISION CURRENT SOURCE & SIGNAL CONDITIONING CCT FOR DIODE THERMOMETER, INCLUDING UNITY GAI
PRESSURE MEASUREMENT SYSTEM WITH AUTO-REFERENCING, WITH DAC. CONSISTING OF 7-STAGE RIPPLE CO

ELECTRONIC SWITCH (E-SWITCH) THAT IS ISOLATED FROM ITEM BEING CONTROLLED BY PHOTOVOLTAIC ISOLATED
ELECTROMETER CCTS WITH SHIELDS OF INPUTS DRIVEN (2)
EMERGENCY BC. SYSTEM MONITOR THAT SOUNDS ALARM WHEN EBS WARNING SIGNAL IS RECEIVED
STEPPER MOTOR DRIVE CCT/CCT FOR CONVERSION OF PHOTOCURRENT TO VOLTAGE/DISCRIMINATOR & MONITOR
PRECISION AF. GENERATOR CONSISTING OF AUDIO AMP.-FILTER CCT, AUTOMATIC LEVEL CONTROL, VCO., FREQUENCY
USEFUL LATCHING CCT FOR CW. OPERATION WITH THE HW-101
PREAMP. THAT GENERATES PAIR OF BALANCED SIGNALS IN ITS OUTPUT, WITH INPUT IMPEDANCE OF 1.8KOHM & OUTPUT
STEREO HEADPHONE AMP. TO ALLOW CD. PLAYER TO DRIVE PAIR OF HEADPHONES, USING PAIR OF LOW-NOISE
SPEED CONTROL OF DC. MOTOR SYSTEM THAT DRIVES PUMP, CONSISTING OF MOTOR WITH DRIVE UNITS & TACHOMETER
CLEAN, STABLE & WIDEBAND POSITIVE & NEGATIVE PS.S FOR PREAMP.S, USING 3-TERMINAL PREREGULATOR &
INEXPENSIVE CAPACITANCE METER
ELECTRONIC THERMOMETER SENSOR CCT/CONSTANT CURRENT SOURCE (CURRENT REFERENCE)
ELECTRONIC DOORBELL THAT EMITS GENTLE WARBLING
EMERGENCY BC. SYSTEM (EBS) DECODER
THERMOMETER CCT
PREAMP. FOR LARGE DETECTOR CAPACITANCES/PERIODICALLY STABILIZED PROCESSOR CONSISTING OF HEADPHONE
ELECTRONIC ALERT THAT IS MUCH LOUDER THAN DOOR BELL, & REQUIRES NO CHANGE IN TRANSFORMER OR MOTOR
EMERGENCY ELECTRONIC IGNITION CCT THAT WORKS ON MOST VEHICLES BY BYPASSING IGNITION DEFECTS IN
GAERTNER VERSION OF EB-490-114 LINE-LEVEL PREAMP., USING CASCODED FET.S, INCLUDING DC. SERVO (2)/AUDIO
INEXPENSIVE HEADLIGHT MODULATOR FOR BICYCLES, THAT PULSES HIGH BEAM TO ENHANCE VISIBILITY, USING
ELECTRICAL DISTRIBUTION SYSTEM THAT INCLUDES TRANSIENT & RF. PROTECTION, INCLUDING MOV.S TO CLIP
SWEEP GENERATOR BASED ON DBM. CONTAINING DOUBLE-BALANCED MODULATOR & OSCILLATOR/TEST SET-UP
STEREO HEADPHONE AMP. THAT HAS WIDE FREQUENCY RESPONSE, EXHIBITS LOW NOISE & DISTORTION, & CAPACITANCE
PREAMP. BASED ON COMMON-BASE INPUT TRANSISTOR/POSTAMP.-DISCRIMINATOR WITH GAIN OF 7-10 FOR ANALOG
ELECTRONICS OF TEST MODULE, INCLUDING PREAMP., DIFFERENTIAL AMP., DIFFERENTIAL RECEIVER, 2 COMPARATORS
ELECTRONICS TO MONITOR CAPACITANCE CHANGES, CONSISTING OF 0.5MHZ SQUARE-WAVE OSCILLATOR & DIFFERENTIAL
STEP-DOWN SWITCHING PS. (REGULATOR) TO POWER PELTIER DEVICES, USING TEMPERATURE SENSOR FOR FLOW
STEREO PHONOGRAPH AMP. WITH BASS TONE CONTROL/10HZ TO 10KHZ VCO./CURRENT BOOSTER/UHF. AMP./AUDIO
PREAMP. USING COMMON BASE INPUT STAGE & QUASI-DARLINGTON PAIR OF EMITTER-FOLLOWERS/POSTAMP.
PRECISION LOW-COST TIMER
PREAMP. INCLUDING BASS & TREBLE CONTROL, VARIABLE LPF., SELECTOR & MM RIAA SECTION (2)/PS./CCT TO MONITOR
FEEDBACK AMP. FOR PHASE CONTROL WITH REDUCED NOISE PICKUP ON INPUT/FEEDBACK AMP. FOR AMPLITUDE
PRECISION AC.-DC. CONVERTER THAT CONVERTS 90MV AVERAGE ABSOLUTE AC. INPUT INTO 5V DC. OUTPUT, WITH
ELECTROMETER AMP. FOR ROCKET-BORNE MS.
WIEN BRIDGE OSCILLATOR OF MEASUREMENT SYSTEM, WHOSE OSCILLATION FREQUENCY IS DETERMINED BY
PREAMP./VHF.-UHF. LOW-NOISE PREAMP.
PRECISION REGULATOR FOR DC. PROPORTIONAL HV. PS.S, WHOSE OUTPUT IS CONTINUOUSLY ADJUSTABLE OVER
SPEECH INPUT SUBSYSTEM (LINEAR AMP. INCLUDING 4TH-ORDER BUTTERWORTH FILTER)/INTERFACE CCT
PREAMP.-ANALOG MUX. CCT WITH 3 SHUNT VOLTAGES & ZERO REFERENCE SIGNAL MUX.ED INTO FAST 20MHZ
ELECTROSTATIC DOUBLE PROBE FOR MEASUREMENTS IN SCRAPE-OFF LAYER OF TOKOMAK PLASMAS/PHOTODIODE
ELECTRONIC SWITCH FOR AUDIO
WIEN BRIDGE OSCILLATOR WITH FAST AMPLITUDE CONTROL CCT/WIEN BRIDGE OSCILLATOR WITH CCTS OF FAST
THERMAL CONTACT-SENSING ELECTRONIC THERMOMETER CONSISTING OF TEMPERATURE MEASUREMENT & SIGNAL
ELECTRONIC ANALOG OF MECHANICAL BOUNCING BALL, USING 3 JFET. LINEAR DIFFERENTIAL AMP.S (OA.S) & PI
3-ELECTRODE CONDUCTIVITY METER THAT REDUCES INFLUENCE OF ELECTRODE POLARISATION ON MEASUREMENTS
PREAMP. CCT USED IN CHAIN TO READOUT MWPC.S, CONSISTING OF DIODE PROTECTED COMMON BASE INPUT
THERMOCOUPLE AMP. TO MEASURE RAPID CHANGES IN TEMPERATURE, CONSISTING OF FLOATING & GROUND
PREAMP. OF COMMON BASE TYPE OPERATING IN CHARGE SENSITIVE MODE, WITH 42NS TIME CONSTANT & RMS
PIEZOELECTRIC CHARGE AMP. TO AMPLIFY CHARGE CREATED ON PZT. (PIEZOELECTRIC DETECTOR) DISK

FEEDBACK SYSTEM FOR NULL-BALANCE CONTROL OF OPTICAL-FIBER-BASED FORCE TRANSDUCER, INCLUDING PREAMP., ELECTRONIC GATE, CR FILTER & OUTPUT STAGE/AVALANCHE PULSE GENERATOR
PREAMP. TO AMPLIFY SIGNAL FROM MICROPHONE/AC.-DC. CONVERTER
STEP GENERATOR OF CURVE TRACER TO TEST TRANSISTORS (3)/CLOCK & COUNTER CCT (2)/2 OA. HIGH CURRENT SWEEP CCT/REFERENCE SIGNAL GENERATOR/AMPLITUDE DEMODULATOR/RF. BRIDGE DETECTOR & PREAMP.
PREAMP. CONSISTING OF CURRENT AMP. & ACTIVE LPF./CCT IN CONNECTION WITH MODULATION TRANSFORMER
ELECTRONICS USED IN ASSOCIATION WITH UP., INCLUDING ADC., EMG. AMP., SCHMITT TRIGGER, RELAY DRIVER
PREAMP. FOR USE WITH UNITED DETECTOR TECHNOLOGY SILICON PHOTODETECTORS (PHOTODIODES), PROVIDING
PREAMP. USING OA., WITH INPUT IMPEDANCE OF ~80MOHM, FOR USE WITH PIEZOELECTRIC COAXIAL POLYMER
FREQUENCY CONTROLLER & AUTO-LOCK CCT
ELECTRONIC MOTOR-SPEED CONTROL CCT THAT MEASURES SPEED OF MOTOR IN TERMS OF FREQUENCY OF PULSE
SWEEP GENERATOR WITH CAPACITANCE MULTIPLIER
FREQUENCY SWEEP GENERATOR CONSISTING OF RAMP GENERATOR THAT PRODUCES RAMP WITH ADJUSTABLE
ELECTRONIC POTENTIOSTAT CONNECTED BETWEEN ELECTROCHEMICAL CELL & LCR METER, TO AUTOMATICALLY
FREQUENCY QUADRUPLER FOR INPUT FREQUENCY OF 10MHZ/22.5DEG PHASE-SHIFTER FOR USE WITH VARIAN
ELECTROPNEUMATIC SERVO-CONTROL SYSTEM FOR OPEN-LOOP BLOOD PRESSURE REGULATION (2)/SERVO-CONTROL
PREAMP. CARD/HYBRID PREAMP./AMP.-SHAPER-DISCRIMINATOR (ASD) USING VIDEO AMP. & HIGH SPEED COMPARATOR
FREQUENCY-TO-VOLTAGE CONVERTER/FVC WITH 3-POLE, LOW-PASS BESSEL FILTER ADDED TO OUTPUT/FAST-RESPONSE
ELECTROMETER USING CMOS. BILATERAL SWITCH FOR AUTOMATIC RANGE CONTROL, PROVIDING LINEAR ANALOG
ELECTRONICS OF IMAGING DETECTOR CONSISTING OF 32-ELEMENT PHOTODIODE ARRAY EACH OF WHOSE WHOLE
PREAMP. FOR LOW NOISE SIGNAL ACQUISITION FROM MICROSTRIP DETECTORS, CONSISTING OF CHARGE-SENSITIVE
PREAMP. USING METGLAS MATCHING TRANSFORMER COUPLING LOW IMPEDANCE CRYOGENIC SOURCES TO LOW-NOISE
ELECTRO-OPTICAL DISPLACEMENT SENSOR INCLUDING LIMIT SWITCHES & SHUTTER/PHASE ADVANCE CCT & OPEN
OPEN PATH CO₂ ANALYSER FOR MEASURING CO₂ FLUXES OVER CROP CANOPIES BY EDDY CORRELATION TECHNIQUE
INEXPENSIVE MODEL-30-COMPATIBLE (DOS. CLONE) DESIGN BASED AROUND 80C186 PROCESSOR & VADEM PC.
PRESSURE TRANSDUCER CCT (BAROMETER) THAT PRODUCES 2 TO 5V DC. OUTPUT/TOXIC GAS SENSOR TO INTERRUPT
PREREGULATOR FOR LINEAR PS.S
PRECISION DIFFERENTIAL PROBE INPUT BUFFERS FOR PROBE TO ACCURATELY MEASURE ANALOG SIGNALS IN
SPECTRUM GENERATOR INCLUDING GAUSSIAN NOISE GENERATOR & DEAD TIME CCT, PROVIDING PULSE TRAIN
THERMOCOUPLE AMP. OF DIFFUSION FURNACE SYSTEM, INCLUDING COLD JUNCTION COMPENSATING DIODE & WHEATSTONE
WHEATSTONE BRIDGE & PREAMP., TO PROVIDE KNOWN POWER TO HOT-WIRE, & MEASURE/ADJUSTABLE GAIN D
INEXPENSIVE SERIAL INTERFACE CCT TO GENERATE 40KHZ WAVEFORM BURSTS WHEN ENABLED, USING OPTICAL
ELECTRONICS OF MOTOR THAT USES IR. SWITCHING CONSISTING OF OPTICAL DISC, IR.-EMITTER LED.S & RECEIVER
ELECTRONIC REGULATOR TO REMOVE ALTERNATOR WHINE (NOISE) FROM TRANSMITTED SIGNAL, USING 2 NPN
EMERGENCY AUTODIALLER THAT REQUIRES NO LINE CONNECTION/BATTERY CHARGER/ALARM GENERATOR
ELECTRONICS OF SMARTFAX RECORDER INCLUDING 1MA STYLUS VOLTAGE METER, MOTOR DRIVE, DRUM POSITION
PREAMP., ABSOLUTE-VALUE AMP., VFC., ZERO DETECTOR, POLARITY INDICATOR, DIVIDE-BY-N COUNTERS & PS.S
FREQUENCY-COMPENSATED PREAMP. USING FREQUENCY-COMPENSATED OA. CONFIGURED AS VOLTAGE FOLLOWER
PREAMP. OF SIGNAL PROCESSING ELECTRONICS, USING OA. TO BUFFER & AMPLIFY SIGNAL FROM 13-STAGE PM
FREERUNNING RTC. USING MOSTEK COUNTER-TIME BASE DRIVEN BY 1MHZ QUARTZ CRYSTAL/PROGRAMMABLE
SPEED CONTROLLER FOR FAN IN PC. PS., CONSISTING OF TEMPERATURE MONITOR BASED ON RED LED. AS SENSITIVE
PRE-AMP. STAGE USING 3 LINE-DRIVERS AS AMP.S, WITH GAIN OF 128/AMP.-DISCRIMINATOR USING VOLTAGE COMP
ELECTRONIC-SIGNAL PROCESSING MODULE OF FIRE DETECTOR SHOWING WHEATSTONE BRIDGE, LOCK-IN AMP.
PREAMP. HYBRID CCT OF "CLUSTER COUNTING" ELECTRONICS (FRONT-END ELECTRONIC CHANNEL)/AMP. & DISCRIMINATOR
WIEN BRIDGE OSCILLATOR CONSISTING OF 2 INVERTING AMP.S, THAT WILL SUSTAIN CONSTANT AMPLITUDE OSCILLATION
QUENCH DETECTOR THAT INTERRUPTS FLOW OF CURRENT THROUGH SUPERCONDUCTOR IF IT REVERTS TO NORMAL
STEPPER MOTOR CONTROLLER
ELECTRONIC PEDOMETER
EYE RETRACTION DETECTOR (DETECTION CCT) USING LED., PHOTODIODE & OA.

INEXPENSIVE SAWTOOTH WAVE, SQUARE-WAVE GENERATOR (OSCILLATOR), USING OA. & TRANSISTOR/MOD. OF
SPEECH PROCESSOR (AUDIO PROCESSOR & MICROPHONE PREAMP. FOR FM. TRANSMITTERS) USING PRE-EMPH
OVERLOAD WINDOW CONSISTING OF WINDOW COMPARATOR THAT MEASURES MAGNITUDE OF AF. SIGNAL, USING
PREAMP. FOR HAMAMATSU PBSE (LEAD-SELENIDE) IR. DETECTOR (PHOTOCONDUCTIVE CELL), USING BIFET. OA.
EVENT COUNTER'S TRANSMITTER USING TIMER & IRED./EVENT COUNTER'S RECEIVER & COUNTER SYSTEM, USING
ELECTRONICS OF BEAM POSITION MONITOR (BPM) FOR FINAL FOCUS TEST BEAM, INCLUDING PULSE STRETCHER
WIEN-BRIDGE OSCILLATOR TO GENERATE SINEWAVES, USING OA., & INCANDESCENT BULB TO ADJUST GAIN/OS
PRECISION SOLDERING-IRON CONTROLLER USING FLOATING ADJUSTABLE HV. CURRENT REGULATOR, FOR USE
EXERCISE-BIKE INTERFACE/CCT TO INTERFACE ROTARY ENCODER TO PARALLEL PORT/CCT USING ENCODER &
PREAMP. & COMPUTING CCT FOR SUMMATION METHOD OF MULTICHANNEL INTENSIFICATION/INTENSIFICATION
STEREO CD. COMPRESSOR TO RECORD COMPACT DISC ON CONVENTIONAL CASSETTE RECORDER
ELECTRON BEAM POSITION CONTROL INCLUDING AUTOMATIC CAPTURE CCT, USING CURRENT-TO-VOLTAGE CO
ELECTRODE PICKUP, PREAMP., FILTER STAGES & FINAL AMP. OF HEMISPHERIC ACTIVATION LEVEL DETECTOR E
PLETHYSMOGRAPH THAT PICKS UP HEART BEAT FROM CHANGES IN ATTENUATION OF IR. RADIATION TRANSMIT
INEXPENSIVE AC.-LINE DISTURBANCE MONITOR (LDM) THAT DETECTS RF. NOISE & HIGH-LOW VOLTAGES, & ENA
STEP-UP DC.-DC. CONVERTER
ELECTROMETER CCT USED WITH BLOOD PO₂ ELECTRODE CHAMBER, INCLUDING OPTO-ISOLATORS & TEMPERA
JFET. INPUT UNITY GAIN BUFFER/SAME, PRECEDED BY EMITTER FOLLOWER/SAME, WITH FOLLOWER'S COLLECT
BREAKOUT BOX USING BUFFERED TRI-COLOR LED.S TO PROVIDE HIGH-LOW INDICATION OF RS-232 SIGNAL LINE
PREAMP. STAGE OF AMP. FOR ELECTRET HEADPHONES, USING OA.S/HV. STAGE BASED ON 2 TRANSISTORS AS
INEXPENSIVE PERCUSSION SYNTHESIZER ACTIVATED EITHER EXTERNALLY OR BY TOUCH
STEREO PARAMETRIC AMP.-EQUALISER
PRECISION VOLTAGE REGULATOR USING MONOLITHIC CURRENT MIRROR TO PROVIDE WELL-REGULATED CURR
PRECISION HIGH SPEED AC. TO DC. CONVERTER CONSISTING OF PRECISION RECTIFIER FOLLOWED BY DIFFERE
WHEATSTONE BRIDGE CCT USING CDS PHOTOCONDUCTIVE CELL (DETECTOR CCT)
PREAMP. TO AMPLIFY SIGNAL DETECTED BY PHOTODIODE, WHICH IS FEEDBACK TO Y INPUT OF OSCILLOSCOPE
ICE. BUFFERS THAT PRESENT CORRECT LOAD FOR ADDRESS LINES, DATA LINES & CONTROL SIGNALS, TO AVOI
PREAMP. WITH CORRECTION IN FEEDBACK LOOP SHOWN (M1479005)
ELEGANT & SIMPLE COMPENSATION CCT THAT GIVES LM318 OA. BW. OF 30MHZ & SLEW RATE OF 70V-USEC IN IM
STEP DOWN CCT/3V-5V CONVERTER/EPROM. PROGRAMMER SUPPLY/RS232 PS./LAMP DIMMER OR FLASHER CCT
ELECTRONIC CONTROL SYSTEM OF CONTROLLER
EYE-TRACKING INSTRUMENT TO ALLOW QUADRIPLEGIC TO CONTROL SWITCH USING EYE MOTION, CONNECTED
STEAM SOUND GENERATOR TO FIT ON-BOARD HO 0-4-0T & 0-6-0 MODEL LOCOMOTIVES, USING DUAL OA. & NOIS
ANEMOMETER INCLUDING PULSE SHAPING & FREQUENCY TO VOLTAGE CONVERTER BOARD, & LED. BARGRAPH
JFET. CONSTANT CURRENT SOURCE/CURRENT SOURCE/CURRENT SOURCE WITH TEMPERATURE COMPENSATIO
ELECTRONICS OF ROBUST BIDIRECTIONAL PROBE (BDP), INCLUDING PIEZORESISTIVE PRESSURE SENSOR, TO M
PRECISION THERMOMETER, SENSITIVE ENOUGH FOR MEDICAL APPLICATIONS, USING DIODE PROBE
PRECISION ELECTRONIC TUNER TO TUNE GUITAR & PROVIDE PERFECT PITCH, USING 12 POTENTIOMETERS
SPEECH SYNTHESIZER WITH LOGIC CONTROL INTERFACE/MULTICHANNEL SPEECH SYNTHESIZER (BBB)/MULTIC
ELECTRICALLY TUNED BANDPASS FILTER TO IMPROVE FRONT END SELECTIVITY IN VHF. (150-174MHZ) MOBILE R
ELECTRONIC SHUTTER IN WHICH ECG. IS FED TO FILTER & COMPARATOR TO SENSE R-WAVE PEAK/PHOTODETE
INEXPENSIVE SELF-CONTAINED VARIABLE GAIN AUDIO AMP.
ELECTRONIC VOLTAGE REFERENCE TO REPLACE CHEMICAL STANDARD CELL, USING SUBSURFACE ZENER DIOD
THERMOCOUPLE LINEARISER CCT WITH COLD JUNCTION COMPENSATION (BBB)/PRECISION SQUARING CCT
FREQUENCY-TO-VOLTAGE CONVERTER/ANALOG DATA TRANSMISSION SYSTEM
PSEUDORANDOM NUMBER GENERATOR
STEREO POWER METER
INEXPENSIVE VERSATILE CCT ALLOWING OSCILLOSCOPE OR XY RECORDER TO BE USED AS TRANSISTOR CURV
THERMISTOR-BRIDGE CCT TO DETECT SYSTEM-COOLING AIR LOSSES CAUSED BY FILTER OR INLET BLOCKAGE

SPEED ALERT CCT FOR CAR (AUTOMOBILE), THAT IS SIMPLE TO INSTALL, USING NATIONAL SEMICONDUCTOR TA
ELECTRONIC THERMOMETER INCLUDING TEMPERATURE SENSOR, FIXED VOLTAGE & VARIABLE VOLTAGE OFFS
ELECTRONICALLY TUNABLE 2ND ORDER BANDPASS (BP) FILTER WITH TUNING RANGE OF 33 TO 42KHZ, USING O
FREQUENCY DISCRIMINATOR USING FREQUENCY-TO-VOLTAGE CONVERTER & COMPARATORS (1 OF WHICH IS U
STEAM/SOUND SIMULATOR BASED ON QUAD OA., INCLUDING DIODES (TO RECTIFY TRACK VOLTAGE), SAWTOOTH
PRECISION VFC. THAT RUNS ON 1.5V PS., USING LV. OA. CONTAINING INPUT AMP. & REFERENCE AMP., INCLUDIN
ELECTRONIC GONG COMPRISED OF PS., OSCILLATOR (USING NOR GATES), ACTIVE TWIN-T FILTER, & AUDIO-OUT
ELECTRIC POWER CONTROL (EPC) & TIMER SWITCH, TO THROTTLE ELECTRIC MOTORS IN MODELS, INCLUDING T
PRECISION CRYSTAL-CONTROLLED TIMEBASE FOR 60, 10 OR 1HZ/2-DIGIT DIGITAL COUNTER-STOPWATCH
PREAMP. USED AS "ELECTRONICALLY COOLED" TERMINATION FOR DELAY LINE/PULSE SHAPING AMP./TIMING &
FREQUENCY ANALYZER SECTION OF INSTRUMENT FOR FTFAM (FT. FARADAIC ADMITTANCE MEASUREMENTS), C
INEXPENSIVE UNIVERSAL BATTERY CHARGER
PREREGULATOR/5V, 1A SWITCHING REGULATOR/STEP-DOWN CONFIGURATIONS (2)/INVERTING CONFIGURATION
INEXPENSIVE CLOCK-CALENDAR BOARD TO KEEP IBM-PC. ON TIME AUTOMATICALLY, USING CLOCK IC
LIE DETECTOR (VOICE ANALYZER)
STEREO CLICK & POP FILTER
STEREO HEADPHONE AMP.
ELECTRONIC-CROSSOVER CCT CONTAINING SUMMING AMP. THAT COMBINES LEFT & RIGHT CHANNELS/SUBWO
PRECISION COMPONENT CHECKER (EZ-CURVE CCT) (SIGNATURE TRACER) THAT ENABLES ANY OSCILLOSCOPE
STEP-DOWN FORWARD CONVERTER PROVIDING 8V WITH 12V INPUT/-15V INVERTING CONVERTER FOR POSITIVE
FREE RUNNING MULTIVIBRATOR OF VOID FRACTION MONITOR INCLUDING VIA.S & COMPUTER, USING TIMER & R
IEEE-488 INTERFACE BOARD USING MEMORY-MAPPED GPIB.-INTERFACE IC, INCLUDING BUS TRANSCEIVERS TO
INEXPENSIVE TTL. VARIABLE DELAY GENERATOR WITH NANOSECOND RESOLUTION/LINE-SYNCHRONIZED OSCIL
ELECTR-OPTIC RECEIVER/12V DC. INVERTER HENE LASER PS.
THERMOCOUPLE COLD-JUNCTION COMPENSATOR USING REFERENCE & TEMPERATURE-SENSITIVE CURRENT S
ELECTRONIC THERMOMETER CONSISTING OF PRECISION SEMICONDUCTOR (SOLID-STATE) TEMPERATURE SEN
THERMOMETER WITH +-2DEG C ACCURACY, USING IC TEMPERATURE TRANSDUCER/TEMPERATURE ADAPTER FO
FREON CONTROL CCT TO CONTROL 2 FUEL INJECTORS/SHAFT HEATER CONTROL & TEMPERATURE MONITORIN
FREQUENCY-DETECTOR (SYNCHRONOUS DETECTOR) CCT WITH ADDED QUADRATURE CHANNEL TO ELIMINATE
THERMOSTAT FOR TEMPERATURE REGULATION (CONTROL) IN SEED GERMINATION BOX, INCLUDING THERMISTO
PREREGULATOR TO PREREGULATE PS. TO 7.5V BEFORE IT REACHES BUS, USING VARIABLE VOLTAGE REGULAT
FREQUENCY-COUNTER TIMING CCT USING CMOS. DEVICES, WITH OUTPUTS OF 10HZ, 2HZ, 1HZ & 0.5HZ, USING D
STEP AMP. OF TIMING ELECTRONICS, WITH 100UV SENSITIVITY & RISE TIME OF <0.2US/TIMER-TRIGGER GENERAT
THERMAL SENSOR-SWITCH THAT PROVIDES 3 SWITCH POINTS (LEVELS) AS AMBIENT TEMPERATURE RISES, USI
CHEAP, SIMPLE & SENSITIVE GAUSSMETER TO DETECT & MEASURE DYNAMIC (MOVING) MAGNETIC FIELDS, INCL
FEEDBACK CCT WITH B-DOT LOOP (SENSOR) AS DETECTOR CONSISTING OF MULTITURN WIRE LOOP/FEEDBACK
PRE-ELECTROLYSIS POTENTIOSTAT USING ADJUSTABLE PRECISION ZENER DIODES FOR APPLIED POTENTIAL
PRESSURE-TRANSDUCER BRIDGE, INCLUDING TEMPERATURE-COMPENSATED CURRENT SOURCE TO ACCOMOD
ELECTROLUMINESCENT DIODE DRIVER TO DRIVE HEWLETT-PACKARD HLMP-3315 HIGH EFFICIENCY GAAS. PHOS
SPEECH FILTER/HIGH-PASS FILTERS (3)/LPF.S (3)/PHASE-SPLITTER/DIFFERENTIAL AMP./AUDIO MIXER/ADDER/VO
FREQUENCY DISPLAY BOARD CONNECTED BETWEEN XEROX 820-1 & ICOM-2AT 2M TRANSCEIVER (2)/CCT TO INT
ELECTRONIC SHUTTER OPERATED BY ECG., CONSISTING OF FILTER & COMPARATOR, WITH OUTPUT TO PULSE F
PREAMP. USING DUAL-GATE MOSFET./PREAMP. USING SINGLE-GATE MOSFET./AMP.-DISCRIMINATOR-TYPE PREA
ELECTRONIC CHRISTMAS TREE USING MICROPHONE TO PICK UP AUDIO SIGNALS, TO LIGHT STRINGS OF LED.S /
PRECISION RECTIFIER-BUFFER INCLUDING ABSOLUTE VALUE-CCT & UNITY-GAIN BUFFER, TO CONDITION AC. SIG
VMEBUS BOARD WITH SCANNABLE LOGIC BETWEEN UP.S, GLUE LOGIC, MEMORY, & BACKPLANE CONNECTIONS
ELECTROLYTIC CAPACITOR LEAKAGE TEST CCT USING CONSTANT-CURRENT SOURCE/METAL DETECTOR CONS
BREAKDOWN DETECTOR CCT OF OPTICAL DETECTOR OF ELECTRICAL DISCHARGES, BASED ON OPTOELECTRON
STEREO MINIATURE 4W AUDIO AMP. THAT PRODUCES UP TO 2W PER CHANNEL

INEXPENSIVE FREEZER MONITOR WITH UNUSUAL THAW-FREEZE SENSOR, USING FLUID DETECTOR IC CONTAINING
SPEECH TRAINING AID TO MONITOR SPEECH, ANALYSE IT FOR PAUSES & SOUND WARNING (BUZZER) IF PAUSES
OVERVOLTAGE SENSOR/WINDOW-COMPARATOR VOLTAGE MONITOR/DOT-BAR-GRAPH GENERATOR/BLOWN-FUSE
ELECTRONIC PF. METER IN WHICH ALTERNATING VOLTAGE & CURRENT SIGNALS PASS THROUGH ZCD., & VOLTAGE
PRE-PROCESSING ELECTRONICS
INEXPENSIVE SERVO MOTOR SPEED CONTROL
WEE PEE WEE PORTABLE ALPHA SURVEY METER BASED ON ALPHA AIR PROPORTIONAL PROBE, INCLUDING INPUT
PREAMP. OF DETECTOR ELECTRONICS CONSISTING OF PREAMP., POSTAMP. CARD, TAC., ADC., & MEMORY LOOP
ELECTRONIC COIN TOSS CCT (CORRECTED CCT) (HAEL8402#)
PREAMP. THAT OPERATES AS A LINEAR CLASS-A AMP.
FIELD-STRENGTH METER/ATTENUATOR/RF. AMP./TRF. RADIO/VOLTAGE DOUBLER CCT
ITERATIVE COMPARATOR USING 4 BIT MAGNITUDE COMPARATOR, 6 BIT REGISTER, 4 BIT REGISTER & FF. (BBB)
PREAMP. (VOLTAGE AMP.) USING PLESSEY BIPOLAR INTEGRATED VHF. AMP./COMPLEMENTARY DRIVER WITH GAIN
ELECTRONIC WATERMARK-DETECTOR
STEPPER MOTOR DRIVER CARD TO WHICH PORTS OF 8155 (WHICH ARE PART OF SDK-85 MICROCOMPUTER SYSTEM)
FEEDBACK CCT (VOLTAGE DRIVER) INCLUDING DETECTOR, 1-16A AMMETER, SATURABLE ABSORBER (USING SCHEMATIC)
PRESET COUNTER & CONTROL CCT FOR DIGITAL ADD-SUBTRACT CORRELATOR, TO OPERATE WITH NORTHERN
OVERLOAD CURRENT TRIP THAT WILL CUT OFF ALMOST INSTANTLY IF PRESET THRESHOLD CURRENT IS EXCEEDED
ELECTRONIC BIAS SWITCHING CCT FOR KEYING CATHODE CCT OF 572B TUBES IN AMP.
ELECTRONIC BIAS-SWITCHING CCT
OVERFLOW INDICATOR TO LET ONE KNOW WHEN SUMP PUMP IN BASEMENT FAILED
IEEE 488 BUS MONITOR
SPEAKER OVERLOAD PROTECTOR
OVER-VOLTAGE INDICATOR CCT TO LIGHT LED. WHEN PARTICULAR VOLTAGE LEVEL IS REACHED, USING TRANSISTOR
FUEL ALARM TIMER TO KEEP TRACK OF TIME PLANE HAS FLOWN, TO BE INSTALLED IN TRANSMITTER, ADJUSTABLE
ENERGY SAVING CONTROLLER FOR INDUCTION MOTORS OPERATING AT LESS THAN FULL LOAD CONDITIONS, USING
WHEATSTONE BRIDGE CCT FOR RF. THAT IS PRIMARILY NULL INDICATOR, BUT CAN BE CALIBRATED IN VSWR.
PREAMP. FOR USE WITH FREQUENCY COUNTER WHEN MEASURING WEAK SIGNALS FROM MIXERS, ETC./LINE TAP
THERMISTOR THERMOMETER CONSISTING OF WHEATSTONE BRIDGE, WITH 2 DIODES TO PROTECT METER, TO MEASURE
BEEPER BOX CONSISTING OF TRANSISTOR IN 1KHZ "BRIDGED T" OSCILLATOR THAT STARTS UP VERY QUICKLY &
FIELD-STRENGTH METERS (CARRIER-OPERATED ALARMS) USING TRANSISTOR, DIODES & PIEZO ALARM, TO PROTECT
JFET. ANALOG SWITCH WITH HIGH RATIO OF ON-STATE CURRENT TO SWITCH LEAKAGE CURRENT/VMOS. ANALOG
INEXPENSIVE, ACCURATE & STABLE INSTRUMENT TO MEASURE INDUCTANCE FROM 1UH TO 1H, & CAPACITANCE
OCEAN-SPANNING CRYSTAL RECEIVER, PROVIDING DX RECEPTION USING TOTALLY PASSIVE CCT INCLUDING GAIN
EMERGENCY LIGHT SOURCE WITH BACKUP POWER SOURCE & BATTERY-CHARGING CAPABILITIES
INEXPENSIVE ACID RAIN MONITOR USING MOSFET. SENSING CCT IN A WHEATSTONE BRIDGE ARRANGEMENT
FIELD-STRENGTH METER (FSM) USING GERMANIUM POINT CONTACT DIODES CONFIGURED AS VOLTAGE DOUBLER
ELECTRONIC AUDIO-IF.-LOW RF. (DIODE) SWITCH/NPN TRANSISTOR SWITCH/PNP SWITCH/SQUELCH & VOX OPERATING
OPERATING AID TO ADJUST ANTENNA TUNER WITHOUT PUTTING CARRIER ON AIR
ELECTRO-MECHANICAL FUSES THAT MAKE PS.S & BATTERY CHARGERS PROOF AGAINST SHORT-CCTS, USING FUSE
FREQUENCY DOUBLER THAT ACCEPTS 5MHZ SQUARE WAVE & DELIVERS SAME AT 10MHZ INTO 50OHM LOAD, USING
THERMISTOR-BASED TEMPERATURE CONTROLLED SWITCH TO SWITCH ON & OFF ELECTRICAL DEVICES, THAT CAN
USER PORT INTERFACE TO USE COMMODORE C64 COMPUTER AS PULSE (FUNCTION) GENERATOR, USING TRANSISTOR
THERMISTOR PULSE-HEATING & TEMPERATURE SENSING CCT, USING THERMISTOR MICROPROBE FUNCTIONING
REED-RELAY INTERFACE CONNECTIONS & DRIVE CCT, THAT ALLOWS PET COMPUTER TO DETERMINE SEQUENCE
ELECTRONIC PADDLE
PIERCE OSCILLATOR/TONE CONTROL/SINEWAVE OSCILLATOR/VOLTMETER/BUFFER
EMERGENCY LIGHTING SYSTEM USING LANTERN (LAMP), RECHARGEABLE BATTERIES, 115V AC. RELAY, & DIODE
ELECTRONIC BELL USING PIEZO BUZZER, REQUIRING NO PS.

PREIONIZERS DRIVE CCT THAT DRIVES CORONA UV. SOURCES FROM ISOLATION TRANSFORMER/CHARGING COIL
ELECTRONIC SYSTEM FOR EXPERIMENTAL SETUP, USING PHOTODETECTORS
PREAMP. WITH GAIN OF 6.7 & BW. OF 10MHZ, TO AMPLIFY SIGNAL FROM FARADAY CUP USED AS DETECTOR
FIELD REVERSING CCT USING OPTOCOUPERS & VMOS. TRANSISTORS, INCLUDING NON-OVERLAP CCT, TO SWITCH
PREAMP.
INEXPENSIVE RF. IMPEDANCE BRIDGE
PREAMP. USING 6 INPUT JFET.S, WITH SINGLE CASCODE FET. & INPUT CONNECTED TO SOURCE FOLLOWER CCT
ELECTRONIC DEVICE CONTROLLER THAT ALLOWS FOR REAL-TIME PULSE MEASUREMENTS USING CORRELATOR
INEXPENSIVE SOLID-STATE CONTROLLER THAT REDUCES INEFFICIENCIES IN ELECTRIC MOTORS
PREAMP. INPUT SECTION TO BUFFER PHOTODIODE ARRAY (PDA) OUTPUT STAGE SIGNAL
OVERRANGE CORRECTION AMP.
PREAMP. CARD TO READ OUT 6 SENSE WIRES IN ANODE MODULE FROM EACH END, USING FAST, LOW NOISE PRE-AMP
4-ELECTRODE POTENTIOSTAT USING O.A.S, & I.A. TO MAKE DIFFERENTIAL MEASUREMENTS OF VOLTAGE & CURRENT
INEXPENSIVE KRYTRON PULSE GENERATOR TO GATE OPTICAL MCA., INCLUDING TRIGGER, AVALANCHE CHAIN &
FREE RUNNING AUTORANGER WITH ANALOG LIMIT COMPARISON, INCLUDING VGA (VARIABLE GAIN AMP.)/DUAL CHANNEL
JFET. INTEGRATING AMP. WITH P CHANNEL ENHANCEMENT MODE MOSFET. RESET SWITCH & PHOTOCONDUCTOR
CHEAP, RELIABLE VHF.-UHF. WATTMETER WITH 2 POWER RANGES, THAT CAN BE USED FROM 50 TO 500MHZ, USING
STEPPING-MOTOR DRIVE CCT USING BIPOLAR TRANSISTOR TO CONTROL CURRENT TO MOTOR WINDING/STEPPER
INEXPENSIVE VHF.-UHF. RF. SWITCH USING COMMON DIODES, WITH INSERTION LOSS OF ~1.5DB FROM 100 TO 1000
PIEZOELECTRIC CERAMIC PLATE DRIVERS INCLUDING COMMON-EMITTER AMP. WITH VOLTAGE GAIN OF 50, & OUTPUT
ELECTRONIC RINGER/2-TONE RINGER OPTION/CCT TO ACTUATE EXTERNAL DEVICE AFTER SELECTED NUMBER OF
INEXPENSIVE, 2-TERMINAL, CONSTANT-CURRENT REGULATOR THAT ACTS AS VARIABLE IMPEDANCE INSERTED
PRECISE PROGRAMMABLE HEATER CONTROLLER
ELECTRIC MOTOR SPEED CONTROLLER/CRUDE-ECONOMICAL TYPE OF MOTOR SPEED CONTROLLER
PREAMP. (MF TUNED ACTIVE WHIP ANTENNA) WITH TUNING RANGE OF ~2000-1500KHZ WITH 5FT WHIP, USING 40
FEEDBACK NETWORK-AMP. OF 1.2GHZ PLL., INCLUDING HIGH GAIN INVERTER/PART OF 1.2GHZ PLL. EXCITER WITH
ELECTROCHEMICAL MEASURING CCT FOR 2-ELECTRODE SYSTEM, INCLUDING CONTROL AMP. & CURRENT FOLLOWER
SWEEP GENERATOR INCLUDING SAWTOOTH GENERATOR, CRYSTAL OSCILLATOR & BROADBAND AMP./DIODE DRIVER
THERMOMETER BASED ON VACUUM SEALED QUARTZ RESONATOR-TEMPERATURE SENSOR, FET. OSCILLATOR USING
THERMISTOR AMP. IN WHICH EACH THERMISTOR (SENSOR) IS CONNECTED TO CCT THAT PRODUCES LINEAR RESISTANCE
PRECISION REGULATOR (CHARGER) TO SAFELY CHARGE NEW LI-ION RECHARGEABLE LITHIUM CELL, PUTTING CURRENT
PREAMP. WITH CAPACITANCE NEUTRALISATION CCT/DIFFERENTIAL AMP./INHERENT STIMULATOR/IONTOPHORETIC
INEXPENSIVE PRECISION VCO. PROVIDING SQUAREWAVE & TRIANGULAR-WAVE OUTPUTS UP TO FEW HUNDRED
SPEECH-ACTUATED SWITCH THAT ENABLES VOICE OPERATION OF RADIO TRANSCEIVER, USING ELECTRET MICROPHONE
OPEN-CUT AXON CLAMP ELECTRONICS INCLUDING DIFFERENTIAL AMP. (DA), CURRENT-TO-VOLTAGE CONVERTER
ELECTRONIC PHASE CONTROL UNIT
SPEECH INPUT MODULE (SIM) USING CODE-TO-SPEECH PROCESSOR & SPEECH SYNTHESIZER (3)/SPEECH INPUT
PRECISE FULL-WAVE RECTIFIER THAT OPERATES FROM SINGLE SUPPLY VOLTAGE & ACCEPTS AC. INPUTS UP TO 100V
ELECTRONIC ALTIMETER
SPEECH SYNTHESIZER
SPEECH SYNTHESIZER USING SINGLE CHIP N-CHANNEL MOS. LSI. SPEECH PROCESSOR IC, TO ENABLE COMMON
PREAMP. FOR CERAMIC PYROELECTRIC IR. DETECTOR, FOR RADIOMETRIC APPLICATION WHERE CHOPPING FREQUENCY
PRECISION THERMOCOUPLE ADAPTER (ACCESSORY) TO ENABLE DC. VOLTMETER TO READ (MEASURE) TEMPERATURE
PRECISE LIMITER USING O.A.S & 1 ZENER DIODE WITH FULL-WAVE DIODE BRIDGE INSTEAD OF MATCHED PAIR OF
SPEAKING TELEPHONE KEYPAD USING SPEECH PROCESSOR IC & SPEECH ROM. TO VOCALIZE DIALLED NUMBER
YAESU FL-7000 SOLID-STATE HF. NO-TUNE LINEAR AMP. (BBB)/1 OF 2 POWER AMP. UNITS/PART OF AUTOMATIC
PRECISION VOLTAGE-CONTROLLED CURRENT SOURCE (CCS) WITH EXCELLENT TEMPERATURE STABILITY & ABSOLUTE
PRESSURE-TO-VOLTAGE CONVERTER USING PIEZORESISTIVE TRANSDUCER/PORTABLE MANOMETER/ELECTRONIC
ELECTRONIC CCT OF IETS, INCLUDING AMP.-ATTENUATOR IN CASCADE WITH PHASE SHIFTER, & CURRENT SUPPLY

PREAMP. FOR SURFACE BARRIER DETECTORS, INCLUDING CHARGE-SENSITIVE AMP. (CSA), & FET. & FAST-INTEG.
PRECISION SHUNT REGULATOR THAT FUNCTIONS AS VOLTAGE REFERENCE & INTEGRATOR-AMP. & MEASURES
FREQUENCY MULTIPLIER USING DIODE FREQUENCY DOUBLER/DUMPER TRANSDUCER PROTECTION CCT (AVER.
PREAMP. FOR NOISE MEASUREMENTS ON JFET.S/CCT TO MEASURE EFFECTIVE VALUE OF Q' OF QUALITY FACTOR
PRECISION LARGE-SIGNAL VOLTAGE BUFFER USING PRECISION MONOLITHIC INDUSTRIES (PMI) HIGH-PERFORM
PRECISION, SELF-CONTAINED 4-TERMINAL AC. RESISTANCE BRIDGE WITH PSD., USING DAC. AS VARIABLE ELEM
INEXPENSIVE POTENTIOSTAT, INCORPORATING CURRENT BOOSTING & FILTERING CCT, INCLUDING CURRENT TO
INEXPENSIVE FIBER-OPTIC RECEIVER CONSISTING OF LOW-COST HIGH-SPEED OPTICAL RECEIVER & SIMPLE MA
FREQUENCY TRIPLER OF ELECTRONICS FOR SINGLE-COIL MEASUREMENT OF CRITICAL CURRENT DENSITY, USI
SPEECH PROCESSOR (SYNTHESIZER), USING MOS. LSI. DEVICE, WITH SET OF 59 ALLOPHONES & 5 PAUSES ON F
ELECTRONIC APPARATUS
PREAMP. USING VERY-LOW-NOISE DEVICE/DAC.-ADC. CARD TO INTERFACE COMPUTER, USING 12-BIT ADC., PRO
SPEECH PERIPHERAL
ELECTRON SPECTROMETER POTENTIALS SUPPLY TO SUPPLY POTENTIALS TO ANALYSER
PREAMP. CCT USED IN ELF (EXTREMELY-LF.) RECEIVER, BASED ON OA. WITH LOW NOISE CURRENT & NOISE VOI
PRECISION IA. USING BURR-BROWN DUAL TWIN-FET. OA. & OUTPUT DIFFERENCE AMP., WITH INPUT COMMON-MO
PRECISION LOW-LEVEL CURRENT REFERENCE
PREAMP. FOR USE IN MEASUREMENTS OF CAPACITANCE AT FREQUENCIES OF 1-2KHZ, USING LOW-NOISE JFET.
STEP VOLTAGE GENERATOR USING ANALOG SWITCHES CONTROLLED BY VOLTAGE COMPARATORS, INCLUDING
ELECTROMETER TO ACCURATELY LOG ATMOSPHERIC POTENTIALS (MONITOR ELECTRIC FIELD) IN RANGE +-350
FREQUENCY-INVERSION CCT TO SCRAMBLE & DESCRAMBLE VOICE SIGNALS, USING 4TH-ORDER BUTTERWORTH
PREAMP. USING LECROY IC, WITH CURRENT GAIN OF A FEW 100MV-UA/1 UNIT OF DISCRIMINATOR WITH 100NS P
SPEED CONTROL FOR FLIGHT SYSTEMS, INCLUDING VOLTAGE CONTROLLED MULTIVIBRATOR & ERROR INTEG.
ELECTRONICS CHAIN CONSISTING OF FAST LOW NOISE PREAMP., 40M TWISTED PAIR LINK, LINE RECEIVER AMP.
PREAMP. OF DETECTIONS SYSTEM FOR GRAPHITE FURNACE LEI, USING LECROY CURRENT PULSE AMP., TO CO
SPEECH RECOGNITION SYSTEM FOR PC.S, USING INTERSTATE ELECTRONICS SPEAKER-INDEPENDENT VOICE R
ELECTRONIC CCT BREAKER THAT TRIPS AT LOAD CURRENTS >0.5A, & RESETS AUTOMATICALLY WHEN OVERLO
PRECISION RIAA EQUALIZER-PREAMP. THAT PINPOINTS CORRECT IMPEDANCE MATCH BETWEEN PHONO CARTR
ELECTRONIC COMBINATION LOCK USING 2 PUSH-BUTTONS, OPERATED BY CORRECT SEQUENCE OF 1'S & ZERO
CHEAP, EASY-TO-BUILD 1-TUBE RECEIVER INCLUDING DETECTOR, AUDIO AMP. & PS./ALTERNATE 1-TUBE RECEIV
ELECTRONICS CHAIN USING ION-IMPLANTED SILICON DIODE DETECTOR, ORTEC 142A CHARGE-SENSITIVE PREA
ELECTRONIC LOCK
YAESU FT-77 COMPACT HF. TRANSCEIVER (BBB)/CCT SHOWING BANDSWITCH SWITCHING PA OUTPUT LPF.S/ANA
OVERTONE CRYSTAL OSCILLATOR CONSISTING OF INVERTING AMP. CONFIGURATION, USING RF. MMIC. AMP. & S
ELECTRONIC BANK THAT KEEPS TRACK OF MONEY (CHANGE) THAT YOU SAVE, USING PROGRAMMABLE-TIMER I
ELECTRONIC SWITCH INTERFACE (DRIVE CCT) FOR PRECISION BRUSHLESS DC. MOTOR, WITH HALL INPUTS & S
STEPPER MOTOR INTERFACE FOR ACORN ATOM COMPUTER, USING OCTAL BUFFER CONNECTED TO USER POR
THERMILINEAR THERMISTOR NETWORK CONSISTING OF RESISTORS & PRECISE THERMISTORS, TO PRODUCE V
TEE SWITCH WITH SINGLE-DEVICE CONTROL, USING PIN DIODES, TO DERIVE CONTROL CURRENT TO OPERATE I
CHEAP & SIMPLE 5W-OUTPUT 15-20M CRYSTAL-CONTROLLED CW. FUN-MITTER (TRANSMITTER)/CHEAP & SIMPLE
SWEEP GENERATOR USING 4-POLE VOLTAGE-CONTROLLED LPF. & OSCILLATOR THAT PROVIDES SAWTOOTH W
PRECISION VOLTAGE REFERENCE CCT USING WORLD'S 1ST COMPLETE MONOLITHIC CMOS. AUTOZEROED (CHC
PREAMP. FOR SILICON PHOTODIODE & SI STRIP DETECTOR, USING LOW NOISE FET./RECEIVER FOR SILICON PHO
CLEO II HYBRID CHARGE SENSITIVE PREAMP. FOR CRYSTAL READOUT, 1 OF WHICH IS USED FOR EACH OF 3200
ELECTROTHERMAL SAMPLE INTRODUCTION SYSTEM-COMPUTER INTERFACE FOR COMPUTER CONTROL, INCLU
INEXPENSIVE V.32 MODEM USING MODEM-ANALOG FRONT-END (MAFE) CONSISTING OF 3-CHIP SET, & DSP. SEC
FREQUENCY COUNTER (2)/BROADBAND PREAMP. TO IMPROVE INPUT-VOLTAGE SENSITIVITY/8-DIGIT VERSION O
PREAMP. USING DOUBLE-GATE GAAS. MESFET.S, CONSISTING OF MULTIPLE CASCODE CCT, CURRENT SOURCE,
STEREO ATTENUATOR USING APHEX SYSTEMS AGC.-VOLTAGE-CONTROLLED ATTENUATOR & OA.S

THERMOMETER CCT USING TRANSISTOR TO ACCURATELY MEASURE TEMPERATURE, PROVIDING 0-TO-10V OUTPUT
ELECTRIC FENCE GENERATOR USING GAS DISCHARGE TUBE, SCR. & IGNITION COIL, INCLUDING RESISTOR TO LIMIT
PREAMP. (PA) FOR CALORIMETER, WHOSE INPUT IMPEDANCE IS 50OHM & MATCHES CABLE, INCLUDING ZERO-POLY
INEXPENSIVE ELECTRONIC THERMOMETER THAT GENERATES 10MV-DEGREE F BY ADDING LINEARIZING VOLTAGE
PREAMP. PS. USING LTC (LINEAR TECHNOLOGY CORP.) 3-TERMINAL VOLTAGE REGULATORS, WITH OUTPUTS OF
FREQUENCY-ACCOMMODATING MANCHESTER DECODER THAT CONVERTS BIPHASE-LEVEL PCM. INPUT TO NRZ.
PRECISION PLATINUM TEMPERATURE SENSOR USING MONOLITHIC BIPOLAR PRECISION OA., WITH TRIMS THAT
PREAMP. CHANNEL (3-TRANSISTOR CURRENT-TO-VOLTAGE AMP.) CONSISTING OF NON-INVERTING AMP., EMITTING
PREAMP. OF SAMPLING GAS IONIZATION EM. CALORIMETER WITH PB ABSORBER & HIGH-PRESSURE GAS READOUT
PRECISE, VOLTAGE-PROGRAMMABLE, GROUND-REFERENCED CURRENT SOURCE WITH WELL CONTROLLED DYNAMIC
ELECTRONICS IN SENSOR HEAD (PREAMP. & LED. BOARD), INCLUDING HIGH-INTENSITY FAR-RED LED., PHOTOCOUPLER
SPECTRUM ANALYZER'S ANALOG SECTION USING TRACK-&-HOLD AMP., VOLTAGE REFERENCE & ADC./ANTI-ALIASING
ELECTRONICS FOR FEEDBACK OPERATION (IN FLL (FLUX-LOCKED LOOP) MODE) & FOR MEASURING SQUID. CHANNEL
ELECTROLUMINESCENT DISPLAY CCT SHOWING DRIVERS FOR MATRIX DISPLAY
THERMIONIC VALVE (DIODE) NOISE GENERATOR/SEMICONDUCTOR (PHOTODIODE) NOISE SOURCE FOR 28MHZ BAND
ELECTRONICS FOR LAYER 2 OF DRIFT CHAMBER, USING PLESSEY WIDE BAND, LNA. FOR PREAMP., & LECROY DIGITAL
USER-PROGRAMMABLE 5-TO-24V DC. REGULATED PS. RATED AT 50MA WITH GOOD LINE & LOAD REGULATION, UNDER
OVERLOAD-PROOF CURRENT INDICATOR
FREQUENCY-EVENTS COUNTER USING 1MHZ PRECISION OSCILLATOR PROGRAMMABLE TO PRODUCE >50 FREQUENCIES
PREAMP./SHAPER-ADC. FOR 1 CHANNEL, INCLUDING DIFFERENTIAL RECEIVER, BASELINE RESTORERS, SH. CCT
STEPPING MOTOR CONTROLLER (STEPPER MOTOR CONTROLLER)
ELECTRONICALLY CONTROLLED, ADJUSTABLE-WAVEFORM SPARK SOURCE DESIGNED FOR LOW PEAK CURRENT
STEPPER MOTOR CONTROLLER TO UPDATE MECHANICAL OPERATIONS INCLUDING POSITIONING & HOMING, OF
THEREMIN (1ST MUSICAL INSTRUMENT TO PRODUCE SOUND BY ELECTRONIC MEANS) USING PRINCIPLE OF BEAT
FREQUENCY-FOLLOWING OSCILLATOR USING VCO., TO OBTAIN COMMENSURATE REFERENCE FOR 2-PHASE LOCKED
INFINITE IMPROBABILITY DETECTOR
FIFO. CONTROLLER THAT WORKS WITH 3NS 256X4-BIT GAAS. SRAM., USING 4 CARRY LOOK-AHEAD GENERATOR
3-FUNCTION WAVEFORM GENERATOR CONTROLLED BY UP., WITH DIRECT INDICATION OF FREQUENCY VIA PPI. &
PUFF-SIP SINGLE-SWITCH MULTI-CHANNEL CONTROLLER CCT/RESPIRATION INDICATOR/RESPIRATION MONITOR
DIFFERENTIAL AMP. OF A-M MEASURING APPARATUS, INCLUDING ELECTROMETER STAGES, USING ANALOG DEVELOPMENT
VLF. STORAGE ADD-ON UNIT FOR OSCILLOSCOPE USERS TO VIEW SIGNALS WITH VERY LONG PERIODS DISPLAY
BUFFER CCT FOR CALIBRATION PULSES, INCLUDING JFET. THAT SUPPRESSES NOISE ON OUTPUT IN OPERATING
SAFETY SYSTEM (CHAMBER PROTECTION FAST SWITCH) INCLUDING CURRENT MONITOR TO ACT UPON CRYTRON
BUFFER FOR CODE SWITCHES/CCT FOR STORING OUTPUT FROM HEX SWITCH
UHF. TV. TUNER PS. USING VOLTAGE REGULATOR IC/VOLTAGE TRIPLER, USING 6.3V TRANSFORMER, TO PROVIDE
BUFFER & DIFFERENTIAL AMP. STAGES, TO BUFFER SIGNAL FROM IO-SELECTIVE ELECTRODE, USING FET.-INPUT
REFERENCE VOLTAGE SOURCE FOR IMPEDANCE MEASURING CCT FOR MEASUREMENT OF VERY SMALL CONDUCTANCE
VLF. ACTIVE RECEIVING ANTENNAS/LPF./WIDEBAND AMP.
DIFFERENTIAL AMP. DEMONSTRATION CCT/SOUND OPERATED SWITCH/CCT FOR MEASURING PHOTODIODE VOLTAGE
REFLEX TIMER CONSISTING OF TIMER & 3 4-BIT UP-DOWN BINARY COUNTERS/2 LATCHES USING NAND GATES, TRIGGER
DIFFERENTIAL KEYING CCT FOR UNIVERSAL QRP TRANSMITTER FEATURED IN ARRL'S "SOLID STATE DESIGN FOR
DIFFERENTIATING AMP., GATE, & TIMING PULSE CCT, USING OA., COMPARATORS & TTL. NAND GATE, THAT CONVERTS
DIFFERENTIATING & AMPLIFYING CCTS (AMP.) & MONOSTABLE OSCILLATOR (NON-RETRIGGERABLE IC) OF PULSE
BUFFER PORTION OF INTERFACE CCT & SENSOR UNIT, BY WAY OF WHICH SIGNAL FROM OPTICAL SWITCHES IS
SOFTWARE PROGRAMMABLE DIGITAL MOTOR CONTROLLER
FIFO. STORAGE CCT
DIFFERENCE AMP./DIFFERENTIAL AMP./AUDIO PREAMP./PEAK VOLTAGE DETECTOR/GAS-SMOKE DETECTOR/20W
BUFFER FOR LOW IMPEDANCE TRANSMISSION LINES/TRI-STATE LINE DRIVER/FULL DUPLEX COMMUNICATION SYSTEM
WDF (WAVE DIGITAL FILTER) INTERFACE BOARD FOR MICROCOMPUTER TO CONTROL 4-BIT MULTIPLIER COEFFICIENT

DIFFERENCE AMP. FOR HALL EFFECT PROBE THAT CONTAINS SENSOR & AMP., WHOSE OUTPUT IS DIGITIZED BY DIFFERENTIAL AMP. OF SYSTEM TO DETECT DIFFERENTIAL AC. SUSCEPTIBILITY AS FUNCTION OF TEMPERATURE DIFFERENTIAL OA. (SIGNAL CONDITIONING) CCT THAT HAS PROBLEM OF POOR CMR. IF 2 SETS OF INPUT & FEED REFERENCE STRIP OF LED.S, INCLUDING RED, ORANGE, YELLOW & GREEN LED.S, WITH EACH LED. CONNECTED SOFTWARE-SELECTABLE OSCILLATOR FOR CMOS. UP. SYSTEM, TO SWITCH SYSTEM'S CLOCK FREQUENCY FOR DIFFERENTIAL AMP. USING MONOLITHIC DUAL MATCHED JFET. & CURRENT-LIMITING DIODE, WITH GOOD GAIN & EFFECTS UNIT FOR GUITARISTS & OTHER MUSICIANS
REFERENCE PRESSURE CORRECTOR DEVICE BY MEANS OF WHICH VISUAL FREQUENCY-AMPLITUDE RESPONSE LPF. WITH PARALLEL PORT FOR CONTROLLING CUTOFF FREQUENCY, FOR DATA ACQUISITION (BBB)
BUFFER AMP.
VHF. DIVIDE-BY-10 PRESCALER CCT
VHF. RF. BROAD-BAND AMP./CCT THAT PREVENTS "REAR-END BLOWOUT"/CCT USING 1296MHZ 20W AMP. MODULE LIFE-TEST CYCLING CONTROL FOR ELECTROMECHANICAL DEVICES LIKE SOLENOIDS & RELAYS, USING 2 TIMER LPF., MIXER & VCO., USING DBM./PREAMP. & LOG AMP., INCLUDING BUFFER & 5 LOG AMP. STAGES (2)/SWEEP GENERATOR NIFTY AUDIBLE CLOCK CCT (ADD-ON BEEPER) FOR USE IN PHOTOGRAPHY DARKROOM
3 FILTERS/OUTPUT POWER LIMITER
VHF. SUPER-REGENERATIVE RECEIVER THAT TUNES FROM ~130-190MHZ, COVERING AIRCRAFT FREQUENCIES TO BUFFER AMP. USING BIFET. OA., WITH UNITY GAIN TO 4MHZ & LOW NOISE & DISTORTION/TILT ALARM CCT/POWER DIFFERENTIAL THERMOMETER USING MATCHED THERMISTORS IN BLUMLEIN BRIDGE CCT, INCLUDING PSD., 'T' METER SAFE EASILY MADE ELECTRONIC DEVICE FOR CONDUCTIVITY EXPERIMENTS, USING LED., 9V BATTERY, 35MM FILM UHF. WATTMETER
LPF. (5-POLE SWITCHED CAPACITOR FILTER) WITH ZERO DC. OFFSET/SINE-WAVE OSCILLATOR USING INVERTING UHF. TUNER PRESCALER/SPECTRUM ANALYZER 10.7MHZ IF. ASSEMBLY INCLUDING ALTERNATE DETECTOR (3)/SIGNAL OFFSET CANCELLING CCT CONNECTED TO OA.-BASED AUDIO AMP., IN WHICH OFFSET CANCELLING CCT KEEPS DIFFERENTIAL LIGHT DETECTOR USING DUAL BIMOS. OA. TO CONVERT CURRENT FROM 2 PHOTODIODES TO VOLTAGE BUFFER USING BOOTSTRAPPING/HIGH-SPEED SH. CCT/CCTS TO RESTORE BASEBAND VIDEO SIGNALS (3)/CCT USING DIFFERENTIAL AMP. (DA) OF CLAMP HEADSTAGE/CURRENT-TO-VOLTAGE CONVERTER (IVC)/SUMMING AMP., COMPARISON VHF. RECEIVER WITH 10.7MHZ IF., USING SIGNETICS MIXER-OSCILLATOR/OUTPUT BUFFERS (3)/CELLULAR RADIO EFFICIENT SWITCHING REGULATOR TO INCREASE USEFUL BATTERY LIFE
Z-FEEDBACK ELECTRONICS OF MAGNETOMETER, INCLUDING ACTIVE RECTIFIER, LOG AMP., INTEGRATOR, INVERTING DIFFERENTIAL AMP. & REFERENCE STABILISATION CCTS, INCLUDING FET.-INPUT VOLTAGE FOLLOWER USED AS DIFFERENTIAL AMP. TO MEASURE IMPEDANCE & PHASE ANGLE, WITH CMRR. >200:1, USING WIDE-BAND OA.S WITH DIFFERENTIAL AMP./INVERTING AMP.S (2)/AC. AMP./AM. (2-QUADRANT MULTIPLIER)/RING MODULATOR/VOLTAGE DIFFERENTIAL REFERENCE CCTS (2)/LOW-DROPOUT REGULATOR/4-20MA LOOP CCT USING SINGLE-SUPPLY AMP.S/SUPPLY-CURRENT UHF. APPLICATION CCT/VHF. APPLICATION CCT WITH SYMMETRICAL OUTPUT & OSCILLATOR
UHF. GAASFET. DOUBLER USING AVANTEK GAASFET., WITH OUTPUT OF 2160MHZ FOR 1080MHZ INPUT, FOR USE IN INFINITE RESOLUTION, SINGLE-LOOP FREQUENCY SYNTHESIZER INCLUDING DUAL MODULUS PLL. CONTROLLER UHF. ELF (EXTREMELY-LF.) GAUSSMETER THAT PICKS UP LINE-FREQUENCY MAGNETIC-FIELDS BY REMOTE-SENSING AFFORDABLE SPEECH BOARD FOR MODEL I OR III COMPUTER/PORT DECODER/SOUND PRE-AMP. & MAIN AMP.
OFF-LINE FLYBACK POWER CONVERTER WITH 2 30W OUTPUTS, USING ISOLATED-FEEDBACK-GENERATOR (IFG) DIFFERENTIATOR/MULTIVIBRATOR/OSCILLATOR WITH FET. AMPLITUDE STABILIZATION/STEREO TV. DECODER/TELEVISION OFF-LINE 0.5HP DC. MOTOR-CONTROL CCT USING "MIRROR" TERMINAL OF MOSFET. FOR LOSSLESS CURRENT SOURCE TOF. CCT USING SILICON CHARGED-PARTICLE DETECTOR, 1GHZ MMIC. AMP.S & ECL. COMPATIBLE CFD.
BUFFER MODULE USING BUS DRIVER CHIPS/ADC. MODULE USING 12-BIT SUCCESSIVE-APPROXIMATION ADC./DAC. BUFFERING CCTS FROM WD1010 WINCHESTER CONTROLLER-FORMATTER TO CONTROL CABLE & DATA CABLE (3) DIFFERENTIAL TEMPERATURE CONTROLLER USING IR. RADIATOR, THERMOCOUPLE, & IA. & COLD JUNCTION COEFFICIENT INFLEXIBLE REPEATER CONTROLLER INCLUDING SQUELCH-TAIL CCT, DELAYED KEY-UP, ON-BOARD CLOCK DEFLECTION AMP. (SWEEP DRIVER) (CURRENT SOURCE) WITH LARGE SIGNAL BW. OF 40KHZ, FOR SCANNING TRACKING DIFFERENTIATION STAGE USING COMPENSATED WIDEBAND LOW-NOISE OA., WITH 6DB-OCTAVE GAIN INCREASE

DIFFERENTIAL AMP. WITH BIPOLAR TRANSISTOR INPUT STAGE, USING MATCHED LOW-NOISE TRANSISTORS/AMP
INFRASONIC ACTIVE FILTER (ADAPTATION OF 2ND-ORDER HIGH-PASS FILTER) WITH -3DB POINT AT 25HZ/DAVID H
LEFT CHANNEL OF P-100-MM MOVING-MAGNET PHONO PREAMP., USING LOW-NOISE JFET./OA.-TRANSISTOR REC
DIFFERENTIAL AUDIO OUTPUT STAGE THAT IS ELECTRONICALLY BALANCED IN OUTPUT LEVEL & HAS PRECISE 1
DIFFERENTIAL (BALANCED) LINE DRIVER USING LOW-NOISE OA.S TO DRIVE 600OHM, WITH 22DB OVERLOAD MA
EFFECTIVE SPEECH PROCESSING SYSTEM
REFERENCE VOLTAGE FILTER THAT REDUCES NOISE FROM REFERENCE & OA. BUFFER, WITH LOW OUTPUT IMP
VLF. CW.-SSB.-AM. RECEIVER USING DBM./SIMPLE METAL DETECTOR USING DBM. & COLPITTS OSCILLATOR/ULTR
LPF.S USED AFTER SAMPLING PHASE DETECTORS & MIXER USED TO DRIVE VCO.
DIFFERENTIAL AMP. OF GAIN 10 WITH BW. OF ~500KHZ FOR WHEATSTONE BRIDGE CONSISTING OF 4 PIEZORESIS
UHF. VCO. WITH WIDE (310-680MHZ) TUNING BW. & LOW PHASE NOISE, INCLUDING ACTIVE BIAS CCT FOR GOOD
BUFFER THAT PROVIDES WIDEBAND HIGH-Z INPUT & LOW-Z OUTPUT, TO DRIVE CABLE LENGTHS WITH HIGH CAP
UHF. VCO. FOR SATELLITE RECEIVERS, USING TRANSISTOR & VARICAPS, WITH FREQUENCY RANGE OF 1200-210
OFFSET-FREE SPIKE-FREE SWITCHED CAPACITOR AMP. WITH NONOVERLAPPING 2 PHASE CLOCKS WITH CAPAC
VHF. OCTAVE-RANGE VCO. USING DUAL-GATE MOSFET., WITH NEGATIVE DYNAMIC FEEDBACK, THAT CAN BE DY
DIFFERENTIAL AMP. OF PARTICLE CALORIMETER, INCLUDING EMITTER FOLLOWER STAGE, TO DRIVE 50OHM CAB
DIFFERENTIAL SH. SIGNAL PROCESSOR INCLUDING 2 SH. CCTS TO WHICH OUTPUT OF PHOTODIODE IS DIRECTE
BUFFER-LINEAR SUM MODULE TO DIRECT ANODE SIGNALS FROM PMT.S TO ADC. MODULES THROUGH BUFFER A
DIFFERENTIALLY CONFIGURED SERIES-SHUNT SWITCH USING FET.S/CCT TO GENERATE RAMP-A & RAMP-B (SWI
4-FUNCTION AUDIO CCT USING PROGRAMMED SINGLE-CHIP MICROCONTROLLER (PIC)/SIMPLE REGULATOR TO F
INFINITY TRANSMITTER (BUG) THAT USES TELEPHONE MICROPHONE TO LISTEN IN TO ROOM AUDIO/RF. SWAMP
DIFFERENTIAL AC. BRIDGE DRIVEN FROM OSCILLATOR, USING OA.S & MATCHED THERMISTORS, INCLUDING DIFF
BUFFERED VOLTAGE DIVIDER NETWORKS WITH +-3.34, +-6.67V & +-0.5V OUTPUTS OUTPUTS (2)/MIXER DRIVER IN
VHF.-ONLY RECEIVER USING CMOS. CHIP CONTAINING REFERENCE OSCILLATOR, DIVIDER, PRESCALER, CONTR
EMF. COMPENSATOR FOR INDIRECT FIELD-ORIENTED CSIM (CURRENT SOURCE INVERTER INDUCTION MOTOR) D
DIFFERENT SCREEN CCT FOR USE WITH 6L6 SPECIAL/CCT TO INTERFACE ELECTRONIC KEYS TO KEY JACK OF
DIFFERENTIAL IA. WITH JFET. INPUTS PROVIDING HIGH IMPEDANCE/HALF WAVE RECTIFIERS & SUMMER, USING J
DIFFERENTIAL REFLECTION HIGH ENERGY ELECTRON DIFFRACTION (RHEED) AMP. USING JFET. OA.S/FIBER OPT
REFLECTOMETER TO MEASURE NIR. REFLECTANCE, USING IRED. & SOLAR CELLS/PHOTODIODE AMP. THAT ALLO
BUFFER AMP./MOD. TO LAST MULTIPLIER STAGE SO EMITTER IS KEYED BY SMALL KEYING TRANSISTOR TURNED
EFFICIENT SWITCHING REGULATOR USING RC. PULSE STRETCHER TO GIVE 100% DUTY CYCLE, INCLUDING CON
DIFFERENTIAL AMP. WITH INPUT IMPEDANCE OF 300OHM, GAIN OF 82, RISE TIME OF 4.7NS, & NOISE OF 16UV
BUFFER-MEMORY INTERFACE IN RAINBOW II BOARD (BBB)
DIFFERENTIAL INPUT STAGE/DIRECT INJECTION BOX (HIGH & LOW IMPEDANCE SPLITTER) USING LOW NOISE OA
DIFFERENTIAL TO SINGLE-ENDED CONVERTER BUILT AROUND WILSON CURRENT MIRROR/ECL.-TO-TTL. CONVER
C-F (CAPACITANCE TO FREQUENCY) CONVERTER
LPF. WITH ATTENUATION OF BETTER THAN 50DB AT 20KHZ, TO ALLOW SAMPLE RATE OF 40KHZ, USING LC. ELEM
REFERENCE VOLTAGE CCT USING TEMPERATURE-COMPENSATED IC THAT ACTS LIKE ACCURATE 1.2V ZENER DI
EFFICIENT SUPPLY TO POWER CAR AUDIO EQUIPMENT FROM POOR 240V AC. SUPPLY IN YACHT, USING N-CHAN
TOF. PET (POSITRON EMISSION TOMOGRAPHIC) SLIDE-BACKPROJECT ENGINE INCLUDING INTERSLICE BUS FIFO
REFERENCE SIGNAL DETECTION CCT WITH PHOTOMULTIPLIER/COMPUTER INTERFACE TO APPLE II MICROCOMP
LEFT CHANNEL OF CROWN IC-150 PREAMP./IMPROVED REGULATED PS./NEW BRIDGE RECTIFIER, PREREGULATO
DIFFERENTIAL TEMPERATURE DETECTOR, LOW-COST (ENERGY LEAK DETECTOR)
UHF. MOVEMENT DETECTOR (CCT TO DETECT MOTION), USING DOPPLER SHIFT PRINCIPLE, CONTAINING 10MW
SAFETY DEVICE USING LIQUID FLOW SENSOR TO MONITOR FLOW RATE OF COOLING WATER, USING FREQUENC
EFFICIENT & INEXPENSIVE SWITCHING REGULATOR TO EXTEND LIFE OF 12.6V BATTERY THAT IS REGULATED TO
VLF. TRANSMITTER USING OSCILLATOR-TIMER & 3 TRANSISTORS, INCLUDING COLPITTS OSCILLATOR/VLF. RECE
EFFICIENT SWITCHMODE REGULATOR THAT PROVIDES +5V OUTPUT FROM RAW 7-60V OF INPUT, USING 5 PARTS
REFLECTOMETER CONSISTING OF REMOTE UNIT, DISPLAY & ALARM SECTIONS, TO PROVIDE READOUT OF TRAN

TRF. VLF. RADIO RECEIVER INCLUDING AERIAL, PREAMP. & AERIAL TUNING SECTIONS/MSF HOUR-PULSE DETECTOR LEFT- & RIGHT-CHANNEL AMP.S FOR DEVICE TO ENHANCE HEARING TO BE ABLE TO LISTEN TO WEAK & DISTANT DIFFERENTIAL-INPUT STABILIZING AMP. TO IMPROVE VOLTAGE OFFSET & DRIFT FOR 3-AMP. SYSTEM USING OA. DIFFERENTIAL AMP. CCT FOR AMPLIFYING PROBE SIGNAL BY 1000X/DETECTOR & AUTOMATIC BALANCING CCT 7-FET. CHARGE PREAMP. FOR SSG (SUPERHEATED SUPERCONDUCTING GRANULE) REAL TIME READOUT DIFFERENTIAL DC. AMP. (PREAMP.) TO AMPLIFY LV. OUTPUT OF THERMOCOUPLE (VOLTAGE DIFFERENTIAL BETWEEN DIFFERENTIAL AMP. USING WHEATSTONE-BRIDGE TRANSDUCER/IA.S (3) DIFFERENCE & INVERTING AMP.S, TO CONVERT +2 TO -2V VOLTAGE (SIGNAL) OF DAC. TO -3V TO 0V RAMP DIFFERENTIAL CCTS FED FROM TYPICAL AMP. OUTPUT ARRANGEMENT/LEVEL SHIFTING PEAK DETECTOR USING DIFFERENTIATOR WITH DIFFERENTIAL INPUTS, RESISTIVE INPUT IMPEDANCE & SINGLE RC. NETWORK, CONSISTING OF UHF. AM. RECEIVER INCLUDING ANTENNA, DETECTOR & AUDIO AMP./PLATE DETECTORS BASED ON JFET.S (2)/DIFFERENTIAL (RADIO DIRECTION FINDING) CCT THAT CREATES PULSES BASED ON PHASE DIFFERENCE BETWEEN 2 ANTENNAS UHF. VCO. WITH OPERATING RANGE OF 400 TO 500MHZ, USING TRANSISTOR WITH HIGH OPERATING FREQUENCY VLF. CONVERTER TO CONVERT FREQUENCIES BETWEEN 0 & 700KHZ TO SPECTRUM ACCESSIBLE TO RECEIVER OFF-AIR KEYING MONITOR TO TELL WHAT MORSE (CW.) SIGNALS REALLY SOUND LIKE, USING PHASE-SHIFT OSCILLATOR VHF. TONE TRANSMITTER (SIGNAL GENERATOR) USING RF. OSCILLATOR & MODULATOR, FOR USE IN CHECKING UHF. SOURCE DIPPER (DIP METER) TO TUNE CCTS FROM 400-500MHZ, INCLUDING OSCILLATOR CCT & REMOTE (TUNING) UHF. FIELD STRENGTH METER (FSM) THAT COVERS 400 TO 500MHZ, INCLUDING TANK CCT & SIMPLE DC. AMP. USING REFLECTED-POWER-ONLY METER/FULL-SWR. METER DIFFERENTIAL IA. WITH GAIN OF 1000, USING BURR-BROWN HIGH-SPEED, LOW-NOISE OA. WITH GAIN-BW. PRODUCT BUFFER AMP. ELF MONITOR (MILLIGAUSS METER) TO CHECK EXTREMELY-LF. (ELF) EM. EMISSIONS FROM ELECTRICAL EQUIPMENT DIFFERENTIAL DERIVATIVE CCT/LOGIC CCT THAT GENERATES SWITCHING SIGNALS THAT DRIVE FEEDBACK NETWORK BUFFER TO ALLOW SINCLAIR ZX81 TO BE USED WITH SANYO VIDEO MONITOR WITH 75OHM INPUT IMPEDANCE VHF.-UHF. HEADSET TO HF. INTERFACE UNIT INCLUDING PASSIVE AUDIO NETWORK & AMP.-BUFFER/CCT TO USE WITH TRF (TUNED RF.) (SW.) RECEIVER (RADIO) INCLUDING INPUT TUNED CCT, FET. THAT ACTS AS DETECTOR, & HIGH-IMPEDANCE REFLECTED POWER INDICATOR OF STANDARD VSWR. METER, OF GOLD LINE ANTENNA (HALF-WAVE LOADED DIP ANTENNA) DIFFERENTIAL AMP. (GAIN BLOCK)/MONOLITHIC UNITY-GAIN DIFFERENCE AMP. CONFIGURED WITH GENERAL PURPOSE UHF.-UHF. CALIBRATED DIRECTIONAL WATTMETER UHF. PLL. SYNTHESIZER USING PHASE DETECTOR, OA.S, & 2 ECL. DIVIDERS TO PROVIDE DIVIDE-BY-20 FUNCTION TOF. PHOTOMULTIPLIER (PHOTOTUBE) HV. DIVIDER & SIGNAL NETWORK/CHERENKOV PMT. HV. DIVIDER & SIGNAL NETWORK DIFFERENTIAL, COMPLEMENTARY LINEAMP. (SERVO CCT) WITH LOW DISTORTION, USING QUAD TRANSISTOR ARRAY AS REFERENCE FUNCTION GENERATOR INCLUDING CONTROL LOGIC, BIDIRECTIONAL COUNTER, CONTROL ROM.S & LOGIC UHF. PRESCALER TO EXTEND FREQUENCY COUNTER'S RANGE TO 650MHZ, USING HIGH-SPEED ECL. PRESCALER UHF. SIGNAL SOURCE/NETWORK FOR FM.-FSK. MODULATION/SIMPLE POWER METER/LOW VOLTAGE (LV.)-DROP DIFFERENTIAL VOLTAGE-TO-CURRENT CONVERTER INCLUDING CURRENT SOURCE & 2 OA.S CONNECTED AS UNIDIRECTIONAL DIFFERENTIAL AMP. (DA) USING SINGLE OA./3-OA. IA. WITH 2 COUPLED INPUT BUFFERS/3-OA. IA. WITH 2 INDEPENDENT DIFFERENTIAL AMP. CONSISTING OF 5 STAGES INCLUDING 2 UNITY-GAIN NONCOUPLED BUFFERS, DIFFERENTIAL AMPLIFIER, DIFFERENCE AMP. USING OA. IN FEEDBACK/COMPOSITE AMP./ANALOG DIVIDER USING MULTIPLIER IN FEEDBACK/COMPOSITE REFERENCE MODULE INCLUDING PRE-REGULATOR, FINAL REGULATOR STAGE USING ZENER DIODES, & RELAY CONTROLLED SOFT-START CCT USING ANY -48V TO +5V SWITCHING PS. (SWITCHER) & FET.S, TO PREVENT CURRENT-SPIKE ON POWER SUPPLY UHF. VCO./470-890MHZ AMP. WITH WORST-CASE RETURN LOSS OF 18.5DB WITHOUT RESISTIVE FEEDBACK, SHOWING 3 FUNCTION SIGNAL GENERATOR/SIMPLE BUFFER FOR CONNECTING 12V SIGNAL TO LOGIC EFFICIENT, COMPACT SWITCHING REGULATOR 20A 5V PS. THAT OPERATES DIRECTLY OFF AC. POWER LINE DEFLECTION SYSTEM FOR X OR Y DEFLECTION VOLTAGE PRODUCTION, PRODUCING TRIANGULAR WAVEFORMS DIFFERENTIAL NOTCH & 1 POLE FILTER, USING ULTRA-LOW NOISE DIFFERENTIAL MICROPHONE AMP. IC/CCT USING VHF. CONVERTER FOR 144-146MHZ, WITH IF. OUTPUT TUNED ON 28-30MHZ SECTION OF HF. RECEIVER, INCLUDING REFERENCE-SIGNAL UHF. RF. GENERATOR FOR 903MHZ BAND, USING 18.432MHZ TTL. CRYSTAL OSCILLATOR, MICROPROCESSOR SOFTWARE-PROGRAMMABLE PULSE GENERATOR FOR APPLE IIE COMPUTERS, USING TTL., WITH PULSE'S MARK

5 FUNCTION, 22 MEASUREMENT-RANGE DMM. WITH AUTORANGING OPERATION FOR RESISTANCE & VOLTAGE M
UHF. CRYOGENIC PREAMP. USING MICROWAVE HEMT (HIGH-ELECTRON-MOBILITY TRANSISTOR) & DUAL-GATE M
REFRIGERATOR-ALARM CCT THAT TRIPS WHEN TEMPERATURE GOES TO <0DEG C OR >5DEG C, USING DUALSECT
REFRIGERATION MONITOR THAT SOUNDS ITS ALARM WHEN POWER IS LOST FOR >5MIN OR WHEN TEMPERATUR
LPF./HIGH-PERFORMANCE INTEGRATOR TO EXTEND RANGE OF VFC./LOGARITHMIC AMP.
DIFFERENTIAL-INPUT THERMOCOUPLE AMP./THERMOCOUPLE-SIGNAL CONDITIONER/ISOLATION CCT/THERMOCO
DIFFERENTIAL AMP. USING ONLY 4 (COMPARED TO THE USUAL 6) RESISTORS, FOR DESIGNS REQUIRING ABSOL
EFFICIENT PWM. DC. MOTOR SPEED CONTROL CCT, USING 200A, 60V FET. & CMOS. LOGIC
DIFFERENTIAL IA. USING 1 OA./CHOPPER-STABILIZED IA./LOCK-IN AMP./POSITION-SENSING CCT/12-BIT ADC.
REFERENCE SOURCE/IA./ISOLATION AMP./FET.-PROBE BUFFER/STABILIZATION CCT/VFC.S (2)/16-BIT ADC.
4-FILTER UV. RADIOMETER INCLUDING PHOTODETECTORS (PHOTODIODES), FET.-INPUT OA., & DIVIDING & SH. C
DIGITAL PSEUDORANDOM NOISE GENERATOR
LOGIC CCT FOR GRAY CODE GENERATION, USING ECL. 100K IC'S INCLUDING FF.S, & GATE USED AS RECEIVER F
SIGNAL-CONDITIONING CCT
SIGNAL CONDITIONING CCTS INCLUDING SYNCHRONOUS DETECTOR TO RECOVER PHOTOMETRIC SIGNAL, & BU
LIGHT-CONTROL SWITCH THAT AUTOMATICALLY TURNS LIGHT ON AS YOU ENTER ROOM & TURN IT OFF AS YOU
DIGITAL PORTION OF PULLER USING UP. (BBB)/ANALOGUE PORTION USING DAC.S & MOTOR DRIVER
DIGITAL SIGNAL GENERATOR ADD-ON TO DUAL-CHANNEL FUNCTION GENERATOR, INCLUDING 8088-UP. (CPU.) C
DIGITAL PWM. WHOSE AMPLITUDE & PULSE DUTY CYCLE CAN BE ADJUSTED INDEPENDENTLY
DIGITAL WHITE-NOISE GENERATOR/SINE-SQUARE CONVERTER
DIGITAL-TO-DIGITAL INTERFACE FOR LABORATORY MICROCOMPUTER, INCLUDING DPM. DISPLAY (BBB)
DIGITALLY PROGRAMMABLE DISTRIBUTION NOISE GENERATOR USING EPROM./CCT TO TEST CDF (CUMULATIVE
DIGITAL SWITCH MULTIPLIER TO MULTIPLY NUMBER OF AC.-OPERATED DEVICES THAT CAN BE CONTROLLED BY
SIGNAL CONDITIONING CCT (RECTIFIER-INTEGRATOR) OF MULTICHANNEL AUDIO MONITOR (MUCAM)/SINE WAVE
DIGITAL LOGIC STATE CHECKER FOR CMOS. LOGIC/UNIVERSAL LOGIC STATE CHECKER FOR POSITIVE LOGIC
SIGNAL PROCESSING UNIT INCLUDING TIMING & SAMPLING PULSE GENERATORS, & SH. CCTS/165MS SAMPLING
DIGITAL PROGRAMMABLE-GAIN NONINVERTING AMP.
DIGITAL FILTER OF CCT USING MOTOR-CONTROL ORIENTED CPU., TO PROVIDE DIRECTION & COUNT SIGNAL (BB
2-GATE NAND MONOSTABLE/2-GATE RESETTABLE NOR MONOSTABLE/RETRIGGERABLE JK-TYPE MONOSTABLE/F
HIGH-IMPEDANCE CMOS. RC. OSCILLATOR THAT MIMIMIZES THERMISTOR-RELATED SELF-HEATING ERRORS/SAM
DIGITAL CONTROLLER USING INTEL SBC. INCLUDING 5MHZ CPU., 8KBIT EPROM., 8KBIT RAM., SERIAL PORT, INTE
HIGHLY INTEGRATED CACHE SUBSYSTEM SHOWING CHIPS AND TECHNOLOGIES' CACHE-DRAM. CONTROLLER U
EOG SIGNAL AMP. WHOSE FINAL GAIN IS DETERMINED BY BINARY CODE FROM 8080 UP., INCLUDING NOTCH FILT
LOGARITHMIC AMP. USING ELECTROMETER OA., FET. INPUT OA. & LOGARITHMIC MODULE/CCT FOR WAVELENGT
HIGH-PRECISION CURRENT SOURCE/4-QUADRANT MULTIPLIER/TRIANGLEWAVE-TO-SINEWAVE CONVERTER/AMP
HIGH Q HIGH GAIN STATE-VARIABLE FILTER
HIGH PRECISION DIGITAL MILLIVOLTMETER BASED ON SINGLE DPM. IC/VOLTAGE REFERENCE
DIGITAL FREQUENCY DOUBLER
LIGHT OPERATED OSCILLATOR
LOGIC SECTION OF EPROM. EMULATOR DUAL-PORT MEMORY CCT
LIGHT DIMMER WITH RFI. (EMI.) SUPPRESSION CCT, & SNUBBER NETWORK TO REDUCE COUNTER-EMF. (BACK-EM
LIGHT EMITTER-DETECTOR CCT (CURRENT TO VOLTAGE CONVERTER), IN WHICH LIGHT TRANSMITTED THROUGH
HIGH-SPEED PULSE GENERATOR USING FAST ECL. RIPPLE COUNTER & CLOCK TO CREATE PROGRAMMABLE PU
SIGNAL AMP. WITH 3 RANGES, OF MOD. JARRELL ASH MODEL 2600 FLUOROMETER, INCLUDING DVM. & INTECH O
SIGNAL INPUT INTERFACE OF SIGNAL CONTROL INTERFACE OF AUTOMATED TITATOR/DEVICE CONTROL INTERF
DIGITAL PHASE METER USING OA. AS INTEGRATOR, COMPARATORS, 10-BIT DAC., SWITCHES & BINARY COUNTER
HIGH-PERFORMANCE INTERCOM SYSTEM DESIGNED FOR USE IN MICROLIGHT AIRCRAFT
DIGITAL LOGIC ANALYZER INTERFACE CCT THAT CONNECTS TO COCO ROM. PORT, USING PPI./8-BIT LOGIC INDIC
DIGITAL FREQUENCY READOUT FOR COMMUNICATIONS RECEIVER, THAT ADDS OR SUBTRACTS IF. TO OR FROM

HIGH-SPEED (400 CHARACTER PER SECOND) OPTICAL PAPER-TAPE READER THAT CAN INTERFACE TO 8-BIT INPUT
HIGH RESOLUTION VOLTAGE TO FREQUENCY TYPE DIGITISER, FOR RECORDING SECONDARY ELECTRON SPECTRA
LIGHT-SENSITIVE CCT COMBINED WITH TIMER FOR AUTOMATICALLY CONTROLLING LIGHTS AROUND HOUSE
LOGIC CCT FOR SAM (JAMP-10S) SYSTEM
RIGHT CHANNEL OF CONRAD-JOHNSON PV-3 SIMPLE TUBE PREAMP. WITH TAPE, TUNER & PHONO INPUTS, & REVERSE
LOGIC TO CONVERT 6800 UP. OUTPUTS FOR USE WITH PPI. (BBB)/CCT TO SELECT MOST SIGNIFICANT DIGIT OF P
SIGNAL INTERFACE HAVING 4 SWITCHES FOR AC. CURRENT SWITCHING/ANALOG MUX. USING ELECTROMETER A
REGULATED CONSTANT VOLTAGE TYPE CHARGER TO CHARGE RECHARGEABLE DRYFIT TYPE BATTERIES, USING
HIGH-SPEED RAM. WRITE-READ SYSTEM CCT INCLUDING 30MHZ ADC. & INTERFACE
SIGNAL HANDLING CCT (SIGNAL SPLITTER) TO SEPARATE AC. (CD SIGNAL) FROM DC. COMPONENT (CORRESPONDING)
DIGITAL COMBINATION LOCK
HIGH-END GRAPHICS PROCESSOR USING FLOATING-POINT MULTIPLIER & ALU. WITH FAST COMPUTING SPEEDS
LOGARITHMIC 12-BIT ADC. & DIGITAL ENCODER IN 1
HIGH-SPEED (FAST) WIDEBAND TUNNEL DIODE (TD)-TTL. QUARTZ CRYSTAL OSCILLATOR WITH SINE & PULSE WAVE
LOGARITHMIC AMP./ANTILOGARITHMIC AMP./ANALOG LOGARITHMIC MULTIPLIER/OFFSET ADJUSTMENT CCT
DIGITAL MODULATOR TO OVERCOME PROBLEMS WITH ANALOG MODULATION/MULTIPLE PURPOSE BOOST REGULATED
LOGIC CCT USING 4 GATES
NEGATIVE FIDUCIAL GENERATOR/MASTER-TRIGGER CCT FOR USE WITH CRYSTAL PIN DETECTORS/CCT TO CLAMP
LOGIC CCT TO PROVIDE SOOTHING TICK-TOCK OF GRANDFATHER'S CLOCK FROM 1HZ TIMING SIGNAL OF DIGITAL
LIGHT TRANSMITTER INCLUDING HAMMER PULSE GENERATOR, SYNCHRONISING CCT/REFLECTED LIGHT RECEIVER
LOGIC CCT FOR WHICH WIRE LIST HAS BEEN GENERATED WITH WIREMASTER COMPUTER PROGRAM FROM AFT
DIGITAL STOPWATCH USING MSI. DEVICES (DECADE COUNTER, BCD. TO 7-SEGMENT DECODER & 7-SEGMENT DISPLAY)
DIGITAL-SCANNING FREQUENCY SELECTOR THAT GIVES DIRECT FREQUENCY READOUT, TO ADD TO HY-GAIN COUNTER
DIGITAL FREQUENCY MULTIPLIER THAT GENERATES OUTPUT WHOSE FREQUENCY IS N TIMES FREQUENCY OF INPUT
SIGNAL PROCESSING CCT TO PROVIDE DIGITAL READING FROM GAUGE HEADS, INCLUDING SINE-COSINE OSCILLATOR
LOGIC BOARD
DIGITAL AUTOMOTIVE TUNE-UP METER
DIGITAL OSCILLOSCOPE TRIGGER THAT IS 8-BIT COMPARATOR TO PROVIDE OUTPUT SIGNAL ON 8-BIT DATA
DIGITAL OSCILLOSCOPE TRIGGER USING 8 BIT MAGNITUDE COMPARATOR, FOR FAULT-FINDING ON DIGITAL CCT
LIGHT-ACTIVATED (PHOTO-GATE) SWITCH, PROVIDING 1-SHOT TTL. SIGNAL, FOR TIMING EXPERIMENTS
DIGITAL COUNTER
LIGHT-WAVE VOICE COMMUNICATOR/TRANSMITTER/RECEIVER
MAGNITUDE COMPARATOR DEMONSTRATION CCT/PROGRAMMABLE 4-BIT COUNTER
LOGIC STATE ANALYSER
LIGHT-SENSITIVE TONE GENERATOR (UP-DOWN AUDIBLE LIGHT SENSOR) USING 2 LIGHT-SENSITIVE CADMIUM S
DIGITAL LOGIC & DISPLAY OF HEART-RATE METER, INCLUDING CRYSTAL OSCILLATOR & FREQUENCY DIVIDER, &
DIGITAL MONOSTABLE MULTIVIBRATOR (1-SHOT) THAT, AT POWER-UP, PRODUCES OUTPUT PULSE WHOSE WIDTH
DIGITAL BASELINE CLIPPER THAT SELECTS DATA FOR DISPLAY ONLY WHEN DATA'S VALUE IS >NUMBER IN COUN
DIGITAL COMBINATION LOCK THAT REQUIRES YOU TO ENTER SPECIFIC 7-DIGIT NUMBER, & TO DO IT WITHIN FIXE
HIGH-PERFORMANCE AC. PREAMP. (BANDPASS AMP.) WITH VERY HIGH GAIN, SELECTIVITY & INPUT IMPEDANCE,
LOGIC CCT USING NAND GATES, OR GATE & INVERTER/LOGIC CCTS USING VARIOUS COMBINATIONAL LOGIC GA
LIGHT PEN (LIGHT-DETECTING DEVICE) FOR COMMODORE 64, USING PHOTOTRANSISTOR & HEX SCHMITT TRIGG
DIGITAL RANDOM PULSER BASED ON LINEAR FEEDBACK SHIFT REGISTER (4)/EARLIER, SIMPLER RANDOM PULSE
DIGITAL RATEMETER USING MONOVIBRATOR, FIFO. MEMORY, UP-DOWN COUNTER & LED. DISPLAY, USING NEW
HIGH CURRENT, NANOSECOND PULSE GENERATOR USING SRD.S, FF.S, MOS. DRIVER CCTS & MOSFET.S TO DRIV
LOGARITHMIC AMP. TO CONVERT CURRENT FROM IR. SENSITIVE LEAD SULFIDE PHOTOCONDUCTIVE DEVICE INT
DIGITAL PORTION OF HIGH-RESOLUTION RF. PHASE SHIFTER THAT PROVIDES PHASE RESOLUTION OF 7.5DEG IN
DIGITAL SECTION OF DIGITAL FUNCTION GENERATOR USING PLL. FOR FREQUENCY SYNTHESIS (4)/ANALOGUE (1)
DIGITAL COUNTER WHOSE INPUT IS FORMED BY 2 OPTOISOLATORS WHOSE OUTPUT PULSE SEQUENCE DEPENDS

DIGITAL PROGRAMMABLE MONOSTABLE MULTIVIBRATOR USING CRYSTAL OSCILLATOR & INPUT DIGITAL DATA T
LOGARITHMIC CONVERTER FOR CURRENT METER OF BENCH PS.

SIGNAL SWITCH

HIGH-PERFORMANCE TOP-BAND CONVERTER

DIGITAL BUGLE-CALL GENERATOR WITH AUDIO AMP./LOW-POWER OUTPUT STAGE/AUTO-CUTOFF CCT WITH REM

DIGITAL PART OF DIGITAL CAPACITANCE METER BASED ON RC. DISCHARGE WITH BATTERY VOLTAGE POLARITY

DIGITAL AUDIO DELAY LINE CCT MOD. FOR CONTROL BY 8-BIT PARALLEL PORT OF COMPUTER, REPLACING BCD

LIGHTMETER TO MAKE PHOTOGRAPHIC PRINTS, USING LDR. AS SENSOR, & OA., TO DETERMINE CORRECT EXPO

DIGITAL GAIN CONTROL INTERFACE TO KEITHLEY 148 NANOVOLTMETER, TO ALLOW FOR MANUAL OR COMPUTE

LIGHTNING BULB CCT USING QUADRAC, MOD. CLEAR INCANDESCENT LAMP (LIGHT BULB) & HV. PS., THAT CREAT

AUGER SPECTROMETER-PHA. INTERFACE ENABLING USE OF MULTICHANNEL PHA. TO DIGITIZE & RECORD AUGE

DIGITAL OSCILLOSCOPE THAT CONVERTS SERIAL DIGITAL SIGNAL INTO VISIBLE DISPLAY ON 16 LED.S, ALLOWIN

DIGITAL GAASFET. PREAMP. SEQUENCER TO KEEP TRANSMITTER RF. OUT OF PREAMP., EMPLOYING TRANSIENT

DIGITAL PROGRAMMABLE TIMER USING CLOCK GENERATOR, 3 BCD. COUNTERS, DISPLAY DRIVERS, DISPLAYS, C

DIGITAL BOWL BOX THAT IDENTIFIES WHICH OF 8 CONTESTANTS RESPONDED 1ST, USING LOW-POWER SCHOTT

HIGH-SPEED MAIN MEMORY BANK FOR 32-BIT SYSTEM, USING 512KWORD-BY-32-BIT CMOS. SRAM. ARRAY/LOW-P

DIGITALLY CONTROLLED OSCILLATOR THAT GENERATES FREQUENCY PROPORTIONAL TO OUTPUT OF DAC. (2)/

DIGITAL TEST INSTRUMENT WITH 6 LOGIC PROBE CHANNELS, USING HEX INVERTER & 6 BI-COLOR RED-GREEN L

HIGH-Q ACTIVE FILTER AMP.

LOGIC CCT

DIGITAL IO. CCT FOR PDP 11-03 COMPUTER, TO PROVIDE PULSES TO MAGNETIC TAPE FLAG TO STORE DATA

ECG. WITH VERY HIGH INPUT IMPEDANCE, DIFFERENTIAL AMPLIFICATION & VOLTAGE GAIN OF 200, USING IA./OP

DIGITAL COMB GENERATOR THAT PRODUCES ACCURATE CRYSTAL-CONTROLLED PULSES FOR TEST EQUIPMEN

LOGIC CCT FOR STARTNG & TIMING GATES, INCLUDING TRIGGERING GATES COMPOSED OF IRED.S FACING PHO

DIGITAL CCT USING 3 CMOS. CHIPS, TO GENERATE LOG-TIME FUNCTION OVER 7 DECADES OF TIME, INCLUDING

DIGITAL-FREQUENCY COMPARATOR THAT COMPARES 2 INPUT SIGNALS & DETECTS WHICH HAS GREATER FREQ

LOGIC PROCESSOR INCLUDING FAST LINEAR CHANNEL, THAT USES OPTOELECTRONIC CHARGE COMPENSATIO

DIGITAL PULSE GENERATOR (CLOCK) FOR SAMPLING VARIAN AA6 SYSTEM WITH 12-BIT ADC. (2)

LOGIC CCT TO TELL IBM PC. BOARD WHETHER IT IS PLUGGED INTO 8- OR 16-BIT SLOT, SENSING 16-BIT TRANSFE

HIGH-CURRENT, NANOSECOND-PULSE GENERATOR TO DRIVE LOW-IMPEDANCE LOADS, USING SRD.S IN BIASING

NIGHT-TIME SECURITY LIGHT WITH PSEUDO-RANDOM LIGHTING UP TIME, USING LIGHT SENSITIVE DETECTOR, O

LOGIC CCT FOR CONTROL OF CLOCK OUTPUT ENABLE & CHART ADVANCE, OF SYSTEM TO PRINT TIME OF DAY (

MAGNETIC SUSPENSION (SELF-CORRECTING CLOSED-LOOP FEEDBACK CONTROL) CCT/CHANGEABLE-FREQUEN

HIGH IMPEDANCE AMP. WITH FLAT BW. FROM DC. TO 50HZ, & GAIN OF 100, FOR GALVANOMETER EMF.

SIGNAL GENERATOR TO PRODUCE SERIES OF GATED SINE WAVES WITH PSEUDO-RANDOM SEQUENCE, INCLUD

DIGITAL NOISE DISCRIMINATOR CCT FOR MORSE TO ALPHANUMERIC CONVERTER (QST7510, QST7511, QST7512)

LOGIC & DETECTION CCT OF VARIABLE-FREQUENCY PULSED EXTERNAL NMR. LOCK FOR STABILIZING MAGNETIC

LOGIC ANALYZER TO DETERMINE TRUTH TABLE OF CCTS WITH UP TO 4 INPUTS, INCLUDING LED.S ARRANGED IN

LOGIC PROBE & "GLITCH CATCHER" FOR TESTING UP. & OTHER DIGITAL CCTS

SIGNAL CONDITIONING SECTION OF VALVE CONTROLLER, INCLUDING CONTACT BOUNCE ELIMINATOR/VALVE DR

DIGITAL FRINGE-COUNTING CCT THAT FUNCTIONS ON VALIDATION PRINCIPLE, USING FAST COMPARATORS, UP-

DIGITAL TALKER SPEECH SYNTHESIZER CCT TO ADD SPEECH CAPABILITIES TO ZX81-TS1000 COMPUTER

LOGIC CCT

DIGIRATT RY TEST GENERATOR THAN CAN BE USED WITH DIGIRATT AFSK. GENERATOR, FOR AUTOMATIC SEQU

LOGIC REFERENCE USING BINARY COUNTERS/DISPLAY CCT USING BCD. COUNTERS, CONTAINING LED.S TO PRO

LOGIC SYSTEM OF CALCULATOR INTERFACE BETWEEN DVM. & SET OF SOLENOIDS, TO AUTOMATICALLY ACQUI

MAGNET DRIVE CCT FOR PNEUMATIC PLAYER PIANO INTERFACE, USING PERIPHERAL DRIVER/CCT USING SYNC

REGULATOR THAT GIVES 10V OUTPUT FOR BATTERY VOLTAGES OF 5-9V, CONTAINING VCO. USING INVERTER, V

DIGITAL PHASE SHIFTER THAT CAN ADJUST PHASE OF REFERENCE SQUARE-WAVE SIGNAL BY UP TO 180DEG, U

LIGHT-SENSITIVE RELAY DRIVER/DIFFERENTIAL PCB. TESTER
HIGH-CURRENT CAPACITOR CHARGE-DISCHARGE CCT TO HEAT FINE-WIRE EXPOSED JUNCTION THERMOCOUPLE
DIGITAL SINE & COSINE WAVE GENERATORS OF QUADRATURE OSCILLATOR USING CMOS. SHIFT REGISTERS/2N
HIGH-SPEED, HIGH-POWER, FET.-INPUT, POWER OA. WITH V-GROOVE POWER MOSFET.S IN OUTPUT STAGE, IN S
DIGITAL TRACKING SYSTEM ABLE TO DETERMINE, IN REAL TIME, COORDINATE VALUES OF POINTS IN IMAGE PL
DIGITAL LOGIC & GATE DRIVER CCTS FOR MOD. PROTON DECOUPLER CCTS, INCLUDING DBM.S, LOGIC OR CCT,
DIGITAL KEYBOARD CONTROLLER TO PROCESS UP TO 128 KEYS IN MATRIX, USING BLOCK SCANNER COMPRIS
REGISTER & CONTROL LINE CCT THAT CONVERTS STATUS OF GROUPS OF 8 CONTACTS ON CONSOLE INTO BYT
LOGIC PROBE TEST CCT HAVING AUDIO OUTPUT WITH 2 DIFFERENT TONES, INCLUDING PULSE CATCHER & PULS
LIGHT-STABILISING ELECTRONICS
DIGITAL INTERFACE TO CONVERT XLG-TO-FLG TIME DELAY TO 8-BIT DISTANCE DATA/SPEED-DISPLACEMENT ME
LOGARITHMIC AMP. TO GENERATE STRAIGHT LINE FROM EXPONENTIALLY DECAYING SOUND, USING LOGGING D
DIGITAL CAPACITANCE METER/METER PS.
DIGITAL FREQUENCY METER
DIGITAL CCT SHOWING SIGNATURES USED FOR ANALYSIS
DIGITAL AUDIO SWITCH
ENGINE SPEED INDICATOR
DIGITAL RESISTANCE-CAPACITANCE METER USING RC. CCT FOR GATING/TIMER TEST CCT TO SELECT VALUES O
DIGITAL FILTER TO DISCRIMINATE BETWEEN ADJACENT-CHANNEL SPLATTER & ON-FREQUENCY CARRIER, TO AV
LIGHT SENSITIVE SWITCH USING OSCILLATOR-TIMER, 2 TRANSISTORS & LDR., (LIGHT SENSOR) THAT TRIGGER R
DIGITAL NMR. FREQUENCY TO MAGNETIC FIELD CONVERTER CONSISTING OF 3-STAGE RF. DIFFERENTIAL PREAMP
LIGHT-CONTROLLED MONOSTABLE USING MULTIVIBRATOR & COMPARATORS/LIGHT-CONTROLLED TIMER/CCTS S
ENGINE EFFICIENCY METER WHOSE INPUT SIGNAL IS TAKEN FROM IGNITION COIL OF VEHICLE, INCLUDING 2 MO
DIGITAL NOISE CANCELLER TO STOP NOISE PULSES GIVING FALSE DIGITAL OUTPUT, INCLUDING MONOSTABLES
LOG AMP. THAT RECEIVES SIGNAL FROM GC. ELECTROMETER, USING LOG-ANTILOG AMP. & PREAMP. ACTING AS
LIGHT-WEIGHT, COMPACT EQUIPMENT TO MEASURE DAILY URINE OUTPUT OF GRAZING FEMALE SHEEP WHILE T
NEGATIVE-ION (HV.) GENERATOR USING TIMER THAT GENERATES SQUARE-WAVE PULSES, INDUCING HV. IN WIN
REGULATOR FOR HV. SYSTEMS USING ASTABLE OSCILLATOR WHOSE DUTY CYCLE IS DERIVED FROM SYSTEM V
LIGHT-CONTROLLER CCT CONSISTING OF OSCILLATOR-TIMER FEEDING QUAD D-TYPE FF. DRIVING OPTOISOLAT
LIGHT PANEL DRIVEN BY OSCILLATOR (CLOCK CCT), INCLUDING DECODER-DRIVER & LED.S/CCT TO ADD 2ND RO
EDGE DETECTOR TO PUT OUT PULSE OF APPROPRIATE WIDTH (LENGTH) WHEN TRIGGER LINE CHANGES STATE
REGULATOR FOR HV. (>75V) PHOTOVOLTAIC-BATTERY POWER SYSTEMS, USING ASTABLE OSCILLATOR WHOSE
DIGITAL CONDUCTIVITY METER THAT PRODUCES PULSES AT RATES PROPORTIONAL TO CONDUCTANCE (RECIPI
HIGH-PERFORMANCE HV. WIDEBAND NEGATIVE FEEDBACK AMP. USING BURR-BROWN HV. HIGH-SPEED MONOLI
LOGIC CCTS OF R71A RECEIVER/RF.-MAIN UNITS
LOGICAL SYSTEMS 1081 REAL TIME ANALYZER THAT PROVIDES DIGITALLY-SYNTHESIZED "VOICE", USING TIMER
LOGIC PULSER THAT GENERATES PULSES AT 500HZ OR 0.5HZ, FOR "ACTIVE" TESTING OF DIGITAL CCTS, INJECT
DIGITAL TIMER TO OPERATE SHUTTER ON CCD. SYSTEM/STOP LOGIC CCT & ALARM CCT FOR TIMER
MAGNETIC FIELD MONITOR OF TEST EQUIPMENT TO MEASURE FREQUENCY-PHASE RESPONSE OR STEP RESPON
DIGITAL FREQUENCY DISCRIMINATOR
DIGITAL CAPACITANCE METER (CAPACITANCE-TO-VOLTAGE CONVERTOR)
MAGNETOMETER ELECTRONICS INCLUDING PHOTOCCELL & DIFFERENTIAL AMP. THAT APPLIES NEGATIVE FEEDB
DIGITAL SAWTOOTH GENERATOR USING 8-BIT DAC., SYNCHRONIZED BY CLOCK OSCILLATOR CONSISTING OF IC
EMG. AMP. & CONTROL CCT, INCLUDING IA., RECTIFIER, INTEGRATOR, THRESHOLD-CROSSING DETECTOR, TIMIN
DIGITAL DIFFERENTIAL DEPTH METER
NEGATIVE VOLTAGE GENERATOR USING 1 IC, THAT WORKS FOR WIDE RANGE OF SUPPLY VOLTAGES FROM +1.5
LOGIC-DISPLAY & CONTROL MODULES OF SYSTEM FOR DOUBLE-BLIND AUDIBILITY TESTS, INCLUDING SOUND G
HIGH-GAIN CURRENT SENSOR USING OA./INDUCTIVE CURRENT SENSOR TO SEEK OUT AC./SIGNAL CONDITIONE
DIGITALLY CONTROLLED PULSE GENERATOR/DIGITALLY PROGRAMMABLE OSCILLATOR/CCT TO MAKE DELAY ME

DIGITAL PLL. AMP. USING GIGABIT LOGIC GAAS. PHASE-FREQUENCY COMPARATOR & HIGH-SPEED POWER OA. T
DIGITIZED VOICE ID'ER (VOICE STORAGE DEVICE) TO REPRODUCE UP TO 6.4S OF HUMAN VOICE, USING EPROM.
HIGHLY STABLE CONSTANT CURRENT REGULATOR MODULE USING PHILBRICK CHOPPER-STABILIZED OA./BUFFER
HIGH-POWER MAGNETRON (MICROWAVE) PS. INCLUDING MOTOR-DRIVEN VARIAC & HV. TRANSFORMER, WITH -4
DIGITAL MUSIC SYNTHESIZER THAT CAN GENERATE MUSICAL NOTES OF 32 INSTRUMENTS WHOSE SOUND PATT
REGULATOR CCT/BASE-STATION VERSION OF BATTERY ELIMINATOR
DIGITAL CCT OF MEMORY-CONTROL UNIT/READOUT UNIT/LCD. TIMER/VERIFICATION UNIT/INSTRUMENTATION TE
REGULATOR CCT (CORRECTION TO PREVIOUS ARTICLE)
BIGGER PS. (PSU) TO INCREASE RELIABILITY OF COMMODORE 64 COMPUTER
DIGITALLY-CONTROLLED ELLIPTIC LPF. USING DIGITALLY-CONTROLLED ANALOGUE POTENTIOMETER, FOR 1KHZ
ECG. AMBULATORY MONITORING DEVICE INCLUDING BIOAMP., 8-BIT UP., EPROM., RAM., MODEM & ACOUSTIC CO
DIGITAL FREQUENCY SYNTHESIZER/CONTROLLER CCT
HIGH-SPEED MACHINE-CODE-DEVELOPMENT-SYSTEM-EPROM. PROGRAMMER FOR TIMEX SINCLAIR 1000 OR SIN
DIGITAL PART OF CURRENT SOURCE (PS.), INCLUDING UP., IEEE-488 INTERFACE, TIMER, PPI., EPROM., RAM., DAC
ECG. MONITORING SYSTEM BUILT AROUND 8-BIT Z80 UP. (CPU.), USING 8-BIT ADC. & PROGRAMMABLE PARALLEL
REGULATED SUPPLY FOR CRYSTAL CALIBRATOR (REW8308)
DIGITAL IC TESTER TO USE WITH COMMODORE C64 COMPUTER TO PRETEST DIGITAL COMPONENTS, USING PIA.
HIGH-CURRENT 12VDC. PS. THAT MONITORS OUTPUT VOLTAGE, IMPROVING VOLTAGE REGULATION, USING VOL
UPGRADE BOARD/MKII UNIVERSAL EPROM. PROGRAMMER BOARD
REGULATOR CCT BUILT INTO BP-4 BATTERY PACK CASE, USING 5V REGULATOR IC & 5.1V ZENER DIODE, ALLOWI
REGULATOR CCT WITH AVAILABLE CURRENT BOOSTED CONSIDERABLY WITH EXTERNAL TRANSISTOR
DIGITAL RANDOM-NOISE GENERATOR THAT PRODUCES 10V PULSES WHOSE DURATIONS ARE RANDOM INTEGER
DIGITAL SAMPLING UNIT (SOUND SAMPLER) THAT ALSO FUNCTIONS AS DIGITAL DELAY LINE, CONTROLLABLE BY
REGULATED DC. PS. CCT USING 3-TERMINAL IC VOLTAGE REGULATORS, FULLWAVE BRIDGE RECTIFIER, CAPACI
DIGITAL TERMINAL DESIGN USING 8031 PROCESSOR (CPU.) WITH 29C53 & 29C48 COMBO FOR VOICE, WITH DATA
HIGH-PERFORMANCE GRAPHICS TERMINAL THAT USES IAPX186'S 2-CHANNEL DMA. CAPABILITY (BBB)
DIGITAL OSCILLOSCOPE ANALOG FRONT END & TRIGGER/CCT INTERFACING MEMORY TO FLASH ADC. & BUS (2)
DIGITAL INCREMENTAL-POSITION SERVO CONTROLLER, USING FUSE-PLA.
DIGITAL CLOCK APPLIANCE CONTROLLER
DIGITALLY CONTROLLED GENERATOR THAT PRODUCES SIGNAL WITH DAC. BY READING DAA STORED IN EPROM
SIGNAL PROCESSING AMP. OF TRANSIENT CAPACITANCE SYSTEM FOR SURVEY MEASUREMENTS OF DEEP IMPU
LOGIC-CONTROLLED HIGH-SIDE SWITCH CCT USING MOSFET. WHOSE GATE DRIVE IS GENERATED BY REGULATI
DIGITALLY PROGRAMMABLE 2-POLE STATE-VARIABLE FILTER USING CMOS. DAC.S TO ACCURATELY CONTROL C
SIGNAL ACQUISITION & CONDITIONING SUBSYSTEM USING MULTIPLE MEDL MA600'S INCLUDING INTERFACE ARR
DIGITALLY-PROGRAMMABLE AMP. THAT ACHIEVES GAIN & ATTENUATION CONTROL BY ADDING 2 RESISTORS TO
MAGNETO-THYRISTOR PULSER USING THYRISTOR SWITCH OPERATING AT 1KV, 30:1 STEP-UP TRANSFORMER &
HIGH-SPEED 16-BIT DMA. CONTROLLER USING SINGLE-CHIP USER-MICROCODED LOGIC UNIT THAT CONTAINS C
DIGITAL THERMOMETER GAUGE CONSISTING OF PROBE, ADC., 7-SEGMENT DECODER-DRIVER & DISPLAY
SIGNAL-CONDITIONING CCT USED TO EQUALISE & SUBTRACT TO ZERO OUTPUTS DUE TO VIBRATION
DIGITAL LOGIC PROBE THAT INDICATES SIGNAL'S DUTY CYCLE & LEVEL FROM 0 TO 6V IN 16 STEPS/CHARGER
LOGARITHMIC CONVERTER USING FREE RUNNING EXPONENTIALLY INCREASING VOLTAGE (FUNCTION) GENERA
DIGITAL AF. SINE-WAVE GENERATOR WHOSE 2HZ TO 20KHZ OUTPUT WAVEFORM IS STORED IN EPROM. WHOSE
DIGITAL SYNTHESIZED SAWTOOTH SIGNAL (WAVEFORM) GENERATOR USING 8-BIT DAC., 2 BINARY COUNTERS &
HIGH ISOLATION DUPLEXING SWITCH USING BANK OF DIODES, FOR PULSED NMR. SPECTROMETER, THAT PROV
MAGNETIC MULTIPOLE APPARATUS INCLUDING FIELD & SEARCH COIL, 70HZ ASTABLE USING TIMER, SIGNAL AMP
HIGH SPEED SEMI-GAUSSIAN INTEGRATOR INCLUDING AMP., INTEGRATOR, & AMP. & BASE LINE RESTORER/SHO
DIGITALLY PROGRAMMABLE MONOSTABLE MULTIVIBRATOR USING OTA., PASSIVE DAC. & TIMER, WHERE PULSE
HIGH GAIN (5000) HIGH INPUT IMPEDANCE (22MOHM) EMG. AMP. USING OA.S, INCLUDING DIFFERENTIAL AMP., HI
DIGITAL PART OF CAPTURE SYSTEM/POSITIVE HALF OF OUTPUT STAGE OF LINSLEY HOOD AMP./CCT TO MEASU

DIGITAL SAWTOOTH GENERATOR INCLUDING DAC. WHOSE INPUTS ARE DRIVEN BY TTL. BASE-16 BINARY COUNT
HIGH-RESOLUTION (14-BIT) DAC. PROVIDING SYMMETRICAL BIPOLAR OUTPUT CURRENT, WITH MAXIMUM POSSIBLE
DIGITAL SECTION OF DAC., IN WHICH PARALLEL PRINTER PORT CONTROLS 8 DIGITAL LATCHES, FOR 64 BITS OF
DIGITAL VOLTAGE GAUGE/OIL-PRESSURE GAUGE (2)/WATER-TEMPERATURE GAUGE (2)/FUEL GAUGE (2)/TEMPERATURE
HIGH CAPACITANCE ORIENTED CHARGE SENSITIVE PREAMP. CAPABLE OF WORKING WITH DETECTORS OF UP TO 100V
DIGITAL PHASE COMPARATOR INCLUDING AMP.S, COMPARATORS, COUNTERS, 4-BIT BINARY FULL ADDER, 8-BIT
REGULATOR USING OA. THAT COMPARES BATTERY VOLTAGE WITH REFERENCE POTENTIAL & DRIVES POWER TO
LOGARITHMIC AMP. & DIVIDER MODULE TO LINEARIZE THERMISTOR RESISTANCE-TEMPERATURE CHARACTERISTICS
DIGITAL COMPASS BASED ON HALL-EFFECT SENSOR, THAT ILLUMINATES 1 LED. FOR EACH OF 8 DIRECTIONS/PS.
DIGITALLY CONTROLLED MIXER (BBB)/STATE-VARIABLE FILTER WITH RANGE FROM 0.4HZ TO 1.5KHZ
DIGITALLY PROGRAMMABLE, ELECTRONICALLY TUNABLE ACTIVE-R SINUSOIDAL OSCILLATOR USING OA., OTA., &
REGULATED DIODE PS. TO PROVIDE EXACT VOLTAGE GEIGER DIODE NEEDS, INCLUDING CCT USING BI-FET. OA.
HIGH IMPEDANCE INTERFACE USING LOW LEAKAGE MUX., WITH PROTECTION TO 240V RMS., USING EXTERNAL SENSORS
LIGHT-ACTIVATED RELAY SWITCHES (2)/DARK-ACTIVATED SWITCHES (2)/LIGHT-ACTIVATED ALARM BELLS (3)/IR. PHOTO
DIGITAL PLL. FREQUENCY SYNTHESIZER WITH HIGH RESOLUTION, WIDE DYNAMIC RANGE & LOW SPURIOUS RESPONSE
SIGNAL PROCESSING BOARD FOR ADVANCED DIGITAL RADIO SYSTEM USING LCA (LOGI CELL ARRAY), INCLUDING
HIGH-POWER SPDT. TR. SWITCH USING MA8334 DIODES/RECEIVER SYSTEM/30MHZ-IF. AMP.
HIGH POWER SPDT. TR. SWITCH, PROVIDING ISOLATION BETWEEN TRANSMITTER & RECEIVER/COMPUTER CONTROL
DIGITAL POTENTIAL STEP GENERATOR/12-BIT SUCCESSIVE-APPROXIMATION ADC. CCT WITH 2US CONVERSION TIME
HIGH-PERFORMANCE CCT USING INVERTING MOSFET. POWER OA. DRIVEN BY OA. WITH SLEW-LIMITING FILTER &
LOGIC MODULE THAT GENERATES SIGNALS GIVEN TO SCANNER CONTROLS FOR DEFLECTION/SWITCHING CCT
DIGITAL AFC. (DAFC) CCT (FREQUENCY CORRECTION MOD.) FOR DRAKE TR7, TO MAKE VFO. AS STABLE AS SYNTHESIZER
DIGITAL CONTROL FOR CRT. BRIGHTNESS WITH CONTROL VOLTAGE UP TO 200V, USING OPTOCOUPLER PROVIDED
DIGITAL IR COMPENSATION CCT USING DAC. AS DIGITALLY CONTROLLED POTENTIOMETER TO APPLY COMPUTED
SIGNAL DETECTION & AMPLIFICATION CCT OF LASER DIFFERENTIAL INTERFEROMETER, INCLUDING PHOTODIODE
DIGITALLY CONTROLLED CLOCK OSCILLATOR THAT PROVIDES LINEAR CONTROL BELOW 200KHZ & HAS MAXIMUM
NEGATIVE 2W REGULATOR POWERED BY 5V, TO GENERATE REGULATED -5V OR -12V POWER SOURCE CAPABLE
SIGNAL PROCESSING CCT OF 1-DIMENSIONAL POSITION SENSING SYSTEM USING PHOTOSENSORS (PHOTOTRANSDUCERS)
SIGNAL INJECTOR TO TEST AMP.S OR OTHER SIGNAL PROCESSING STAGES/SIGNAL TRACERS TO TAKE SIGNAL
HIGH-SPEED CURRENT SOURCE TO DRIVE CRT. MAGNETIC-DEFLECTION YOKE/SAME INCLUDING "FLEXING" SWITCH
SIGNAL CONDITIONING CCT FOR ENTRAN EPX-10U-1000G MINIATURE PRESSURE TRANSDUCER, TO AMPLIFY TRANSDUCER
DIGITAL-TO-PULSE-WIDTH CONVERTER (BBB)/ON-OFF CONTROLLER/POTENTIOMETRIC STRIPPING ANALYSIS (PS)
LOGIC DESIGN TO PROVIDE REFRESH CONTROL SCHEME FOR 6MHZ 68000 UP./UP.-MEMORY INTERFACE & REFRESH
HIGH-PASS FILTER TO SUPPRESS INTERFERENCE FROM POWERFUL MEDIUM-WAVE OR LONG-WAVE TRANSMITTERS
HIGH-PERFORMANCE DIGITAL AUDIO STEREO PLAYBACK SYSTEM USING DIGITAL INTERFACE FORMAT RECEIVER
HIGH GAIN 10.7MHZ RECEIVE IF. PREAMP. TO IMPROVE STATION PERFORMANCE ON 10GHZ, USING MOTOROLA 80C01
DIGITAL FREQUENCY METER WITH 0 TO 10MHZ & 10-200MHZ RANGES, USING DIRECT COUNT PRE-AMP. & PRESCALER
HIGH-ENERGY IGNITION SYSTEM
LOGIC (INTERFACE) THAT ALLOWS 2 MSB.S OF PET MICROCOMPUTER'S OUTPUT WORD TO CONTROL ELEVATION
DIGITAL & ANALOG IO. BOARD INCLUDING MUX., ADC., DECODERS & PARALLEL INTEL PERIPHERAL CHIPS (BBB)
HIGH-QUALITY FREQUENCY COUNTER
DIGITAL THERMOMETER USING 2 OA.S, ADC. & 100OHM PLATINUM RTD., TO IMPLEMENT EQUATION RELATING RESISTANCE
LIGHT PEN & INTERFACE CCT USING PHOTO DIODE, TO TRANSFORM LIGHT FROM VIDEO MONITOR INTO TTL. SIGNAL
HIGH-FIDELITY MTS DECODER (BBB)/DECODER STAGE/NOISE-REDUCTION STAGE/MATRIX STAGE/PS.
DIGITAL PLL. INCLUDING DIGITAL PHASE-FREQUENCY DETECTOR USING PHASE COMPARATOR, 30MHZ CRYSTAL
HIGH IMPEDANCE DVM. TO MEASURE DIFFERENCE IN POTENTIAL BETWEEN SENSING & REFERENCE ELECTRODES
DIGITAL ELECTRONIC ALTIMETER WITH LCD.
DIGITAL MODULATOR TO PERMIT SIMULTANEOUS TRANSMISSION OF 3 ANALOG SIGNALS
HIGH-POWER 2M AMP. USING NEW 3CX800A7

EGGTIMER

DIGITAL VOICE-DATA TELEPHONE SET TO PROVIDE ANALOGUE FUNCTIONS WHILE TRANSMITTING 9600 BAUD AS
DIGITAL PULSE-PAIR DETECTING CCT WITH INSPECTION INTERVALS FROM 100NS TO 1.3MS, & OPERATION TO 25
DIGITAL WATCHDOG TIMER THAT IS LESS SENSITIVE TO NOISE THAN (HAS SUPERIOR NOISE IMMUNITY TO) WAT
MAGNETIC SUSPENSION'S DETECTOR-PREAMP. CCT USING POSITION SENSITIVE PHOTODIODE/MAGNETIC SUSP
DIGITAL KEYLESS ENTRY SYSTEM WITH BATTERY BACKUP, USING MOTOROLA MICROCONTROLLER WITH 3-DIGIT
LOGIC, CONTROL & DISPLAY CCT OF FOUCAULT TESTER, INCLUDING IR. PHOTOTRANSISTORS, COUNTING CCT &
DIGITAL ENCODING LOGIC USING HIGH SPEED ECL., COUNTING UNITS, & TTL. TRANSLATORS TO BUFFER SCALE
HIGH POWER (150W INTO 4OHM) HIGH QUALITY AUDIO POWER AMP. WITH GAIN OF 26DB, USING PARALLELED POW
HIGH PF. PREREGULATOR USING IC CONTAINING CONTROL CCT & POWER SECTION (BOOST CONVERTER), CAPA
DIGITAL CONTROLLER USING 4 EPROM.S TO STORE SHAPE OF WAVEFORM, & DAC.S (BBB)/HV. AMP. USING 2 HV.
HIGH-ISOLATION FLYBACK SMPS. CCT WITH MOD. CONTROL WINDING TO IMPROVE LOAD REGULATION
DIGITAL TELEPHONE SET CAPABLE OF VOICE & DATA COMMUNICATIONS/SET USING UP. TO ADD REASSIGNABLE
LIGHT INTENSITY CONTROLLED OSCILLATOR & SYNC CCT FOR SCANNING DESKFAX MACHINE (2)/CCT USING VIA
HIGH-SPEED ECL. CCT THAT DEVELOPS PAIR OF PHASE-SHIFTED SQUARE WAVES SUITABLE FOR CALIBRATING
HIGH-GAIN PREAMP./DIGITAL-READOUT TORQUE WRENCH/CAZ IA.
HIGH-SIDE-SWITCHING LAMP DRIVERS (5)/VOLTAGE MULTIPLIER/LOW-SIDE-SWITCHING DRIVERS (4)/DRIVE CCT U
SIGMA-DELTA ADC. USING PROGRAMMABLE CMOS. OA.S, COMPARATOR & D-TYPE FF., INCLUDING 3RD-ORDER B
REGULATED PROGRAMMABLE BENCH PS. ADJUSTABLE FROM 0 TO 15V DC., WITH AUTOMATIC SHUTDOWN
HIGH-IMPEDANCE CCT THAT REACTS TO ANALOG METER-MOVEMENT DRIVING VOLTAGE & SOUNDS SONALERT,
LOGIC-CONTROLLED PROGRAMMABLE VOLTAGE SOURCE USING PRECISION VOLTAGE REFERENCE, BCD.-TO-DE
DIGITAL FIBER OPTIC LINK/FM. TRANSMITTER/FM. RECEIVER USING PIN DIODE TO CONVERT LIGHT TO CURRENT
HIGH-EFFICIENCY SYNCHRONOUS PWM. REGULATOR/CURRENT-MODE-CONTROLLED 50W SWITCHING REGULAT
SIGNAL PROCESSOR USING ECL. IC'S, INCLUDING LIMITER, FREQUENCY TO VOLTAGE CONVERTER, INTEGRATOR
MAGNETIC PULSE GENERATOR CCT TO GENERATE MAGNETIC PRESSURE PULSES IN COIL WITHOUT RINGING, U
DIGITAL CAPACITANCE METER THAT MEASURES VALUE OF UNKNOWN CAPACITOR BY USING IT AS ELEMENT THA
MAG-11 SBC. USING MOTOROLA MICROCONTROLLER CHIP (MCU), INCLUDING RAM., EPROM. & RS-232C DRIVER,
SIGNAL TRACER/CONTINUITY TESTER/LOGIC TESTER/SIGNAL INJECTOR WITH HIGH & LOW OUTPUTS
DIGITAL TIMER TO TURN DEVICE OFF & ON SEVERAL TIMES A DAY, USING LCD. TIMER-CLOCK MODULE, WITH TR
NEGATIVE VOLTAGE REGULATOR/POSITIVE VOLTAGE REGULATOR WITH ~430V & ~165V OUTPUT/NEGATIVE VOL
LIGHTING SYSTEM (UP.-BASED CONTROLLER) USING 8-BIT MICROCOMPUTER CONTAINING CPU., CLOCK, EPROM
REGULATOR CCT TO PROVIDE GATE & DRAIN VOLTAGES FOR MULTISTAGE POWER GAASFET. AMP., USING IC VO
DIGITAL TORQUE-SPEED CONTROLLER OF LOAD SIMULATOR, INCLUDING 8-BIT UP., EPROM. (CONTAINING LOOK
HIGH GAIN BASE CCTS FOR PHOTOMULTIPLIERS WITH VERY HIGH 1ST DYNODE GAIN FOR CLEAR SEPARATION O
SIGNAL SYNTHESIS ADAPTATION MECHANISM OF MODEL REFERENCE SPEED ADAPTIVE CONTROLLER FOR CUR
SIGNAL TRACER CCT (HIGH INPUT IMPEDANCE, HIGH GAIN AMP. FEEDING INTO CRYSTAL EARPHONE)
ALGAL CELL MONITOR (ACM) SYSTEM USING IR. TRANSMITTER & PHOTO-RECEIVER, TO OPTO-ELECTRONICALLY
HIGH-SPEED NICD. CHARGER CAPABLE OF COMPLETELY CHARGING 8 TO 12 BATTERIES AT 1.2 TO 1.8AH IN 30 TO
HIGH-GAIN LOW NOISE PREAMP. INCLUDING CHARGE-SENSITIVE AMP./PULSE-SHAPING (SHAPER) AMP./PEAK HO
DIGITAL PHASEMETER USING DVM. IC TO DISPLAY PHASE DIFFERENCE OF 2 SIGNALS IN DEGREES WITH ERROR
DIGITISING TABLET CONNECTED TO ADC./CCT USING LVDT./8-CHANNEL DAS./ADC. (BBB)
PIGGYBACK CCTS USING VIDEO OA. & VIDEO BUFFER CHIP, FOR MOD.S (IMPROVEMENTS) TO MAGNAVOX CD. PL
UPGRADED 80-40M JUNKBOX RIG (TRANSMITTER) WITH MORE (ALMOST DOUBLE) POWER, USING ANOTHER (PAR
DIGITALLY CONTROLLED ATTENUATOR DRIVEN BY GRAY-CODE INPUT, FEATURING THUMPLESS OPERATION, LO
SIGNAL CONDITIONING AMP. TO DRIVE 50MHZ SINE WAVE INTO 100PF & 15KOHM, TO TEST FLASH ADC.
SIGNAL-CONDITIONING & INTERFACE CCT FOR ANALOG INPUTS/SIGNAL CONDITIONING CCT FOR PULSES TO BE
HIGH-PRECISION MUTUAL INDUCTANCE BRIDGE USING KELVIN-VARLEY DIVIDER
DIGITAL INTEGRATOR CONSISTING OF DAC., ABSOLUTE VALUE CCT, PROGRAMMABLE PRESCALER & TIME BASE
PIGGYBACK CCT (MOD.) #1 TO REPLACE NE5532 OA.S IN MAGNAVOX FD2040SL CD. PLAYER/PIGGYBACK CCT #2 U

LIGHT DETECTOR, MIXER & FAN CONTROLLER OF ELECTRONICS TO MEASURE VELOCITY OF LIGHT, USING PIN DIODE
DIGITAL IC CHECKER USING VMOS. POWER FET. WHICH PERMITS TEST VOLTAGES TO APPROACH IDEAL LOGIC LEVELS
DIGITAL THERMOMETER USING SILICON DIODES AS SENSORS, THAT CAN TRACK RAPID TEMPERATURE CHANGES
HIGH-SPEED VIDEO SWITCH WITH LOW CROSSTALK, USING FAST ANALOG SWITCH & SUMMING AMP.
DIGITAL CRIBBAGE COUNTER
HIGH-ACCURACY CALIBRATING VOLTAGE SOURCE WITH OUTPUT OF 1 TO 10V & ACCURACY OF WITHIN 0.1%, USING
ECG. TAPE-SPEED ERROR COMPENSATOR USING 2 BI-FET. OA.S, PLL. IC CONTAINING PHASE COMPARATOR & VOLTAGE
DIGITALLY CONTROLLED AUDIO AMP. WITH AC. GAIN AS HIGH AS 50DB, WITH DC. GAIN LIMITED TO 1, & OFFSET VOLTAGE
HIGH-RESOLUTION GRAPHICS-DISPLAY SYSTEM/CCT SHOWING INTERFACING OF VIDEO DAC.S/CRT.-DRIVE AMP.
DIGITAL DISPLAY (READOUT) ADAPTOR FOR VICTOREEN 440 RF-C SURVEY METER, INCLUDING RELAXATION OSCILLATOR
LOGIC FOR OCTAL SCALER CCT, INCLUDING SCALING CLOCK, SCALING & STORAGE BUFFERS USING CMOS. STABLE
DIGITAL CONTROL SECTION OF A-D CARD FOR IBM PC.-COMPATIBLE, USING TTL. COMPONENTS/ADC.S, REGISTERED
LIGHT TRANSMITTER TO SUPPLY BULB WITH DIRECT VOLTAGE & MODULATION SIGNAL/RECEIVER USING PHOTO DIODE
DIGITAL ALTIMETER USING TEMPERATURE COMPENSATED PRESSURE SENSOR, INCLUDING AMP., CURVE SHAPING
DIGITALIZED TRIPLE-PROBE SYSTEM USING 10-BIT TRACKING ADC. (INCLUDING DAC. & COMPARATOR), PHOTOCOPY
HIGH-POWER PREREGULATOR (HV. PS.) THAT IS DIGITAL (ELECTRONICALLY CONTROLLED) VERSION OF VARIAC
HIGH-SPEED SAMPLING AMP. FOR USE WITH 12-BIT 1US ADC./SH. AMP. USING ANALOG SWITCHES/PING-PONG SWITCHING
DIGITAL OUTPUT CARD/DIGITAL INPUT CARD/RELAY OUTPUT CARD (2)/TRIAC OUTPUT CARD (2)/OPTO-ISO INPUT CARD
DOG BARK INHIBITOR (TRAINING AID) THAT HUMANELY STOPS DOG FROM BARKING BY ACTUATING BUZZER EVERY
HIGH-SPEED SPST. ANALOG SWITCH WITH 50NS SWITCHING & 30MHZ BW., USING \$10 ANALOG MULTIPLIER & \$2
LOG-RATIO CCT TO DELIVER BASE-10 LOGARITHM OF RATIOS OF INPUT VOLTAGES/CCT TO OBTAIN CUBE ROOTS
REGULATION CCT
DIGITAL KEYPAD COMBINATION LOCK FOR HOME & AUTO SECURITY
DIGITAL DAS. USING ADC./CONNECTION OF CONVERTER TO 8-BIT UP.
DIGITAL-TO-ANALOG INTERFACE USING 16-BIT DAC./ANALOG-TO-DIGITAL INTERFACE USING 12-BIT ADC./INTENSIFIER
DIGITAL WAVEFORM SYNTHESIZER USING HIGH-SPEED REGISTERED PROM.S, 40MHZ CMOS. ADDRESS GENERATOR
SIGNAL PROCESSING CCT INCLUDING INTEGRATORS, ADDERS, DIVIDERS, SH.S, PULSE ADDER, PULSE GATE, ADDRESS
DIGITALLY CONTROLLED RF. ATTENUATOR CONSISTING OF ZMAS3 BALANCED MIXER, VOLTAGE-CONTROLLED OSCILLATOR
DIGITALLY CONTROLLED EQUALISATION CCT USING COMPLEMENTARY OUTPUTS OF CMOS. DAC., & OA.S TO REDUCE
DIGITALLY CONTROLLED ATTENUATOR WHOSE INPUT PRESENTS CONSTANT 650OHM IMPEDANCE TO DRIVING SIGNAL
DIGITAL LOW-POWER (15MW) HIGH-RANGE RADIAC METER FOR 1-999RAD-H, USING ADC.-LCD. DISPLAY DRIVER,
DIGITALLY PROGRAMMABLE, FREQUENCY-INDEPENDENT CCT TO PHASE SHIFT SINUSOIDAL SIGNALS, USING MODULATOR
NEGATIVE-VOLTAGE CONVERTER WHOSE NEGATIVE OUTPUT IS NEARLY EQUAL IN MAGNITUDE TO INPUT VOLTAGE
DIGITIZING & INTERFACE HARDWARE ADDED TO C-64 BUS USING ADC.S, TO IMPLEMENT MOVEMENT PARADIGM
MAGNET SCANNING REGULATOR (PS.) WITH DIGITAL CONTROL OF ADJUSTABLE SCAN SPEEDS, & MANUAL & COMPUTER
MAGNITUDE LOCKED LOOP (MLL) CCT USING FEEDBACK LOOP THAT LINEARLY RELATES FREQUENCY OF INCOMING
DIGITAL IF. PROCESSOR MOST OF WHOSE FUNCTIONS ARE IMPLEMENTED IN DSP. SOFTWARE, INCLUDING 14-BIT
DIGITAL OUTPUT PART OF PSD. TO COLLECT SIGNAL FROM DETECTORS/ANALOGUE OUTPUT PART OF PSD.
EMG. AMP. USING CURRENT CONVEYOR BASED IA. USING TRANSIMPEDANCE AMP.S, WITH SHUTDOWN CONTROL
HIGH SPEED (VERY FAST), STABLE AMP. (CURRENT-TO-VOLTAGE CONVERTER) THAT IS COMBINATION OF CURRENT
SIGNAL CONDITIONING CCT FOR LOAD & ACTIVITY DETERMINATIONS, USING BRIDGE, PREAMP., LPF., BUFFER, CURRENT
HIGH-CURRENT, GROUNDED-LOAD CURRENT SOURCE (YIG DRIVER)/CURRENT-SOURCE CCT TO DELIVER FROM
SIGNAL-PROCESSING SECTIONS OF FUZZ BOX (SPECIAL-EFFECTS ACCESSORY) FOR USE WITH ELECTRIC GUITAR
SIGNAL-PROCESSING CCT TO GENERATE COMPUTER INPUTS BY PROCESSING PMT. SIGNAL TO SCREEN OUT SIGNALS
HIGHLY EFFICIENT FET. HF. POWER AMP.
DIGITAL-TO-ANALOG FREQUENCY CONVERTER FOR SLOW-SCAN TV., USING CMOS. ANALOG MUX. & TTL. DUAL VOLTAGE
LOGIC CCT SHOWING 16-BIT, BIT-SLICE CPU. SECTION/COMPUTER-CONTROL SECTION/LOGIC OF MICROMEMORY
SIGNAL DEVICE WITH TIMED INTERVALS BETWEEN DEEP BREATHS PROVIDED BY CLOSING SOLENOID VALVE IN EXHAUST
HIGH-SPEED, HIGH-GAIN CURRENT-TO-VOLTAGE AMP. WHOSE 1ST STAGE IS LOCATED IN UHV (ULTRAHIGH VACUUM)

REGULATED VOLTAGE DOUBLER THAT GIVES UP TO 4A AT 20V FROM 12V CAR BATTERY, USING AUDIO POWER I
 BIG-AMP. PS./90S TIME-DELAY RELAY CCT TO ALLOW TUBE HEATERS TO COME UP TO TEMPERATURE BEFORE H
 HIGHLY VERSATILE INFINITELY VARIABLE CCT THAT CAN BE USED TO ESTIMATE SPEED OF SOUND, USING FLAS
 LIGHT SOURCE USING HIGH BRIGHTNESS INGAAS. LED. & FET. AMP., & DETECTOR ELECTRONICS FOR OBSERVA
 DIGITALLY CONTROLLED INCREMENTAL ANALOG PHASE SHIFTER & FREQUENCY MODULATOR (FM.) USING CON
 YIG (YTTRIUM IRON GARNET) SWEEPER (RAMP GENERATOR) OF YIG OSCILLATOR, TO PROVIDE SWEEP TO YIG P
 DIGITAL PULSE TYPE TRAIN CONTROLLER/2 COLOUR RED-GREEN SIGNAL/2 TONE HORN/3 COLOUR SIGNAL/SWIT
 MAGNETOMETERS: SKY, COMPASS, CRT., EDDY-DISK/GROUND-LOOP DETECTOR
 DIGITALLY CONTROLLED AUDIO AMP. FEATURING HIGH GAIN (50DB) & LOW OUTPUT-OFFSET-VOLTAGE VARIATIO
 HIGH-PERFORMANCE ACTIVE DIRECT BOX TO PATCH HIGH IMPEDANCE UNBALANCED SIGNAL INTO LOW IMPEDA
 DIGITAL PRESSURE EVALUATOR USING ELECTROPNEUMATIC SENSOR, PIEZORESISTIVE PRESSURE TRANSDUCI
 DIGITAL PF. METERING CCT CONSISTING OF VFC. & VFI, INCLUDING BCD. COUNTERS & DECIMAL RATE MULTIPLI
 MAGNETORESISTIVE-SENSOR CONDITIONERS PROVIDING GAIN ADJUSTMENT, OFFSET-VOLTAGE COMPENSATIO
 HIGH-FIDELITY DYNAMIC COMPRESSOR
 LOGIC CCT FOR STIMULATION CONTROLLER, INCLUDING OA. CONNECTED AS RELAXATION OSCILLATOR/POWER
 LIGHT DIMMER USING SCR., WITH RFI. FILTER TO PREVENT INTERFERENCE WITH RECEPTION ON AM. RADIO
 LOGIC CCT (DRIVE INTERFACE) FOR SPEED CONTROL OF DC. MOTORS/AC. MOTOR DRIVE USING FORWARD-REV
 REGULATED SUPPLY FOR 5V AT 10A/DUAL-POLARITY 12V SUPPLY/5V 4A DC. SUPPLY/8V, 15A DC. SOURCE
 HIGH-SPEED COUNTING CCT FOR PHOTON COUNT CORRELATION SPECTROSCOPY, INTERFACED TO TEXAS INST
 REGENERATIVE SW. RECEIVER WITH UNTUNED RF. STAGE USING FET., REGENERATION STAGE USING FET., & TA
 LOGIC-CONTROLLED OSCILLATOR INCLUDING 2 WIEN BRIDGE OSCILLATORS/DEMODULATOR CCT WITH LOGIC-C
 LIGHTS-ON REMINDER/PRACTICE AMP./SIGNAL INJECTOR/COIN FLIPPER/SWITCH-OFF TIMER/TELEPHONE BILL RE
 ECG. TRANSMITTER WITH PREAMP. & TEMPERATURE-COMPENSATED RF. STAGE USING FM. EARTHED-BASE CO
 SIGNAL PROCESSING UNIT USING AC. IA./DAS.
 HIGHLY LINEAR VFC. CCT WITH ZERO ADJUST
 DIGITAL RADIATION METER TO MEASURE TEMPERATURE RADIATION USING NON-LINEAR ADC. (NLADC)
 LOGARITHMIC SC (SWITCHED-CAPACITOR) CONVERTOR/EXPONENTIAL SC CONVERTOR/OFFSET-FREE LOGARITH
 HIGH LEVEL, WIDEBAND, STABLE, RANDOM NOISE SOURCES WITH HIGH & WELL-DEFINED OUTPUT POWER SPEC
 HPGE PREAMP. OUTPUT PULSE SIMULATOR WITH MINIMUM & MAXIMUM VALUES OF RISETIME FROM 60 TO 600NS
 HIGH-SPEED VARIABLE HYSTERESIS TRIGGER CCT
 DIGITAL CONTROLLER (2)/SWITCH DEVICE/BUFFER/ATTENUATOR CCT PS./CCT TO CONVERT SINGLE UP-DOWN P
 HIGH-IMPEDANCE FET. DC. VOLTMETER/30MHZ RF. PROBE
 HIGH RESOLUTION DIGITAL INDUCTANCE METER THAT FORCES 100KHZ SINUSOIDAL CURRENT THROUGH INDUC
 HIGH-IMPEDANCE METER AMP., FOR USE WITH VTVM TO MEASURE VERY SMALL VOLTAGES
 SIGNAL ACQUISITION SYSTEM (PROBE AMP.)/BANDPASS (LOW-PASS & HIGH-PASS IN CASCADE) FILTER CCTS, PF
 MAGNETOELECTRIC FLOWMETER BASED ON MEASUREMENT OF MAGNETISATION PRODUCED BY MOTION OF EL
 DIGITAL PROPORTIONAL-PLUS-DERIVATIVE SERVO SYSTEM USING SH. CCTS & ANALOGUE DEMUX. (2)
 LIGHT DETECTOR (PIN PHOTODIODE FOLLOWED BY CURRENT-TO-VOLTAGE CONVERTER)
 UPGRADED DYNANCO PAT-4 PREAMP. (PAT-4M), USING OA. WITH BEST NOISE PERFORMANCE OF ANY IC OA. ON
 HIGH-SPEED LOW-NOISE CHARGE SENSITIVE HYBRID PREAMP.
 SIGNAL GENERATOR/LPF. & ISOLATION AMP./AUDIO AMP.
 ECG. OR EEG. IA. TO ACHIEVE DC. SUPPRESSION BY FEEDBACK OF OUTPUT VOLTAGE VIA INTEGRATOR CCT TO
 10GHZ PREAMP. USING MITSUBISHI GAASFET.S/PS. WITH BATTERY FOR PREAMP./PS. SUPPLY FOR PREAMP., PR
 DIGITAL SIGNAL PROCESSING (DSP.) METER TO PROVIDE DIGITAL OUTPUT PROPORTIONAL TO MASS FLOW RAT
 SIGNAL-POWERED SELECTOR USING ANALOG SWITCHES TO CONNECT 1 OF 4 RS-232C DEVICES TO TERMINAL, P
 SIGNAL-CONDITIONING CCT/PLATINUM-RESISTANCE-THERMOMETER AMP./IA./CURRENT-SENSE AMP./DAC. CCT
 HIGH DYNAMIC RANGE DISCRIMINATOR INCLUDING RC. INTEGRATOR & BASE LINE RESTORER (BBB)/EVENT DISC
 SIGNAL AMP. INCLUDING PREAMP., TUNED AMP. & RECTIFIER (RECTIFYING CCT), USING PLATINUM AS PROBE (SI
 LOGIC & DATA CCTS OF HIGH SPEED ADC. CARD, USING SH., OA., ADC. & 4 CHANNEL MUX.

HIGH CREST-FACTOR CCT USING SINGLE IC TRUE RMS.-TO-DC. CONVERTER, USED WITH CREST FACTORS >2
HIGH-PERFORMANCE UNITY-GAIN-COMPENSATED VIDEO OUTPUT AMP. USING OA.
LOGARITHMIC SLIT CURRENT PREAMP. INCLUDING CURRENT-TO-VOLTAGE CONVERTER & COAXIAL CABLE DRIVE
NEGATIVE ION GENERATOR USING HV. PS. USING TV. FLYBACK TRANSFORMER WHOSE OUTPUT IS BOOSTED TO
HIGH-CURRENT SSR. THAT SWITCHES 100A AT 115V AC., USING OPTOCOUPLER FOR ISOLATION
HIGH-SIDE SWITCH DRIVING LOAD, PROTECTED WITH SCHOTTKY (REVERSE-VOLTAGE PROTECTION) DIODE/CCT
REGULATED BIPOLAR SUPPLY FOR OA. CCTS/REGULATED SINGLE-ENDED DC. SUPPLY/NONINVERTING OA. STAG
MAGNET CURRENT REGULATOR USING 18 HV., HIGH CURRENT SERIES REGULATOR TRANSISTORS CONNECTED
REGULATOR CCT
NEGATIVE-ION-SENSING ELECTROSCOPE USING TRIODE WHOSE GRID IS CONNECTED TO PICK-UP PLATE/NEGA
DIGITAL CHESS TIMER
DIGITIZER CHANNEL OF E787 TRANSIENT DIGITIZER, USING TEKTRONIX ADC., CUSTOM-DESIGNED TIME DEMUX.
HIGH PERFORMANCE IF. SAMPLING ADC. SUBSYSTEM INCLUDING 10MSPS 12-BIT ADC., TRACK-HOLD AMP. & WID
HIGH-SPEED VIDEO AMP. USING ELANTEC DISTRIBUTION AMP., TO DRIVE 6 75OHM CABLES/DIFFERENTIAL-LINE P
DIGITAL THERMOMETER USING 2 TERMINAL TEMPERATURE TRANSDUCER (SENSOR), ADC. USING DUAL SLOPE I
DIGITAL VOICE RECORD-PLAYBACK MODULE KIT WITH EXTERNAL CCT ADDED, INCLUDING DRAM. & AUDIO AMP.
LIGHT MINDER USING CMOS. TIMER & LDR., TO DETECT AMBIENT LIGHTING & AUDIBLY SIGNAL WHETHER IT IS O
HIGH SPEED, WIDE BW. AUDIO POWER METER TO MONITOR AMP. OUTPUT OR LINE LEVEL, USING PEAK DETECT
DIGITALLY-CONTROLLED PREAMP. USING BIDIRECTIONAL CMOS. COUNTER THAT DELIVERS 4-BIT OUTPUT THAT
ANGLE TRANSDUCER DRIVE & TV. MARK INSERTER, INCLUDING SYNC EXTRACTOR, RAMP GENERATOR, FRAME I
DIGITAL FREQUENCY DIVIDER NETWORK FOR DROPLET GENERATOR/ANALOG VARIABLE HV. PS. & SWITCHING M
DIGITAL CCTS OF COMPUTER-DRIVEN 8-BIT AUDIO SINEWAVE SYNTHESISER, INCLUDING PLD.S/FILTER/PLL. MUL
SIGNAL GENERATOR THAT PROVIDES 440HZ SINE WAVE AT 2 LEVELS, USING OA.S IN RECTANGULAR-WAVE GEN
HIGH STABILITY BIPOLAR PHOTOCONDUCTIVE ISOLATION AMP./UNIPOLAR PHOTOVOLTAIC ISOLATION AMP./PRE
HIGH INPUT-IMPEDANCE DIFFERENTIAL-TO-SINGLE-ENDED AMP. WITH CURRENT FEEDBACK, USING 2 OA.S & 4 R
HIGH-SPEED SERVO CONTROL SYSTEM USING SERVO DEMODULATOR CHIP (INPUT AMP.), SERVO CONTROLLER
HIGH-EFFICIENCY (>80%) BATTERY-OPERATED FLUORESCENT LAMP (TUBE) DRIVER THAT OPERATES ON HF. (50
DIGITAL EXHAUST GAS ANALYZER TO MONITOR CAR'S EMISSIONS
DIGITALLY-CONTROLLED VARIABLE DELAY FOR WINDSHIELD WIPERS
HIGH-INTENSITY-LAMP DIMMER WHOSE DUTY CYCLE IS ADJUSTED BETWEEN 20 & 100% BY PWM. CCT CONSISTI
SIGNAL GENERATOR FOR HETERODYNE POTENTIAL MODULATION DIFFERENTIATION (HPMD) USING BIFET. OA., &
SIGNAL PREAMP. (1ST STAGE) OF PREAMP. TO AMPLIFY OUTPUT OF DBM./2ND STAGE BASED ON HIGH-SPEED O
HIGH QUALITY AM. TUNER USING COMBINATION AM.-FM. IC WITH BALANCED MIXER FOR AM./TUNER USING AM.-C
REGULATED BIPOLAR +15V PS. THAT MAINTAINS EQUAL-VALUED OUTPUTS THAT TRACK REGARDLESS OF OUTP
MAGNETIC READ-HEAD PREAMP. WITH DC. COUPLING, TO REDUCE LF. NOISE BY FACTOR OF 10 & ELIMINATE CA
REGULATOR CCT WITH OUTPUTS OF 10V & 5.8V, USING OA. & TRANSISTOR, WITH 500MA CURRENT OUTPUT
DIGITAL FIBER-OPTIC LINK TO TRANSMIT HIGH-QUALITY AUDIO SIGNALS, INCLUDING TRANSMITTER USING VCO.,
HIGH-STABILITY, HIGH-LEVEL (1.3A) CURRENT SOURCE INCLUDING FAULT SENSING CCTS, LOGIC CCT, & INDICAT
REGULATOR WITH DIODE ADDED TO GIVE SMALL INCREASE IN OUTPUT/CCT WITH VARIABLE VOLTAGE OUTPUT/
DIGITAL PEAK DETECTOR TO ACQUIRE SLOW-MOVING SIGNALS (INPUT VOLTAGES) & HOLD VALUES INDEFINITE
REGULATOR CCT FOR USE AS FILAMENT-HEATER PS. IN TUBE TESTER, USING ADJUSTABLE VOLTAGE REGULAT
SIGNAL CONDITIONING CCT FOR LOAD CELL STRAIN GAUGES, USING VFC.S/10V 1.5A REGULATOR/5V 3A REGULA
10GHZ MICROWAVE BEACON SHOWING CW. ID'ER TO CONVERT EPROM. DATA TO AUDIO, USING GUNN OSCILLAT
RIGHT-LEFT INDICATOR/SIMPLE, LOW-COST PHASE DETECTOR USING TRANSISTOR INVERTER & CMOS. SWITCH
LOGARITHMIC RECORD AMP. FOR WIDEBAND COMPANDER/ANTILOGARITHMIC AMP. THROUGH WHICH SIGNAL IS
LOGIC TESTER WITH AUDIBLE INDICATOR, WITH LOGIC HIGH INDICATED BY HIGH TONE, LOW BY LOW TONE, & HI
ANGULAR-ROTATION CONTROL CCT/SERVO-MOTOR CONTROL CCT/VOLTAGE FOLLOWER-DRIVER/BRIDGE CCT/6
EDGE DETECTOR SHOWING SYNC PULSE SEPARATOR, RASTER COUNTER, DC. RESTORATION, VIDEO COMPARA
HIGH IMPEDANCE LOAD FOR SQUELCH CCT TO ENSURE AGAINST AUDIO DEGRADATION/CCT TO DRIVE TX LIGHT

REGULATOR CCT WITH 15A 115W POWER PASS TRANSISTOR, ADJUSTABLE FROM ~8V TO 30V/DARLINGTON PAIR
8 GAIN PROGRAMMABLE AMP. TO CONVERT PMT. CURRENT TO VOLTAGE, USING MUX. THAT ALLOWS ANY OF 8 P
MAGNETIC PICK-UP COIL TRANSDUCER CCT USING FERRITE ROD AS FLUX GUIDE
BUG TRACER TO FERRET OUT EAVESDROPPING DEVICES BY DETECTING RF. EMISSION/CLOSED-LOOP TRACER
DIGITAL DAYLIGHT INTEGRATOR INCLUDING SILICON SOLAR CELL SENSOR AS PYRANOMETER, USING CALCULAT
HIGH-PERFORMANCE STEREO AUDIO RECEIVER INCLUDING STEREO, BTSC & SAP DECODERS, DYNAMIC NOISE I
MAGNETIC OSCILLATOR SIMULATED FOR IDEAL, NON-SATURATING CORE & NONLINEAR FERRITE CORE
DIGITAL COLOR ORGAN
HIGH-EFFICIENCY HIGH-CURRENT REGULATOR HAVING LOW DROP-OUT VOLTAGE OF 0.7V AT 5A
HIGHLY PIPELINED UP. ARCHITECTURE INCLUDING FAMILY OF SIGNAL-PROCESSING ELEMENTS (BBB)
HIGH-PERFORMANCE CW. DEMODULATOR (CWD)
MAGNETIC PHONO PREAMP.
DIGITAL ELECTRONIC "WESTMINSTER" CLOCK
DIGITAL CAPACITANCE METER CONSISTING OF DETECTOR BUILT AROUND OA., OSCILLATOR USING TIMER, GATI
DIGITAL CLOCK-THERMOMETER & TEMPERATURE SENSOR/PORTABLE VERSION USING OSCILLATOR THAT DRAW
DIGITAL LOGIC PROBE TO CHECK INPUT OR OUTPUT STATUS OF LOGIC GATES, PROVIDING LOGIC-LEVEL INDICA
DIGITAL FREQUENCY SYNTHESIZER-PSD. BASED ON DSP. WITH 144X16 RAM., USING ROM., 8-BIT DAC., 10-BIT AD
DIGITAL FILTER CONSISTING OF ADDRESS-GENERATION & CONTROL SECTION, ARITHMETIC SECTION USING MU
DIGITAL MILLIOHMETER ADAPTER USING 2.5V PRECISION REFERENCE, OA. & REGULATOR, TO MEASURE RESIS
DIGITAL-READOUT PEAK-DETECTOR INCLUDING BUFFER, COMPARATOR, BILATERAL SWITCH, COUNTERS, BCD. I
HIGH-POWER STEREO HI-FI AUDIO AMP. USING NATIONAL SEMICONDUCTOR POWER OA. THAT PUMPS 100W RMS
HIGH IMPEDANCE COMPARATOR TO MONITOR RESISTIVITY OF DEIONIZED OR DISTILLED WATER FEED LINE, IN 5
DIGITAL TO PROCESS CURRENT-VOLTAGE CONVERTER USING 2 QUAD OA.S, 4 RESISTOR NETWORKS, DAC., VOL
HIGH-SENSITIVITY LIGHTWAVE RECEIVER USING DETECTOR TO CONVERT NIR. RADIATION INTO PHOTOCURREN
LOGARITHMIC AMP. TEST FIXTURE TO OBSERVE TRANSFER FUNCTION OF LOG AMP., INCLUDING RF. OSCILLATO
DIGITAL ALC (BBB)/DIGITAL ALC (MIKE-LEVEL AUTOMATIC DIGITAL LEVEL CONTROLLER) (ADLC) FOR AUTOMATIC
HIGH DYNAMIC RANGE AM. DETECTOR FOR USE ON IF. SIGNAL, USING COMPARATOR TO SWITCH ANALOG SWIT
HIGH CURRENT ELECTRONIC SWITCH THAT WORKS LIKE SERVO OFF RADIO SIGNALS, TO CONTROL ON-OFF FUN
LIGHT PEN DESIGN FOR APPLE II COMPUTER, USING PHOTOTRANSISTOR TO SERVE AS DEVICE'S SENSING ELEM
DIGITALLY PROGRAMMABLE PS. WITH OUTPUTS TO 14.3V AT 80MA, USING 12-BIT DAC./SAME WITH INCREASED C
REGULATED PS./CCT FOR CHARGER OPERATION/UNIVERSAL CHARGER-PS. THAT AUTOMATICALLY SETS OUTPUT
DIGITAL TALKER (STORED-WORD SPEECH SYNTHESIS SYSTEM) USING SPEECH PROCESSOR THAT READS DATA FROM
LIGHT-SENSITIVE CCTS THAT DRIVE COMMUTATION BRIDGE USING 4 VMOSFET.S THAT CHANGE DIRECTION OF C
LIGHTMETER CCT/FLASHER-SOUNDER INDICATOR
REGULATED-OUTPUT SUPPLY
DIGITAL-DELAY CCT USING RC. DELAY NETWORK THAT CHARGES IN SAME DIRECTION FOR POSITIVE & NEGATIV
SIGNAL PROCESSING UNIT USING FOOT-LOAD TRANSDUCER (FLT) (STRAIN GAUGE), GENERATING CARRIER OSC
DIGITAL THERMOMETER ADAPTER CCT FOR DMM., FOR 0-100DEG C/SAME FOR -30-+50DEG
LOGIC OF DAUGHTER CARD, TO ACCEPT & BUFFER SIGNALS FROM WIRES OF 1 CHAMBER, USING COMPARATOR
HIGH-RESOLUTION MONOCHROME CRT. MONITOR/RC. INTERFACE NETWORK TO REPLACE ACTIVE LEVEL SHIFTE
SIGNAL CONDITIONING AMP. INCLUDING VOLTAGE FOLLOWER TO MINIMIZE LOADING EFFECT ON OUTPUT OF TH
SIGNAL-CONDITIONING AMP. & THRESHOLD CCT, TO INPUTS OF WHICH OUTPUT OF STRAIN-GAGE LOAD CELL CO
DIGITAL FUNCTION GENERATOR INCLUDING SYSTEM TIMER, PARALLEL IO. INTERFACE, COUNTERS, EPROM., FF.
HIGH IMPEDANCE AUDIO BUS TO CONNECT MANY RECEIVERS TO 1 AMP./BUS TO DRIVE REMOTE SPEAKERS/VU
HIGH PERFORMANCE 1.5A BENCH PSU USING 3 TERMINAL REGULATOR IC WITH INTERNAL CURRENT LIMITER
DIGITAL IR. TRANSMITTER USING 2 OSCILLATORS/IR. TRANSMITTER USING LED. FLASHER-OSCILLATOR/IR. INTER
REGULATED, SHORT-CCT-PROTECTED 12V PS. USING VOLTAGE-REGULATOR IC & PASS-CURRENT-SENSE CCT
REGULATOR CCT WITH 12V, 5W ZENER PROVIDING OVER-VOLTAGE PROTECTION AGAINST VOLTAGE SPIKES, FC
REGENERATIVE RECEIVER THAT CAN BE SET TO RECEIVE SEGMENTS FROM 4.0 TO 26.5MHZ, USING 1 FET./AUDIO

HIGH CURRENT STABILIZING UNIT USING NOVEL CURRENT SENSING TECHNIQUE THAT KEEPS POWER DISSIPATION LOW
DIGITAL LOGIC PROBE THAT DETECTS HIGH & LOW LOGIC LEVELS, & LEVEL TRANSITIONS FOR TTL. & CMOS. IC'S
HIGH WATER SENSOR/SMOKE ALARM INTERFACE/BLOWER SENSOR/CCT TO SENSE OVER RPM. SAFE LIMIT FOR
MAGNETIC-AMP.-CONTROLLED POST REGULATOR, USING POWER POT CORE WINDINGS
SIGNAL CONDITIONER FOR THERMISTOR SENSOR, USING OA. TO CONVERT NONLINEAR RESISTANCE OF THERMISTOR
HIGH-CAPACITY SHIFT REGISTER (UP TO 16KBITS LONG) FOR OPERATION AT FREQUENCIES UP TO 12MHZ, TO IMPLEMENT
HIGH-PERFORMANCE INTEGRABLE CURRENT-TUNABLE SINUSOIDAL OSCILLATOR USING CURRENT-TUNABLE BALUN
HIGH POWER, LOW DISTORTION AUDIO AMP./HIGH-POWER PROGRAMMABLE PS./2 PHASE 60HZ AC. MOTOR DRIVE
DIGITAL CCT OF P-WAVE DETECTOR THAT OPERATES WITH LEAD II OR III OF BIPOLAR ECG. & USES Q.R.S. COMPLEX
DIGITAL CARDIOTACHOMETER TO DISPLAY INSTANTANEOUS & AVERAGE HEART-RATE OF 4 OR 8 BEATS, USING
LOGARITHMIC CONVERTER OF 2-D REAL-TIME HOMOMORPHIC FILTER, BASED ON TRANSDIODE CONFIGURATION
HIGH-SPEED GAAS. IC TEST SYSTEM THAT PROVIDES PRECISE ADJUSTMENT OF OUTPUT PULSE TRAINS AT DELAYED
HIGH-CURRENT PMT. DYNODE RESISTOR NETWORK FOR FAST APPLICATIONS/EMITTER FOLLOWER PRE-AMP. IN
SIGNAL PROCESSOR FOR THERMAL DIFFRACTION INSTRUMENT, THAT SAMPLES PHOTOMULTIPLIER CURRENT &
REGULATOR BASED ON OA. CONNECTED TO VOLTAGE-TO-CURRENT AMP., PRODUCING STABLE, LOW-NOISE ADJUSTABLE
REGULATOR USING REMOTE (KELVIN) SENSING/PARALLEL REGULATOR CCT WITH LOAD-SHARING RESISTORS
SIGNAL PROCESSING CCT (PHASE DETECTOR) THAT PROVIDES OUTPUT SIGNAL PROPORTIONAL TO PHASE SHIFT
LOGIC ANALYZER (MULTIBIT LOGIC PROBE) USING 8-BIT EQUAL-TO-COMPARATOR THAT OUTPUTS LOGIC LOW WHEN
SIGNAL PROCESSING STAGES OF PHASER IN WHICH NOTCH FILTERS SWEEP IN OPPOSITE DIRECTIONS/OSCILLATOR
LOGIC CCT THAT CONTROLS HEATER & VENT VALVE TO PRODUCE AUTOMATIC TEMPERATURE CYCLING OR HOLD
DIGITAL THERMOMETER USING FAHRENHEIT TEMPERATURE SENSOR WITH DMM. (DVM.)/OVERTEMPERATURE ALARM
HIGH-QUALITY AUDIO POWER AMP. USING JFET.S & MOSFET.S, WITH RATED OUTPUT POWER OF 80W INTO 8OHM
LOGGING SYSTEM TO MONITOR OPERATION OF FAULT-DETECTION CCTS (BBB)
LOGIC TESTER THAT INDICATES 4 LOGIC STATES, EMITTING YELLOW FLICKERING LIGHT WHEN INPUT IS OPEN-CIRCUIT
LIGHT WAND SIGNAL PROCESSOR
MAGNET SCAN GENERATOR/CURRENT STABILIZATION AMP./CURRENT PASS PEAK/CURRENT SUPPLY
HIGHLY (VERY) STABLE (100PPM) CHARGING VOLTAGE SUPPLY USING PRECISION REFERENCE SOURCE, FEEDBACK
DIGITAL DEPTH SOUNDER TO MEASURE WATER DEPTH, INCLUDING ULTRASONIC TRANSDUCER, TR., TIMEBASE
FIGE (FIELD INVERSION GEL ELECTROPHORESIS) CONTROL UNIT TO INTERFACE ELECTROPHORESIS EQUIPMENT
HIGH-PERFORMANCE VINTAGE-STYLE CRYSTAL RADIO RECEIVER
LIGHT PROBE FOR THE BLIND/LIGHT PROBE WITH HIGH-VOLUME OUTPUT/COLOR DETECTION CCT FOR URINALYSIS
HIGH-STABILITY FIELD-PROGRAMMABLE FREQUENCY TO VOLTAGE CONVERTER
REGENERATIVE & LINEAR GERMANIUM PHOTODETECTORS (2)/2-STAGE AVALANCHE TRANSISTOR MARX GENERATOR
LIGHT CHASER TO SEQUENCE TO 100 LED.S/TRF. RADIO/LIGHTS-ON SENSOR/TOUCH LAMP SWITCH/EXPANDED-SPECTRUM
DIGITAL THERMOMETER USING THERMOCOUPLES (TEMPERATURE SENSORS), 10-BIT ADC., LCD., & EPROM.S CONTROL
HIGH-PERFORMANCE, HIGH-POWER AMP. SCHEMATIC FOR 1 CHANNEL
LIGHTSAVER
DIGITALLY PROGRAMMABLE VMOS. VARIABLE RESISTOR/NIBBLE GENERATOR FOR TESTING VARIABLE RESISTORS
MAGNETOMETER
DIGITALLY-CONTROLLED POWER SOURCE WITH OUTPUT CURRENT PROGRAMMABLE IN 1MA STEPS UP TO 256MA
HIGH INPUT IMPEDANCE WIDEBAND RF. PREAMP. INCLUDING 2 STAGES OF CASCODE AMP.S, FOLLOWED BY 2 STAGES OF
BIG-DIGIT DISPLAY (LARGE 7-SEGMENT DIGITAL READOUT) CONTAINING 36 LED.S THAT MAKE UP DISPLAY SEGMENTS
HIGH-POWER DIRECTIONAL COUPLER USING DIVIDED LINE STRUCTURE TO SOLVE COUPLING RATIO, DIRECTIVITY, &
NEGATIVE CONDUCTANCE ELEMENT OF 400MHZ 2-SECTION ACTIVE FILTER WITH 3DB BW. OF 1MHZ, USING TRANSDIODE
HIGH OUTPUT IMPEDANCE RECORDING AMP. WITH WIDE FREQUENCY RESPONSE, & BETTER SNR. & LESS DISTORTION
HIGHLY RELIABLE LOW-COST SOLID-STATE ELECTRONIC VOLTAGE REGULATOR FOR CAR, THAT USES NEW IC'S
DIGITAL BICYCLE-SPEEDOMETER WITH 7-SEGMENT LED. READOUT TO INDICATE SPEED FROM 1 TO 99MI PER HOUR
DIGITAL IC TESTER FOR QUICK & ACCURATE CHECKS OF 14- & 16-PIN DTL. & TTL. IC'S/PS.
HIGH-CURRENT SOLID-STATE LATCHING RELAY

HIGH-CURRENT VOLTAGE-REGULATOR CCT WITH SHORT-CCT PROTECTION
HIGH-CURRENT PULSER FOR SOLENOIDS, THAT STORES ENERGY FROM LOW-POWER SOURCE IN CAPACITOR
LOGARITHMIC AMP. TO AMPLIFY PULSES FROM PROPORTIONAL CHAMBER, WHOSE OUTPUT SIGNALS ARE FED F
ECG., RESPIRATION, TEMPERATURE FM. TRANSMITTER (SENSOR PROCESSOR-TRANSMITTER) INCLUDING RF. O
RUGGED FOLDBACK LIMITER THAT DELIVERS 24V+-100MV AT MAXIMUM OF 4A, INCLUDING DARLINTON STAGE SE
HIGH IMPEDANCE BUFFER WITH GAIN OF 1, TO COMPENSATE FOR EFFECTS OF CABLE CAPACITANCE DUE TO G
SIGNAL-STRENGTH METER (INDICATOR) FOR AM. RADIO (RECEIVER) CONSISTING OF FET. DC. VOLTMETER CON
HIGHLY EFFICIENT & EFFECTIVE SIMPLEST REMOTELY OPERATED ANTENNA MATCHER-TUNER FOR MOBILE HF.
REGULATOR CCT
DIGITAL LOGIC PROBE USING PAIR OF COMPLEMENTARY BIPOLAR TRANSISTORS AS ELECTRONIC SWITCHES, F
HIGH-SENSITIVITY GAS & FUME DETECTOR
SIGNAL GENERATOR/SIGNAL TRACER/AF. METER/SQUARE-WAVE GENERATOR
MAGNETIC FIELD SENSITIVE OSCILLATOR
REGULATED VARIABLE VOLTAGE PS. WITH CONSTANT CURRENT
LOGIC-SIGNAL ISOLATING CCT WITH TRANSITION TIME OF 320NS
SAGE SYRINGE PUMP MODEL 341A, INCLUDING TIMING CCT THAT DETERMINES DELIVERED FLOW RATES
DIGITAL SINE WAVE VOLTAGE GENERATOR USING DAC., ROM. & COUNTER/AMP. CAPABLE OF PROVIDING TO 100
DIGITAL TTL. & DRIVER-RELAY CCT OF HEATER CONTROLLER/PS./ANALOG HEATER CONTROL CCT
SIGNAL GENERATOR TO ALIGN EDITOR/PAUSE-CONTROL CONVERTER FOR VCR. IF VCR. USES PUSHBUTTON CO
DIGITAL INTEGRATOR WITH AUTOMATIC TRIGGER CCT CONNECTED TO CCTS THAT MEASURE ASPIRATION TIME
REGULATOR NEEDED FOR PULLED-UP FIELD, MONITORING BATTERY STATE THROUGH RESISTIVE DIVIDER & CA
DIGITAL THERMOMETER USING TRANSISTOR SENSOR/5-RANGE FREQUENCY-METER/CRYSTAL CALIBRATOR/PRE
LIGHT METER USING CRYSTAL PHOTOCELL/GENERAL-PURPOSE ALARM WITH MANY APPLICATIONS DEPENDING
HIGH INPUT IMPEDANCE PREAMP.
DIGITAL READOUT/IR. CONTROL/ALARM CCT/AUTOMATED ENTRY ALARM/INSTRUMENT ALARM/IR. REMOTE CHEC
SIGNAL-GRABBER CCT (IMPEDANCE-MATCHING NETWORK)/SIGNAL BOOSTER WITH RF. GAIN OF 12 TO 18DB FRO
LOGIC-UP. CONTROL SECTION OF ICOM'S 751A
DIGITAL SINEWAVE GENERATOR WITH FREQUENCY RANGE OF 10^8 :1, USING RESISTOR NETWORK TO SHAPE 32
UNGROUND- & GROUNDED-LOAD, VOLTAGE-TO-CURRENT CONVERTERS (2)/CONVERTER TO SUPPLY LARGER
HIGH-ACCURACY PEAK DETECTOR USING OA.S, WHOSE FAST RF. JFET. ACTS AS VOLTAGE-CONTROLLED RESIS
HIGH-PERFORMANCE LF. CONVERTER
HIGH IMPEDANCE INPUT BUFFER FOR UP.-BASED DATA-ACQUISITION UNIT/INPUT MUX. & AMP., WITH INPUT FRO
DIGITAL PHASE COMPARATOR USING MECL. III & 100K SERIES ECL., INCLUDING DIODE CLIPPERS, FILTERS & DIF
MAGNETRON PULSER (BBB)/OPTICALLY ISOLATED SERIES SWITCH (1 STAGE OF HV. TRANSISTOR CASCADE WIT
HIGH-SPEED MAJORITY COINCIDENCE CCT (MCC) WITH RESPONSE TIME IN NANOSECOND RANGE, USING ULTRA
HIGH-ACCURACY, LOW-VALUE CURRENT SOURCE WITH RESOLUTION AS LOW AS 10PA, USING OA. IN FEEDBACK
REGULATOR WITH AUTOMATIC CROSSOVER, USING SEPARATE CONTROL LOOPS TO STABILIZE VOLTAGE & CUR
LOGARITHMIC AMP. FOR ABSORBANCE MEASUREMENTS USING PHOTOMULTIPLIER IN DU SPECTROPHOTOMETE
SIGNAL CONDITIONING CCTS (SCC) OF APPARATUS, INCLUDING SHUTTER COMMAND SECTION, LINE CCTS, & I-V
HIGH-SPEED LEADING-EDGE DISCRIMINATOR/START PULSE GENERATOR/MULTICHANNEL VERNIER CHRONOTRO
LOGARITHMIC ADC.
HIGH-PRECISION VOLTAGE-TO-CURRENT (V-I) CONVERTER WITH SIMPLE CONTROL OF I/OUT-V/IN RATIO, USING
HIGH SPEED, LOW CURRENT, PHOTOMULTIPLIER BASE FOR PMT. WHOSE LAST DYNODE VOLTAGES ARE STABIL
MAGNET PS. & COMPUTER INTERFACE (BBB)/HALL PROBE AMP. & PS./PROGRAMMABLE MAGNET PS./SCAN CCTS
SIGNAL CONDITIONING CCT USING OA.S, CURRENT AMP.S & IC SWITCH, FOR METAL WIRE STRAIN-GAUGE PRESS
LIGHT-EMITTER-DETECTOR CCT INCORPORATING HIGH-INTENSITY GREEN LED. & PHOTODIODE, TO FORM SIMPL
DIGITAL CCT THAT BOTH SCRAMBLES & UNSCRAMBLES AUDIO SIGNAL, USING CODEC-FILTER THAT HANDLES DI
EDGE DETECTOR CCTS FOR CREATION OF PHOTO TRANS TTL. PULSES (2)/LASER EXTERNAL TRIGGERING CCT
HIGH-PASS FILTER FOR MICROPHONE/PROGRAMMABLE AGC.ED AMP./ANTI_ALIASING FILTER/SH. 8-BIT ADC./SPEE

DIGITAL OPTION FOR LTX'S LTX77 LINEAR-DIGITAL IC TESTER, USING DUAL COMPARATOR TO SENSE VOLTAGE L
HIGH-CURRENT VOLTAGE DISTRIBUTION CCT FOR USE WITH ARRAY, WITH 4 DYNODES BUFFERED/HV. DISTRIBU
MAGNETIC FIELD SENSOR BASED ON ELECTRICALLY SMALL LOOP, COVERING FREQUENCIES FROM 1KHZ TO 200
DIGITALLY TUNED SYNTHESIZER RADIO FEATURING AM.-FM. DIGITAL-TUNING, SEEK-SCAN MODES, 5 STATION PR
HPGE DETECTOR & CHARGE-SENSITIVE PREAMP., INCLUDING POLE-ZERO CANCELLATION, DIFFERENTIATION & I
HIGH POWER, 2W VIDEO-LINK TRANSMITTER INCLUDING OSCILLATOR, DOUBLERS, 420-500MHZ AMP., POWER AM
SIGNAL GENERATOR SECTION/AUDIO AMP. FOR TRACING SIGNALS OR TESTING SMALL AUDIO GENERATOR CCT.
MAGNETIC FIELD DETECTION CCT ASSOCIATED WITH EACH OF 3 ORTHOGONAL COILS, USING 2 60HZ BANDPASS
HIGH EFFICIENCY MOSFET. POWER AMP.
SIGNAL GENERATOR
HIGH-POWER BROADBAND 300W AMP. OPERATING IN 10-TO-175MHZ RANGE, BASED ON GEMINI PUSH-PULL TRAN
HIGHLY VERSATILE SQUARE-PULSE GENERATOR (MULTIVIBRATOR CCT) WITH FULLY ADJUSTABLE PULSE RATE
HIGH-PERFORMANCE 160M CONVERTER
HIGH POWER BROADBAND UHF. AMP., USING DISTRIBUTED-ELEMENT DESIGN FOR OPTIMUM GAIN & BW.
HIGH-PERFORMANCE CRT. DRIVER/CONSTANT-CURRENT SOURCE/LOW-COST AMP./AMP. WITH CASCODE INPUT
HIGH-BRIGHTNESS LIGHT FLASHER
NEGATIVE FEEDBACK AMP. WITH SMALL RESISTOR CONNECTED BETWEEN COLLECTOR & FEEDBACK PATH, TO
LIGHT CHOPPER CONTROL CCT (BBB)/DIGITAL SYSTEM INCLUDING CCD. INTERFACE & PRINTER INTERFACE, TO
LIGHT DETECTOR CONSISTING OF BIASED PHOTODIODE MOUNTED ON RAIL OF X-Y RECORDER, WHOSE PHOTO
HIGH-SPEED SWITCHING CCT FOR PIEZOACTUATOR WITH POWERFUL CHARGING & DISCHARGING ABILITY
MAGNETIC VALVE DRIVER TO INITIATE PNEUMATIC FLOW TO CYLINDER, USING FET. AS SWITCH, & ISOLATED FR
DIGITAL THERMOMETER THAT DISPLAYS DEGREES CELSIUS OR FAHRENHEIT BY PRESCALING TEMPERATURE S
HIGH SPEED DRIVE CCT BASED ON MOS. CLOCK DRIVER WHOSE OUTPUT IS BOOSTED BY PAIR OF P & N CHANN
DIGITAL THERMOMETER USING SILICON DIODE SENSOR, WITH LINEARIZATION ACHIEVED BY MEANS OF LOOK-UP
DIGITAL ENTRY LOCK (SWITCH) (DIGITAL, COMBINATION-LOCK CCT) USING KEYLESS LOCK IC, REQUIRING CORR
HIGHLY LINEAR, LOW GAIN, WIDE BAND 100W TRANSISTOR POWER AMP. WITH COMPLEMENTARY DARLINGTON C
RAGCHEW CLIPPER TO ALERT USER OF 2M RIG THAT HE IS ABOUT TO EXCEED TIME LIMIT, USING TIMER, TRANS
HIGH-LEVEL AMP. USING TRUE DIFFERENTIAL-INPUT IC AMP., THAT PROVIDES ADJUSTABLE GAIN & ACCEPTS AU
DIGITALLY-CONTROLLED PUSH-PULL AMP. MATCHED THROUGH SERIES INDUCTOR TO ELEMENT OF 500KHZ 64-E
HIGH INPUT IMPEDANCE VALVE VOLTMETER USING DOUBLE TRIODE IN LONG-TAILED PAIR (LTP) CONFIGURATIO
DIGITAL-LOCK SECURITY (ALARM) SYSTEM WITH ADJUSTABLE ENTER & EXIT DELAYS & AUTOMATIC ALARM RES
LOGIC TO GENERATE CORRECT BUS TIMING (BBB)/CCT TO GENERATE VALID MEMORY ADDRESS STROBE (BBB)/
HIGH-POWER PULSE TRANSFORMER DRIVER WITH DIODE PROTECTION FROM LEAKAGE INDUCTANCE SPIKES/FO
35GHZ GAASFET. AMP.
REGULATED HV. PS. FOR AVALANCHE PHOTODETECTOR DIODES, WITH INDEPENDENT ADJUSTMENT OF OUTPUT
HIGH-PRECISION VFC. THAT DELIVERS OUTPUT FREQUENCIES FROM 1HZ TO 10KHZ FOR INPUT VOLTAGES FROM
DIGITAL OUTPUT TEMPERATURE-TO-FREQUENCY CONVERTER THAT PRODUCES 0-1KHZ OUTPUT IN RESPONSE
DIGITAL CAPACITANCE METER (1ST ORDER CLOSED LOOP CONTROL SYSTEM) USING SWITCHED CAPACITOR TE
DIGITALLY CONTROLLED 1-SHOT EMITTER-COUPLED MULTIVIBRATOR CAPABLE OF GENERATING PULSES OF 1N
HIGH-SIDE SWITCH THAT DRAWS <5UA WHETHER IT IS ON OR OFF, TO CONTROL 5V SUPPLY/HIGH-SIDE SWITCH
LIGHT-ACTIVATED SWITCH (LAS) TO PROVIDE TIMING PULSES TO VELA'S PULSE INPUT
HIGH PERFORMANCE BUFFERED LINE-LEVEL PREAMP. STAGE/UNITY GAIN BUFFER/VERY LOW NOISE, HIGH PERI
LOG RATIO COMPUTER USING 2 Z80 UP.S CONFIGURED AS FULL PARALLEL COPROCESSORS, TO PERFORM REA
HIGH-POWER PROGRAMMABLE CURRENT SOURCE OR SINK USING SEVERAL POWER MOSFET.S WIRED IN PARAL
HIGH-SPEED HIGH-CURRENT SWITCH
SIGNAL CONDITIONERS FOR RTD. SENSOR & THERMOCOUPLE (2)/DETECTOR/INSTRUMENTATION-TYPE AMP.S (2)
DIGITAL DELAY CARD
HIGH-EFFICIENCY LINEAR VOLTAGE REGULATOR/CCT USING SWITCHED-MODE DISSIPATION REGULATOR/CCT U
LOGIC-POWER (STEP-UP-STEP-DOWN) CONVERTER PROVIDING 3.6 OR 5V AT 200MA, INCLUDING MOSFET. SWITC

Sheet1

LOGIC VOLTAGE LEVEL TRANSLATION CCTS FOR ECL., TTL. & CMOS.(4)/CCT USING LTC1045'S MULTIPLE COMPARE
HIGH-PERFORMANCE LINEAR LOW DISTORTION WIDEBAND UNITY-GAIN VIDEO BUFFER WITH 100V-US SLEW RATE
HIGH-SPEED VOLTAGE FOLLOWER WITH FAST BUFFER IN OA. FEEDBACK LOOP, TO INCREASE SPEED WHILE MAINTAINING
MAGNETIC NERVE STIMULATOR
HIGH-POWER VHF. FET. AMP. USING RF. POWER FET., INCLUDING QUARTER-WAVE COAXIAL BALUN FOR TRANSMISSION
HIGH REPETITION RATE, HIGH DI-DT THYRATRON PULSE GENERATOR (RESONANT CHARGING CCT) TO STUDY DYNAMIC
MAGNETIC FIELD SCAN CONTROLLER CCT/EPR. ANALOG SIGNAL ACQUISITION CCT/RS-232C COMMUNICATIONS
PSG MUSIC BOARD (COMPUTER-CONTROLLED SYNTHESIZER) TO PRODUCE MUSIC & SOUND EFFECTS FOR GAMING
DIGITAL AUTOMATIC DEVICE FOR OVER-RANGE CORRECTION, INCLUDING LEVEL SHIFT - 0 DAC., UP-DOWN BINARY
9MHZ 40673 OR 3N211 MOSFET. IF. AMP. & AGC. SYSTEM
SCHOTTKY-BRIDGE CCT TO OBTAIN PRECISION HF. RECTIFICATION TO 200KHZ, WITH COMPENSATION FOR DELAY
1MHZ, 20MHZ & 4KHZ PIERCE OSCILLATORS (5)/ECL.-BASED 20MHZ PIERCE OSCILLATOR/1MHZ, 10MHZ & 0.1MHZ
SCHMITT TRIGGER OUTPUT OPTOISOLATOR/PULSE INVERTER & DRIVER, WITH DARLINGTON PAIR OPERATING AS
ETHERNET INTERFACE CONSISTING OF SEEQ ETHERNET DRIVER THAT CONNECTS TO COMMUNICATIONS CONTROLLER
SCHMIDT TRIGGER TO CONVERT SIGNAL INTO SQUARE WAVE, & INTEGRATING CCT WITH DUAL INTEGRATION PEAKING
1KHZ QUADRATURE OSCILLATOR INCLUDING INTEGRATOR, PHASE COMPARATOR, SUMMING AMP. & COMPARATOR
ETHERNET-BASED ACQUISITION INTERFACE MODULE (AIM) INCLUDING ACQUISITION PROCESSOR, COMMUNICATIONS
ITHACA AUDIO Z80 PDBIN CCT & CHANGES, REVISION 1.0
"CHERRIES-LEMONS-ORANGES" (1-ARMED BANDIT) CCT WITH 7-SEGMENT LED.S AS READOUTS, INCLUDING ASTERISK
COHERENT DOPPLER BRIDGE THAT SPANS 10.0 TO 10.5MHZ/DIVIDE-BY-P,Q NETWORK & COHERENT RAM. BUFFERED
ADH INTERFACE BETWEEN Q-BUS LINES, & CONVERTERS & CLOCKS, FOR SYNCHRONIZATION OF ADC.S & DAC.S
1MHZ CCT FOR CONVERSION OF RESIDUE NUMBER IN MODULI 15 & 16 TO BCD. NUMBER, USING RESIDUE COUNTER
60HZ PULSE BEAM DRIVER, COMPRISING PULSE TRANSFORMER & THYRISTOR TO DISCHARGE CAPACITOR INTO
SCHMITT TRIGGER OSCILLATOR/GATED OSCILLATOR TO PRODUCE TONE BURSTS/2-TONE ALARM/OSCILLATORS
2MHZ, 16MHZ & 24MHZ QUARTZ CRYSTAL OSCILLATORS WITH TTL. COMPATIBLE OUTPUTS, USING HCMOS. INVERTER
40HZ SIGNAL SOURCE THAT DRIVES AUDIO AMP. THAT POWERS DESK FAX DRUM MOTOR/136.5MHZ SIGNAL SOURCE
JOHN RUSKIN SPECIAL (6L6 RIG) USING SERIES-FED TANK CCT/LI'L BUDDY QRP (1W) TRANSMITTER USING ACOR
INHERENTLY BOUNCE-FREE KEYBOARD ENCODER FOR REMOTE-CONTROL SYSTEM, USING 4- TO 16-LINE DECODED
1MHZ CRYSTAL OSCILLATOR FOR OSCILLOSCOPE USING DISPLAY CONSISTING OF 20X20 MATRIX OF LED.S/CCT
SCHMITT TRIGGER/DOOR-BUZZER/CODE-PRACTICE OSCILLATOR/LED. FLASHER/LONG-PERIOD TIMERS WITH PERIOD
59HZ EXTERNAL BLANKING CCT INCLUDING PULSE GENERATOR & PS., THAT ALLOWS DISPLAY OSCILLOSCOPE
1-HAND KEYBOARD KEYS
BOHM STAND-ALONE EPROM. PROGRAMMER THAT PROGRAMS TYPES TO 27256, WITH ERASURE FACILITY FOR EPROMS
"CHEAP TALKER" SPEECH SYNTHESIZER FOR RADIO SHACK COLOR COMPUTER USING VOTRAX SC-01 & PIA.
SCHMITT-TRIGGER OPTOISOLATOR/LATCHING-CURRENT TESTER/POWER INVERTER'S DRIVE CCT/CCT USING PULSE
8TH-ORDER BUTTERWORTH LPF. INCLUDING RC. NETWORK TO RESTORE PERFECT DC. ACCURACY, AND LOW-CUT-OFF
75HZ BW. AUDIO FILTER USING OA. AS DUAL FEEDBACK BANDPASS AMP. WITH Q OF 10 & GAIN OF 4, & COMPARISON
1KHZ FREQUENCY-TO-VOLTAGE CONVERTER (FVC)/10KHZ FVC WITH OPTIONAL SALLEN-KEY POST FILTER/60HZ
8TH-ORDER 160KHZ BANDPASS FILTER FOR 1.6KHZ CENTER FREQUENCY, USING MAXIM SWITCHED-CAPACITOR
1MHZ FREQUENCY STANDARD/CCW. HAND KEYS (3)/LOW-POWER CCW. EXCITER-TRANSMITTER/COHERENT COUNTER
WAH-WAH PEDAL CCT CONSISTING OF LOW-COST ADD-ON 2ND-ORDER, 2-POLE ACTIVE BANDPASS FILTER USING
1MHZ CONTROL CRYSTAL OSCILLATOR, 1.5US GATE, DELAY, STROBE GENERATOR & PULSE GENERATOR/2-STAGE
SCHAUMANN'S DESIGN OF DELIYANNIS-FRIEND BIQUAD USING 1 OF MIKHAEL & NESSIM'S COMPOSITE AMP.S
4TH-ORDER CCT THAT EXHIBITS HYPERCHAOS, IN WHICH 1 SUBCIRCUIT REALIZES NONLINEAR RESISTOR & 2ND-ORDER
10HZ TO 40KHZ AF. MULTIPLIER FOR COUNTER
4MHZ OSCILLATOR/CONTROL LOGIC/AMP./RF. AMP./DEMODULATOR/SH./BANDPASS FILTER/PHASE-DOMAIN PROCESSOR
4MHZ Z80A CLOCK USING HIGH SPEED CMOS. LOGIC
1GHZ AGC. PREAMP. & PRESCALER CCT WITH GOOD (<5MV/RMS.) SENSITIVITY, WIDE (50DB) DYNAMIC RANGE &
SCHMITT-TRIGGER OPTO-COUPLER WITH CMOS.-LEVEL INPUT & ADJUSTMENT FOR DESIRED DUTY CYCLE

Sheet1

63HZ CROSSOVER CONSISTING OF 24DB-OCTAVE ACTIVE LOW PASS TO SUBWOOFER & PASSIVE RC. CCT TO MA
60HZ REJECTION FILTER/TUNABLE NOTCH FILTER-ISOLATION AMP./ECONOMICAL FILTER SYSTEM
5MHZ COLPITTS OSCILLATOR/9.2-TO-55MHZ DOUBLER-TRIPLER/RF. RECEIVER PREAMP.
ECHO-REVERB UNIT
ETHERNET CONTROLLER USING SCSI. CONTROLLER, ETHERNET CONTROLLER, 8-BIT UP. & PLD./TRANSCEIVER S
4TH-ORDER ANALOG-AMPLITUDE DISCRETE-TIME RECURSIVE COMPENSATION FILTER FOR CUK CONVERTER, US
1MHZ, 12-BIT ADC. USING SAR., DAC., PREAMP. & COMPARATOR, INCLUDING SCHOTTKY DIODES TO CLAMP VOLT
1MHZ COHERENT RECEIVER INCLUDING SIGNAL AMP., PHASE SHIFTER INCLUDING REFERENCE AMP., & 300KHZ
1KHZ GATED OSCILLATOR USING CMOS. EXCLUSIVE-OR (XOR) GATE QUAD, EASILY GATED ON OR OFF, WITH RIS
3GHZ OSCILLATOR (2)/ATTENUATOR/PREAMP. USING GAASFET./SYNCHRONOUS DETECTOR USING DIODE MIXER
8GHZ LINEAR OSCILLATOR USING FET. IN COMMON-GATE CONFIGURATION, INCLUDING 1.40PF TUNING CAPACIT
2GHZ COMMON-BASE BIPOLAR TRANSISTOR OSCILLATOR INCLUDING VARACTOR DEVICE THAT PROVIDES VARIA
PTH-2 DUAL CHANNEL TRACK-HOLD PREAMP. CARD
4TH ORDER 1KHZ BUTTERWORTH LPF./FULL-DUPLEX 300 BAUD MODEM FILTER
8TH-ORDER MULTIPLE-FEEDBACK BANDPASS FILTER/PINK-NOISE GENERATOR (2)/8TH-ORDER MODEM FILTER/SI
4TH-ORDER CHEBYSHEV BANDPASS FILTER USING SWITCHED-CAPACITOR FILTER/CHEBYSHEV HIGH-PASS FILT
1MHZ, MULTI-LOOP-CONTROLLED FLYBACK QRC (CONVERTER)/7MHZ ZVS (ZERO-VOLTAGE-SWITCHED) BUCK QR
4TH-ORDER HIGH-PASS BUTTERWORTH FILTER USING OA. AS ACTIVE ELEMENT, WITH CORNER FREQUENCY OF
4TH-ORDER ACTIVE BANDPASS FILTER USING ACTIVE FILTER IC'S/ACTIVE 3RD-ORDER ELLIPTIC CHEBYCHEV LPF
SCHEMATIC DIAGRAM OF THYRATRON SWITCHING
EXHAUST-GAS MONITOR, USING FIGARO SOLID-STATE GAS SENSOR (DETECTOR), INCLUDING TURN ON DELAY, C
5KHZ SINE-WAVE OSCILLATOR THAT OPERATES FROM SINGLE 5V SUPPLY, BASED ON MOD. GIC BANDPASS FILT
SCHMITT TRIGGER CCT TO PRODUCE TTL. PULSES FROM INTESTINAL EMG./APPLE IIE INTERFACE CCT TO PROD
4TH-ORDER CHEBYSHEV BANDPASS FILTER USING CASCADED UNIVERSAL DUAL FILTERS/LPF. CCT USING HF. D
9TH-ORDER FDNR (FREQUENCY DEPENDENT NEGATIVE RESISTANCE) 3.6KHZ LPF. IMPLEMENTING LC. DESIGN IN
6TH ORDER LPF./FILTER-DEMODULATOR STAGE/AGC. GENERATOR/GAIN-CONTROLLED RF. AMP.
PNH (PRETTY NIFTY, HUH?) PHONO CROSSOVER THAT PRESENTS GOOD RESPONSE CURVES & PLEASING SOUN
5MHZ OSCILLATOR FOR BOLOMETRY SYSTEM, INCLUDING ADJUSTABLE CAPACITOR TO GROUND TO GIVE HF. R
2MHZ VFC./HIGH-SPEED PULSE GENERATOR/LINEAR PWM.
60HZ CLOCK CCT TO DRIVE KEYBOARD INTERRUPTS IN COMPUTER/CCT SHOWING WHERE TO INJECT 60HZ SIGN
LOHMETER (OHMMETER) TO MEASURE RESISTANCES AS SMALL AS 0.001OHM WITH DMM., USING 4-TERMINAL M
1KHZ INPUT SIGNAL GENERATOR & VOLTAGE DIVIDER OF PIEZOMETRIC TRANSDUCER/RECTIFIER & LPF. OF SAM
1MHZ PWM. CONTROLLER USING OFF-LINE PWM. 2-CHIP SET INCLUDING PRIMARY-SIDE STARTUP-CONTROLLER
VEHICLE THEFT-DETERRENT DEVICE THAT DISABLES (STALLS) VEHICLE TO SIMULATE IGNITION-SYSTEM PROBL
SCHMITT TRIGGER CCT USING POSITIVE-EDGE-TRIGGERED FF.S TO SENSE DIRECTION OF INPUT VOLTAGE
4KHZ 3-STAGE ANTIALIASING SALLEN & KEY LPF. WITH BUTTERWORTH RESPONSE, USING HIGHSPEED OA.S, & B
7MHZ CLASS C AMP.
10HZ WEIN BRIDGE (LF. SINE WAVE) OSCILLATOR USING OA., WITH FET. IN FEEDBACK FOR STABILISATION
2KHZ AUDIO ALARM/SIMPLE LAMP DIMMER CCT/AUTOMATIC BATTERY CHARGER/"FLYBACK" DC.-DC. CONVERTER
1MHZ 3RD-ORDER LPF. INCLUDING 2ND-ORDER & 1ST-ORDER SECTIONS, USING COMPLEMENTARY TRANSISTOR
1KHZ ASTABLE MULTIVIBRATOR/VARIABLE MARK-SPACE GENERATOR/2-LED. FLASHER/4-DECADE GENERATOR
4MHZ OSCILLATOR/CCT SHOWING POWER-ON RESET THAT WILL AUTOMATICALLY EXECUTE PROGRAM STORED
ENHANCED IA. CONTAINING 3-OA. IA., BUFFERED COMMON-MODE VOLTAGE GENERATOR & +5V SUBREGULATED
5TH-ORDER ELLIPTIC FILTER (ANTIALIASING LPF.) TO DRIVE ADC./HIGH-Q BANDPASS FILTER/HIGH-Q NOTCH FILT
1MHZ TRANSFORMERLESS CLASS E DC.-DC. CONVERTER WITH INDUCTIVE IMPEDANCE INVERTER, USING MOSF
1MHZ STANDARD FREQUENCY DISTRIBUTION SYSTEM ON SHIELDED TWISTED PAIR, USING RS-485 DIFFERENTIAL
9MHZ HARTLEY OSCILLATOR THAT GENERATES HARMONICS TO 1GHZ/IMPROVED 9MHZ HARTLEY OSCILLATOR V
8TH-ORDER BANDPASS FILTER FOR 10.2KHZ USING LINEAR TECHNOLOGY SWITCHED-CAPACITOR BUILDING BLO
4KHZ QUARTZ-STABILIZED OSCILLATOR THAT SUPPLIES STABLE FREQUENCY OUTPUT WITH EXTREMELY LOW (<

8TH-ORDER, ELLIPTIC-FUNCTION, LPF. USING SCF/LOW-NOISE SWITCHER WITH INCREASED RISE & FALL TIMES
3MHZ 200MW TRANSMITTER FOR CONTINUOUS RUNNING/2.5W TRANSMITTER FOR PULSED OPERATION/10W TRA
4TH-ORDER TUNABLE BANDPASS FILTER ABLE TO MAINTAIN 500HZ BANDPASS OVER 5-20KHZ RANGE, CONSISTI
VEHICLE (CAR) PLUG-IN ADAPTER (VOLTAGE REGULATOR) USING ZENER DIODE, TO REDUCE 12VDC. TO 9VDC. F
TRIGGERED 2-ELECTRODE AIR GAP (HV. CROWBAR) THAT CAN SWITCH -8KV AT 300A, INCLUDING HV. PULSE GEN
SWITCHING POWER CONVERTER
2-INPUT MONITORING CCT USING MONITOR-ALARM IC, TO DETECT IF LEVEL FALLS ABOVE OR BELOW PRESET LE
PRIMARY SDLC STATION SUBSYSTEM BASED ON INTEL'S 8044 MICROCONTROLLER (8044 TO 80186 UP. INTERFAC
DRIVE & PROCESSING CCT FOR DETECTOR MODULE, INCLUDING 4 IR. EMITTERS & RECEIVERS, AND GATE, PULS
WRITE-THROUGH CACHE SUBSYSTEM INCLUDING LATCHES & REGISTERS ON MOSEL QUAD-DATA OR BURST RA
DRIVE CCT TO STEP DC. MOTOR LIKE STEPPING MOTOR BIDIRECTIONALLY (BBB)
FAILSAFE RELAY CONTROL SYSTEM FOR HEATING CONTROL, IN CASE OF POWER FAILURE
1 IC ELECTRONIC DICE
WHITE & PINK NOISE GENERATOR BASED ON DIGITAL PSEUDORANDOM NOISE SOURCE USING 2 SHIFT REGISTE
GPIB. SHARER FOR PET COMPUTERS
UNIVERSAL STABLE CRYSTAL-CONTROLLED BFO.
MAIN PROCESSOR, NUMERIC COPROCESSOR, INTERRUPT CONTROLLERS, CLOCK GENERATOR, BUS CONTROL
PRINT SPOOLER-BUFFER & AUTOMATIC T-SWITCH, USING MICROCONTROLLER, THAT HANDSHAKES WITH CENTR
1-IC UNIVERSAL LOGIC TESTER USING 6 SECTIONS OF CMOS. HEX INVERTER & LED., TO TROUBLESHOOT DIGITA
MAILBOX SENTRY THAT SOUNDS TONE & LIGHTS LED. IN HOUSE WHEN MAILBOX DOOR IS OPENED, USING QUAD
DRIVER CCT DESIGNED TO DELIVER 1 PULSE EVERY 10.8S
TRIGGERING CCT FOR AUTOMATIC 'HOLD', INCLUDING LED. TO ADJUST TRIGGERING LEVEL, TO MAKE 'ARM' DISF
THICKNESS MONITOR CONSISTING OF CRYSTAL OSCILLATOR, DIVIDER & FREQUENCY-TO-VOLTAGE CONVERTER
"PIANOMATIC" MINI PLAYER-PIANO THAT CAN STORE 2 LONG TUNES OR 4 SHORTER ONES, USING TOP-OCTAVE
GUIDANCE AID TO GIVE INDEPENDENT BLIND TRAVELLER INFORMATION RELATING TO OBJECTS IN & TO SIDE OF
COIN TOSSEY CCT USING HALF OF CMOS. IC AS CLOCK, THE OTHER AS BISTABLE MULTIVIBRATOR, THAT WORK
SWIMMING POOL-PUMP TIMER (CONTROLLER) TO RUN PUMP FOR 15, 30, OR 45MIN PER HOUR, RATHER THAN CO
SWITCHING PS. (SWITCHER) USING POWER FET.S & 24V CENTER TAPPED TRANSFORMER WHOSE PRIMARY IS U
SWITCH WITH 5MIN & 20MIN TIME RANGES SELECTED WITH PUSH-BUTTON WHICH, WHEN PRESSED 3 TIMES, SW
CCITT. V.22 INTEGRAL MODEM USING INTEL SINGLE-CHIP MICROCONTROLLER & FAIRCHILD UAV22 SINGLE-CHIP
STIMULUS ISOLATOR (HEADSTAGE) TO PROVIDE LOW CAPACITANCE BETWEEN STIMULATOR OUTPUT & EARTH,
FRINGE DETECTOR/REFERENCE LASER
QUICK SCR. MOTOR CROWBAR CCT TO PREVENT SMALL DC. MOTOR FROM COASTING & STOP (BRAKE) ROTATIO
3-INPUT NOR GATE/GATED TONE OSCILLATORS (3)/AND GATE/MAJORITY-LOGIC CCTS (2)/3-INPUT OR GATE
UNIVERSAL VERSATILE KEYBOARD EMULATOR FOR HANDICAPPED COMPUTER USERS, WITH HIGH DEGREE OF I
DRIVING CCT FOR BLINK-FIXATION LIGHTS, USING ASTABLE MULTIVIBRATOR TO GENERATE VOLTAGE PULSES O
SWITCHED-RESISTOR CCT USING CMOS. ANALOG SWITCH, INCLUDING RC. OR CR CIRCUIT, BICMOS. OA., & TIME
ORIGINAL DISCRIMINATOR FOR SP3000 TOMOGRAPH/NEW DISCRIMINATOR IN WHICH NON-UNIFORM SENSITIVITY
MCINTOSH C-8 AUDIO COMPENSATOR INCLUDING PHONO PREAMP., RUMBLE FILTER, TREBLE & BASS COMPENS
MCINTOSH C-8 PREAMP. (SERIAL NUMBER 10600 & UP)/MCINTOSH C-8 MOD. FOR REPRODUCTION OF 78 RPM. RE
TAILOR-MADE VERSATILE RTTY. CONVERTER/2 INTERFACE CCTS/PS.
UNIVERSAL EPROM. PROGRAMMER (BURNER) FOR C64 BUS, WITH PERSONALITY SOCKET FOR EPROM.S UP TO 1
GPIB. TALKER-LISTENER-CONTROLLER INTERFACE MEETING IEEE 488 STANDARDS, USING INTEL TALKER-LISTEN
MAIN AXON VOLTAGE CLAMP CCT USING OA.S, IA. & 8 POLE BESSEL FILTERS/CURRENT MEASUREMENT CCT/END
STIMULATOR TO REMIND PATIENT OF HIS NEGLECTED SIDE EVERY TIME HE USES HIS NORMAL SIDE, IN FORM O
FLIGHT TEMPERATURE MONITORING CCT USING CRYOGENIC DIODE
UNIT THAT ACCEPTS DIFFERENTIAL ECL. OR NIM LEVEL PULSES, & PRODUCES PULSES WITH FIXED SOFTWARE
CHIPS & TECHNOLOGIES CHIPSLITE CHIP SET INCLUDING CCTS TO CONTROL GRAPHICS, KEYBOARD, & IO. DEVI
TRIAC-CONTROLLED VOLTAGE DOUBLER/SCR. RELAXATION OSCILLATOR/VOICE ACTIVATED SWITCH/SCR. TIMEF

MAIN PART OF ABNORMAL TEMPERATURE DETECTING CCT USING PTC. THERMISTOR
TRIP FOR SWITCHING POWER TRANSISTORS
VOICE PROCESSOR FOR DIGITAL TELEPHONE
UNITY-GAIN ACTIVE PROBE WITH INPUT IMPEDANCE OF 10MOHM SHUNTED BY A FEW PICO FARADS, TO DRIVE LOGIC
TRIGGERING CCT FOR TRANSIENT RECORDER DERIVED FROM MAINS SUPPLY TO TRIAC CCT SWITCHED BY CAM
TAIL PULSE GENERATOR WITH REPETITION RATE FROM 10 PPS TO 100KPPS, WITH AMPLITUDE SETTABLE WITH 1
NOISE GENERATOR TO SIMULATE NOISY ENVIRONMENT, FEATURING SURGE VOLTAGE OF 700V, DOUBLE PULSE
TRIPLER/CCT TO PROVIDE SELECTABLE FREQUENCY OFFSET/DETECTOR/ACTIVE FILTER/RF. VOLTMETER/BREAK
WAIT STATE GENERATOR (WSG) THAT GENERATES VARIABLE WAIT STATES DEPENDING ON BUSY-BAR SIGNAL F
BRIDGE AMP. OF MUTUAL INDUCTANCE BRIDGE TO MEASURE MAGNETIC SUSCEPTIBILITY/TUNED AMP. CONTAIN
QUICK & SIMPLE MEMORY EXPANSION FROM 256K TO 768K FOR SANYO MBC-550-555 PC. (BBB)
TWIN RELAY OUTPUT PORT FOR ZX81 COMPUTER TO GIVE MORE CONTROL OVER CASSETTE RECORDER VIA CA
DRIVER USING 1 J-K FF. AS GATED DIVIDER, TO REDUCE PHASE JITTER & RESULTING PHASE MODULATED SIDEB
UNIVERSAL DIGITAL FREQUENCY DISPLAY USEABLE WITH ANY MODERN TRANSCEIVER/INPUT & CONTROL LOGIC
TRIPPLICATED SERIAL DATA SYSTEM USING 3 TWISTED PAIRS
2 IDENTICAL UP. CCTS INTERFACED TO COMMON BUS, WITH 1 MICROCONTROLLER AS BACK-UP CCT (BBB)
COIN FF. SIMULATOR ILLUSTRATING OPERATION OF JK FF.
COINCIDENCE CCT FOR FACSIMILE
"LIGHT-ACTIVATED" TIMER WHOSE OUTPUT IS 100KHZ PULSES WHEN PHOTOTRANSISTOR (PHOTO-DARLINGTON)
HEIGHT-SENSING & PHASE-SHIFTING CCT TO SENSE OBJECT HEIGHT, WITH GAIN & PHASE CONTROL/TIMING & F
ARITHMETIC PORTION OF PRE-PROCESSOR TO ANALYZE SCATTERING ANGLES, INCLUDING FULL ADDER, COMP
TRI-STATE LED. DEMONSTRATION CCT/CCT USED TO CALCULATE NEEDED RESISTANCES
ALIGNMENT & CALIBRATION CCT
WHITE-NOISE GENERATOR (NOISE MAKER)/TRANSISTOR SWITCH FOR KEYING NOISE MAKER FROM RECEIVER S
GLITCH FINDER USING 74121 WIRED AS 1-SHOT, TO RESPOND TO GLITCH THAT IS ONLY A FEW NANoseconds V
2-INVERTER FF./2-BIT COUNTER/4-BIT COUNTER
GLITCHLESS TTL. ARBITER IN WHICH 1ST INPUT SIGNAL TO ARRIVE PASSES TO AN OUTPUT
TRIAC AC. VOLTAGE CONTROL UNIT/TRIAC LIGHT DIMMER CCT
FRINGE-COUNTING CCT TO CONVERT ANALOG SIGNAL INTO TTL. DIGITAL SIGNAL, TO BE REGISTERED BY DIGITA
SWITCH DEBOUNCER COMBINED WITH AUTO-REPEAT FUNCTION & LED. BAR GRAPH, THAT GENERATES STREAM
SWITCHING CCT CONTROLLED BY EPSON SOFTWARE, TO OVERCOME PROBLEMS OF ACTIVATION OF EXTERNAL
TRIGGERED CLOCK GENERATOR TO GENERATE STABLE LINE-LOCKED SAMPLING CLOCK IN VIDEO FRAME STOR
NOISE GATE THAT PASSES POISSON DISTRIBUTED (DATA) PULSES & CUTS OFF NOISE BURSTS, USING TTL. MON
MAIN LOGIC BOARD OF ELECTRONIC COMBINATION LOCK/IR. DETECTOR-AMP. (SENSOR-AMP.) ARRAY USING 8-P
GLITCH-STRETCHER CCT THAT, INSERTED BETWEEN PROBE TIP & SCOPE INPUT, MAKES NARROW TTL. GLITCHE
TRIGA BOARD USING XILINX XC2064 CMOS. PROGRAMMABLE GATE ARRAY (PGA) MICROCHIPS THAT PROVIDE C
PRINTER MINDER THAT CONTROLS FLOW OF DATA & AC. POWER TO PRINTER, TURNING PRINTER OFF AFTER 1H
TRISTABLE MEMORY ELEMENT USING 3 2-INPUT OPEN-COLLECTOR NAND GATES/QUADRISTABLE MEMORY ELEM
1-IC LOGIC ANALYZER/CCT SHOWING METHOD TO DISPLAY DATA FROM 1-IC LOGIC ANALYZER
TRIGGER CCT THAT GENERATES 6 EQUIDISTANT PULSES, USING DIVIDER-BY-6 COUNTER & GATES, & VCO./CCT
MAIN PART OF SELF-ADJUSTABLE PRE-EVENT PULSE GENERATOR, INCLUDING CLOCK CONTROLLER & COUNTER
DRIVE SIGNAL GENERATOR OF SQUARE-WAVE AC. CURRENT GENERATOR OF SQUARE-WAVE AC. SOURCE, INCO
GPIO DIGITAL INTERFACE TO ANALOG MUX., TITRATOR & SOLENOID VALVE, INCLUDING STEPPING MOTOR CONT
ARITHMETIC FUNCTION MODEL USING EVANS 4122 RATIO METER & OA./DISCRETE TTL. SCANNING CONTROL FOR
DRIVER FOR STEPPER MOTORS, CONSISTING OF 2 FF.S, 2 XOR (EXCLUSIVE-OR) GATES & 4 DARLINGTON POWER
NOISE-MUTING CCT TO MUTE AUDIO PATH DURING NOISE-PULSE INTERVAL PRODUCED BY LINE-OPERATED DEV
SWITCHED-CAPACITOR VOLTAGE CONVERTER THAT OUTPUTS 12V AT 12MA FROM 5V INPUT, USING 10KHZ CLOC
CCII+ PORTION OF WIEN-BRIDGE OSCILLATOR CCT WITH LOW SENSITIVITY CHARACTERISTICS, & MINIMUM NUMB
SWITCHING CCT TO PERMIT READING TO BE TAKEN FROM 2 ELECTROBALANCES ON SINGLE INPUT CHANNEL

BRIDGE & FEEDBACK CCT OF POWER METER, INCLUDING RF. HEAD (CONTAINING THERMOMETERS & AUXILIARY
SHIFT REGISTER WHOSE LENGTH CAN BE VARIED FROM 1 TO 64 BITS
SUITABLE CLOCK/CCT FOR CONNECTING UART. TO IO. PORTS OF EXISTING MICROCOMPUTER DEVICE
MAIN CONTROL BOX OF BURGLAR ALARM/PS./ALARM SOUNDER/EXPANDED CONTROL CCT/EXPANDED PSU & RE
MAIN CLOCK MODULE OF DIGITAL PULSE PROGRAMMER CAPABLE OF GENERATING MAJOR SEQUENCES FOR PU
UNITY GAIN INVERTER USING LOW DRIFT, HF., FAST SETTling VIDEO AMP. WITH STABLE DC. CHARACTERISTICS
NOISE TEST MODULE TO MEASURE WORST-CASE CROSSTALK & GROUND NOISE/TEST CCT USING FERRITE BEA
UNIVERSAL AMP. STAGE THAN CAN PROVIDE WIDE RANGE OF POSITIVE OR NEGATIVE GAIN, USING MATCHED P
URINARY MEASURING & SAMPLING EQUIPMENT CCT USING LED.S, LIGHT-ACTIVATED SWITCHES, & RELAYS THAT
QUICK-RESPONSE AUDIO AGC. CCT WITH DISTORTIONLESS OUTPUT FOR DYNAMIC RANGE OF 20MV TO 20V INPU
DRIVER AMP. DRIVING EXTERNAL MOSFET.S/WIDEBAND AMP. FOR BOOSTING CURRENT/CURRENT BUFFER
FAIR-TO-GOOD, SIMPLE & CHEAP 1-CHIP KEYER CCT BUILT AROUND QUAD NAND GATE THAT FORMS 2 INDEPEN
SWITCHBOARD CCT COMPRISING ORIGINATOR, INTERNAL CONTROL, RECALL & ENGAGED-DIAL-TONE OSCILLAT
SWITCHING CCTS OF CB. KEYER TO TEST MODULATION & RF. TRANSMITTER SECTIONS OF RADIO TRANSCIEVER
DRIVER CCT FOR 2 LED.S THAT GENERATE SENSING & REFERENCE SIGNALS, TO PRODUCE MODULATION SIGNA
DRIVING (CONTROL) CCT CONSISTING OF ASTABLE MULTIVIBRATOR INITIATING PERIODICAL BEAT, & MONOSTAB
MAIN BOARD/PS. BOARD/TELEPHONE-LINE INTERFACE/NOTCH FILTER/SIGNAL LEVEL (VU METER) CCT
CLIPPER CCT/A QUAD B COUNTER/DAC.
UNIVERSAL TRI-STATE TONE GENERATOR/PROGRAMMABLE 4-STATE TONE GENERATOR
BLINKING SEQUENCER USING CMOS. DECADE COUNTER-DIVIDER & CMOS. OSCILLATOR-TIMER, OF FLASHING LI
PRINTER SENTRY TO MONITOR & DISPLAY ALL HANDSHAKING LINES (SIGNALS) ON PARALLEL INTERFACE, USEF
GEIGER COUNTER USING HEX INVERTER, OSCILLATOR-TIMERS, TRANSISTORS & GEIGER-MULLER (GM) TUBE, TO
NOISE-LIMITER FOR HIGH LEVEL SIGNAL/NOISE-LIMITER WITH PRE-AMP., FOR LOW LEVEL SIGNAL/NOISE-LIMITE
UNIVERSAL KEYER MOD. CCT
GUITAR PREAMP./TRANSISTOR AMP./FUZZ UNIT FOR ELECTRIC GUITAR/MINIATURE POWER AMP.
GUITAR FUZZ BOX THAT PULSES IN STEP WITH PEAKS/INSTRUMENT PREAMP./PORTABLE AMP. FOR WALKMAN
TRIGGER UNIT OF SPARK GAP SWITCH, CONSISTING OF TRIGGERABLE SPARK GAP, CAR IGNITION COIL TO STEP
TRIANGULAR-PULSE GENERATOR WHOSE DUTY CYCLE IS INDEPENDENT OF REPETITION RARE, DRIVEN WITH FF
TRIANGLE-SQUAREWAVE OSCILLATOR/FREQUENCY TO VOLTAGE CONVERTER/SIREN SOUND GENERATOR/OSCI
DRIVER STAGE OF PHASOR PROPERTY GUARD (PROPERTY- OR HOME-PROTECTION DEVICE), USING 2 TIMER IC
ORIGINAL & MOD. CCTS OF TNC.-CONNECT-ALARM CCT, WITH MOD. TO TRIGGER RELIABLY (QST8802)
UNIVERSAL BATTERY CHARGER THAT CHARGES BY USING HIGH CURRENT PULSES, USING TIMER WITH ADJUST.
TRIGGER CCT OF THYRISTOR CHOPPER FOR SPEED CONTROL OF DC. MOTORS, FOR GENERATING FIRING (SEQ
MAIN UNIT OF SD-11 CONTROLLER THAT CONSITUTES CONTROL CENTER OF SYSTEM DURING DATA ACQUISITIO
SWITCHING MECHANISM FOR LOW-PASS ASSEMBLIES/BANDPASS BANKS/TRANSCIEVER'S DIGITAL CONTROL (DE
SHIFT REGISTER, LED. DISPLAY & CONTROL CCT OF BITCHASER DIGITAL MEASURING DEVICE/TIME BASE CCT US
UNIPOLAR-TO-BIPOLAR CONVERTING AMP. TO MAKE VOLTAGE FROM KEITHLEY 427 CURRENT AMP. COMPATIBL
SWITCHING CCT USING 555 TIMER IC
TRIGGERED-SWEEP CCT FOR OSCILLOSCOPES, USING CONSTANT-CURRENT SOURCE & TIMER, TO EXPAND WAY
GRID-DIP METERS USING VACUUM-TUBE, TUNNEL DIODE, JFET., N-CHANNEL IGFET. (MOSFET.) & DUAL-GATE IGF
2-IC CASCADED PROGRAMMABLE DOWN-COUNTER/PROGRAMMABLE TIMER/CCT USING BCD.-TO-7-SEGMENT LA
BUILDING BLOCK IO. PROCESSOR SUBSYSTEM
BRIDGE THAT MEASURES DIFFERENCE BETWEEN TUNNELING SPECTRA OF DOPED & UNDOPEJUNCTIONS, INC
NOISY WAR GAME CCT FOR TRS-80 COMPUTER
EXIT-DELAY CCT/LIGHT-DEPENDENT SENSOR USING LDR.S/BRIDGING TOUCH-PLATE SENSOR USING 2 TONE DE
FAILSAFE LOAD RELAY (FREQUENCY SWITCH) USING DUAL OPTOCOUPLER & TONE DECODER/MESDIS CPU. (MIC
QUICK- & SLOW-RATE AC.-DC. CHARGER FOR KENWOOD PB-21 BATTERY PACK, USEABLE FOR ALMOST ANY HAN
QUICKY TELEPHONE-LINE TESTER
TRIGGERING PULSE GENERATOR

MAIN DECODER CCT/DISPLAY CCT/PS. CCT
CRID HYBRID AMP. INCLUDING PREAMP. USING LOW-NOISE JFET., & IC CONSISTING OF GAIN SELECTABLE AMP.,
SWITCHING REGULATOR OPERATING WITH 12V INPUT & PROVIDING 28V OUTPUT TO DRIVE TR. RELAY/HIGHER P
UNITY-GAIN, 1KHZ CUT-OFF, 2 POLE BUTTERWORTH LPF. USING OA.
UNIVERSAL NICD. BATTERY CHARGER TO PROVIDE CONSTANT CURRENT SOURCE FOR BATTERIES UP TO VOLT
"DIGI-TOLL" DIGITAL TIMEKEEPING ACCESSORY FOR TELEPHONE, THAT DISPLAYS TIME OF DAY & ELAPSED-TIME
TRIANGLE WAVEFORM OSCILLATOR THAT ALLOWS INDEPENDENT ADJUSTMENT OF UPPER & LOWER PEAK VOLT
DRIVE CONTROL FOR 4-PHASE STEPPER MOTOR, WITH TRACKING, GUIDING & SETTING RATES/CCT SHOWING M
DRIVING CCT OF CCD. SINGLE-LINE IMAGE SENSOR ARRAY (SENSOR CHIP WITH 2048 PHOTSENSING ELEMENT
DRIVER CCT TO EXCITE MODE OF VIBRATION THAT IS FUNDAMENTAL LONGITUDINAL MODE OF DISC TRANSDUC
UNITY-GAIN VOLTAGE FOLLOWER (BUFFER) USING VIDEO OA./600OHM-INPUT DIFFERENTIAL AMP./MUX. VIDEO S
MAIN BOARD OF AUDIO SWEEP-MARKER GENERATOR, INCLUDING DAC. & FUNCTION GENERATOR/COUNTER & P
SWITCHING-REGULATOR (DC.-DC.-CONVERTER) CCT TO CONVERT DC. INPUT AS LOW AS 1.5V TO TO HIGHER RE
DRIVING SIGNAL NETWORK INCLUDING ISOLATION STAGE, TUNED AMP. & OUTPUT BUFFER AMP./FREQUENCY D
EMITTER TEMPERATURE REGULATOR (ETR) (REGULATED PS.) TO PROVIDE CONSTANT REPRODUCIBLE TEMPER
DRIVER CCT/DETECTOR CCT FOR "STEER-ON-HEADING"/TWIN SENSOR CCT/ANALOGUE 72-POINT COMPASS/DIGI
SWITCHING REGULATOR TO STEP UP SINGLE ALKALINE CELL TO GIVE FIXED +5V OUTPUT AT 50MA, USING MAXI
DRIVE CCT FOR LARGE LCD.S WITH LARGE CAPACITANCE BETWEEN COMMON & SEGMENT ELECTRODES, USING
SWITCHING-REGULATOR CCT WITH INDUCTOR ON LINE SIDE, & POSITIVE RAIL COMMON TO INPUT & OUTPUT, DE
UNIVERSAL 4-CHANNEL MATRIX DECODER
TRIGGERED FLASH UNIT
UNITY GAIN INDICATOR (LEVEL DETECTOR FOR AUDIO APPLICATIONS)
SWITCHING REGULATOR USING DIODE-CAPACITOR NETWORK IN PLACE OF INDUCTOR, DERIVING 12V AT 2MA FF
MAIN AMP. INCLUDING INPUT CCT CONSISTING OF 2 DIFFERENCE AMP.S, & SWITCHED ANALOG MUX. TRIGGERE
STIMULUS-MEASUREMENT UNIT (SMU) CONTAINING VOLTAGE CONTROLLED CURRENT PUMP, HIGH IMPEDANCE
DRIVING CCT OF MOTOR, CONSISTING OF OSCILLATING CCT WITH WEIN BRIDGE, TO VARY HEATING RATE TO OB
SWITCHING PS. RIPPLE ATTENUATOR THAT ATTENUATES 20KHZ RIPPLE BY >30DB
GLITCH-FREE AMP.-CLIPPER USING HARRIS HIGH-SPEED OA. & SIMPLE RESISTOR-DIODE CLAMPING NETWORK C
TRIPLE-OUTPUT DC.-DC. CONVERTER TO CONVERT 12V OUTPUT OF LEAD-ACID BATTERY TO ISOLATED +-15V & M
DRIVER FOR ACOUSTO-OPTIC TUNABLE FILTER, INCLUDING 8 CHANNEL ANALOG MUX./DRIVER WITH FEEDBACK
TRIPLE AUDIOVISUAL SWITCHER USING HITACHI CHIP TO SELECT VIDEO & 2-CHANNEL STEREO AUDIO FROM 2 C
DRIVEN PIECEWISE-LINEAR CCT INCLUDING PIECEWISE-LINEAR RESISTOR, OSCILLATORY COMPONENTS & DISS
BRIDGE MULTIVIBRATOR WITH BIPOLAR OTA., PROVIDING SYMMETRICAL OSCILLATIONS WITH 50% DUTY CYCLE.
POINT-ON-SUPPLY VOLTAGE WAVE SWITCHING CCT USING MULTISTAGE ZERO CROSSING DETECTOR (ZCD), OF
TRICKLE-CHARGING SYSTEM MONITOR
VOICE-DATA SWITCH & PHONE USING MASTER & SLAVE CHIPS WITH TRANSCEIVER FUNCTIONS, WITH AUDIO AP
STIMULUS-START SYNCHRONISING CCT/STIMULUS DURATION TIMER/SWITCH CONTROLLER/RAMP TIMER (BBB)/S
DRIVER (PULSE AMP.) OF 8088 UP.-BASED SELF-ADJUSTING SYSTEM INCLUDING 8255 PPI., ZCD.S & TRIAC, TO AM
SWITCHING TRANSISTOR & INDUCTOR COMBINATION TO REDUCE CURRENT DRAIN OF PILOT LIGHT OR LED.
STIMULATOR CONSISTING OF PULSE GENERATOR (USING CMOS. TIMING DEVICES), WAVEFORM SHAPER, & EXT
SLIC. SYSTEM THAT PROVIDES 2-WIRE TO 4-WIRE SINGLE-ENDED SIGNAL CONVERSION, BATTERY FEED, OVERV
STIRRING MECHANISM CCT INCLUDING RELAXATION OSCILLATOR & PULSE TRAIN GENERATOR-DRIVER/ADC. CC
MAINS MODEM INTERFACE/MAINS CONTROL/RECEIVER FOR MAINS CONTROL/INDUCTION LOOP RECEIVER/NOISI
UNIVERSAL RTTY. CURRENT-LOOP INTERFACE
WHITE-PINK NOISE GENERATOR
SWITCHING REGULATOR TO GENERATE 5V FROM CAR BATTERY, TO POWER BBC MICRO, WITH EFFICIENCY OF >
DRIVEN-RIGHT-LEG CCT FOR USE WITH BIOPOTENTIAL DIFFERENTIAL AMP.S TO REDUCE COMMON MODE VOLTA
TRIAC TEST CCT TO TRIGGER TRIAC USING RAPID SEQUENCE OF UNIDIRECTINAL & BIDIRECTIONAL PULSES WIT
SWITCHING REGULATOR USING PWM. CONTROLLER & EFFICIENT N-CHANNEL MOSFET. SWITCHING TRANSISTOR

VOICE-OPERATED SWITCH USING VOICE (VOICE) RECOGNITION CHIP (SPEAKER-INDEPENDENT WORD RECOGNITION)
SWITCHING PS. (BUCK CONVERTER) THAT CONVERTS UNREGULATED 12-18VDC. INPUT TO REGULATED 5VDC. OF
STIMULATOR/EEG. FM. TRANSMITTER/STIMULUS CONTROLLER
SWITCHING REGULATOR CCT USING RAYTHEON MICROPOWER INVERTING SWITCHING REGULATOR WITH ONCH
VOICE OUTPUT UNIT USING VOTRAX SINGLE-CHIP CMOS. SPEECH SYNTHESIZER THAT CONTAINS CCT TO GENERATE
NOISE BLANKER THAT PLACES DIODE SWITCH (TURNED ON & OFF BY SCHMITT TRIGGER) IN RF. PATH OF MOD. C
SWITCHMODE VOLTAGE CONVERTER WITH SWITCHING FREQUENCY OF 18KHZ, INCLUDING POWER STAGE
SWITCHING PS. TO CONVERT 48V INTO 5V DC. AT 20A, OPERATING AT 1MHZ
FEIGENBAUM MACHINE USING 2 ANALOG TRANSCONDUCTANCE MULTIPLIERS, 2 SH. CCTS & RAMP GENERATOR,
SWITCHED-CAPACITOR FILTER TO REMOVE SWITCHING NOISE FROM CODEC SIGNALS, FEATURING DIGITAL AGC
DRIVER BOARD FOR CCD. WITH 1728 IMAGING ELEMENTS, USING LOW-POWER SCHOTTKY (LS) TTL. IC'S TO GENERATE
GPIB. INTERFACE & EPROM. OF CCT IN STEPPER MOTOR CONTROLLER BOX OF UP.-BASED MOTORIZED POSITIONING
UNIVERSAL CURRENT SOURCE & SINK
ARITHMETIC UNIT (AU) (BBB)/BINARY TO BCD. CONVERTER CCT, INCLUDING ZERO LOGIC DETECTOR/FREQUENCY
SWITCHED MEMORY DECODING UNIT TO BE USED WITH SINGLE-BOARD TARGET MPU. SYSTEM BASED ON MC68000
ORIGINAL MEAN-LEVEL AGC. CCT USED IN PYE 11U SERIES RECEIVERS/SUGGESTED SYNC-TIP AGC. CCT FOR USE IN
VOICE-RECOGNITION CCT USING SPEAKER-INDEPENDENT WORD RECOGNIZER (MASK-PROGRAMMED 6804 UP.)
GUITAR TREBLE BOOSTER/AUDIO PREAMP./AUDIO MIXER CCT/GUITAR PREAMP.
DRIVING CCT FOR LINEAR IMAGE SENSOR (FOR GENERATION OF CLOCK PULSES, TRIGGER PULSE (SH), & RESET
VOIDING ALARM USED IN WHEELCHAIR OR BED WITH PATIENT HAVING EXTERNAL URINE COLLECTION SYSTEM,
DRIFT TIME AMP. DISCRIMINATOR WHOSE OUTPUT WIDTH IS PROPORTIONAL TO TIME OVER THRESHOLD (2)/DELTA
2-IC CCT THAT GENERATES 200 TO 300NS STROBE PULSE WHEN DATA CHANGES ON 4-BIT BUS
GRID DRIVER CCT INCLUDING HIGH SPEED COMPARATOR, RC. INTEGRATOR, LINE RECEIVER & ULTRA HIGH SPEED
STIMULATOR THAT IS OPTICALLY COUPLED WITH LED., OPTICAL FIBRE & PHOTOTRANSISTOR, INCLUDING DARLINGTON
SWITCHED-CURRENT REGULATOR ABLE TO CHARGE ANYWHERE FROM 1 TO 10 1.5V AA NICKEL. CELLS WITH 5.22V
VOICE-DATA DIGITAL TELEPHONE SET & PBX. LINE CARD, TO ENABLE VOICE & HIGH SPEED DATA TRANSMISSION
PRINCIPLES OF CONVERSION TECHNIQUE
DRIVER THAT ACCEPTS TTL. THRESHOLD VOLTAGES & SWITCHES GAAS. MMIC. IN 15 TO 20NS, USING QMOS. HEAD
MAIN DETECTOR HEAD AMP./50KHZ BANDPASS AMP./CD (CIRCULAR DICHROISM) CHANNEL DIVIDER/BACK-OFF A
BRIDGE CCT USING LOAD CELL/CCT USING CMOS. ANALOG LATCHING SWITCH TO REGULATE GAIN RANGES OF
SWITCHED-THERMISTOR PWM. PSYCHROMETER USING RCA CMOS. UP. THAT SELECTS WHICH TEMPERATURE IS
TRIANGULATED WAVEFORM GENERATOR FOR CYCLIC VOLTAMMETRY AT MODERATE SCAN RATES, USING 3 O.A.S.
TRIAC-BASED FIRING-ANGLE CONTROLLER USING OPEN-LOOP CONTROLLER, FOR SLIDE VIEWER USING 2 1133
UNIT TO CORRECT FOR GRAPH DISPLACEMENT DUE TO MECHANICAL SHORTCOMINGS IN MULTICHANNEL STRIP
NOISE-REDUCING & HEARING-PROTECTOR CCT FOR USE WITH RECEIVERS, USING 2 GERMANIUM BACK DIODES
SLIDE ADVANCE UNIT TO REMOTELY ADVANCE SLIDE PROJECTOR, USING TONE ENCODED ON 1 CHANNEL OF TA
TRIAC POWER CCT CONTROLLED BY LOGIC-LEVEL SIGNAL, INCLUDING DIAC/ENHANCED CCT THAT SUPPLIES 3 P
CLIPPING CCT WHOSE 2 LIMITING LEVELS CAN BE ADJUSTED INDEPENDENTLY & NEEDN'T HAVE OPPOSITE POLA
UNITY-GAIN BUFFER WITH DARLINGTON-CONNECTED OUTPUT TRANSISTORS (3)/IMPROVED BUFFER/BUFFER WITH
QUICK-&-DIRTY DATA INTERFACE ("QADDI") THAT USES SERIAL PORT TO READ ANALOG & DIGITAL SIGNALS INTO
UNIVERSAL UP. BASED CONTROLLER TO ACTUATE ELECTROMECHANICAL VALVE REPLACING HYDRAULIC CONT
TRIGGERED PHASE-LOCKED OSCILLATOR THAT ACHIEVES PHASE SYNCHRONIZATION WITH EXTERNAL PULSE
SHIFT-REGISTER DELAY-LINE CCT USING DIGITAL TECHNIQUES TO DELAY ANALOG WAVEFORMS, USING ADC., O
DRIVE CCT OF DIGITAL GENERAL PURPOSE POWER CONTROLLER BASED ON PLL. PRINCIPLE, TO DRIVE THYRIST
SWITCH BOARD USING 7-SEGMENT LED. DECODER WHOSE DISPLAY STATE DETERMINES WHICH OF SYNTHESIZER
BRIDGE OF COMPUTER-CONTROLLED SYSTEM, TO MEASURE ELECTRICAL RESISTIVITY OF SAMPLE, INCLUDING
PHILIPS-MAGNAVOX NEW CD. 16-BIT DAC. STAGE/NEW CD. ANALOG STAGE/CCT THAT CLOSELY APPROXIMATES
MAIN DIGITAL SECTION OF CAMAC FUNCTION GENERATOR, INCLUDING 12-BIT DAC., REGISTERS & UP-DOWN CO
UNITY-SCALED MULTIPLIER/DIFFERENCE-OF-SQUARES CCT USING FEEDBACK ATTENUATION/WIDE-BAND RMS.-T

Sheet1

MAIN SERVO-CONTROL CCT INCLUDING SLEW-RATE LIMITER, STEPPER CONTROLLER (DRIVER) & VFC., & STATIC PPI. SELECTION CCT/ANNUNCIATOR/STATUS CCT/SWITCH-ALARM CCT

3-IC AUTOMATIC TESTER THAT INTERFACES TO ESSEX TINY BASIC COMPUTER, ALLOWING COMPUTER TO PERFORM NOISE MODEL SHOWING PRECISION LOW-NOISE OA. DRIVING AD676 16-BIT ADC./NEAR-IDEAL ADC. VOLTAGE REGULATOR DRIVE CCT FOR BIPOLAR SMPS. TRANSISTOR/SAME FOR POWERMOS. TRANSISTOR/EVALUATION BOARD FOR SWITCHED-CAPACITOR UNITY-GAIN VOLTAGE FOLLOWER/UNITY-GAIN INVERTERS (2)/CCT WITH CLOSED-LOOP GAIN >10/FAST-SETTLING UNIPOLAR FORM OF ADC. FOR CONNECTION TO BBC USER PORT

VOICE EFFECTS PROCESSOR THAT CAN GENERATE UNUSUAL AUDIO EFFECTS, INCLUDING DSP. UP., CODEC, EFFICIENCY, UNITY-GAIN 1ST-ORDER ALL-PASS NETWORK SHOWING SWITCHED RESISTOR FOR FREQUENCY SELECTION & BANDWIDTH CONTROL. CHIP SET INCLUDING 32-BIT UP. (CPU.), MMU-DATA CACHE, DMA. & DRAM. CONTROLLERS & MAU (MATH ACCELERATOR) NOISE IMMUNE CCT USING 555 TIMER IN WHICH SUPPLY VOLTAGE & TRIGGER PULSE ARE CONDITIONED

TRIGGERING CCT FOR CONTROLLING 3-PHASE SCR. BRIDGE INVERTER, USING TIMER IN ASTABLE MODE PRODUCE SQUARE WAVE

SPINNING WATER FILM POWER METER FOR HIGH-POWER CW. LASERS (CALORIMETER)

SWITCHING CCT OPERATED BY AUDIO TONE FROM RECEIVER/FM. WIRELESS MICROPHONE CCT (TRANSMITTER) & RECEIVER

MAINS SIGNALLING TRANSRECEIVER CONSISTING OF TRANSMITTER & RECEIVER, MOST OF WHOSE FUNCTIONS ARE IN IC'S

PHILIPS CD 303 CD. PLAYER ANALOG OUTPUT SECTION INCLUDING DAC./CD. AMP. (3)/CCT SHOWING CD 303 MUTING & PAUSE

1MIN, 40S TIMER CCT TO INSTALL IN MICROPHONE, TO AVOID ACCIDENTALLY TIMING OUT REPEATER, INCLUDING TRIGGERING

DRIVE CCT FOR PHILIPS MAGNETORESISTIVE (MAGNETIC FIELD) SENSOR IN WHEATSTONE BRIDGE CONFIGURATION

PHILIPS-MAGNAVOX CDB-650 CD. PLAYER ANALOG STAGES, INCLUDING CURRENT-TO-VOLTAGE CONVERTER & FILTER

ORIGINAL & REVISED OUTPUT CONFIGURATIONS FOR CD. PLAYER (2)/CCTS SHOWING PS. CONNECTIONS TO OA. & FILTER

TRIGGER CCT OF TRIGGERED SPARK GAP SWITCH FOR HIGH-CURRENT FAST DISCHARGE SYSTEM, USING 2 IC'S

SWITCHED CAPACITOR BANDPASS FILTER WITH INDEPENDENTLY CONTROLLABLE SELECTIVITY & CENTRE FREQUENCY

UNIVERSAL LO. SECTION OF LMW TRANSVERTER USING CRYSTAL OSCILLATOR, DOUBLERS & TRIPLER/RX MIXER

WEIGHING CCT IN WHICH TRANSDUCER (LOAD-CELL BRIDGE) & ASSOCIATED CCT FEED DATA TO MUX. THAT DRIVES

CCII (CURRENT CONVEYOR) CCT USING OA. TOGETHER WITH CURRENT MIRRORS COMPOSED OF TRANSISTORS

MAIN CCT OF STEREO NOISE GATE INCLUDING VOLTAGE COMPARATORS, BUFFERS & SWITCHES/ZCD., GATE & FILTER

DRIFT CHAMBER PREAMP. CONSISTING OF INPUT TRANSISTOR & EMITTER FOLLOWER WITH BOOTSTRAP & FEEDBACK

SWITCHED-CAPACITOR ADDER USING INTEGRAL FEEDBACK CAPACITANCE CCT

SWITCHED-CAPACITOR FREQUENCY-TO-VOLTAGE (F-V) CONVERTER COMPOSED OF DIFFERENTIATOR & SWITCHED-CAPACITOR

WEIN-NETWORK SINUSOIDAL OSCILLATOR WITH FET.-CONTROLLED AMP. GAIN, INCLUDING PEAK OR AVERAGE DETECTOR

DRIFT STATION & ASSOCIATED TEMPERATURE MEASURING & CONTROL CCT, INCLUDING CURRENT MONITOR, ZERO CURRENT

TRIANGLE WAVE GENERATOR/POTENTIOSTAT & 4 ELECTRODE CELL, TO MAINTAIN POTENTIAL BETWEEN WORKING ELECTRODES

MAIN AMP.

MAINS-POWERED HAND LAMP BATTERY CHARGER FOR HOME USE/BATTERY-POWERED HAND LAMP CHARGER FOR CAMP USE

BRIDGE RL-MULTIVIBRATOR OF CCT TO SENSE & MEASURE DC. CURRENT, CONSISTING OF PRIMARY COIL OF NOISE

SWITCHED-CAPACITOR BANDPASS FILTER WITH INDEPENDENT CONTROL OF CENTER FREQUENCY & Q/CCT TO PRODUCE

QUIET, VERY STABLE, VERY HIGH GAIN, HF. AMP. USING 2 NPN TRANSISTORS IN CASCODE

CLIPPING INDICATOR THAT CAN BE USED AS OSCILLOSCOPE SUBSTITUTE IN AMP. MEASUREMENTS OF POWER

DRIVER BOARD INCLUDING LED.

"MINIMAL SIZE" INPUT CURRENT RIPPLE ACTIVE FILTER TO ALLOW 80V 3A 1MHZ SWITCHING DOWN CONVERTER

STIMULUS GENERATOR CONSISTING OF VOLTAGE-CONTROLLED CONSTANT CURRENT SOURCE TO PRODUCE UNIFORM

UNIVERSAL ACTIVE FILTER

SWITCHED-CAPACITOR SERIAL AUTORANGING ADC. BASED ON DUAL-SLOPE INTEGRATION/ANALOG CCT IN POLYMER

THICK-FILM HYBRID UNIVERSALLY USABLE PEAK DETECTOR WITH SHORT DELAY TIMES & INPUT STAGE OF DIFFERENTIAL

SWITCHED CAPACITOR BANDPASS CW. FILTER

SWITCHING REGULATOR CCT, USING PWM. INVERTER & 1524 REGULATOR

SWITCHING REGULATOR CCT INCLUDING PWM. IC & PWM. INVERTER (DC.-DC. TRANSFORMER)

FSI TEST SLAVE MODULE FOR SINGLE-CHIP IMPLEMENTATION OF 32-BIT FASTBUS SLAVE INTERFACE DEVELOPED

SWITCHING REGULATOR

SWITCHING CCT TO DRIVE THYRATRON, IN WHICH THYRISTOR IS TRIGGERED BY AMPLIFIED TTL. PULSE, INCLUDING REINARTZ SW. RECEIVER

QUIESCENT LIGHT LEVEL SUBTRACTOR OF SYSTEM FOR STUDY OF TRANSIENT LIGHT ABSORPTION/SAMPLING SYSTEM

BRIDGE-TYPE PUSH-PULL AMP. USING DMOS. POWER FET. PAIR, DIFFERENTIALLY DRIVEN BY DUAL PHASE SPLIT

EBIC. AMP.

RAIN ALARM USING DARLINGTON TRANSISTOR PAIR TO AMPLIFY SMALL CURRENT PASSING THROUGH DROPS OF WATER

DRIVING CCT TO STEP UP TTL. LEVEL TIMING PULSES TO DRIVE COILS OF ACTUATOR ASSEMBLY, USING HIGH GAIN

UNITY GAIN NEGATIVE PEAK DETECTOR/PEAK READING ADC./CCT FOR MUX.ED DATA ACQUISITION/CCT FOR RECTIFIED

TRIANGLE-WAVE GENERATOR, INCLUDING MULTIVIBRATOR, SWITCHING TRANSISTOR & REGULATED-CURRENT SOURCE

TRIGGERING CCT WITH ISOLATION, FOR CONSISTENT TRIGGERING, SHOWING IGNITRONS/RC. DELAY LINE TO RECTIFIED

CLIPPER-SELECTIVITY SECTION OF AUDIO PROCESSOR FOR RECEIVER/AUDIO COMPRESSION & POWER SECTION

EMITTER FAILURE PULSE MEASUREMENT-CONDITIONING CCT TO DETECT (MONITOR) FAILURE OF GATED FIELD EFFECT

UNITY-GAIN SALLEN-KEY LPF. WITH 12.2MHZ CUTOFF FREQUENCY, USING 1 BUFFER WITH 100MA OUTPUT DRIVE

DRIVE CONTROL INTERFACE/WRITE AMP./READ AMP./BOT & EOT SENSOR

MOISTURE METER USING SCHERING-BRIDGE METHOD OF CAPACITANCE MEASUREMENT, USING ELECTRODE TO MEASURE

NOISE GATE (ENVELOPE SHAPER)

NOISE-GATE WHICH, WHEN THERE IS MUSIC, ALLOWS SIGNAL THROUGH, & WHEN THERE IS ONLY NOISE, DOESN'T

DRIVER BOARD OF PC.-BASED BOARD TESTER, USING ELATED INTEGRATED PIN DRIVER/CONTROL BOARD THAT

NOISE GENERATOR THAT TAKES NOISE VOLTAGE FROM EMITTER OF P-N-P TRANSISTOR, INCLUDING STEP-UP GAIN

TRIGGER CCT FOR AIR FILLED FLASHLAMP, TO STUDY HIGH CURRENT DISCHARGES, USING IGNITRON TO DISCHARGE

500V. PS. INCLUDING VOLTAGE MONITORING CCT, THAT PROVIDES OVERLOAD INDICATION, CURRENT LIMITING

DRIFT CHAMBER ELECTRONICS INCLUDING ON-BOARD PREAMP., & POST AMP. CONSISTING OF AMP.-DISCRIMINATOR

GAIN-ADJUSTMENT CCT THAT SUPPLIES COARSE & FINE SCALING THAT IS ALWAYS SYMMETRICALLY CENTERED

SWITCH CCT FOR LV. HALOGEN LIGHTS, TO EXTEND LIFE OF LAMPS BY INCREASING FILAMENT CURRENT GRADUALLY

DRIVER ELECTRONICS CONSISTING OF SINE OSCILLATOR WITH GOOD AMPLITUDE STABILITY & LOW DISTORTION

SWITCHED TAPE CALIBRATING OSCILLATOR CONSISTING OF WEIN BRIDGE OSCILLATOR USING DUAL OA. IC, 1 O

DRIVER OF CCT TO MEASURE HORIZONTAL COMPONENTS OF 3-DIMENSIONAL MOTION/SIGNAL PROCESSOR/CONTROL

UNIT TO REGULATE POTENTIAL AT CATHODE, & RATIO OF ANODIC PARTIAL CURRENTS, INCLUDING AUTORANGING

DRIVE CCTS FOR SINGLE-PHASE, 2-PHASE & 3-PHASE MOTORS, WITH OA. CONFIGURED AS WIEN-BRIDGE OSCILLATOR

VOICE-OPERATED RELAY (VOX) BOX CONSISTING OF MICROPHONE PREAMP., SCHMITT TRIGGER & RELAY DRIVE

NOISE-REDUCTION SYSTEM (DECODER) FOR CBS RECORDS, PROVIDING 20DB OF NOISE REDUCTION, INCLUDING

WEIN-BRIDGE OSCILLATORS (5)/TWIN-T OSCILLATORS (2)/SQUARE-WAVE OSCILLATORS (2)/NARROW-PULSE GEN

GAIN-PROGRAMMABLE AMP.

VOICE-SCRAMBLER CCT USING 2 INTERCONNECTED, BALANCED-DIODE MIXERS TO OBTAIN DUAL FREQUENCY S

5-IC SPEECH SYNTHESIZER (DIGITALKER) USING ROM.S CONTAINING SPEECH DATA THAT IS PROCESSED BY SP

MAIN PORTION OF SIMPLE PROM. PROGRAMMER TO PROGRAM 74S-SERIES OF PROM.S/10.5V DC. PS. TO OPEN

UNIPOLAR & BIPOLAR CMOS. DAC. CCTS, INCLUDING PMI JFET.-INPUT OA. WITH FAST SETTLING & LOW OFFSET

TRIGGER CCT OF COMPUTER INTERFACE, TO TRANSFORM SAWTOOTH WAVEFORM INTO DIGITAL PULSE/AMP. TO

DRIVE CCTS (4)/CCT TO MEASURE SENSOR OUTPUT/CCT TO PREVENT FLIPPING SENSOR/CCT TO DELIVER CURR

UNIT USING CARRIER CURRENT TRANSCEIVER & UP./SLAVE UNIT/CCT USING SPLIT-CARRIER MODE

FLICKER GENERATOR TO PRODUCE CANDLE-LIKE EFFECTS WITH INCANDESCENT LIGHT BULBS, USING 4 OA.S T

SLIDING-BAR CRYSTAL RADIO RECEIVER INCLUDING SLIDING-BAR TUNING-COIL ASSEMBLY, DIODE & AUDIO-AMP

RAIN ALARM USING SENSOR

WHISTLER RECEIVER CONSISTING OF HIGH-GAIN AUDIO AMP. WITH POOR LF. RESPONSE TO REDUCE 60-CYCLE

TRIGGERED SWEEP CCT USING TIMER TO SET TIME BASE & FURNISH BLANKING PULSE, & COMPARATOR TO PRO

RAIN ALARM USING SENSOR

AMI-TO-NRZ. LINE INTERFACE DECODING CCT OF ISDN.-TO-IR. LINK INTERFACE, INCLUDING COMPARATORS/NRZ

TRIGGER UNIT THAT ALLOWS DELAYED TRIGGERING OF DAS. WHEN INFLUENCE OF VIBRATION-INDUCED NOISE

VOICE-MAIL ALERT (TEL-TALE) TO DETECT WHEN SOMEONE HAS CALLED & FLASH LED., USING OPTOISOLATOR-

GLITTER GLOBE WHOSE 1ST STAGE (TRIANGLE-SAWTOOTH WAVEFORM GENERATOR) VARIES SPEED OF GLOBE
FLICKER LIGHT CCT/METERING CCT/TRANSISTOR CHECKERS (2)/POWER MOSFET. INVERTER/CCT-BREAKER BLO
TRIANGULAR-SQUARE WAVE VCO. WITH WIDE SWEEP CAPABILITY, USING OTA. AS SWITCHING CURRENT SOURC
TRIANGULAR WAVE (SWEEP) GENERATOR, HV. AMP. & PS./CCT ASSOCIATED WITH CURRENT TRANSFORMER/DIF
UNITY-GAIN OA. CCT THAT GIVES UP TO 85MA OUTPUT CURRENT WHILE RETAINING SHORT-CCT PROTECTION, U
MAIN SIGNAL PROCESSING & POSITION COMPUTING ELECTRONICS
SKIN TEMPERATURE CONTROLLER/DIFFERENTIAL PRE-AMP./AMP.S/REGULATOR
SWITCHING PS. THAT OUTPUTS +12V & -12V FROM +5V DC. SOURCE, USING ADJUSTABLE SWITCHABLE REGULAT
2-IC CCT TO GENERATE 4 OUTPUTS THAT PRODUCES SQUARE WAVE WITH 0, 90, 180 & 270DEG PHASE SHIFTS RI
CLIPPING AMP./DIODE-LIMITED BRIDGE/REGULATOR USING "SNIP-TRIM" NETWORK TO TRIM V_{OUT} TO 22V +-1%/F
DRIFT-COMPENSATED INTEGRATOR (2-STAGE FEEDBACK AMP.) WHOSE OUTPUT FOLLOWS ANY DRIFT OF FLOW
DRIFT CHAMBER FAST AMP. & DISCRIMINATOR (CCT TO AMPLIFY SIGNALS BY 100, & SHAPE THEM TO MAXIMIZE F
"ZIPPY" CCT DESIGNED PRIMARILY FOR ZX81 HOME COMPUTER, TO RAPIDLY SWITCH COMPUTER OVER TO STAN
GPIB. (IEEE-488 STANDARD BUS) INTERFACE FOR IBM PC.-XT MICROCOMPUTER, USING LSI. ADAPTER CHIP INCL
WEIN BRIDGE OSCILLATOR USING OTA. CONNECTED AS VARIABLE RESISTANCE IN NEGATIVE FEEDBACK LOOP,
UNITY GAIN CLIPPER CCT FOR PLATELET VOLUME ANALYSER, LOCATED BETWEEN AMP.S, TO LIMIT LARGE SIGN
TRIGGER CCT TO PROVIDE SQUARE WAVE OUTPUT THAT STARTS & STOPS COINCIDENTALLY WITH CROSSING C
SWITCHED-MODE SUPPLY (POWER SOURCE) TO PROVIDE PROGRAMMABLE CURRENTS TO 300MA AT 2.3V TO BC
SWITCH-TRIGGERED 8-MELODY GENERATOR THAT PLAYS SHORT TUNE WHEN CHRISTMAS PRESENT IS OPENED
UTILITY AUDIO AMP. USING LV. AUDIO POWER AMP./0.5 TO 8MA CURRENT LIMITER/DIODE SWITCHING CCTS TO S
TRIGGER TIMING ELECTRONIC CONTROL FOR SPARK-GAP CONTROL UNIT, USING OPTOISOLATOR/CCT TO GENE
SWITCHING & AGC. CCTS, INCLUDING GATING CCT, ANALOGUE SWITCHES, SOURCE-FOLLOWER, DC. AMP. & PHA
DRIVE WHEEL MOTOR SPEED CONTROL UNIT WITH EITHER PROPORTIONAL CONTROL ACHIEVED THROUGH PWM
TRIGGER CCT CONSISTING OF FILTER & COMPARATOR CCT TO TRANSFORM PARTICLE PULSE SIGNAL TO TTL. S
BRIDGE AMP./PHONO AMP./WHITE-NOISE SOUND GENERATOR/AM.-RADIO POWER AMP./LOW-POWER AMP.
DRIVE CCT FOR FUJIKURA OXYGEN SENSOR, INCLUDING DIFFERENCE AMP., & POWER TRANSISTOR (EMITTER-F
GEIGER-MUELLER 966V HV. PS. USING TIMES-6 VOLTAGE MULTIPLIER/18KV SUPPLY FOR IMAGE CONVERTER TUB
DRIVER & TRANSMITTER, TO CREATE MODULATION LIGHT BEAM TO TRANSMIT SIGNAL TO HV. TERMINAL/LIGHT P
FAIL SAFE ION SOURCE SWITCH USING HV. MOSFET. TRANSISTORS COUPLED IN SERIES, OPERATED AT FREQUE
18IN ALLBAND ANTENNA THAT COVERS ENTIRE SW. BAND, USING RF. FET.S, INCLUDING TRANSFORMER, DRIVER
NOISE BLANKER GATE THAT CAN OPERATE LINEARLY OVER WIDE DYNAMIC RANGE/NOISE BLANKER CCT
DRIVING CCT FOR GALLIUM INDIUM ARSENIDE LED. DRIVEN BY CHARGED TRANSMISSION LINE SWITCHED BY TR
1-IN-3-OUT VIDEO DISTRIBUTION AMP. WITH INPUT TERMINATED IN 75OHM & 3 OUTPUTS WHICH MAY BE TERMIN
WRITE-PROTECT CCT FOR 5.25IN FLOPPY (DISK) DRIVE, INCLUDING SWITCH & LED. STATUS INDICATOR/WRITE-P
DRIVER AMP. OF HV. AUDIO AMP., INCLUDING VARIABLE GAIN AMP., GYRATOR & PHASE SPLITTER/OUTPUT DRIV
NOISE-FREE THYRISTOR CCT TRIGGERED BY THIN-FILM TEMPERATURE (MOXIE THERMAL) SENSOR
UNIVERSAL VXO
FRINGE DETECTOR AMP. BASED ON SILICON PHOTOTRANSISTOR & OA./10HZ LPF. TO PREVENT EXTRA COUNTS
SLIDING-TONE DOORBELL CCT COMPOSED OF AF. OSCILLATOR & VARIABLE RESISTANCE
WEIGHT CONTROL ADDITION FOR ACCU-KEYER, USING DIODE STEERING (QST7308)
SWITCHING TRANSISTOR BRIDGE TO EFFICIENTLY CONTROL DC. SERVOMOTOR & EMPLOY DYNAMIC BRAKING
SWITCHING RELAY DRIVE CCT TO KEEP RELAY COIL FROM DRAWING EXCESSIVE CURRENT OVER WIDE SUPPLY
UNITY-GAIN WIDEBAND BUFFER AMP.
UNIVERSAL RELAY DRIVER
WAILING SIREN
TRIAMP., CONSISTING OF SYMMETRICAL AMP. WITH 3 INPUTS & 3 OUTPUTS
BRIDGE RECTIFIER FOR CURRENT-PROBE ARRANGEMENT THAT CAN BE APPLIED WHEN ADJUSTING TUNING STU
TRIPLER (VOLTAGE MULTIPLIER) CCT TO GENERATE HV. (+75V) PS. FOR 48V REGULATOR
SWITCHING CCT ALLOWING SELECTION (CHANGE) OF READ (TARGET) SCAN VOLTAGES, THAT CAN BE INCORPO

EMISSIVE PROBE CCT TO FOLLOW PLASMA POTENTIAL VARIATION UP TO 30V IN 100NS, WITH FET.-TRANSISTOR DRIVING CCT USING TTL. OUTPUT FROM APPLE II GAME IO. DRIVE REED RELAY WHICH KEYS TRANSMITTER, TO TRIO-KENWOOD TS-820(S) FINAL AMP. AFTER MOD./RELAY CONTROL UNIT

DRIVE CCT TO SWITCH DARLINGTON PAIR, USING SPEED-UP CAPACITOR TO REDUCE TURN-ON TIME/MOD. CCT TO CLIPPER CCT SHOWING NEW COMPONENT VALUES TO PRODUCE CLEAN OUTPUT (73AM8211 - "WHAT? ANOTHER SWITCHING UNIT MUX.-DEMUX. TO SORT SELECT OR DESELECT INSTRUCTIONS & DISTRIBUTE SIGNALS TO PROXIMITY TRIGGERED GENERATOR HAVING VERY FAST PULSES WITH LOW DUTY CYCLE, USING MONOSTABLE MULTIVIBRATOR) EMITTER-FOLLOWER/CASCADE-EMITTER FOLLOWER

WHISTLER RECEIVER CONSISTING OF ANTENNA, AMP. (TO BOOST SIGNAL LEVEL), & HEADPHONES, INCLUDING LOGIC VOICE-OPERATED DRINK DISPENSER CONSISTING OF HIGH-IMPEDANCE CRYSTAL MICROPHONE (MIKE) DRIVING TRIGGER GENERATOR (TG) OF AUTOZEROING BOXCAR INTEGRATOR, TO PERMIT PMT. OR COMPUTER TO TRIGGER EMITTER-FOLLOWER OF MEASURING CCT TO CONTINUOUSLY MONITOR CONDUCTIVITY THAT IS MEASURE OF CONDUCTIVITY EMITTER-FOLLOWER CCT TO DRIVE ADC. FROM SSTV. CAMERA/ADC. SHOWING CONNECTIONS TO KIM-1 SINGLE CHANNEL CLIPPED CORRELATOR THAT WORKS IN REAL TIME, FOR VELOCITY MEASUREMENT IN INDUSTRIAL FIELD, USING UNIVERSAL CRYSTAL OSCILLATOR THAT OPERATES OVER 4-DECADE RANGE & REQUIRES NO ADJUSTMENT

TRIAC-CONTROLLED RANDOM TURN-ON, ZERO TURN-OFF AC. CONTROL DEVICE/SAME WITH ZCD./CCT TO CONTROL GEIGER TUBE & PULSE PROCESSOR/CONTROL LOGIC USING 32KHZ MASTER CLOCK/ALERT COUNTER/DC.-TO-DC. CONVERTER TRIMLESS ABSOLUTE VALUE CCT USING OA. & ARRAY OF 5 CLOSELY-MATCHED BIPOLAR TRANSISTORS, WITH PULSE NOISE IMMUNE LIGHT-MODULATION DETECTOR

TRIPLE-REDUNDANT COMMUNICATIONS LINK THAT TAKES MAJORITY VOTE ON DATA SENT ALONG 3 DIFFERENT CHANNELS UNITY-GAIN 50OHM DRIVER

TRIO-KENWOOD GENERAL COVERAGE MW-SW. 'TS-430S' TRANSCEIVER, WITH COVERAGE FROM 150KHZ TO 30MHz EMISSION CURRENT REGULATOR (CONTROL CCT) FOR ICR. SPECTROMETERS, TO MAINTAIN CONSTANT BEAM CURRENT "MINI-MYNAH" PROGRAMMABLE SPEECH BOARD (SOUND BOARD)

2 INPUT MUX.S (2)/FAST 4 INPUT MUX. USING SWOP AMP.S/PROGRAMMABLE GAIN AMP.S (PGA'S) (3)/MUX. WITH 2 CHANNEL TRIGGER CARD CCT ABLE TO MANAGE UP TO 30 LINES FROM INDEPENDENT COUNTERS, BASED ON EPROM.S, FOLLOWED BY UNITY-GAIN AMP. THAT REJECTS COMMON-MODE VOLTAGES AS HIGH AS +-100V/CCT TO ELIMINATE INTERACTIVELY TRIM CCT FOR BURR-BROWN'S OPA128

TRIANGLE-WAVE GENERATOR THAT PROVIDES LINEAR 10MHZ, 1V P-P TRIANGLE WAVES INTO 50OHM LOADS, INCLUDING EMITTER FOLLOWER TO SPLIT PILOT FREQUENCIES FROM TELEPHONE CHANNELS IN FREQUENCY-DIVISION MULTIPLEX BRIDGE NULL INDICATOR (DETECTOR) USING OA., WITH SENSITIVITY OF ~2UV-DIVISION & INCREASING SENSITIVITY WITH GAIN CONTROLLED AMP. (GCA) OF SYSTEM TO KEEP STRAIN AMPLITUDE CONSTANT, CONSISTING OF 2 OA.S (HIGH IMPEDANCE SWITCH CCT FOR INDUCTIVE LOADS

UNIDIRECTIONAL-POWER-FLOW CURRENT-SOURCED HIGH-PF. RECTIFIER INCLUDING BUCK CONVERTER & ENERGY STORAGE SPIN DECOUPLER MODULATION CCT WITH RANGE OF 20 TO 230HZ, USING OSCILLATOR, DIVIDER & MIXER

2-IC FSK. MODEM THAT OPERATES IN FULL-DUPLEX, WITH THD. OF <0.5%

TWIN 40W (2X40W) ELECTRONIC FLUORESCENT BALLAST USING 400V 10A N-CHANNEL MOSFET.S AS SWITCHING ELEMENTS SWITCHED-CAPACITOR FILTER (SCF)

BRIDGE CCT OF WHICH 1 ARM IS LDR., FOR USE IN EXPERIMENT TO MEASURE MAGNETIC PROPERTIES OF THIN FILMS ORIGINATE-ONLY DEMODULATOR SECTION OF MODEM CCT, INCLUDING PICK UP, AMP., BANDPASS FILTER & PLL

NOISE AMP. USING VCO., & PLL. AS OPERATIONAL MULTIPLIER

DRIVER CCT FOR LASER DIODE SPECTROMETER, USING SHARP LASER DRIVER CHIP, LOW POWER LASER DIODE DRIVER

3-IC TRANSMITTER SYSTEM USING SEMICUSTOM IC, IN WHICH DIODE DECODERS SET TRANSMITTER FOR DAILY TRANSMISSION SHIELDING COIL POWER SOURCE/AUXILIARY COIL POWER SOURCE (SWITCHING CCT INCLUDING LOW & HIGH CURRENT LIMITS) EMI. TEST CCT POWERED BY 163VDC. SUPPLY, CONSISTING OF RESISTIVE, NON-INDUCTIVE LOAD IN SERIES WITH ORIGINAL CCT OF UNIDEN HR2510 HF. RIG (RADIO) SHOWING PRE-DRIVER (AMP.) TRANSISTOR/MOD. CCT FOR INDUCTIVE LOADS

CCII (CURRENT CONVEYOR) CCT USING OA. & CURRENT MIRRORS COMPOSED OF TRANSISTORS

CLIP-SCALE CCT/16-CHANNEL CORRELATION BOARD/INTERFACE USING 2 DAC.S FOR REAL-TIME DISPLAY (BBB) BOARD MAIN PCB. & IF. SECTION IN KENWOOD'S TS-430/KENWOOD TS-430 TRANSCEIVER

VOICE CHANGER TO SHIFT VOICE 1 OCTAVE HIGHER OR LOWER IN REAL-TIME, USING OKI SPEECH PITCH CONTROL
ALINCO ELH230D 2M RF. AMP.
SWITCHING TIMES TEST CCT USING 2 HIGH SPEED CMOS. DRIVERS/SWITCHING TIMES TEST CCT WITH LOWER D
VOICE RECORDING & PLAYBACK SYSTEM ABLE TO STORE UP TO 16S OF AUDIO, USING SINGLE-CHIP VOICE MES
LSI. SOLID STATE SOUND TAPE RECORDER & PLAYBACK CCT USING INTEGRATED ADPCM. & SPEECH PROCESSOR
EMITTER FOLLOWER TYPE OF DIVIDER FOR VOLTAGE STABILIZATION ON MINIATURE PHOTOMULTIPLIER, BY NPN
SHIFT REGISTER, COMPARATOR & CONTROL LOGIC SECTIONS OF DATA SELECTOR/SUBGROUP SELECTOR, ADD
WEIGHT TRANSDUCER (SENSOR) INTERFACE OF PROCESS CONTROLLER & DATA COLLECTION SYSTEM, USING
PRIMARY CCT USING TETRODE FOR VOLTAGE CONTROL, USED IN MAGNET PS.S, INCLUDING ISOLATING TRANSF
SWITCH-OVER CCT THAT POWERS SWITCHING REGULATOR IC FROM SUPPLY'S OUTPUT AFTER SUPPLY STARTS
SWITCHING CCT FOR MAIN PS. TO ENABLE SWITCHING AT ANY 1 OF 6 INSTANTS, USING SCR., BUFFER CCT & SE
SWITCHED-CAPACITOR VOLTAGE CONVERTER CCT/STRAIN-GAGE-BRIDGE SIGNAL CONDITIONER USING BIPOLAR
SWITCHING PS. WITH ULTRA-LOW DROPOUT VOLTAGE OF 200MV, USING SWITCHING-REGULATOR CONTROLLER
UNITY-GAIN INVERTER/COMPOSITE AMP./UNITY-GAIN BUFFER/FAST AMP./NONINVERTING AMP.
UNITY-GAIN INVERTING AMP./TRACK-HOLD AMP.S (2)/VIDEO CCTS (2)/MOTOR-TACHOMETER CCT/TEMPERATURE
COIL CURRENT ZERO-CROSSING CONTROLLED CLASS E DRIVER INCLUDING ULTRA FAST COMPARATORS, FAST
SWITCHING-REGULATOR CCT/NEGATIVE-OUTPUT CCTS (2)/CURRENT-BOOSTED STEP-DOWN "BUCK" REGULATOR
SWITCHING CCT THAT PULSES GLOW DISCHARGE BY SHUNTING POWER ACROSS GLOW DISCHARGE (GD), FOR
MAINS TIME-DELAY SWITCH, LOW-COST
SWITCH-MODE PS. (SWITCHING REGULATOR) WITH 15V OUTPUT & 20A, 5V REGULATED OUTPUT, INCLUDING 200
DRIVING CCT FOR MOSFET. INVERTER, SHOWING 1 ARM OF 3-PHASE INVERTER, USING PHOTOCOULERS THAT A
ORIGINAL PS. OF DYNACO FM-3 TUNER, USING VACUUM TUBE RECTIFIER/MOD. CCT WITH SOLID-STATE RECTIFI
ERICIUS LOGIC UNIT INCLUDING DISCRIMINATORS, MULTIVIBRATORS, & SUMMATION & AMPLIFICATION CCT, TO
TRIGGERED INDUCTIVE CHARGING & LASER EXCITATION CCT (DISCHARGE CCT)
TRIGGERING SYSTEM OF HV. PULSE GENERATOR (HVPG) TO TRANSFORM PULSE FROM LOGIC INTO PULSE REQ
BLINKER CCT USING DIODE, CAPACITOR, 2 RESISTORS & NEON BULB, TO CHECK STATUS OF AC.-LINE CONNECT
ADJUSTABLE UV. EXPOSURE LIGHT SOURCE TO PREPARE ARTWORK & PCB.S, USING FLUORESCENT TUBES TO
MFJ CW. FILTER TO TAKE INCOMING SIGNAL FROM PHONE PICK-UP POINT, PASS IT THROUGH SERIES OF TUNED
ADJUSTABLE THRESHOLD TEMPERATURE ALARM USING THERMISTOR & OA. AS VOLTAGE COMPARATOR/ADJUS
ADJUSTABLE TTL. CLOCK OSCILLATOR
INJECTED PULSER DELAY & SYNCHRONIZING LOGIC TO AVOID PILEUPS & MAINTAIN STABLE RATE OF INJECTION
ADJUSTABLE-SPEED PUMP DRIVER THAT DRIVES BENDIX PLUNGER-TYPE ELECTRIC FUEL PUMP
ADJUSTABLE-OUTPUT BOUNCEFREE SWITCH/10KHZ TONE DECODER/HIGH-PERFORMANCE OA. PHOTODIODE AM
ADJUSTABLE-RATE POWER-PULSE GENERATOR/1.2-TO-25V ADJUSTABLE REGULATOR
ADJUSTABLE VOLTAGE DIVIDER CHAIN FOR RCA PMT.S/PREAMP. TO OBTAIN INTEGRATED LINEAR PULSE HEIGH
MFJ CWF-3 (CW.) AUDIO FILTER WITH CENTER FREQUENCY OF 750HZ, USING 2 SECTIONS OF "747" IC IN 14-PIN D
ADJUSTABLE-LEVEL SCHMITT TRIGGER CONSISTING OF 2 TRANSCONDUCTANCE AMP.S & OA., ADJUSTABLE OVE
ADJUSTABLE Q BANDPASS FILTER WITH VARIABLE GAIN & CENTER FREQUENCY THAT CAN BE INDEPENDENTLY
ADJUSTABLE LOAD INCLUDING LOW-POWER CONTROL CCT THAT ENABLES POTENTIOMETER TO CONTROL <=10
ADJUSTABLE CLOCK-TUNABLE NOTCH FILTER USING MOTOROLA'S SWITCHED-CAPACITOR NOTCH FILTER, WITH
ADJUSTABLE-WAVEFORM SPARK SOURCE USING THYRATRON/PET MICROCOMPUTER ISOLATION CCT USING OP
ADJUSTABLE WAVEFORM DIODE-SHUNT CAPACITIVE DISCHARGE CCT USING 8 HV., HIGH-CURRENT DIODES, & C
ADJUSTABLE OSCILLATOR OF EM. PULSE GENERATOR/DUTY CYCLE CONTROL CCT/FREQUENCY COUNTER/PS. &
ADJUSTABLE CONSTANT-CURRENT SOURCE (PS.) CONSISTING OF OA. THAT DRIVES GATE OF LOW-CURRENT FE
ADJUSTABLE LEVEL-SHIFTING INTERFACE CCT USING POSITIVE OR NEGATIVE VOLTAGE TO SHIFT PULSE TRAIN
ADJUSTABLE 12V 1A DC.-INPUT PS. THAT IS REGULATED DOWN TO 0V
ADJUSTABLE PHASE SHIFTER USING FREQUENCY DOUBLER FOR OPERATION AT VOLTAGE LEVELS OF CMOS. O
ADJUSTABLE 1A, 1.25 TO 33V PS. WITH EXCELLENT REGULATION, USING VARIABLE-VOLTAGE REGULATOR
ADJUSTABLE REGULATOR TO PROVIDE OUTPUT OF 22 OR 5V DEPENDING ON STATE OF VCONTROL, USEFUL FO

ADJUSTABLE & REGULATED DC. VOLTAGE SOURCE/CCT TO GENERATE POSITIVE & NEGATIVE VOLTAGES FROM
ADJUSTABLE-WAVEFORM CURRENT GENERATOR FOR USE WITH QUARTER-WAVE SPARK, INCLUDING LC. LADDER
MFJ-202B RF. NOISE BRIDGE
ADJUSTABLE PULSE GENERATOR
MFJ-989 VERSA-TUNER V ANTENNA TUNER
MFJ 949C VERSA TUNER II TRANSMATCH INCLUDING POWER BRIDGE, SWR. DETECTORS & TUNING NETWORK, P
ADJUSTABLE RATE DUAL LED. FLASHER WITH ENABLE INPUT CONTROLLABLE BY TTL. OR CMOS. SIGNAL, USING
INJECTION LASER TRANSMITTER OF HV. TRIGGER SYSTEM THAT ELIMINATES GROUND LOOP & EMI. PROBLEMS/
ADJUSTABLE DC. CURRENT SOURCE CONSISTING OF VOLTAGE REFERENCE DRIVING LOAD THROUGH SENSING
ADJUSTABLE SWITCHING PS. ADJUSTABLE BETWEEN 31 & 800V WITH 47K LOAD & 560V WITH 10K LOAD
SDK-85 SBC. CONFIGURED AS INTERFACE BETWEEN ANALOGUE OUTPUT & IBM-PC., INCLUDING UP., ADC., IO. PC
PSK. PACKET RADIO MODEM CONSISTING OF UPLINK MODULATOR, DOWNLINK DEMODULATOR & UP-DOWN TUN
60KHZ "RECEIVER" FOR NBS.'S WWVB VLF. RADIO STATION, USING SYNCHRONOUS DETECTION SCHEME, WHICH
TOKEN PASSING, BUS-STRUCTURE MULTIPROCESSOR SYSTEM CONSISTING OF NETWORK PROCESSOR & MAIN
BIKE SPEEDOMETER/METRONOME/CODE PRACTICE OSCILLATOR/ENLARGER TIMER/WEAK BATTERY INDICATOR
MIKE TUNER INTERFACE THAT FITS INTO UNIDEN HR2510 10M MOBILE RIG, USING CMOS. QUAD NOR GATE, TO P
10KHZ CONSTANT-ENVELOPE SIGNAL MODULATOR USING 4TH-ORDER BAND-PASS FILTER WITH CENTRE FREQU
16K BYTE SEMICONDUCTOR READ-WRITE MEMORY BASED ON 8 CMOS. SRAM. DEVICES EACH OF WHICH IS ORG
WAKEUP BOARD OF CMOS. EDUCATIONAL PROJECT, USING 100MOHM PHOTOCCELL THAT RESPONDS TO LIGHT, P
FSK. MODULATOR-DEMODULATOR TO PROVIDE INTERFACE BETWEEN ANALOGUE SIGNAL & DIGITAL SIGNAL/OS
1 K HIGH-IMPEDANCE VOLTAGE-SENSITIVE MESFET. PREAMP. USING PLESSEY SEMICONDUCTORS GAAS. MESFE
PSK. MODULATOR CCT FOR TRANSMISSION OF SINUSOIDAL CARRIER/PSK. DEMODULATOR CCT TO INTERPRET I
64KBYTE MEMORY ARRAY USING 2 LC. DELAY LINES, INCLUDING 1 FOR ROW ADDRESS STROBE HOLD TIME
WAKE-UP SIGNAL BUS FORMED BY IO. LINES BUSSED BETWEEN PROCESSING ELEMENTS ON WHICH PPI. OUTPUT
16K MEMORY BOARD USING 16 2KX8 BIT CMOS. SRAM. CHIPS TO PROVIDE 8 2K BLOCKS OF 16 BIT MEMORY
64K PRINTER BUFFER THAT IS ALSO PARALLEL-TO-SERIAL & SERIAL-TO-PARALLEL CONVERTER/EPROM. PROGR
FSK. DECODING CCT WITH ECPD (EDGE-CONTROLLED PHASE DETECTOR)/DIGITAL PHASE ERROR READOUT CCT
FSK. MARK-SPACE MODULATOR
FSK. MODULATOR CCT IN WHICH DIGITAL SIGNAL ENTERS SIMULATED D FF. & LEAVES AS TRIANGULAR WAVE TH
45KHZ 555 OSCILLATOR USING VOLTAGE-DOUBLING RECTIFIER ON OUTPUT (AC.-DC. CONVERTER)
WAKE-UP CALLER/TONE GENERATOR/BATTERY SUBSTITUTE/RIPPLE SUPPRESOR/HEADLIGHT REMINDER/SUMP-
INK JET DRIVER SYSTEM INCLUDING UP., INVERTER, PULSE DRIVER & SIEMENS DRIVER BOARDS, & INK JET HEA
FSK. TRANSMITTER CONTROLLED BY Z80 SYSTEM, PROVIDING CONTROL OF CHANNEL FREQUENCY & SHIFT, US
25KHZ CRYSTAL CALIBRATOR/SIMPLE MICROPHONE PREAMP./REGULATED PS.
TOKEN RING ACCESS UNIT & RING INTERFACE, INCLUDING ADLC (ADVANCED DATALINK CONTROLLER), UP., ACIA
FSK. DECODER TO RECEIVE RTTY. (TELEX) TRANSMISSIONS, CHANGING OUTPUT OF SW. RECEIVER INTO FORM
64KX16 BOARD LAYOUT/PROCESSOR TO MEMORY BOARD INTERFACE
10KHZ TO 1000MHZ RF. AMP. USING MINI-CIRCUITS MMIC. THAT OFFERS 50OHM INPUT & OUTPUT IMPEDANCES V
64K-BYTE PRINTER BUFFER THAT OPERATES WITH CENTRONICS OR RS232 COMPATIBLE COMPUTER/BUFFER (B
10K & 100K-COMPATIBLE ECL.-TO-TTL. CONVERTER USING 2 TRANSISTORS, WITH OR-NOR GATE DRIVING DIFFER
ASK. (BINARY CODED SIGNAL) RECEIVER OF UNDERWATER ASK. COMMUNICATIONS SYSTEM TO TEST INFLUENC
FSK. GENERATOR CCT CONSISTING OF 2 WIEN-BRIDGE OSCILLATORS USING DUAL OA. FOR 2 FREQUENCIES, CA
16KHZ 180W DC. FLYBACK SWITCHER TO PROVIDE 13.8V AT 13A, USING MULLARD FERROXCUBE CORES
FSK. MODEM USING LVDT. SIGNAL CONDITIONER, INCLUDING COMPARATORS, & FF. TO CONTROL OUTPUT TRAN
FSK. TRANSMITTER IC DRIVING TWISTED-PAIR CABLE, BY ADDING INVERTING AMP. ON OUT-OF-PHASE LINE
QSK (FULL BREAK-IN) TR. SYSTEM FOR ETO (ERHORN TECHNOLOGICAL OPERATIONS) ALPHA 78 HF. LINEAR POW
PSK. DEMODULATOR INCLUDING PSK. LIMITER, VCXO & PHASE COMPARATOR (BBB)/CCT FOR CLOCK RECOVERY
24K RAM. CCT FOR VIC-20
PSK. DEMODULATOR FOR JAS-1 SATELLITE (ADAPTATION OF COSTAS LOOP), WITH FREQUENCY LOCK RANGE U

FSK. DATA RECEIVER USING NARROW BAND FM. IF. AMP.-DETECTOR INCLUDING LO., MIXER, QUADRATURE DETECTOR
FSK. RADIO MODEM FOR USE WITH VIC 20(TM) COMPUTER & KANTRONICS HAMSOF(TM) PROGRAM
19KHZ CLASS E TUNED POWER AMP. USING THYRISTOR RATED FOR 16A, 400V & MAXIMUM TURN-OFF TIME OF 10NS
FSK. DETECTOR SYSTEM (RECEIVER) CONSISTING OF BANDPASS FILTER, COMPARATOR, DELAY LINE & FF.
50KV TRIGGER GENERATOR ASSOCIATED WITH TOF. SPECTROMETER, TO INITIATE ARC BY APPLICATION OF HV
30KV HV. PS. BASED ON MOD. TV. FLYBACK TRANSFORMER, WITH VOLTAGE TRIPLER PRODUCING FINAL OUTPUT
16KV KRYTRON PULSE GENERATOR TO OPERATE KERR CELL SHUTTER
6-KEY ELECTRONIC COMBINATION LOCK FOR SECURITY, USING SEQUENCE SENSING CCT & RELAY, USABLE TO
10KHZ VFC./10-BIT ADC./SH. AMP. (2)/CRYSTAL-CONTROLLED 1.5V-POWERED OSCILLATOR/GAIN-OF-101 AMP./RE
SILENT ALARM/CLOSED-LOOP ALARM/PARALLEL-LOOP ALARM/SERIES-PARALLEL-LOOP ALARM/HIGH-POWER AL
VOLTAGE-TO-CURRENT CONVERTER TO MAKE MAGNITUDE OF AC. ADJUSTABLE BY USING ANALOG SWITCHES &
CALCULATOR INTENDED FOR CHILDREN IN 6 TO 10YR AGE GROUP, INCLUDING CPU., ROM., RAM. & IO. DEVICES
MULTI-AXIS MOTION CONTROLLER USING INTEL EMBEDDED CONTROLLER (MICROCONTROLLER), IO. EXPANDER
ALL-DIGITAL ELECTRONIC COMBINATION LOCK CONSISTING OF CPU., ROTARY ENCODER, ADDRESS LATCH, EPROM
PULSE GENERATOR USING MINIMUM CONFIGURATION FOR 8085 UP. SYSTEM INCLUDING CPU., EPROM., RAM., &
DELAY CCT WHOSE TIMING IS BASED ON MAINS FREQUENCY, INCLUDING COUNTER, N-CHANNEL VMOSFET., REL
COLPITTS CRYSTAL OSCILLATORS (2)/BUFFER-AMP./455KHZ AM. IF. SIGNAL GENERATOR/AM. & SW. RF. SIGNAL C
PULSE GENERATOR USING ECL. LINE RECEIVER & DUAL FF., TO GENERATE HF. PULSE TRAINS FOR ECL., WITH V
MULTI-LINE CABLE TESTER USING 8-CHANNEL CMOS. MUX.S-DEMUX.S, QUAD NAND GATE & HEX INVERTER, FOR
PULSE GENERATOR USING ASTABLE & MONOSTABLE MULTIVIBRATORS, TO GENERATE PULSES OF 0.1 TO 10MS
TELEPHONE INTERCOM CONSISTING OF 2 TELEPHONES CONNECTED VIA 2-WIRE INTERFACE CCT FEATURING FU
VOLTAGE-TO-PULSE-TRAIN CONVERTER
PULSE GROUP GENERATOR
MULTIPLE OUTPUT PORT FOR USE WITH VIRTUALLY ANY COMPUTER, ALLOWING UP TO 40 SLAVES
MULTIPLIER OF 640MHZ SYNTHESIZED SOURCE, CONSISTING OF FULL-WAVE RECTIFIER CCT USING SCHOTTKY
GAL (GENERAL ARRAY LOGIC) PROGRAMMER FOR USE WITH PC.S, THAT COMMUNICATES WITH COMPUTER VIA
PULSE GENERATOR THAT PROVIDES UP TO 12 (RECTANGULAR) PULSES, DEPENDING ON SETTING OF HEXADEC
VOLTAGE REGULATOR
TELEPHONE INTERFACE LOGIC CCT FOR 2M RIG (VHF. RADIO), USING DIVIDE-BY-4096 CHIP CONFIGURED TO PRO
ECL. FAN-IN MODULE (TSPA) TO RECONSTITUTE APERIODIC GEOMETRY OF AMY DRIFT CHAMBER AS QUASI-PERIO
TELEPHONE ACCESSORY THAT PREVENTS TELEPHONE FROM RINGING FOR PRESELECTED NUMBER OF PULSES
ECL. LOGIC OF SYNCHRONOUS DIGITAL PULSE GENERATOR, INCLUDING ECL. TO TTL. TRANSLATION & CONDITIO
ALL-ELECTRONIC FUNCTION SELECTOR TO REPLACE ROTARY FUNCTION SELECTOR, USING 8-STAGE RING COUN
TELEPHONE SENTRY (CALL SCREENER) FOR DAYSLEEPERS, ALLOWING USER TO PROGRAM NUMBER OF RINGS
ECL. 10K GATHER CCT INCLUDING AMD DISCRIMINATOR, 6-BIT FLASH ADC., TIME MEMORY, UP-DOWN 4-BIT BINAR
PULSED BROADBAND LEVELER TO ALLOW PULSED TEST SETUP TO BE SWEEPED WHILE DELIVERING FIXED POWER
MULTIPROCESSOR SYSTEM USING PRIORITY ENCODER & 1-OF-8 DECODER TO PREVENT >1 PROCESSOR (CPU.)
ECL. CCT FOR HODOSCOPE LOGIC/ANALOG SUMMING NETWORK/ECL. CCTS OF X & Y MODULES OF TRACK-PAIR
PULSE GENERATOR, VERSATILE, FULL-FEATURE
HALF-STEP STEPPER-MOTOR DRIVER USING HEXFET.S/HF. CHOPPER TO CONTROL ON-OFF TIME/PROGRAMMABLE
PULSE GENERATOR TO PRODUCE RESET & TRIGGER PULSES/AUTOMATIC RESET CCT FOR BOX-CAR INTEGRATION
PLL. FREQUENCY MULTIPLIER THAT ALLOWS MULTIPLICATION OF 50HZ INPUT BY 4 TO 4000, USING PULSE COMP
FULL-WAVE BRIDGE RECTIFIER AS RF. SIGNAL GENERATOR, USING HP SCHOTTKY BARRIER DIODES/SIMPLE 200M
DELUXE SW. CONVERTER THAT MIXES SIGNAL FROM ANTENNA WITH LOCALLY GENERATED SIGNAL, & OUTPUTS
HALL-EFFECT CLAMP-ON DC. AMMETER USING LINEAR OUTPUT HALL EFFECT TRANSDUCER (LOHET)
SELF-TRIGGERED 4-QUADRANT TIME-DIVISION ANALOGUE MULTIPLIER BASED ON PULSE-INTERVAL AMPLITUDE-
SELF-ADJUSTING SWEEP (LOGIC) CCT TO TRACK LOCAL FLOATING POTENTIALS & ADJUST SWEEP CENTER VOL
SOLENOID DRIVING CCT TO TRIGGER MONOSTABLE WHEN 'R' WAVE IS ABOVE TRIGGER LEVEL & PRODUCE DRIV
GALVANOSTAT THAT GENERATES CURRENT PULSES WITH RISE TIME OF <1US & MAXIMUM CURRENT AMPLITUDE

Sheet1

ECL. 1-SHOT THAT YIELDS VERY NARROW PULSES (TO 2NS), USING SEMIRIGID COAXIAL CABLE & LONG PCB. RUGGED
VOLTAGE REGULATOR USING IC LINEAR REGULATOR
PULSE-SHAPE ANALYSIS CCT INCLUDING PHOTODIODE, PREAMP., MAIN AMP., TIMING FILTER AMP. & CFD.
VOLTAGE DIVIDER FOR HAMAMATSU 18MM-DIAMETER HIGH GAIN PHOTOMULTIPLIER WITH MCP.S. IN CASCADE FOR
VALVE (PULSE POWER) CCT FOR USE WITH FAST DIAMAGNETICALLY DRIVEN GAS PUFF VALVE, USING HV. SCR
COLORIMETER FRONT END SIGNAL PROCESSOR/SIGNAL PROCESSING CCT/ERROR AMP. & MODULATOR/AUXILIARY
NULL DETECTOR FOR LINEARITY TESTING SYSTEM, USING 6 BIT WILKINSON ADC./TEST PULSER (BBB)/CCT TO MULTIPLEX
PULSE PROCESSING CCT & DC. PS., INCLUDING AMPTEK CHARGE-SENSITIVE PULSE SHAPING PREAMP.-DISCRIMINATOR
TELEMETRY TRANSMITTER FOR 6 DIFFERENTIAL INPUT SIGNALS, & 2 REFERENCE SIGNALS TO SYNCHRONISE RING
PLL./ACTIVE LOWPASS RC. FILTER/UNITY-GAIN AMP./BANDPASS FILTERS (2)/RF. AMP./OSCILLATOR/DARLINGTON
SELF-OSCILLATING CCT INCLUDING PRE-AMP. MODULATOR, PHASE DETECTOR, SWEEP OSCILLATOR, WAVE SHAPE
MILLIVOLTMETER & PROCESSING SYSTEM COMPRISING EPROM., IO. PORT INCLUDING RAM., & CPU., WITH VERY
VOLTAGE QUADRUPLER OF LASER HV. PS., PROVIDING 10KV LOW CURRENT STARTING PULSE, USING DIODES TO
TTL.-COMPATIBLE SCHMITT TRIGGER CCT WITH VARIABLE THRESHOLD LEVELS
VOLTAGE-TO-CURRENT CONVERTER CONTROLLED BY 8-BIT DAC., TO SUPPLY CURRENT TO SAMPLE CONSISTING OF
MULTIPLE HIT TDC. USING FAST ECL. RAM.S & SCALER, CONSISTING OF FAST MEMORY PART & CONVERSION LOGIC
VOLTAGE DIVIDER FOR HAMAMATSU PHOTOMULTIPLIER PROVIDING LINEAR SIGNAL (OUTPUT) FROM 6TH DYNODE
VOLTAGE DIVIDER FOR R2083 PM (PHOTOMULTIPLIER)
MULTIMETER INCLUDING AC. & DC. VOLTAGE RANGES FROM 200MV TO 1000V & AC. & DC. CURRENT FROM 200UA TO 10A
SELF-CONTAINED LAN. CONTROLLER FOR DRIVING DATA BUS LIKE MIL-STD-1553 WITH MANCHESTER II DATA
MULTIMODULE THAT OFFERS MAN-MACHINE INTERFACING CAPABILITIES FOR DIGITAL CONTROLLER BASED ON 8086
VOLTAGE DIVIDER FOR HAMAMATSU 8-STAGE PMT. OPERATED AT MAXIMUM ALLOWED NEGATIVE HV. WITH HIGH
COLOUR-GRAPHICS CONTROLLER WITH RESOLUTION OF 640 BY 400 PELS, USING 7 IC'S & VIDEO STORAGE-DISPLAY
PULSE AMP.-DISCRIMINATOR WITH COMPLEMENTARY ECL. OUTPUTS, ABLE TO DETECT PULSE OF $\geq 100\text{UV}$ AMP
PULSE STRETCHERS (2)/IMPEDANCE-MATCHING PREAMP. FOR USE WITH CRYSTAL MICROPHONE/ELECTROLYTIC
PULSE DETECTOR SUITABLE FOR USE IN ATE. TESTERS, THAT REGISTERS PRESENCE OF PULSE & IF PULSE MEETS
PULSE-WIDTH DEMODULATOR DESIGNED AS PART OF OPTICAL-FIBRE INTERFACE BETWEEN COMPUTER & EHT.
BELL 2200B HIGH-FIDELITY AMP. INCLUDING EQUALIZATION, LOUDNESS COMPENSATION, SELECTOR, & BASS & TREBLE
SELF-POWERED CODE MAPPER THAT CAPTURES RECORD OF EMBEDDED SYSTEM'S PROGRAM (SOFTWARE) EXCEPT
MULTIBUS-GDC (GRAPHICS DISPLAY CONTROLLER) INTERFACE/DISPLAY MEMORY-VIDEO CONVERTER INTERFACE
SOLID-STATE SWITCH USING OPTICAL INTERRUPTER & MECHANICAL ACTUATOR TO INTERRUPT DIODE'S LIGHT IN
MULTISTOP CAMAC TDC. MODULE USING SHIFT REGISTERS, SEQUENCERS & RAM.S, TO MEASURE TIME SPECTRUM
VOLTAGE DIVIDER NETWORK FOR PHOTOMULTIPLIER (PT), FOR PULSE OPERATION, WITH RESISTANCES ADJUSTABLE
VOLTAGE DIVIDER FOR USE WITH 5CM RCA PMT.S USED TO DETECT LIGHT OUTPUT FROM SCINTILLATOR IN TIME
VOLTAGE-SENSITIVE PREAMP. WITH RISE TIME OF 50NS/SIMILAR PREAMP. USING DUAL GATE GAAS. MESFET.S, &
GOLD CODE GENERATOR INCLUDING 1ST & 2ND M-SEQUENCE GENERATORS & SYNCH. CCT (BBB)/DIGITAL MATCHING
PLL.
HILBERT TRANSFORMER WITH AMPLITUDE & PHASE ERRORS IN RANGE OF 1-5 %
TTL.-COMPATIBLE VCO. USING DUAL 1-SHOT (MONOSTABLE) TO GENERATE SIGNALS OVER 30:1 FREQUENCY RANGE
PULSED HOLLOW CATHODE PS. (REGULATOR)/CRYSTAL CLOCK WITH 1MHZ TO 1HZ OUTPUT CAPABILITY, CONSISTING OF
VOLTAGE ADAPTER INTERFACE FROM EPR TO APPLE II/VOLTAGE ADAPTER INTERFACE FROM APPLE II TO EPR
CALORIMETER-COMPUTER INTERFACE FOR OHIO SCIENTIFIC C2-8P MICROCOMPUTER
RELEASE & START-PULSE CCT USING DIFFERENTIATOR-VOLTAGE DIVIDER, CLAMPING ZENER DIODE & 1-SHOT/S
SOLID-STATE SCANNER ELECTRONICS INCLUDING TIMER TO GENERATE CARRIER/PRINTER ELECTRONICS INCLUDING
PLL. FREQUENCY MULTIPLIER THAT PRODUCES OUTPUT FREQUENCY 4 TIMES ITS INPUT FREQUENCY, USING NA
TELEPHONE EXCHANGE THAT ALLOWS CONNECTION OF UP TO 8 PULSE-DIALLING TELEPHONE SETS, CONNECTING
TTL. CRYSTAL OSCILLATOR/OSCILLATOR THAT PRODUCES SINE-WAVE OUTPUT OF 2-6V P-P/METAL DETECTOR IN
SOLID-STATE ELECTRIC GUITAR FUZZ BOX
SALLEN-KEY FILTER/MULTIPLE-FEEDBACK BANDPASS FILTERS/HIGH-PASS FILTERS

WALKING RING DIGITAL SINE-WAVE GENERATOR OF 8 STEPS/16-STEP WALKING RING DIGITAL SINE-WAVE GENERATOR
MULTITIMER (BBB)
CALIBRATED TIME BASE FOR OSCILLOSCOPES
VOLTAGE CONTROLLED PHASE SHIFTER (ALL-PASS FILTER USING FET. TRANSISTOR CONTROLLED BY GATE PULSE)
MULTI-PURPOSE TEMPERATURE CONTROLLER USED TO CONTROL COOLING FAN OF PC., INCLUDING THERMOCOUPLE
TTL.-TO-CMOS. INTERFACE
ALL-PASS NETWORK WITH FLAT AMPLITUDE RESPONSE FROM DC. TO 10KHZ +-1DB, BUT NONLINEAR (VARIABLE)
PULSE RECORDER CCT USING ASTABLE & MONOSTABLE MULTIVIBRATORS, DISPLAYS, IR. REFLECTIVE OPTOSWITCH
HALF-BRIDGE ZERO-VOLTAGE-SWITCHED QUASI-RESONANT CONVERTER (HB ZVS QRC)/2-CHANNEL, ISOLATED OUTPUT
MULTIPLE WAIT-STATE GENERATOR THAT MATCHES SLOWER PERIPHERAL CHIPS TO FASTER UP.S (BBB)
PULSE-FIRING CCT FOR INDUCTIVE LOADS
TTL.-COMPATIBLE FIBRE OPTIC LINK/RS232 REPLACEMENT LINK/AF. RECEIVER
SOLID-STATE TV. CAMERA USING MOS. PHOTOELEMENT ARRAY AS IMAGE SENSOR WITH 1024 PHOTOSENSITIVE ELEMENTS
FULLY ELECTRONIC WATT-HOUR (ENERGY) METER USING DUAL-SLOPE INTEGRATOR & TIME BASE ("TIME DIVISION")
SOLENOID VALVE CONTROLLER WITH BUILT-IN TIMING GENERATOR TO ALLOW SETTING OF VENTILATION RATE & DELAY
DELAY CCT WHOSE OUTPUT BECOMES ACTIVE AFTER SWITCH-ON PERIOD HAS ELAPSED UNTIL BEGINNING OF NEXT SWITCH
KILL SWITCH THAT CONNECTS TO PARALLEL PORT, TO AUTOMATICALLY TURN OFF COMPUTER, USING 8-BIT IDEAS
RELAY INCLUDING PEAK DETECTOR, COMPARATOR, FULLWAVE RECTIFIER, INTEGRATOR & LEVEL DETECTOR/INTEGRATOR
FULL WAVE RECTIFIER-FREQUENCY DOUBLER
TTL. COMPOSITE VIDEO SIGNAL GENERATOR/GENERATOR WITH REVERSE VIDEO & CHARACTER BLANKING
MULTIPLE-WAIT-STATE GENERATOR TO DELAY EXECUTION OF MACHINE CYCLE UNTIL DEVICE'S TASK COMPLETE
FULL 5 BIT BINARY 32 LINE TO 5 LINE ENCODER
TTL. DECADE COUNTER
VOLTAGE FREEZER
MULTIPLAYER LED. RACING GAME/PS./TONE CONTROL
PULSE GENERATOR BASED AROUND CONSTANT CURRENT GENERATOR, TO BURN FUSABLE LINK IN 63XX PROM
MULTIBAND COMMUNICATIONS SPEECH PROCESSOR BETWEEN MICROPHONE & RF. MODULATOR IN TRANSMITTER
RELAY CONTACT TESTER WITH VISUAL INDICATION OF FAILURE, & LOCK MECHANISM TO STOP DRIVE RELAY UPON FAILURE
POLE BIAS SCANNER TO INCREASE POLE BIAS VOLTAGE IN PROPORTION TO MASS TRANSMITTED, FOR OLD (EARLY) RELAY
RELAXATION QUARTZ OSCILLATOR USING TTL. IC GATES, & 1MHZ QUARTZ CRYSTAL PLACED IN FEEDBACK LOOP
PULSE PROGRAMMER USING TTL. UP-DOWN COUNTERS PROGRAMMED WITH THUMBWHEEL SWITCHES (BBB)/COUNTERS
COLORIMETRIC TITRATION INSTRUMENT (PRIMITIVE DOUBLE MONOCHROMATOR) USING LIGHT DETECTOR CONSISTING OF
TELEPHONE TOLL TOTALIZER TO ALLOW ONE TO SEE COST OF LONG DISTANCE CALLS WHILE MAKING THEM, USING
PULSE PAIR GENERATOR CONSISTING OF CRYSTAL CONTROLLED OSCILLATOR, VARIABLE & FIXED DELAYS, PULSE
DELAY CCT THAT REPLICATES (DUPLICATES) PULSES OF VARIABLE WIDTH, USING PARALLEL-CONNECTED 1-SHOT
RELAY CARD (EXTENSION) THAT CONNECTS TO UNIVERSAL IO. INTERFACE FOR IBM PC.S, TO CONTROL EQUIPMENT
PULSE GENERATOR TO TEST CABLE DRIVERS, PROVIDING VARIABLE-WIDTH PULSES DOWN TO 5NS AT UP TO 500KHZ
SPLIT-CONDUCTOR CURRENT SENSOR, WITH ACTIVE LOAD TERMINATION CCT USING OA. TO WHICH IS ADDED CURRENT
TELEPHONE JACK POLARITY TESTER USING DUAL COLOR LED. WHOSE COLOR INDICATES CORRECT POLARITY, USING
SOLAR PANEL CHARGE CONTROLLER USING FET.-SWITCHED DIVERSION REGULATOR SCHEME, INCLUDING OA., &
PULSE-TRAIN GENERATOR THAT PROVIDES UP TO 16 DIFFERENT PULSE INTERVALS WITH CONSTANT WIDTHS, USING
RELAXATION OSCILLATOR TO EXCITE TEST PROBE, & PEAK- DETECTOR/IA. WITH ZERO-SET POINT
MULTI-TONE GENERATOR CCT USING OA. AS SENSITIVE VOLTAGE COMPARATOR WITH ADJUSTABLE TRIP LEVEL
ERL (ENERGY RESEARCH LABORATORY) AUTOMATIC LAM (LOOK-AT-ME) MUX., USING 16-INPUT TTL. MUX.S, 8-BIT
SULPHUR-DIOXIDE (SO₂) METER FOR USE IN RESPIRATORY PATHOLOGY, USING EFFECT OF CHANGE IN CONDUCTIVITY
TTL. MONOSTABLE MULTIVIBRATOR/555 CCT IN MONOSTABLE MODE/STABLE-MONOSTABLE DIVIDER
SELF-BALANCING WHEATSTONE BRIDGE TO MAINTAIN PLATINUM CATALYST IN FORM OF WIRE COIL OR PELLIST
VOLTAGE CONTROLLED DELAY CCT OF SYNCHRONOUS PHASE MARKER, WITH ADJUSTABLE ADDITIONAL PREDICTION
MULTI-TRACE ADAPTER THAT ALLOWS 2, 4 OR 8 DIGITAL SIGNALS TO TIME-SHARE 1 TRACE OF OSCILLOSCOPE

MULTI-TRACE DISPLAY CHOPPER FOR SCOPE

COLOR BURST ETHER DUSTER (1W 80M QRP TRANSMITTER THAT OPERATES ON 3.579MHZ) USING 2 TTL. IC'S & T
VOLTAGE PROBE ALLOWING 3 VOLTAGE LEVELS OF 12V CAR BATTERIES TO BE DISPLAYED, INCLUDING MULTIVI
TTL. COMPATIBLE FIBER-OPTIC LED. DRIVER WITH GAIN STAGE/FIBER-OPTIC RECEIVER WITH TTL. OUTPUT/RECE
ALL-ELECTRONIC VERSION OF MECHANICAL 1 POLE, 4 POSITION ROTARY SWITCH DESIGNED AS TIMEBASE SELE
PULSE GENERATOR COMPOSED OF TTL. IC'S, TO GENERATE TRIGGER PULSES FOR SUPERPOSED PULSE ECHO
SELF-ZEROING DIRECT-READING OHMMETER WITH LINEAR SCALE
FILTER TO ATTENUATE SURFACE NOISE ON OLD 78-RPM. RECORDS (CONTINUOUSLY VARIABLE PASSIVE FILTER
NULL-DETECTOR-BRIDGE CCT TO MATCH RESISTORS TO WITHIN 0.5%, USING 3-LED. READOUT
HALF-STEPPING MOTOR DRIVE TO CAUSE STEPPER MOTOR TO MAKE HALF-STEPS, USING 8-BIT BIDIRECTIONAL
TTL. INTERFACE FOR HEDS-3000 BAR-CODE READER (DIGITAL WAND)/CMOS.-LOGIC INTERFACE FOR BAR-CODE
RELAXATION OSCILLATOR THAT GENERATES SAWTOOTH WAVEFORM OF FREQUENCY LINEARLY RELATED TO C
PULSE-GENERATING CCT (SIDEREAL-PULSE CCT THAT CONTAINS 3 BINARY COUNTERS CONNECTED IN SERIES)
VELOCITY SERVOS FOR ANKLE & PIP JOINT OF INDEX FINGER/POSITION SERVO FOR MCP JOINT OF INDEX FINGE
PULSE GENERATOR WITH VARIABLE PULSE WIDTH & VARIABLE REPETITION RATE, WITH DUTY CYCLE OF PULSE
TTL. LEVEL GENERATOR/100NS TTL. 1-SHOT/PULSE CATCHER (FF. WITH INDICATOR)/CCT TO CONVERT BIPOLAR
MCLK (MASTER CLOCK) CCT OF CONTROL CCT, INCLUDING VCO., PHASE COMPARATOR & FREQUENCY DIVIDER/
TTL. NOISE-PULSE DETECTOR FOR NARROW SIGNALS WITH VERY LOW REPETITION RATES/PS.

PULSE GENERATOR

TALKER INTERFACE BETWEEN PARALLEL & IEEE-488 BUS/LISTENER INTERFACE BETWEEN PARALLEL & IEEE-488
ALL-PASS FILTER USING VOLTAGE-CONTROLLED VOLTAGE SOURCE & TRANSISTOR SWITCH/SAME INCLUDING G
MULTI-STAGE VOLTAGE STEP-UP CCT (HV. GENERATOR)

PULSE-TRAIN GENERATOR

MULTIBUS STACKER-DESTACKER CCT TO TRANSLATE BYTE WIDE LOCAL CYCLES INTO 16-BIT WORD WIDE CYCL
SELF-OSCILLATING SERIES-RESONANT OSCILLATOR & RECEIVER USING TRANSFORMER, TO DEMONSTRATE INS
PULSE UNIT OF PULSE GENERATOR, THAT PRODUCES 1 PULSE WITHIN SEQUENCE, INCLUDING TTL. COUNTERS.
FULLY DIGITAL, MULTIPLICITY LOGIC UNIT THAT GIVES "MORE THAN" INFORMATION & NUMBER OF ACTIVE INPUT
COLPITTS CRYSTAL OSCILLATOR USING HCMOS (HIGH-SPEED CMOS.) SCHMITT-TRIGGER INVERTER, THAT DRIV
TELEPHONE BUG/PLL.-BC RECEIVER/TOUCH SWITCH/1MIN TIMER/TIME-DELAY RELAY DRIVER/WATER DETECTOR
SOLID STATE BAR-GRAPH VU METER PROVIDING SIGNAL-STRENGTH READOUTS & ACCURATE PEAK SIGNALS, U
PULSE INITIATION CCT

TELEPHONE RING-DETECTION CCT USEFUL FOR DETECTION OF HV. SIGNALS & CONVERSION TO COMMON LOGI
ALL-CMOS., DIGITAL TACHOMETER TO CHECK CAR'S ENGINE PERFORMANCE DURING TUNE-UPS & ON ROAD
MULTIVIBRATOR CCT/ASTABLE MULTIVIBRATOR

SOLID-STATE ION CURRENT AMP. FOR MS./LINEAR SCAN CCT (CAPACITANCE DISCHARGE CCT)

PLL. LINE SYNCHRONIZATION CCT/COMPARATOR INTERLOCK CCT FOR GENERATION OF SCR. TRIGGER PULSES
TTL. JOYSTICK CONTROLLING CCT TO GIVE PIEZOELECTRIC WALKER CORRECT SEQUENCE OF VOLTAGES IN AN
ALL-SOLID-STATE ALTIMETER USING PRESSURE SENSOR, THAT RESPONDS TO AIR PRESSURE TO PROVIDE ALT
PULSE GENERATOR DESIGNED TO TEST DIGITAL CCTS, WITH COVERAGE FROM 1HZ TO 10KHZ & 4 DUTY CYCLES
PULSED HIGH-CURRENT IR. LED. DRIVER (PULSER) USING TIMER AS OSCILLATOR THAT SENDS TRAIN OF PULSES
MULTIVIBRATOR TO ALLOW TRANSFORMER TO BE USED TO MAKE ISOLATED MEASUREMENTS OF DC. OR AC. CU
PULSE GENERATOR USING TIMER CHIP, WHOSE OUTPUT AT TTL. LEVEL IS SENT TO AFSK. GENERATOR, TO OBT
SOLID STATE STEPPING SWITCH TO MAKE SWITCHING OF 48 CHANNEL MOBILE TRANSCEIVER SAFE WHILST MO
FULLY DEBOUNCED KEYBOARD

MULTIFUNCTION INTERFACE UNIT (MIU) THAT CARRIES DAC.S, DIGITAL IO. PORTS & 12-BIT ADC. (BBB)

WALKING RING SEQUENCER

PULSING CCT THAT MAKES TELRAD VIEWFINDER'S BULL'S-EYE PULSE, TO RESOLVE DIFFICULTY OF AIMING DEV
SOLENOID INTERFACE TO COMPUTER/CCT FOR AUDIO DIALING, TO GENERATE TONES USED FOR DTMF. (TOUCH
POLYPHONIC KEYBOARD INTERFACE INCLUDING MUX. ARRAY THAT IS SCANNED BY COUNTERS, ALLOWING MO

SELF-TIMING SSR. THAT DRAWS JUST NANOAMPERES IN STANDBY MODE, USING TIMER'S DISCHARGE TRANSISTOR
PULSE CHARGER FOR GELL-CELL(R) BATTERIES, USING TIMER OPERATING AS A STABLE OSCILLATOR TO PROVIDE
POLYCONDUCTOR SENSOR FOR MICROWAVE & LASER BEAM DETECTION, CONSISTING OF MOD. WHEATSTONE
VOLTAGE FEEDBACK CCT TO COMPENSATE FOR TEMPERATURE-DEPENDENT SHIFT OF EXCITONIC PEAK ENERGY
PULSE WIDTH MODULATION CONTROLLER (PWM. CONTROLLER)
MULTIFUNCTION CARD THAT APPEARS TO MICRO CHANNEL ARCHITECTURE BUS AS EXTENDED MEMORY OR 2 S
MELODY BOX THAT CHANGES NOTE PITCH OF OSCILLATOR USING TIMER IC BY CHANGING ITS TIMING ELEMENT
PULSE DISCRIMINATOR CCT/LINEAR PULSE RATEMETER/PMT. OUTPUT & INTERCONNECTION
PULSE-HEIGHT DISCRIMINATOR
TELEPHONE RING INDICATOR USING IR. PHOTOTRANSISTOR, TIMER & NEON LAMP/9V DC. PS./CCT TO ADAPT IN
SELF TIMER FOR KODAK DISC CAMERA/INTERNAL TIMER/LIGHT-ACTIVATED SCR. TRIGGER
PULSE-PROPORTIONAL RC (RADIO CONTROL) DECODER FOR DISC CAMERA, USING LED.-PHOTOTRANSISTOR OF
RELAY BACKUP SYSTEM/CCT FOR DRYBULB & DEWPOINT TEMPERATURE MEASUREMENT & CONTROL, USING 65
SOLENOID DRIVER OF STIMULUS INTERFACE (DELIVERY) SYSTEM, USING POWER FET. GATED WITH 5MS PULSE
MULTIPLICATION CCT (RATE-MULTIPLIER DEMONSTRATION CCT)
VOLTMETER CCT USING ITT VACUUM THERMISTOR & THERMOCOUPLE/AMMETER CCT USING ITT VACUUM THERM
BELL CCT-MOMENTARY PULSE INPUT FOR UNIBOARD/CCT SHOWING CHANGE TO RESET CCT TO PREVENT LOCK
SOLAR CHARGERS FOR DIGITAL METER, SMALL SAILBOAT, RADIO-CONTROL MODEL PLANE
SOLENOID TESTER/EARTHQUAKE DETECTOR/RISETIME TESTER/AUDIBLE TEMPERATURE PROBE/TONE-BURST C
VOLTAGE DIVIDER FOR PMT., TO ADJUST FOCUSING & DYNODE VOLTAGES & PROVIDE ADEQUATE FLEXIBILITY F
DELTA-SKEW GENERATOR FOR TESTING DEVICE WITH ASYNCHRONOUS RELATIONSHIPS BETWEEN READ & WR
PLL. CCT TO DECODE SCA BACKGROUND MUSIC ON FM. BC.
FULL-WAVE, VOLTAGE-DOUBLER CCT USING HV. SERIES DIODES, IN HEATHKIT 200-220 SERIES OF LINEAR AMP.S
POLE-INTERPOLATION DRIVE TO GENERATE 4-PHASE SINUSOIDAL-RAMP CURRENT FOR MICROSTEP TO CONTR
FILTER-MOD. CCT FOR IF. STRIP OF TEN-TEC 540 RIG, TO SHARPEN CW. & SSB. SELECTIVITY, USING TRANSISTOR
TELEPHONE AMP. USING INDUCTIVE PICK-UP/CCT TO ADD TREMOLO, USING PLL./DARKROOM TIMER/BACK-UP BE
TALKING LOGIC PROBE (VOCAL DIGITAL TROUBLESHOOTING TOOL) THAT RECONSTRUCTS SPEECH PATTERN FO
MULTI-OCTAVE AMP. BROADBAND FROM 7MHZ TO 225MHZ & ABLE TO DELIVER OUTPUT OF >200W, USING GE
SOLID-STATE DOSE-RATE OUTPUT MONITOR FOR USE IN SUPERFICIAL X-RAY SET, USING SILICON RECTIFIER DI
SOLARIMETER CCT (RELATIVE LIGHT-LEVEL METER) TO MEASURE AMOUNT OF SOLAR ENERGY REACHING EART
PULSE STRETCHER/PIN MONITOR CCT/PULSE GENERATOR/POWER-DISTRIBUTION CCT
SELF-BALANCING BRIDGE THAT CONTINUOUSLY ADJUSTS CURRENT FLOW, TO MEASURE POWER NEEDED TO M
MULTIPROCESSOR SYSTEM INCLUDING 11-UNIT, 32-BIT V80 UP. (MPU.), FLOATING-POINT COPROCESSOR & CACH
VOLTAGE-REGULATOR CCT WITH PASS TRANSISTOR FOR ADDITIONAL CURRENT/SAME CCT WITH SHORT-CCT P
COLOR TELL UNIT THAT ENABLES BLIND TO RECOGNIZE COLOR THEY TOUCH (BBB)/SIGNAL ACQUISITION SECTIO
VOLTAGE MOTOR BOX CONSISTING OF 0-5V VARIABLE-VOLTAGE DC. SOURCE, WITH FIXED-VOLTAGE SOURCES
VOLTAGE DIVIDER NETWORK FOR PHOTOMULTIPLIER HIGH GAIN APPLICATIONS/VOLTAGE DIVIDER FOR PHOTON
SELECTIVE DTMF. DECODER & RELATED CCT, INCLUDING 4 TO 16 MUX., WITH RESET & FREQUENCY-MONITORING
VOLTAGE DIVIDER CHAIN FOR EMI PHOTOMULTIPLIER WITH FAST RISETIME, 5IN CATHODE & QUARTZ WINDOW, F
TELEPHONE CONTROLLER USING CMOS. Z80/ANALOG-INTERFACE CCTS, INCLUDING SPEECH SYNTHESIZER, AD
COLORIMETER SHOWING LED.S/WHEATSTONE BRIDGE USING PHOTORESISTORS/PS. USING SILICON RECTIFIER
RELAY LAMP DRIVER USING FLASHING LED./CMOS. 1HZ LAMP FLASHER USING MOSFET./LIGHTWAVE RECEIVER/
VOLTAGE DIVIDER USED WITH EMI PMT. WITH TOTAL POTENTIAL DIFFERENCE OF 2.4KV BETWEEN PHOTOCATHOD
MULTI-RAIL PS. FOR INTELLIGENT EPROM. PROGRAMMER/PROGRAMMING ADAPTOR FOR 8741, 8748 & 8749 1-CH
PULSE GENERATOR USING 2 THYRATRONS, SUITABLE FOR HIGH PRF COPPER HALIDE LASERS, CAPABLE OF RE
VOLTAGE REGULATOR ON OUTPUT OF DC. WALL TRANSFORMER POWER UNIT/RECTIFIER, FILTER, & REGULATOR
MULTI-IO. & TIMER EXTENSION BOARD FOR MSX COMPUTERS, USING PIO (PARALLEL IO.), CTC (COUNTER-TIMER)
SPLIT RAIL PS. FOR OA. CCTS
TELEPHONE ADAPTOR BOARD TO PROVIDE SWITCHING & IMPEDANCE-MATCHING FUNCTIONS & CONTROL STAT

TELEPHONE-SECURITY SYSTEM (3)/OPTIONAL ANSWER MODULE/TRIAC INTERFACE TO DRIVE AC. LOAD/HIGH-POWER
TELEPHONE INTERCOM USING 12V PS./CCT TO ACTIVATE TAPE RECORDER WHEN PHONE IS OFF HOOK/TELEPHONE
SELF-OSCILLATOR THAT PREVENTS INTERFERENCE FROM BIAS MAGNETIZATION LOOP
VOLTAGE MEASUREMENT CCT FOR COUNTERS
CELLULAR PHASE-SHIFTER CCT OF 8-LEVEL PSK. TRANSMITTER OPERATING AT STANDARD FREQUENCY OF 170
PULSE-ANALOG AMP. INCLUDING TRANSISTOR STAGE, & INTEGRATING CURRENT-TO-VOLTAGE CONVERTER TO
PULSE CONDITIONER INTERFACE CCT TO CONDITION SIGNALS FROM ANEMOMETER HOOKUP USING LAMP & PHOTODIODE
VOLTAGE-VARIABLE GYRATOR USING MONOLITHIC TRANSISTOR ARRAYS FOR TRANSISTORS REQUIRING CLOSE
PULSE-HEIGHT MEASUREMENT CCT WITH 12-BIT ACCURACY, USING FAST TRACK-&-HOLD (T-H) AMP. & ADC./CCT
DELAY & CLOCK GENERATOR (DCG) INCLUDING DELAY LINE, TO PROVIDE PULSE TRAIN WITH PROGRAMMABLE
GALVANOSTAT (CONSTANT CURRENT SUPPLY) CAPABLE OF DELIVERING CONSTANT CURRENTS OF 10-100MA IN
HELIUM-COOLED RECEIVER COIL & PREAMP. THAT GIVE SIGNIFICANT IMPROVEMENTS IN SENSITIVITY
FILTER NETWORK (BANDPASS FILTER WITH 50HZ CENTRE FREQUENCY, PASSBAND GAIN OF 42DB & Q OF 5.4) USING
MULTI-RANGE VOLTMETER/WIEN BRIDGE OSCILLATOR/LOW-LEVEL LIGHT DETECTOR/RIAA PREAMP. & TONE CONTROL
SILICON PHOTODIODE & AMP. ASSEMBLY FOR SYSTEM TO ASSESS REFLECTIVITY OF SKIN SITES ON BODY, MEASURING
TELEPHONE REPEATER
BALANCED BIAS DIFFERENTIAL CURRENT AMP. TO PRODUCE AMPLIFIED, SINGLE-ENDED OUTPUT SIGNAL FROM
TDL SYSTEM MONITOR BOARD CASSETTE RECEIVER INTERFACE/NEW VERSION OF SAME, WITH STABILIZED SENSITIVE
VOLTAGE-CONTROLLED ATTENUATOR INCLUDING 2 OA.S & OUTPUT TRANSISTORS THAT FORM DIFFERENTIAL AMPLIFIER
PELTIER BATTERY COOLING THERMOSTAT INCLUDING CHOPPER, HIGH INPUT IMPEDANCE AMP., BIASED AMP., DUAL
TELEPHONE LINE AUDIO MONITOR WITH WHICH PHONE CALL STATUS IS MONITORED DURING PHASE OF SIGNAL
MILLIVOLT CHOPPING SECTION OF INTEGRATOR/PULSE DIVIDER (USING BINARY RIPPLE COUNTER) & DAC./POWER
TELETEXT-VIEWDATA SYSTEM (BBB)/TRANSMITTER & RECEIVER OF IR. REMOTE-CONTROL SYSTEM (2)/TELETEXT
MULTICHANNEL TELEMETER/TELEMETRY RECEIVER/CCT TO MONITOR AMPLITUDE & FREQUENCY OF STANDARD
SELF-SENSING HEATER USING WHEATSTONE RESISTOR BRIDGE (INCLUDING PTC. WIRE-WOUND RESISTOR), & CURRENT
NULL DETECTOR FOR CAPACITANCE MANOMETER, CONSISTING OF LF. CAPACITANCE BRIDGE WITH AMP. TO PROVIDE
TELEPHONE INTERFACE CARD OF STORM-PHONE MONITOR, TO TURN ON OR OFF (SWITCH) SYSTEM POWER TO
PULSE PERIOD TO VOLTAGE CONVERTER TO CONVERT PERIOD OF WAVEFORM TO VOLTAGE, INCLUDING INTEGRATOR
PULSE-SKIPPING, STEP-UP SWITCHING REGULATOR THAT CONVERTS 3V DC. TO REGULATED 5V DC. WITH 78% EFFICIENCY
POLARIZING VOLTAGE SOURCE & AMP. UNIT, USING FET. OA.S TO AMPLIFY ELECTRODE CURRENT, & FOR ZERO
VOLTAGE-SAG SENSOR THAT ENSURES THAT WHEN VDD FALLS BELOW PRESCRIBED LIMITS, RAM. ARRAY IS DELETED
MULTIPLIER-LIMITER CCT TO MULTIPLY IF. CARRIER BY SIDEBAND INFORMATION TO PRODUCE FULL-WAVE RECTIFIED
CELL AMP., INTEGRATOR & INTEGRATOR CONTROL CCTS OF APPARATUS TO MEASURE BLOOD OXYGEN CONCENTRATION
FILTER USING PROGRAMMABLE, SWITCHED-CAPACITOR FILTER IC (WHOSE INTERNAL OA. IS BAND-PASS FILTER)
PULSE NMR. SPECTROMETER IN WHICH PHASE SHIFTING IS DONE DIGITALLY, & WHOSE PULSE PROGRAMMER IS
FILTER SECTIONS FOR SUPERSCAF & JUNIORSCAF/SUPERSCAF AUDIO-AMP./PS./DC.-TO-DC. CONVERTER
SELF-BALANCED PICOWATT AC. CONDUCTIVITY BRIDGE CCT TO DETECT ADDENDA TEMPERATURE & RIPPLE AMPLITUDE
PULSE REGULATOR CCT COMBINING ASPECTS OF PWM. & PULSE-INTERVAL MODULATION/BUCK REGULATORS (BUCK)
VOLTAGE STEP-UP CCT/CCT THAT PROVIDES STEP-DOWN REGULATION/CCT THAT DELIVERS 6-7A
SALLEN & KEY POSITIVE-FEEDBACK BANDPASS FILTER/UNITY-GAIN DUAL-SOURCE LPF./ACTIVE-R BANDPASS FILTER
PULSE DURATION-TO-VOLTAGE CONVERTER TO CONVERT TIME BETWEEN 2 SUCCEEDING ECHOES INTO VOLTAGE
MULTIFUNCTION INTERFACE (BBB)/LAMP & MONOCHROMATOR CONTROL CCT/DYNAMIC ANALOG INPUT INTERFACE
FULL-WAVE LINE-POWERED PS./DC. PS.
FILTERING & AMPLIFYING CCT FOR OBTAINING HUMAN ECG. RECORDING FROM BATHTUB FILLED WITH TAP WATER
MULTILEVEL FLASH ADC. FOR 50-750MV SIGNAL LEVELS, USING COMPARATORS, 8-BIT DAC.S, & OA. TO CONVERT
VOLTAGE INVERTER THAT INVERTS POSITIVE VOLTAGE INTO NEGATIVE VOLTAGE/VOLTAGE DOUBLER THAT DOES NOT
COLPITTS OSCILLATOR USED FOR RF. OPTOGALVANIC SIGNAL MEASUREMENT, USING TUBE TO MAINTAIN HIGH
SOLITON STORAGE RING USING HIGH-SLEW-RATE DIFFERENTIAL OA./TRANSMISSION LINE CONTAINING CAPACITORS
BALANCED VOLTAGE-CONTROLLED PHASE SHIFTER WITH INPUT & OUTPUT TRANSMISSION LINE BALUNS, USING

ECL.-COMPATIBLE CLOCK OSCILLATOR USING 1143MHZ SAW. OSCILLATOR, GAASFET., & ULTRAHIGH-SPEED, BIF
PLL./PHASE-LOCKED LO./PHASE-LOCKED OSCILLATOR/DOUBLE BALANCED DEMODULATOR
ALL-PURPOSE AMP./HEADPHONE AMP./NOISE LIMITER/RF. PROBE CCT/AUDIO GENERATOR/CONTINUITY CHECKER
BALANCED MODULATOR USING SBL-1 DIODE DBM./TEST FIXTURE WITH >0DBM INPUT TO ENSURE DIODES HAVE
ALL-TRIODE, 10W VT AMP. USABLE AS TWEETER AMP., & REGULATED PS. USING PENTODE DC. AMP./ALTERNATE
FULLY FREQUENCY AGILE RF. MODEM USING DATA RECEIVER IC, INCLUDING FSK. TRANSMITTER & RECEIVER, &
PLL. 225MHZ FREQUENCY SYNTHESIZER USING DUAL-MODULUS PRESCALING TECHNIQUE
VOLTMETER CCT USING DVM. CHIP & LCD. DISPLAY/SENSOR & SWITCHING SECTIONS OF THERMOMETER
VOLUME MEASUREMENT SYSTEM USING PIEZORESISTIVE DIFFERENTIAL PRESSURE SENSOR, AMP. USING OA.S
SELF-TEST CCT FOR MOTOROLA ROM.-BASED MICROCONTROLLER, CAUSING DEVICE TO USE ALTERNATIVE VEC
CALLER ID ANALOG FRONT END USING CALLER ID CHIP, ACCEPTING TONES FROM FCC PART 68 INTERFACE & C
MULTIVIBRATOR FOR RF. BRIDGE TO MEASURE UNKNOWN IMPEDANCE (CAPACITANCE OR INDUCTANCE)
ECL. PHASE SHIFTER (BBB)/QUADRATURE RECEIVER (BBB)/SIMPLE CCT TO MONITOR DUTY CYCLE OF A PULSE T
PULSE-WIDTH-MODULATED (PWM.) AUDIO AMP. FOR VOICE-GRADE COMMUNICATIONS RECEIVERS
VOLTAGE DIVIDER NETWORK FOR PMT.
VOLTAGE REFERENCE CCT/ADC. CCT USING REFERENCE/10.000V VOLTAGE REFERENCE CCTS (2)/1.2V REFEREN
MULTIVIBRATOR DRIVING '3-COLOUR' LED., TO INDICATE 1 OF 6 MODES OF CASSETTE RECORDER, USABLE IN SI
TELEPHONE-RING DETECTOR TO LIGHT LED. OR POWER LED. OPTOCOUPLER/CCT USING COMBINED RING DETE
MULTIFUNCTION SIGNAL PROCESSOR USING GATED VIDEO AMP. & 2 WIDEBAND OA.S, WITH BW. OF DC. TO >15M
HALF OF HIGH-RESOLUTION PORTION OF TIME RECORDER, INCLUDING DELAY LINE/HIGH-PERFORMANCE DIGITA
TTL. OSCILLATOR USED AS PULSE GENERATOR SOURCE FOR TDR.
VOLTAGE DIVIDER IN PMT. BASE, DRAWING CURRENT OF 1.8MA AT -1900V, ALLOWING FOR ADJUSTMENT OF FOC
CALLER ID CCT USING MOTOROLA PHONE-CALLER IDENTIFICATION CHIP FEATURING INTERNAL RING DETECTION
TELEGUARD SECURITY SYSTEM USING PULSE-TONE REPERTORY DIALER WITH BUILT-IN, LAST-NUMBER-REDIAL
MULTIPLE-XOR CCT OF TRIGGER OF LOW ENERGY NEUTRON DETECTOR (BBB)/GATED XOR COINCIDENCE CCT (B
MULTICHANNEL COMPUTER-CONTROLLED AUTOCLAVE MONITOR
TALKING ANALOG WATTMETER ADD-ON USING SINGLE-CHIP MICROCOMPUTER, ADC., SPEECH PROCESSOR & FU
TELEPHONE DEVICE TESTER TO TEST WIDE VARIETY OF TELEPHONE EQUIPMENT INCLUDING ANSWERING MACH
PULSE OUTPUT STAGE THAT PROVIDES CONSTANT-VOLTAGE OUTPUT PULSE, WITH VOLTAGE STABILITY OF BET
TELEPHONE-BELL REPLACEMENT CCT WITH ON-CHIP DIODE BRIDGE, TRANSIENT PROTECTION & DIRECT DRIVE
TTL. CONTROL CCT (SEQUENCER) FOR BIDIRECTIONAL PARALLEL INTERFACE BETWEEN 2 UP. SYSTEMS, USING
MULTIPLYING VIDEO MIXER THAT PLACES TRANSPARENT OVERLAY ON ALL OR PORTION OF NORMAL (BACKGRO
MULTIVIBRATORS (INCLUDING 5KHZ & 20KHZ VERSIONS) THAT PROVIDE SQUARE WAVES IN BOTH POLARITIES, U
TELEPHONE MONITOR INCLUDING CURRENT SOURCE, HIGH-EFFICIENCY LED.S, & BRIDGE CCT TO ACCOMMODA
HALF-BRIDGE SELF-OSCILLATING 220-12V CONVERTER WITH CHOPPER FREQUENCY IN 25-40KHZ RANGE, INCLUD
TELETYPEWRITER MOTOR TURN-OFF TIMER CCT
PULSE GENERATOR (3)/STABILIZATION UNIT (3)/EXPERIMENTAL ARRANGEMENT INCLUDING TEMPERATURE REG
TTL.-RS-232 LEVEL CONVERTER BETWEEN IBM PC. & TS-940, USING RS232 QUAD LINE RECEIVER, RS232 QUAD LI
MULTIFACETED TELEPHONE SYSTEM FOR SMALL OR PERSONAL COMPUTER (PC.), INCLUDING MICROCOMPUTER
PULSE GENERATOR USING DUAL 1-SHOT (MONOSTABLE MULTIVIBRATOR) & XOR GATE, TO PRODUCE PRECISE S
BALANCED LINE DRIVER & RECEIVER THAT DERIVES POWER FROM RS-232C INPUT SIGNALS, USING DC.-DC. COM
2-LINE TELEPHONE ANSWERING-MACHINE INTERFACE THAT AUTOMATICALLY SWITCHES 1 ANSWERING MACHIN
VOLTAGE-CONTROLLED OSCILLATOR (VCO.)
TELEPHONE MELODY RINGER CCT THAT PLAYS DIFFERENT MELODY EACH TIME TELEPHONE RINGS, USING TEL
PULSE-ECHO RECEIVER THAT RESPONDS TO WIDEBAND SIGNALS
MULTIWIRE-MULTIGRID GAS DETECTOR BUILT FROM 14 ANODIC GRIDS, EACH OF WHICH IS COUPLED TO DUAL W
R-L-D CCT THAT CAN PRODUCE SUBHARMONICS & CHAOS/SERIES-RESONANT CONVERTER/CONTROLLED RECTI
VOLTAGE POLARITY CONVERTER/VOLTAGE MULTIPLIERS (3)/SQUARE-WAVE OSCILLATOR
MULTISTANDARD VIF-SIF (VISION IF.-SOUND IF.) & AM. SIF APPLICATION CCT FOR EUROPEAN IF. APPLICATION IN

MULTIPLE-OUTPUT-VOLTAGE PS. FOR PC.S, USING DISCONTINUOUS-MODE FLYBACK REGULATOR TO PROVIDE C
 TELEPHONE-LINE CHECKER/EXTENSION PHONE LOCKOUT CCT/EXTENSION PHONE BUSY INDICATOR CCT/AUTO
 SELECTABLE-GAIN DIFFERENTIAL PREAMP. USING ANALOG DEVICES IA. TO REALIZE DIFFERENTIAL GAIN-LEVEL
 PULSE-WIDTH CONTROLLER FOR DC. MOTORS, PROVIDING LOGIC SELECTION OF 2 PRESET SPEEDS, USING 2 AS
 SELF-OSCILLATING INVERTER THAT SUPPLIES 240VAC SUPPLY WHERE ONLY LV. DC. IS AVAILABLE, USING AUDIO
 MULTISTANDARD MAC (MUX.ED ANALOGUE COMPONENTS) TV. DECODER THAT ALSO DESCRAMBLES, USING PH
 SOLID-STATE CONTROL SYSTEM FOR HOUSE TEMPERATURE/MICROCOMPUTER CONTROL CCT TO CONTROL SO
 PULSE REPEATERS (2)/HIGH-SPEED FLASH ADC./SH.-AMP. CCT WITH TRANSIMPEDANCE AMP. FOR INPUT STAGE
 PLL. JITTER GENERATOR TO INJECT CLOCK JITTER INTO ADC. BOARD OF JITTER EXPERIMENT TEST SETUP, INCL
 HALL PROBE SYSTEM USING HALL-EFFECT IC AS SENSOR, & 10-BIT ADC. & DAC., & OA./B-DOT PROBE SYSTEM US
 VOLTAGE INTEGRATOR USING INVERTED AMP. WITH GAIN OF 100 & INPUT IMPEDANCE OF 50OHM & MILLER TYPE
 CELLULAR-PHONE SYSTEM BASED ON 6-CHIP SET, INCLUDING MICROCONTROLLER, AUDIO-PROCESSOR SYSTEM
 SOLID-STATE TIMER TO KEEP COMPRESSORS FROM DESTRUCTIVELY CYCLING ON & OFF, CONSISTING OF VOLT
 MELODIC TELEPHONE RINGER TO REPLACE STANDARD RING WITH YOUR OWN PLEASANT TUNE
 SELF-GATED SH. USING PLL., THAT CAN REMEMBER FREQUENCY OF SHORT-DURATION SIGNAL
 MULTIPLIER-DIVIDER WITH DIFFERENTIAL INPUT, PROVIDING SOLUTION TO MANY WIDE BW. AGC. PROBLEMS
 PULSING SYSTEM TO SWITCH ELECTRON BEAM IN GUN FOR SINGLE ENDED ACCELERATOR, WHERE PULSED LIG
 CALORIMETER CONTROL CCT TO ALLOW KELVIN TEMPERATURE OF BASE & BEAM STOP TO BE MONITORED, USI
 CHLORIDING MONITOR THAT DISPLAYS IMPEDANCE FROM EACH GROUP OF 12 ELECTRODES & 1MOHM REFERE
 COLOR-BAR GENERATOR USING SYNC GENERATOR TO PROVIDE COMPOSITE-SYNC TIMING SIGNALS, & COLOR
 VOLTAGE REFERENCE CONFIGURED TO HAVE PTC./VOLTAGE REFERENCE CONFIGURED TO HAVE NTC.
 PLL. TO GENERATE 80MHZ SINEWAVE REFERENCED TO 20MHZ SINEWAVE, INCLUDING PHASE DETECTOR STAGE
 PULSE-PULSE TRAIN GENERATOR THAT PRODUCES 1 PULSE IF PUSH-BUTTON IS PUSHED FOR SHORT TIME, & S
 PULSE GENERATOR WITH INDEPENDENT CONTROL OF FREQUENCY AND DUTY CYCLE OVER RANGE 20HZ-200KH
 RELIABLE DTMF. RECEIVER/ENVELOPE-DECAY DETECTOR/CCT FOR DTMF. RECEIVER IF 2-OF-8 OUTPUT IS REQU
 PULSE-FORMING UNIT USING NEC SRD. THAT FORMS FAST-RISING VOLTAGE STEP THAT IS DIFFERENTIATED BY
 COLD JUNCTION COMPENSATION/SET-POINT CONTROLLER/THERMOCOUPLE PRE-AMP.
 PULSE-REPETITION FREQUENCY FILTER TO RECOGNIZE BURST OF PULSES WITH DEFINED MINIMUM & MAXIMUM
 WALKMAN CASSETTE PLAYER PREAMP. OPERATED AT VERY LOW SUPPLY VOLTAGE OF 3V TO 6V
 CALIBRATION PULSE GENERATOR INCLUDING PHASE SPLITTER FOR STROBE PULSE, & WHITE FOLLOWER WITH
 SOLID-STATE PS. TO PULSE PIEZOCRYSTAL, INCLUDING POWEREX DUAL DARLINGTON TRANSISTOR MODULE CO
 DELUXE EARTH CHALLENGER II METAL DETECTOR/TRANSMITTER OF GEMINI II TR. METAL DETECTOR/RECEIVER
 VOLTAGE CLAMP TO STUDY CELL MEMBRANE EXCITATION EVENTS, USING INPUT & FEEDBACK AMP.S, VOLTAGE
 MULTIPLIER USING PRETRIMMED, SINGLE-CHIP MULTIPLIER-DIVIDER/DIVIDER/CCT TO PROVIDE DIFFERENCE OF
 VOLTAGE-TO-DUTY-CYCLE CONVERTER TO MULTIPLY OR DIVIDE WITH ACCURACY OF >1 PART IN 1000, USING TI
 SELF-OSCILLATING FLYBACK CONVERTER USING CONTROLLER WITH AUXILIARY SUPPLY & EXTENDED SUPPLY V
 HALF-WAVE RECTIFIERS USING VERY LV. OA., PRODUCING POSITIVE & NEGATIVE-GOING OUTPUTS (2)/FULL-WAV
 WALTZ-16 DECOUPLER RUNNING ON INTERNAL CLOCK OUT OF SYNCHRONISM WITH CARBON-13 ACQUISITION R
 SOLID-STATE SCA DECODER TO RECEIVE BACKGROUND MUSIC THAT FM. STATIONS TRANSMIT ON 67KHZ SUBC
 MULTICHANNEL 7-RANGE ELECTROMETER TO PROCESS SIGNAL FROM PMT., PERMITTING CURRENT MEASUREM
 PLL. USING LOW POWER IC (CONTAINING GILBERT CELL MULTIPLIER & OSCILLATOR STAGE IN VARI-CAP TUNED,
 COLOUR PALETTE BOARD TO EXTEND POSSIBILITIES OF FRAME STORE WITH VARIETY OF COLOUR EFFECTS
 TELEMETRY (DIRECTIONAL) FLOWMETER & TRANSMITTER, INCLUDING DBM.S, SH. & VCO./DEMODULATOR INCLU
 HALF-DUPLEX 2M-BIT-S FSK. MODEM, USING TRANSMITTER & RECEIVER CHIPS
 BALANCED INPUT AMP./BALANCED-INPUT MICROPHONE AMP./BALANCED-INPUT DISC STAGE WITH RIAA EQUALIZ
 CALIBRATOR INCLUDING POWER CONTROL, VOLTAGE REFERENCE, SWITCHING NETWORK, VOLTAGE DIVIDER, P
 VOLUME-TONE-BALANCE-CONTROL CCT/POWER AMP./SPEAKER PROTECTION CCT/PS.
 4-LEAD AC. BRIDGE FOR USE IN PRECISION CONTROL APPLICATIONS
 RELIABLE MARX SCR. CCT (PULSE GENERATOR) WITH NO WARM-UP OR HEATER POWER, TO PRODUCE 13KV OU

VOLUME CONTROL CONSISTING OF 2 LADDER NETWORKS & BUFFER, WITH ATTENUATION SET WITH AID OF MUX
DELAYED CROWBAR CCT FOR NONDESTRUCTIVE IMPULSE TESTING OF FUSES & ELECTROEXPLOSIVE DEVICES
RELATIVELY STRAIGHTFORWARD DIFFERENTIAL INPUT IA. USING BIFET. OA. WITH GOOD CMRR./SPLIT PS.
POLARITY INVERTER TO RUN NEGATIVE-GROUND-ONLY RIG IN POSITIVE-GROUND VEHICLE, TO PRODUCE +13.8V
BILLING-DELAY TIMER/DRY-TRANSFORMER PROTECTION CCT/WET-TRANSFORMER ISOLATION & SURGE-PROTECTOR
FILTER FOR BURIED-ZENER 10V REFERENCE, INCLUDING BUFFER, WITH LOW OUTPUT IMPEDANCE, TO REDUCE
PULSE GENERATOR WITH PULSE LENGTH OF 2.5US, PEAK VOLTAGE OF 1KV & PULSE REPETITION FREQUENCY
PULSED CRYSTAL SIGNAL SOURCE (CRYSTAL CHIRPER) USING SIMPLE JFET. PIERCE CRYSTAL OSCILLATOR & 5
BALANCING CCT USED TO KEEP TEMPERATURE OF SAMPLE & REFERENCE CELL WITHIN 1DEG OF EACH OTHER
PULSE-SHAPE DISCRIMINATOR INCLUDING SHAPING STAGE, ZCD., DELAY STAGE, LOGIC STAGE & PS. (2)/LOW PO
MULTI-BOARD ONE (MB-1) THAT PERFORMS 10 FUNCTIONS INCLUDING SIGNAL GENERATOR, MONOSTABLE, TIME
PLL. TO CAPTURE & LOCK TO & PROVIDE DC. SIGNAL PROPORTIONAL TO LOGARITHM OF ANY INPUT FREQUENC
SOLAR CELL EFFICIENCY TESTER
VOLTAGE SUPPLY FOR DC.-DC. INDUCTIVE ENCODER
VOLTAGE-DOUBLING CCT, REGULATOR OF WHICH IS CONTROLLED BY CPU. FOR 21V DC. EEPROM. PROGRAMMI
WELL SHIELDED VERY LOW NOISE 12MHZ CRYSTAL OSCILLATOR WITH TTL.-LEVEL CLOCK OUTPUT, INCLUDING E
PLL. FREQUENCY MULTIPLIER TO SYNTHESIZE FREQUENCIES IN STEPS OF 1HZ FROM 1 TO 399999HZ, WITH SYM
MULTIPLYING FREQUENCY LOCK LOOP WITH 400HZ 50-50 DUTY CYCLE OUTPUT LOCKED TO 100HZ INPUT, USING
VOLTAGE CLAMP & CURRENT MONITOR, USING FET. OA. & DIFFERENTIAL AMP./DATA SAMPLING DEVICE INCLUDI
VOLTAGE AMP. & DRIVER, OF POWER AMP., USING TUBES/OUTPUT STAGE-CURRENT AMP. USING MOSFET.S/HV.
ALL-PASS PHASE SHIFTER WITH UNITY GAIN & VARIABLE PHASE OVER 4 TO 176DEG/CCT THAT DIGITAL ADJUSTS
MULTI-DIRECTIONAL SOUND DECODER FOR MOVIE-THEATRE SOUND TV. VIEWING, USING BLENDER, REAR DIFFE
VOLTAGE FOLLOWER (VF) TYPE CURRENT-TO-VOLTAGE CONVERTER/CURRENT MEASURING CCT OF POTENTIALS
PULSE SHORTENER & GATED INTEGRATOR, INCLUDING AC. & DC. COUPLED AMP.S & VOLTAGE CONTROLLED CU
ALL-SOLID-STATE EXCITER (ASSE) INCLUDING 3-STAGE MAGNETIC PULSE COMPRESSOR (MPC) & HV. PULSE GEN
BNL (BROOKHAVEN NATIONAL LABORATORY) LOW NOISE WIDEBAND COMMON BASE AMP. USED DURING NOISE
SELF-BALANCING BRIDGE TO COMPENSATE FOR CHANGES IN STATIC-PATH TRANSPARENCY ACROSS OPTOINTE
MULTIPLE INTERPOLATOR, INCLUDING TIME STRETCHER CONSTANT CURRENT SOURCES/TTL. COUNTER MODUL
MULTIPLE OA. CCT FOR HEAVY LOADS
PLL. USING EXPONENTIAL CURRENT SOURCE IN ADAPTIVE CLOSED-LOOP, NEGATIVE-FEEDBACK CONFIGURATIO
SELF-METERING CCT FOR HPLC. ELECTROCHEMICAL DETECTOR, TO USE IN CONJUNCTION WITH FLOW CELL TO
BALANCED DUAL PHOTODETECTOR (PHOTODIODE) FOR DAYLIGHT OPERATION OPTICAL RECEIVER USING ACTIV
SOLENOID DRIVER USING 2 PR-12 INCANDESCENT FLASHLIGHT LAMPS TO LIMIT COIL'S ON-CURRENT, WITH 5V L
VOLTAGE AMP. IN INVERTING CONFIGURATION, USING CURRENT CONVEYOR CENTRED AROUND VOA (VOLTAGE
VOLTAGE-MODE LPB (LOW-PASS BIQUAD) FILTER USING OA., DESIGNED FOR POLE FREQUENCY OF 100KHZ, NOT
"SLOW" READOUT ELECTRONICS STARTING WITH CHARGE-INTEGRATING AMP./"FAST" READOUT ELECTRONICS
VOLTAGE RAMP GENERATOR CCT
PULSE-HEIGHT TO PULSE-WIDTH CONVERTER CONSISTING OF PEAK DETECTOR & CONSTANT-CURRENT SOURCE
PLL. FOR REFERENCE WAVEFORM GENERATION, INCLUDING SINE TO SQUARE CONVERTER, PLL. & TRIANGLE TO
VOLTAGE CONTROLLED CURRENT STIMULATOR WHOSE OUTPUT STAGE IS ELECTRICALLY ISOLATED & BATTERY
VOLTAGE REGULATOR FOR CURRENTS OF 5-10MA, USING 2 TRANSISTORS (INCLUDING FET.) THAT DRAW TINY C
HALF OF SINGLE STAGE STABILISER ASSEMBLY & TESTING HV. PULSE GENERATOR
HALL EFFECT SWITCH CCT/SENSITIVE CCT USING HALL EFFECT SWITCH CONNECTED TO DIRECT-COUPLED AMP
VOLTAGE-CLAMP & JIC-DETECTION (CURRENT-DENSITY-DETECTION) CCT TO MAINTAIN CONSTANT VIAC BETWEEN
CALIBRATOR, AS IMPLEMENTED ON FULLY CHERENT HETERODYNE SPECTROMETER
PULSE DRIVER THAT CONSISTS OF INTERFACE BETWEEN NICOLET 293A PULSER & SPECTROMETER/COIL TUNING
VOLTAGE DIVIDER CCT OF PHOTOMULTIPLIER (PMT.) TO DETECT SCATTERED LIGHT OF RUBY LASER, WITH GAT
VOLTAGE OFFSET CONTROL CCT/CURRENT MEASURING CCT/SIGNAL AMPLIFICATION CCT WITH HIGH INPUT IMP
COLLECTOR BIAS VOLTAGE & EMISSION CURRENT MONITOR CCT/POST-DETECTION SYSTEM INCLUDING FET. DF

SOLID-STATE PROGRAMMABLE DC. CCT BREAKER USING DUAL OPTICALLY COUPLED SSR. WITH NC. CONTACTS
MULTIPURPOSE DOSEMETER BASED ON ADC. CONSISTING OF MOSFET. ELECTROMETER, VFC., AUTOMATIC TOV
SOLID-STATE ALTERNATIVE TO NEON STABILIZER, USING 100V COMPLEMENTARY TRANSISTOR PAIR AS SHUNT
PULSE CALIBRATOR TO RECHARGE 3 CADMIUM-NICKEL BATTERIES & FEED PULSE CALIBRATOR DURING RECOR
SOLENOID VALVE MANIFOLD & ELECTRONICS OF DEVICE TO CONTROL GAS CONCENTRATION AS FUNCTION OF
PULSE GENERATOR ABLE TO PRODUCE SQUARE HV. PULSES UP TO 6KV, INCLUDING BLUMLEIN CONFIGURATION
VOLTAGE REGULATOR THAT MONITORS SYSTEM VOLTAGE & CONTROLS FIELD CURRENT BY MODULATING TRAN
DELAY CCT USING THYRISTOR, TO ENSURE THAT COMPUTER IS NOT SWITCHED ON UNTIL PERIOD OF TIME AFT
MULTIPLE-OUTPUT PS./TRANSISTOR KEYING CCTS (2)/AMP. CONTROL USING TRANSISTORS
SOLENOID VALVE DRIVER TO PROVIDE HIGH PULSING CURRENT (0.5A)/PRESSURE TRANSDUCER & AMP. CCT, TO
PULSE AMP. ABLE TO REACH PEAK PULSE CURRENTS OF 20A OR MORE WITH RISE TIME OF ~10MS, WITH 50OHM
TELE-EAR SYSTEM USING SINGLE-CHIP MICROCOMPUTER THAT DIFFERENTIATES WHICH LETTER IS SENT TO DI
MELODIC ELECTRONIC CCT WITH VISUAL EFFECTS
COLPITTS VFO./RECEIVE FRONT-END/RECEIVE FILTER, IF. & PRODUCT DETECTOR/RECEIVE CARRIER CCTS (2)/T
FULLY FUNCTIONAL AMP. USING SPRAGUE'S LOW-POWER AUDIO AMP., WITH VOLTAGE GAIN OF 40DB & 1W OF A
RELATIVELY SIMPLE CONTROLLER CCT FOR TEMPERATURE REGULATION OF SAMPLE, USING HEAT PUMPS
VALVE-DRIVER CCT
SPLIT PS. USING HIGH-SPEED BUFFER THAT SINKS OR SOURCES ENOUGH CURRENT TO DERIVE STABLE OUTPUT
TTL. LOGIC TESTER THAT FLASHES 0 OR 1 OR ? (QUESTION MARK) ON LOW-POWER 7-SEGMENT LED. CHARACTE
PULSE GENERATOR SECTION OF DIGITAL EXPERIMENTER'S UNIT, BASED ON 2 MONOSTABLE MULTIVIBRATORS
PULSE REGULATOR USING IC TIMER TO CONVERT EACH INCOMING PULSE FROM PHOTOMULTIPLIER INTO SINGL
PULSE GENERATOR WITH FREQUENCY RANGE OF 400 TO 4000HZ & INDEPENDENTLY ADJUSTABLE FREQUENCY
BALANCED TRANSMISSION LINE DRIVER WITH UNITY GAIN, USING OA.S, FOR LINE IMPEDANCE OF 600OHM/BALAN
ENLARGING LIGHT METER CONSISTING OF COMPARATOR THAT COMPARES LIGHT STRIKING LDR. WITH FORMER
MILLI-OHM ADAPTOR FOR DMM.S WITH 200MV DC. RANGE, FOR 4-POINT MEASUREMENT OF VERY SMALL RESIST
MULTIVIBRATOR USING OA., CONVERTED INTO SIMPLE PLL. BY ADDITION OF A FEW COMPONENTS
SILICON PHOTODIODE AMP. USING WIDE BW. TRANSFER RESISTANCE AMP. & FET., WITH BREAKPOINT FREQUEN
DELAY-LINE TRANSVERSE FILTER TO SHAPE TRIANGLE WITH 5NS BASE-WIDTH, WITH INPUT DIFFERENTIAL DELA
HCL (HOLLOW CATHODE LAMP) PULSING CCT INCLUDING CURRENT REGULATOR, & OA. IN WHOSE FEEDBACK LO
VOLTAGE-CONTROLLED ACTIVE-R OSCILLATOR USING 2 OA.S
PULSED VAN DE GRAAFF ELECTRON ACCELERATOR WITH 75NS PRETRIGGER SYSTEM/CCT FOR PHOTOMULTIPL
MULTIVIBRATOR WITH SQUARE WAVE OUTPUT, USING HIGH-GAIN JFET. OA., FOR USE AS GENERATOR FOR IMPL
TTL. OSCILLATOR CCT THAT GENERATES SQUARE-WAVES OVER WIDE FREQUENCY RANGE & USES NO CAPACIT
VOLTAGE-CONTROLLED ACTIVE-R OSCILLATOR THAT PRODUCES FAIRLY GOOD SINE-WAVE OSCILLATIONS
MULTIDROP RECEIVER THAT CHECKS 1ST 4 OF 16 RECEIVED BITS AGAINST PRESET ADDRESS &, IF THEY MATCH
FOLDBACK CURRENT-LIMITING CCT USING OA. TO SENSE VOLTAGE DROP ACROSS LOW-WATTAGE RESISTOR
COLPITTS OSCILLATOR THAT PROVIDES SQUARE WAVE, USING OA. (AS ACTIVE ELEMENT), & LC. CCT WITH BETT
VOLTAGE CALIBRATOR USING REFERENCE/SIGNAL TRACER USING/STAIRCASE GENERATOR/WEIN BRIDGE OSCI
PULSE DRIVER OF CCT THAT PRODUCES BI-SYMMETRIC MODULATING FIELD OF VARIABLE FREQUENCY AMPLITU
COLOUR INTERFACE FOR ARCHIMEDES VIDEO DIGITIZER, ENABLING IT TO HANDLE FULL-COLOUR IMAGES AT 24
ALL-MODE PTT. SWITCH/ANALOG BOARD
FULL FUNCTION LOGIC PROBE FOR TESTING CMOS. & TTL. FAMILIES, AS WELL AS OPEN CCT OR FAULTS/REGUL
ECL. 4MA DIFFERENTIAL TRANSCEIVER MEETING FASTBUS STANDARD/TTL. DIFFERENTIAL TRANSCEIVER INCLU
PULSE CONDITIONER TO SHAPE PULSES FROM PMT. BEFORE THEY ARE ANALYZED BY PHA., USING INVERTING
PLL. CCT THAT OPERATES IN LOW AF. RANGE, TO DRIVE VIBRATING TUBE DENSIMETERS, ALLOWING DENSITY M
VOLTAGE COMPARATOR CCT USING EXPIRATORY FLOW SIGNAL AS TRIGGERING SIGNAL FOR SOLENOID VALVE
WELDING-CURRENT INDICATOR USING SURFACE-MOUNTED COMPONENTS (SMD.S) ON FLEXIBLE CCT BOARD WH
ALL-PASS FILTER RC. OSCILLATOR WITH FAST AMPLITUDE CONTROL, INCLUDING RESONATOR CCT, 2 1ST ORDE
POLAR-TO-RECTANGULAR CONVERTER & PATTERN GENERATOR (FOR SCOPE DISPLAY), FOR POLAR TO X-Y CON

PULSE STRETCHER TO RECORD UNIT PULSES ON CHART RECORDER, BY WIDENING PULSES BUT PRESERVING A PULSE AMPLIFICATION & COMPARISON STAGE OF PULSE INTERFACE BLOCK/CHANNEL SELECTION STAGE (BBB) FILTER CONSISTING OF NOISE-TRANSIENT DETECTOR, SH. CCT & VOLTAGE DIVIDER, INCLUDING FET. GATE, LPP VOLTAGE REGULATOR CONFIGURED TO TERMINATE UP. SYSTEM BUSES WITH MINIMAL LOADING BALANCED MODULATOR-DEMODULATOR CCT INCLUDING BALANCED DIFFERENTIAL OA. OUTPUT CCT THAT ATT SILICON SOLAR-CELL MODULE USING PHOTOVOLTAIC SENSOR WITH CURRENT OUTPUT LINEARLY RELATED TO VOLTAGE DIVIDER CHAIN FOR BAF² DETECTOR PMT.S, USING ZENER DIODES & ACTIVE COMPONENTS TO STAB COLPITTS-TYPE OSCILLATOR PLL. CCT WITH NATURAL FREQUENCY OF ~3500HZ TO PROVIDE TRACKING OF SPEECH SIGNALS, & DAMPING CO SOLENOID VALVE CONTROL CCT FOR SINGLE VALVE, INCLUDING AUTOMATIC POWER-UP RESET CCT, WITH DAT VOLTAGE REGULATOR FOR GENERATOR, WITH RELAY/CCT TO EXPAND DISPLAY OF OSCILLOSCOPE TO 20 ELEM VOLTAGE-TESTING PROBE/VOLTAGE-LEVEL INDICATOR/ADJUSTABLE VOLTAGE MONITORING & ALARM CCT/AUD MULTIPROCESSOR ARBITRATION LOGIC FOR PARALLEL PROCESSING SYSTEM USING 4 DSP.S, EMPLOYING SIMP VOLTAGE REGULATOR/CCT TO GENERATE SHORT STIMULI/CCT FOR VERY LONG PULSES, & OPTO-ISOLATOR VOLTAGE-TO-CURRENT CONVERTER/AMP. TO SUPPLY +90V AT +-10A/BRIDGE AMP./AUDIO AMP./0 TO 70V POSITI VOLTAGE-CONTROLLED SINUSOIDAL AF. (20HZ-20KHZ) FUNCTION GENERATOR WITH AMPLITUDE STABLE TO +-5 VOLTAGE DISTRIBUTION BOX USING VARIABLE VOLTAGE REGULATOR SET TO PROVIDE 13.8VDC. OUTPUT, & FIX PILE-UP DETECTOR/VOLTAGE STABILIZING HV. CHAIN FOR 7-STAGE SHORTENED PMT./1ST STAGE OF FAST AMP COLOR COMPUTER RS-232C INTERFACE/HALF-YEAR (0.5YR) CLOCK USING CRYSTAL OSCILLATOR, DIVIDER & BC WALKMAN AMP., VERSATILE PULSE INDUCTION METAL DETECTOR INCLUDING SEARCH COIL & METER/INDUCTION BALANCE METAL DETECTO DOLBY NOISE REDUCER/SWITCHABLE PROCESSOR/DECODE-ONLY PROCESSOR/METER AMP. SOLID-STATE ELECTRONIC COMPASS USING 2 HALL-EFFECT SENSORS (GENERATORS) (MAGNETIC DETECTING I MULTIPLE-OUTPUT DC. PS. (POWER UNIT) USING FIXED +5V & +12V REGULATORS & ADJUSTABLE-OUTPUT REGU TELEPHONE SCRAMBLER THAT SHIFTS HF.S TO LF.S, & LF.S TO HF.S, USING BALANCED MODULATORS, CONNEC BELL-ANIMATION CCT CONTAINING 36 LED.S CONTROLLED BY CMOS. COUNTER-DIVIDER, CLOCKED BY ASTABLE PULSER WITH PHASE CONTROL BETWEEN 0DEG TO 180DEG INDEPENDENT OF OTHER CHARACTERISTICS SILENCER GUITAR AMP. SOLAR CELL TESTER/DUAL 12V PS. MULTIPLE-FEEDBACK FILTER WITH LOW Q PULSE STRETCHER/INPUT-SIGNAL CONDITIONER & SYNCHRONIZER TO SUPPLY COMPLEMENTARY PULSES TO P VOLTAGE CONTROLLED FILTER (VCF) WITH HIGHPASS, LOWPASS & BANDPASS OUTPUTS FOR CREATING SOUND SOLID-STATE DIGITAL COMPASS CONSISTING OF 60KHZ GENERATOR THAT DRIVES MAGNETOMETER & 2 OUTPUT SOLENOID DRIVER THAT SUPPLIES LONG FULL-POWER PULSE TO PULL IN SOLENOID, FOLLOWED BY TRAIN OF S VOLTAGE LIMITER FOR POSITIVE ANALOG SIGNALS, USING STABLE PRECISION ZENER-SHUNT REGULATOR, INPUT SOLID STATE WINDSHIELD WIPER DELAY THAT FEATURES VARIABLE 2-18S DELAY, USING DUAL TIMER, D-TYPE F PULSE DIVIDING CCT TO PROVIDE ANALOGUE & DIGITAL OUTPUTS PROPORTIONAL TO RATIO OF AMPLITUDES O MULTICHANNEL ADC. THAT DETERMINES WHICH OF 8 INPUT ANALOG SIGNALS IS LOWEST, PROVIDING 8-BIT AMP TTL. QRP TRANSCEIVER INCLUDING OUTPUT PI-NETWORK & MIXER CONSISTING OF PAIR OF DIODES, WITH TRAN DELAY CCT USING 16KX1-BIT RAM. CHIP AS CIRCULAR BUFFER TO DELAY INPUT PULSES BY 1.0MS WITHOUT DIS POLYCONDUCTOR SENSOR FOR MICROWAVE & LASER BEAM DETECTION (MOD. WHEATSTONE BRIDGE), INCLUD FILAMENT-HEATER SUPPLY & REGULATOR (CCT FOR UPGRADES), USING REFERENCE DIODE FOR ERROR AMP. VOLTAGE SUMMING CCT USING OA., TO TUNE FRONT END OF KENWOOD TR-2400 HAND-HELD 2M TRANSCEIVER CALORIMETER FOR INDUCTIVE ENERGY MEASUREMENTS (TO MEASURE STORED ENERGY FOR INDUCTORS), US VOLTAGE LEVEL INDICATOR CCT PULSE FIELD & SIGNAL DETECTION SYSTEM USING DM. INTERFACED TO UP., & FIELD, PICK-UP & FIELD SENSING FILLING CONTROLLER/SHUT-DOWN CONTROL CCT & WATER SHUT-DOWN DELAY CCT SOLAR CELL I-V (CURRENT-VOLTAGE) PLOTTER TO HANDLE UP TO 300W, 110V & 10A/MOD. TO CURRENT SINK CO PULSE-GRADIENTS CURRENT AMP. USING OA. AS DRIVER, FOLLOWED BY POWER STAGE USING TRANSISTORS I

FOLDBACK CURRENT-LIMITING PS. WITH OUTPUT VOLTAGE ADJUSTABLE FROM 9 TO 16V & INDEPENDENT CURR
PLL. DRIVE & FEEDBACK (AUTOMATIC TRACKING) CCT WITH AMPLITUDE CONTROLLER USING OA. INTEGRATOR &
VOLTAGE-TO-CURRENT (V-TO-I) CONVERTER TO TAKE CONTROL VOLTAGE SUPPLIED BY DEPOSITION RATE COM
TTL. TESTING TOOL INCLUDING 7-SEGMENT DISPLAY/FREQUENCY COUNTER/SOUND-OPERATED SWITCH/IR.-DET
PULSED CURRENT SOURCE WHOSE PEAK CURRENT IS ~200MA, TO DRIVE HEATER FOR SAMPLE TEMPERATURE
DELAY EQUALIZER USING PROGRAMMABLE QUAD OA., SHOWING POTENTIOMETERS FOR RESPONSE ADJUSTME
VOLTAGE CONTROLLED STATE VARIABLE FILTERS
PULSE GENERATOR THAT PROVIDES IDEPENDENT CONTROL OF DUTY CYCLE & PULSE FREQUENCY, USING TIME
SELF-CLOCKING CCT TO GENERATE (PAINT) 10X8 GRATICULE (GRID) ON OSCILLOSCOPE SCREEN, USING ANALC
FILTER-BUFFER ASSEMBLY USING 2 OTA.S & DUAL OA., TO TUNE IN PACKET & RTTY. SIGNALS/DISPLAY USING DC
DELAY LINE OF DELAY-LINE AMP. BOARD/AMP. SECTION AT EITHER END OF DELAY LINE/AMP.-DISCRIMINATOR FC
VOLTAGE FOLLOWER/INVERTING AMP./BUFFER AMP./SQUAREWAVE GENERATOR WITH OUTPUT FROM 1.5KHZ TO
VOLTAGE PULSING CCT USING OPTOISOLATOR TO ISOLATE TTL. LEVEL SIGNALS, WITH TTL. INPUT/SYNCHRONIS
VOLTAGE-CONTROLLED SINEWAVE OSCILLATOR/DNR SYSTEM/16W BRIDGE AMP./TV. SOUND SYSTEM/STEREO P
SOLAR CELL POWER MONITOR
VOLTAGE COMPARATOR CCT
VOLTAGE-RATIO-FREQUENCY CONVERTER THAT PRODUCES TTL.-COMPATIBLE OUTPUT PULSE TRAIN WITH REF
VOLTAGE-TO-PULSE-WIDTH CONVERTER USING BAR-DOT GENERATOR CONFIGURED IN BAR MODE, COMBINED V
VOLTAGE DIVIDER CHAIN FOR THORN EMI PHOTOTUBE (PHOTOMULTIPLIER) OPTIMIZED FOR ENERGY & TIME RE
TELEPHONE-RING DETECTOR TO TRIGGER DEVICE AFTER NUMBER OF RINGS/USING OA. & OPTOCOUPLER/TELE
2-LED. FLASHERS (2)/4-LED. DOUBLE-BAR FLASHER/CCT SHOWING CONNECTIONS OF LV. LED. FLASHER IC/1.1HZ
TELEPHONE-RECEIVER AMP. FOR HEARING IMPAIRED, USING HIGH-GAIN & DIFFERENCE AMP.S/AUDIO ALARM TH
SOLAR CHARGE CONTROLLER USING VOLTAGE COMPARATOR TO MONITOR HIGH & LOW BATTERY VOLTAGE & C
PULSE PROCESSOR USING SHORTED DELAY LINE TO RENDER TRAPEZOIDAL PULSE TO ACTUATE FAST COMPAR
FULL-WAVE RECTIFIER CCT THAT PRODUCES 5V 1A OUTPUT AT 97% EFFICIENCY, USING MOSFET. SWITCHES IN
VOLTAGE CLAMP CCT USING WIDE-BAND IA., HIGH POWER OA., & HIGH INPUT & LOW OUTPUT IMPEDANCE OA., F
VOLTAGE REGULATOR INCLUDING DARLINGTON-PAIR PASS-TRANSISTOR CCT THAT INCREASES CURRENT-HAND
VOLTAGE-VARIABLE 730MHZ, 4-SECTION PHASE SHIFTER USING SEMIRIGID 50OHM COAXIAL CABLE, & VARACTO
VOLTAGE-CONTROLLED 2ND-ORDER STATE-SPACE NOTCH FILTER DRIVEN FROM HEART RATEMETER, WITH BAN
VOLTAGE CONTROL CCT/FREQUENCY CONTROL CCT THAT CONNECTS VARIABLE REACTOR IN PARALLEL WITH T
VOLTAGE INTEGRATOR WHOSE INPUT IS TRANSLATED INTO DIGITAL FORM BY VFC., INCLUDING FREQUENCY SC
PULSE SHAPE COMPENSATOR CONSISTING OF COMPARATOR, 3 MONOSHOTS & TIME-TO-VOLTAGE CONVERTER
SELF-OSCILLATING CCT USING PIEZO TRANSDUCER/SOUND-ACTIVATED DECODER/LF. NARROW-BAND, CRYSTAL
VOLTAGE DIVIDER CCT THAT DIVIDES VREF IN HALF WITHOUT USING PRECISION COMPONENTS, USING CMOS. F
PULSE-CONTROL CCT TO PROVIDE TIMED & TEMPERATURE-COMPENSATED 21V PULSE REQUIRED BY 2816 EEPF
SPLIT-PS. BALANCE INDICATOR
GEL-CELL RECHARGER USING VOLTAGE-LIMITED CHARGING METHOD, THAT APPLIES 10 TO 20% OF BATTERY'S A
FULL-STEP STEPPER MOTOR DRIVER/HALF-STEP DRIVER/STALL DETECTOR/CCT USING DUAL-LEVEL DRIVERS/C
SOLID-STATE IGNITION BOOSTER
TELEPHONE-LINE INTERFACE THAT PROVIDES ISOLATION, INCLUDING RINGER CCT/PHONE-USE INDICATOR INCL
PULSE PROGRAMMER/RF. GATE/RF. PREAMP./PHASE SHIFTER/PSD./VIDEO AMP.
SOLAR-OPERATED BATTERY CHARGING CCT
RELAY ENERGIZER
DELAY & THERMOMETER CCTS OF HEATING-FUEL SAVER THAT SWITCHES ON LATER WHEN WEATHER IS LESS C
SELF-POWERED INDUCTIVE-PICKUP METER TO MONITOR (DISPLAY) INSTANT AC. POWER USAGE IN KILOWATTS,
PULSER DRIVING VOLTAGE IMPULSE & CORONA PREIONIZERS, TRIGGERED BY 5V SIGNAL FROM EXTERNAL LOG
PULSE CCT
PULSE DRIVE GENERATOR
VOLTAGE DIVIDER-CLIPPER WITH "STAR" INPUT & OUTPUT/"II" CONFIGURATION

TTL. COMPATIBLE INTERFACE FOR DRIVING RELAY TO GROUND INPUT TO 1MHZ AMP.
VOLTAGE REGULATOR FOR PHOTO ENLARGER
PULSE-SHAPING CCTS FOR GREEN LED.S (4)/LED. DRIVER CCT TRIGGERED BY NIM PULSE PERFORMED BY TRANSDUCER
VOLTAGE FOLLOWER TO BUFFER OUTPUT OF MICROPHONE USING PVDF (POLYVINYLIDENE FLUORIDE) FILM
HALF OF BATTERY ENERGY-SAVING POWER BRIDGE FOR USERS OF VARIETY VILLAGE VV2-6 & SYSTEMTEKNIK A
COLPITTS OSCILLATOR WITH BUFFER AMP., COMPRISING CRYSTAL TESTER TO PROVIDE YES-NO TEST OF CRYSTAL
VOLTAGE SOURCE THAT SWINGS FROM +10V TO -10V, USING POTENTIOMETER, REFERENCE & DIFFERENCE AMPLIFIER
PULSE-GENERATING CCT USED AS DRIVER TO STEP-UP CONVERTER, INCLUDING O.A.S THAT FORM TRIANGULAR PULSE
PULSE STRETCHER CCT TO AMPLIFY, STRETCH & IMPEDANCE BUFFER DISCRIMINATOR OUTPUT TO RATEMETER
VOLTAGE-CONTROLLED ATTENUATOR, 2 OF WHICH, WHEN CASCADED, PRODUCES DOUBLE-POLE LPF., TO EVALUATE
VOLTAGE REFERENCE USING 2.5V REFERENCE & 8-BIT DAC. WITH ON-CHIP VOLTAGE REFERENCE, THAT CAN BE USED AS
PULSER & LASER DRIVE CCT USING SI NPN TRANSISTOR, INCLUDING VARIABLE ATTENUATOR TO SET REQUIRED PULSE
MULTIKILOVOLT (HV.) PULSER (AVALANCHE DIODE CCT) TO GATE HIGH-SPEED (SERPENTINE) CAMERA, GENERATE
VOLTAGE CONTROLLER FOR UV. EPROM. THAT ALLOWS CHIP TO BE PROGRAMMED IN FIELD WITHOUT DISCONNECTING
SILENCER, INCLUDING RF. MODULE, FOR SQUELCHING OPERATING RADIO OR TAPE PLAYER WHEN CB. SIGNAL IS PRESENT
3 LED. SPEAKER PEAK POWER INDICATOR (LOUDSPEAKER SYSTEM ACCESSORY) TO INDICATE POWER LEVELS & PULSE
PULSED VALVE PS. IN WHICH OUTPUT OF VARIABLE TRANSFORMER IS DOUBLED, RECTIFIED & FILTERED, & CAPACITATED
COLPITTS CRYSTAL OSCILLATOR PROVIDING EXCELLENT PERFORMANCE WITH UP. CRYSTAL FROM 3MHZ TO 18MHZ
DELUXE MORSE CODE TRAINER USING 8035 FAMILY UP. (SINGLE-CHIP MICROCOMPUTER), EPROM., TIMER, LATCH, &
GALVANIC SKIN RESPONSE MONITOR (LIE DETECTOR) THAT IS SENSITIVE TO SKIN RESISTANCE, CONSISTING OF A
FILTER THAT CAN BE SWITCHED IN & OUT OF IF. STRIP, TO BE CONNECTED IN PLACE OF 1 OF ORIGINAL CERAMIC
SOLAR-CELL POWER CONVERTER (DC.-DC. CONVERTER THAT RUNS AT LV. SINGLE SOLAR CELL SUPPLIES)
FULL BREAK-IN RIT CCT FOR HW-8 QRP RIG, INVOLVING SIMPLE & INEXPENSIVE MOD.S
SOLAR-PANEL REGULATOR CCT IN WHICH POWER IS DELIVERED TO BATTERY THROUGH RELAY & BLOCKING DIODE
TTL. INTERFACE CCT USING PERIPHERAL DRIVERS CONTROLLING ELECTROMECHANICAL POWER RELAYS/CMOS
RELAY DRIVER TO BE USED WITH IC-551 OR IC-251A VHF. TRANSCEIVER, TO KEY EXTERNAL LINEAR AMP.
FILTER CODING, GATING & SWITCHING CCT FOR SPECTRORADIOMETER TO STUDY CROP RELECTANCE CHARACTERISTICS
VOLTAGE DOUBLER CCT
RELAYLESS TELEPHONE-RING DETECTOR
TTL. DIGITAL CLOCK/DEBOUNCE CCT
TTL. QRPP TRANSMITTER WITH POWER AMP.
TELEPHONE-TAPE RECORDER INTERFACE TO ENABLE RECORDING OF TELEPHONE AUDIO, TO CONVERT PHONE SIGNAL TO
VOLTAGE-DETECTION CCT TO INDICATE WHEN VARIABLE PS. IS OUTPUTTING 5, 12, OR 15V, USING ZENER DIODE
SOLID STATE INEXPENSIVE MOD. FOR TEKTRONIX 529 WAVEFORM MONITOR (SCOPE) TO REPLACE 7788 TUBES
PULSE STRETCHING & CLAMPING CCT FOR JK 2000 LASER SYSTEM, USING LASERMETRICS POCKELS CELL, SCR
POLAROSOURCE CONSISTING OF 10-TURN POTENTIOMETER DRIVEN BY 1 RPM. SYNCHRONOUS MOTOR, GENERATOR
SOLDERING IRON TEMPERATURE CONTROLLER USING DIAC & TRIAC, FORMING A QUADRAC, TO AVOID DESTROYING
MULTI-MODE DELAY-LINE CONTROLLED OSCILLATOR USING BUCKET BRIGADE DELAY-LINES (BBD'S), OTA. & SWITCHES
RELAY BOARD INCLUDING SPDT. RELAYS THAT CONTROL AZIMUTH ROTATOR & ELEVATION, WITH DIODES TO PREVENT
SOLENOID DRIVE UNIT TO ALLOW AUDIO SIGNAL GENERATOR TO LEVITATE & OSCILLATE PISTON IN RESONANCE
DELUXE RIT (RECEIVER INCREMENTAL TUNING) CCT USING OPTO ISOLATOR/RTTY. CCT/RTTY. FLIPPER/RELAY DRIVER
RELIABLE CCT EMPLOYING LINEARIZATION TECHNIQUE COMPRISING THERMISTOR-RESISTOR-LOG NETWORK
POLARITY REVERSING CCT
FILAMENT PS. THAT CAN BE USED IN UNREGULATED OR REGULATED MODE/CCT USED WITH 20KV ELECTRON-BEAM
PULSED FIELD GRADIENT CURRENT SUPPLY (CONSTANT-CURRENT DC. PS.) INCLUDING PULSE WIDTH ADJUSTING
PULSER CCT FOR VOLTAGE GATES APPLIED TO MCP.S/HV. TRIGGER CCTS FOR GATE PULSERS
SELF-POWERED TELEPHONE-LINE "BUSY" INDICATOR THAT LIGHTS LED. WHEN MODEM IS ON-LINE OR TELEPHONE
ECL. TO TTL. INTERFACE USING TRANSISTOR TO ENABLE 0-2.7V SWING/5V ECL. GATE & 2 TRANSISTORS DRIVING
GALVANICALLY ISOLATED POWER LINE MONITOR WITH DIFFERENTIAL INPUT THAT ACCURATELY SENSES VOLTAGE

HALF OF OUTPUT STAGE OF CLASS B AUDIO AMP., CONSISTING OF COMPLEMENTARY DARLINGTON STRUCTURE
GALVANIC SKIN RESPONSE METER
TELEPHONE DIALING RELAY (INTERFACE) FOR USE WITH TELEMARKEING PROGRAM FOR USE WITH MICROCOM
VOLTAGE SOURCE FOLLOWER USING FAST N-CHANNEL FET./MOSFET. AMP. WITH LARGE BW. (30MHZ) & LOW (0.
PULSE GENERATOR WHOSE FREQUENCY CAN BE CHANGED WITHOUT CHANGING DUTY CYCLE, USING DUAL MO
SELECTOR THAT CAN DERIVE UP TO 256 CHANNELS FOR CB. OR AMATEUR-RADIO APPLICATIONS
TTL.-TRIGGERED 7-STAGE MARX GENERATOR BANK WITH RESISTIVE VOLTAGE DIVIDER (FAST PULSE GENERAT
DELAY LINES OF CAMBRIDGE RING (HIGH SPEED SYNCHRONOUS DATA NETWORK) (BBB)/PHASE COMPARATOR
TELEPHONE-RING DETECTOR PROVIDING 2.5KV OF ISOLATION/LINE-VOLTAGE MONITOR USING OPTOISOLATOR
BALANCED MODULATOR FOR AF.S, USING ON-RESISTANCE OF MATCHED FET.S AS GAIN-CONTROL ELEMENTS, V
MULTIPULSE GENERATOR TO PROVIDE PULSES FOR PULSED OSCILLATOR & BOXCAR INTEGRATORS/SCANNER
RELAXATION OSCILLATORS (2)/IMPROVED-LINEARITY RELAXATION OSCILLATOR/CONSTANT-CURRENT RELAXAT
SELECTOR MAGNET DRIVER CCT TO RUN OLDER TELEPRINTER OFF LOW LEVEL SIGNAL (LIKE RS-232), USED ON
VOLTAGE COMPARATOR WITH HYSTERESIS, ATTACHED TO C.D.P. APPARATUS, SATURATED CALOMEL ELECTRO
PULSE SHAPE DISCRIMINATOR THAT COMPARES PULSE SHAPE AGAINST PRESET SHAPE DIRECTLY, WITH SHAP
RELAY CCT FOR REMOTE CONTROL OF BOOSTER AMP.
COLOR GRAPHICS SYSTEM, USING MC68000 16-BIT UP. (MPU.), CRT. CONTROLLER (CRTC), DISPLAY RAM., MUX.S
HALF-WAVE PS. USING HALF OF CENTER-TAPPED 6.3V AC. FILAMENT TRANSFORMER & DROPPING RESISTOR, TO
PULSE & RF. PULSE GENERATOR, USING 10MHZ QUARTZ OSCILLATOR & FREQUENCY DIVIDER/PULSE SELECTOR
COLPITTS QUARTZ CRYSTAL-CONTROLLED OSCILLATORS (3)/PIERCE CRYSTAL-CONTROLLED OSCILLATOR/BUTL
SOLID STATE PRESSURE SWITCH
VOLTAGE DIVIDER (BASE) FOR PHOTOMULTIPLIER, SUITABLE FOR EXTREMELY HIGH COUNT RATES, WITH OUTPUT
BALANCED MIXER FOR 1296MHZ USING QUAD HYBRID, USING GOOD UHF.-TV. MIXER DIODE
SELF-ADJUSTING AMP. ALC CCT FOR USE WITH 4CX1000A TUBE, TO ALLOW AMP. TO PRODUCE MAXIMUM POWER
SALEN & KEY 2ND ORDER LOWPASS CCT/CCT TO TEST AUDIO OA./SINE WAVE CLEAN-UP CCT/CCT EMPLOYING B
VOLTAGE FOLLOWER USING BUUR-BROWN OA., FOR USE IN MEASUREMENT OF EMF. ESTABLISHES IN ISE/CCT T
VOLTAGE MULTIPLIER & ITS ASSOCIATED DRIVE & REGULATION, USING MULTIVIBRATOR TO GENERATE TRAIN O
VOLTAGE DIVIDER CHAIN FOR PHILIPS PHOTOMULTIPLIER, PROVIDING LINEARITY TO WITHIN +-1% UP TO PULSE
TALKING CLOCK SPEECH SYNTHESIZER CCT FOR COMMODORE 64, VIC-20, TRS-80, OR ANY MICROCOMPUTER W
VOLTAGE-CONTROLLED CURRENT SOURCE USING OPTOCOUPLER TO ELIMINATE ERROR CAUSED BY OUTPUT T
MULTIPLE-MONITOR DRIVER TO DRIVE >1 MONITOR FROM SINGLE PC. VIDEO PORT (CARD) (DISPLAY ADAPTER),
BOLOMETER OSCILLATOR THAT GENERATES FREQUENCY THAT IS FUNCTION OF BOLOMETER RESISTANCE/FM.
MULTIPURPOSE TESTER FOR RESISTANCE, CAPACITANCE & INDUCTANCE MEASUREMENTS, PLUS GRID-DIP OSC
TALKING BURGLAR (INTRUDER) ALARM USING FREQUENCY-DOMAIN SYNTHESIZER ("NARRATOR" SPEECH PROC
NULL METER USING FET.-INPUT OA. WIRED AS PRECISION RECTIFIER WITH SWITCHABLE GAIN, FOR USE WITH A
FILTERING & BUFFERING CCT TO INSERT BETWEEN KROHN-HITE 4400A SINE-WAVE GENERATOR & ADC., TO RED
VOLTAGE-BUFFER-AMP. TO SUPPLY VOLTAGE TO LANGMUIR PROBE & MONITOR RESULTING CURRENT FROM IT,
ILLUMINATOR FOR REMOTE CONTROL, CONSISTING OF BATTERY, CURRENT-LIMITING RESISTOR, LED., DARLING
COLLINS 70 H-13 PTO (HEART OF VFO.)/PTO BUFFER AMP. (2ND STAGE OF VFO.)/PS. FOR COLLINS PTO
VOLTAGE-CONTROLLED CURRENT SOURCE CONSISTING OF 2-OA. IA. USING BOOTSTRAP FEEDBACK, FEATURIN
ALLOPHONE GENERATING CCT TO CONTROL FUNCTIONS OF SPEECH-PROCESSOR, THAT VOCALIZES 59 ALLOPH
VOLTAGE BIAS COMPENSATION NETWORK & DIFFERENTIAL AMP. USING ULTRA-LOW NOISE, HIGH-SPEED OA., IN
SOLID-STATE AUTOMOTIVE VACUUM GAUGE
BOLOMETER SIGNAL PROCESSING CCT CONSISTING OF LOW-NOISE FILTER-AMP. OPERATED AS LF. (1-10HZ) BAN
VOLTAGE-REFERENCE CCT CONSISTING OF VOLTAGE-REFERENCE UNIT, FILTER & BUFFER/IMPROVED CCT THAT
VOLTAGE DIVIDER (TUBE BASE) OF PHOTOMULTIPLIER WITH POSITIVE VOLTAGE SUPPLY & GROUNDED PHOTOC
MILLIWATTMETER (CALIBRATOR) TO MEASURE RF. OUTPUT POWER OF TRANSMITTER WITH 0-10MW & 0-100MW F
PLL. CCT CONTAINING IMPROVED GUNN OSCILLATOR DRIVER TO AMPLIFY PHASE-LOCK SIGNAL FROM SOURCE-
SELF OSCILLATING 2-PORT MIXER/CCTS TO MATCH MIXER TO 1.5GHZ & 10KHZ AT INPUT & OUTPUT/105-525-1575

PULSE GENERATOR TO PRODUCE 5 OR 10V CONSTANT-AMPLITUDE ISOLATED OUTPUT TO 50OHM LOAD, USING HALF-WAVE PRECISION RECTIFIER THAT INDICATES CARRIER LEVEL OF 455KHZ AM. SIGNAL & PRODUCES DEMO VOLTAGE-CONTROLLED ATTENUATOR/FAST LOW NOISE IA./AC.-COUPLED AMP./VECTOR SUMMER/SQUARING CO VOLTAGE REGULATOR WITH DROP-OUT VOLTAGE OF JUST 700MV, USING MOSFET. WITH LOW ON-RESISTANCE, PULSE GENERATOR USING CASCODE-CONNECTED POWER MOSFET.S, TO GENERATE VARIABLE WIDTH HIGH-CU COLLINS 516F-2 PS. WITH MOD.S INCLUDING TRANSIENT SUPPRESSOR
VOLTAGE PROBES FOR BREECH & MUZZLE ENDS OF RAILS OF RAILGUN BARREL, INCLUDING 5000:1 VOLTAGE DI MULTIBAND RECEIVER PROTECTION SWITCH USING TRANSMISSION LINE/BROADBAND PREAMP. WITH 19 TO 25D PULSE GENERATOR USING 3 STACKED MOSFET.S WITH 500V & 32A RATINGS, WITH OUTPUT AMPLITUDE OF 1400 PLL. CCT TO MAINTAIN FIXED (CONSTANT) PHASE RELATIONSHIP BETWEEN 2 OPTICAL CHOPPERS, USING TANDI PULSE AMP. FOR +-3KV OUTPUT AMPLITUDE, USING POWER MOSFET. GATES TO DRIVE PRIMARY OF OUTPUT TR VOLTAGE-CONTROLLED STATE-VARIABLE FILTER WITH 2 POSITIVE INTEGRATORS, USING MULTIPLIER
TELEPHONE-ANSWERING MACHINE BASED ON RADIO-SHACK FONE (PHONE) FLASHER, 2 TAPE-RECORDING MAC SOLID-STATE RF. (VHF.) POWER (LINEAR) AMP. USING MOTOROLA RF. TRANSISTOR, TO BOOST OUTPUT OF 2M C VOLTAGE-MODE, QUASI-RESONANT CUK CONVERTER (HF. POWER CONVERTER) OPERATING AT SWITCHING FRE PLL. RTTY. DEMODULATOR CCT THAT PROVIDES AUTO-START & ANTI-SPACE FEATURES
VOLTAGE-MODE QUASI-RESONANT BOOST CONVERTER USING MOSFET./5MHZ, 25W, 50V TO 5V VOLTAGE-MODE RELIABLE 65-200MHZ OVERTONE OSCILLATOR TO TEST AT CUT QUARTZ CRYSTALS, USING "GIMMICK" FOR FEED PULSE GENERATION & COUNTING SYSTEM
BELL 212A-TYPE MODEM USING 3 LSI. CHIPS, 3 CRYSTALS & LOGIC IC'S (2)/CCT USING UP. SERVING AS DATA-BU PULSE-GENERATING CCT FOR USE AS AID TO DIGITAL TESTING, TO CREATE NARROW PULSE AFTER EACH TRAN FELIX MODULATOR CONSISTING OF PFN (PULSE-FORMING NETWORK) CHARGER, PFN, LINE SWITCH (USING THY PLL. SYNCHRONIZATION CCT FOR SYNCHRONIZATION OF VIDEO SIGNAL OF EACH SET OF GRAPHICS CARDS WH DELAY SECTION OF SNOOZE ALARM, USING PROGRAMMABLE DIGITAL DELAY TIMER/CHIME CCT INCLUDING LF. I TELEPHONE CALL SCREENER TO PREVENT UNAUTHORIZED CALLERS FROM RINGING PHONE (2)/CALL ROUTING TALKING (AUDIBLE) COMPASS USING DIRECTIONAL SENSOR (DIGITAL COMPASS), ANALOG STORAGE DEVICE, & MULT-PURPOSE FLASHING LED. CCT
PULSED ACOUSTO-OPTICAL MODULATOR (GATED RF.) DRIVER, INCLUDING RF. POWER AMP., DIRECTIONAL COU TELEPHONE-TONE DECODER THAT PRODUCES WEIGHTED BINARY OUTPUT FED TO FF.S THAT ACTIVATE TRIAC TALKING TELEPHONE RINGER CONSISTING OF RING DETECTOR, COUNTER, & AUDIO STORAGE & PLAYBACK IC (TTL. VERSION OF SIMPLE LINK FOR SERIAL DATA-SWAPPING BETWEEN 2 DEVICES OVER 1 LINE, THAT CAN TRAN FULL-FLOATING, HF. 2KV SQUARE-WAVE GENERATOR CONSISTING OF TIME DELAY CCT & HV. SWITCH, INCLUDING FULL-BRIDGE ZERO-VOLTAGE-SWITCHED MULTIRESONANT CONVERTER (FB ZVS-MRC) (POWER STAGE)/GATE DI SELF-CALIBRATING CCT TO DETECT WHEN PAPER FEEDER SPEWS OUT 2 SHEETS, USING CAPACITIVE & REFLEC UNLIMITED-VOCABULARY SPEECH SYSTEM COMBINING IC CONTAINING PHONEME SYNTHESIS WITH UP., INCLUD DALLAS SEMICONDUCTOR DS2270 SPEECH RECORDER STIK (DIGITAL AUDIO RECORDING SUBSYSTEM) USING M DELAY-LINE PULSE GENERATORS (2)/PULSE GENERATOR USING CAPACITOR TO PRODUCE 7NS SINE PULSE/PUL TELEPHONE HANDSET SYSTEM USING MICRO MIP (MAXIMUM INTEGRATED PHONE) TO IMPLEMENT PULSE OR TO SOLID-STATE BAROMETER FOR WEATHER FORECASTING, CONSISTING OF SIGNAL CONDITIONING CCT & LCD., U PULSE GENERATOR TO PRODUCE VERY FAST (1.5NS) 5V PULSE WITH RISE TIMES OF <450PS, TO VERIFY RISE TI SELF-OSCILLATING INVERTER (FLYBACK CONVERTER) (NICD. BATTERY CHARGER)/DRIVER FOR 8W FLUORESCEN PULSE-EXCITED & STRAIN-GAUGE BRIDGE-SIGNAL CONDITIONERS (2)/TEMPERATURE-MEASURING BRIDGE/OPTI TELECOMMUNICATIONS SWITCHING SUPPLY WITH OUTPUT GALVANICALLY ISOLATED FROM INPUT/SWITCHING S VOLTAGE-CONTROLLED 1HZ-1MHZ SINE-WAVE OSCILLATOR/AC. VOLTMETER/CCT TO DIGITIZE FIBER-OPTIC SIGN COLD-CATHODE FLUORESCENT LAMP (CCFL) DRIVE CCT USING SWITCHING REGULATOR/LCD. BIAS GENERATOR HALF-BRIDGE RESONANT (LOAD COMMUTATED) ASCR. HF. INVERTER USING LCC TYPE COMMUTATION, USABLE PULSE PROGRAMMER TO PRODUCE PULSE SEQUENCE/PULSE GENERATORS (2)/PROBE WITH FINAL STAGE OF T VOLTAGE DIVIDER & AMP., USING PREAMP. IN BASE OF PHOTOMULTIPLIER
MULTISTANDARD MAC DECODER USING CHIP-SET FOR DBS TV. TRANSMISSIONS, THAT IMPLEMENTS CMAC-DMA

Sheet1

SOLID-STATE LATCHING RELAY USING PHOTOVOLTAIC RELAY (PVR) THAT CAN SWITCH UP TO 300V & SEVERAL 1
PULSED PS. USED WITH COLD CATHODE X-RAY PREIONIZER, EDS-1
IFL-IC (INTEGRATED-FUSE-LOGIC-IC) PROGRAMMER INCLUDING COMMUNICATIONS, DATA-REGISTER, ADDRESS-
PFL (PULSE-FORMING LINE) RESONANT CHARGING CCT (THYRATRON-SWITCHED PULSE CHARGER TO RESONAN
MELODY RINGER THAT PLAYS 1 OF 28 TUNES, AS SELECTED BY USER, WHEN PHONE RINGS
IAMBIC KEYER, WITH SPEED, PITCH, VOLUME & WEIGHT CONTROLS, USING CURTIS KEYER CHIP/OUTPUT CCTS (
SIMPLE MOD. CCT TO UPGRADE PERFORMANCE OF AT-CLASS COMPUTER (PC.), INCLUDING FLOATING-POINT MA
COMMODORE 64 PS. INCLUDING REGULATOR
SIMPLE CCT TO PROVIDE WHITE SYMBOLS ON DARK (BLACK) BACKGROUND WHEN USING ZX81 COMPUTER, INV
SIMPLE FULLY AUTOMATIC KEYER WITH SIDE-TONE MONITOR, SELF-COMPLETING DOTS, DASHES & SPACES
SIMPLE INEXPENSIVE HIGH-PERFORMANCE DUAL-GATE MOSFET. DIP METER
SIMPLE DAC. THAT PRODUCES SINE WAVE FROM DIGITAL SIGNAL USING 1-3-4 WEIGHTING
SIMPLE CMOS. SSTV. GRAY-SCALE GENERATOR/SIMPLE CMOS. SSTV. COLOR-BAR GENERATOR
TIMING BOARD OF STIMULATOR, INCLUDING SELECTOR/FOOTSWITCH CONTROL BOARD, INCLUDING RAMP CON
IBM PC. BUS INTERFACE CCT/MAIN SYSTEM CONTROLLER INCLUDING PROCESSOR/VIDEO RAM. ADDRESSING SE
SIMPLE METAL SENSOR TOUCH-PLATE CCT TO CONTROL ROOM LIGHTS AT TOUCH OF ELBOW
SIMPLE LATCH FOR SWITCH DEBOUNCING
IAMBIC KEYER USING CURTIS CMOS. IAMBIC KEYER CHIP, USING OPEN-COLLECTOR BIPOLAR TRANSISTOR OUT
SIMPLE DEMODULATOR FOR UOSAT-OSCAR 9 USE
ROM.-BASED ADDRESS DECODER USING OPEN-COLLECTOR BIPOLAR 32X8-BIT ROM. FOR MICROCONTROLLER V
COMPACT UP.-BASED SYSTEM FOR HEART DIAGNOSIS, USING SINGLE-CHIP MICRO TO ANALYSE ECG. SIGNALS I
GAME THAT COMBINES THRILL OF ROULETTE WITH ODDS OF CRAP SHOOT, CLOCKED BY VCO. OF PLL., WITH 5 D
REMOTE UNIT OF ECG. MONITORING SYSTEM, INCLUDING MICROCONTROLLER, 4-CHANNEL, 8-BIT ADC., AMP., M
SIMPLE LEAD TESTER TO ALLOW QUICK DIAGNOSIS OF FAULTY MONO AUDIO LEADS, THAT LATCHES INTERMITT
TEMPERATURE CONTROL CCT USING ZERO VOLTAGE SWITCH, TRIAC & 3.1KW HEATING ELEMENT/HUMIDITY CO
SIMPLE 1-IN-N-WAY PUSH-BUTTON LATCH WITH PREDETERMINED POWER-UP SETTINGS & CONTACT DEBOUNCE
TDM.ING TELEPHONE BRIDGE CCT
TEMPERATURE CONTROLLING CCT
TIMING SIGNAL GENERATION CCT TO SWITCH THERMISTOR FROM HIGH TO LOW OVERHEAT MODE, CONSISTING
SIMPLE FREQUENCY RESPONSE ANALYSER COVERING 40HZ TO 400KHZ, USING VCO., SWITCHED BANK OF CAPA
SIMPLE INTEGRATING CCT CONSISTING OF LIMITER, CLIPPER, PUMP-DUMP CCT & INTEGRATOR, TO MEASURE FI
SIMPLE FREQUENCY DOUBLER & DUTY-CYCLE-VARIATION CCT, USING MONOSTABLE TRIGGERED BY LEADING O
LAMP CONTROL CCT INCLUDING INTEGRATOR, USING BATTERY TO PRODUCE REFERENCE CURRENT WITH WHIC
SIMPLE ASTABLE SQUAREWAVE OSCILLATOR/VFO.S (2)/SINEWAVE GENERATOR/OSCILLATOR INCLUDING RANGE
TIMEBASE, INPUT CONDITIONING, & PLL. CCTS/DIGITAL DISPLAY USING DECODER-DRIVER CCT/ANALOG DISPLAY
TDM. SCHEME INVOLVING PARALLEL TO BIT SERIAL CONVERSION, TO DIGITIZE ANALOG SIGNALS FROM CCD.S &
SIMPLE ALARM-BEEPER CCT USING SCHMITT-TRIGGER IC & 2 TRANSISTORS, THAT DELIVERS BURSTS OF BEEPS
SIMPLE 20M SUPERHETERODYNE RECEIVER/15-20M RF. PREAMP./VFO. CCT FOR USE ON 40M
SIMPLE WAVEFORM GENERATOR
SIMPLE DIGITAL IC TESTER (CHECKER) DESIGNED AROUND 2 ZIF. SOCKETS WIRED IN PARALLEL, WITH LED. STA
SIMPLE CONVERTER TO RECEIVE CONTINUOUS BC.S OF NATIONAL WEATHER SERVICE STATION FORECASTS ON
MEMORY BANK SELECTOR FOR TS-940S HF. RIG, THAT INTERCEPTS COMMAND GENERATED WHEN VOICE BUTT
TIMING CCT FOR ROTATING DOUBLE MIRROR & HINGED-MIRROR DISPLAYS, USING 3 OR GATES, MICROSWITCHE
SIMPLE PORTABLE TILT ALARM USED WHERE ATTEMPTED THEFT INVOLVES TILTING CASES, DOORS, OR CAR TR
SIMPLE CCT THAT USES CHEAP POCKET CALCULATOR & METER PULSES ON TELEPHONE LINE TO MONITOR CAL
SIMPLE TILT-TRIGGERED CCT TO REPORT THAT MAIL HAS BEEN DELIVERED BY MEANS OF FLASHING LED. IN HO
TIME INTERPOLATOR TO ACHIEVE 1NS RESOLUTION AT CLOCK FREQUENCY OF 125MHZ, INCLUDING FF.S & BUFF
DEMODULATOR FOR USE AT 455KHZ, USING VCO. (PLL.)
TEMPORARY STORAGE & 8-BIT SYNC WORD BUFFER, INCLUDING 72-BIT BUFFERS & 2-BIT SHIFT REGISTERS/CLO

SIMPLE CLOSED-LOOP CONTROLER FOR FRACTIONAL-HORSEPOWER DC. MOTORS, USING PLL. THAT SMOOTHLY
SIMPLE LATCH (SWITCH DEBOUNCING CCT)/HALF MONOSTABLES (EDGE DETECTORS) MADE FROM SINGLE GATE
SIMPLE BATTERY-POWERED METAL DETECTOR CONSISTING OF 2 OSCILLATORS & SEARCH COIL
SIMPLE PUSHBUTTON CODELOCK
SIMPLE 1MHZ CMOS. CRYSTAL-CONTROLLED OSCILLATOR
COMPUTER INTERFACE FOR DAC. (BBB)/12-BIT CMOS. DAC. CCT, INCLUDING VOLTAGE REFERENCE & PRECISION
TEMPERATURE TURBULENCE PROBE FOR ATMOSPHERIC BOUNDARY LAYER STUDIES
SIMPLE ROUTING UNIT TO ALLOW SIMULTANEOUS & INDEPENDENT STORAGE OF OUTPUT DATA OF 4 12-BIT ADC
SIMPLE LOW-COST RF. SWITCH USING HP PIN DIODE THAT IS FORWARD-BIASED OR REVERSE-BIASED BY CMOS.
REMOTE-CONTROL CCT FOR IC-701 HF. RADIO, FEATURING PUSH-BUTTON BAND CHANGING & FREQUENCY SELE
COMPUTER INTERFACEABLE POTENTIOSTAT FOR USE IN AUTOMATED ENVIRONMENTS SUCH AS COMPUTER-CC
SIMPLE TIMER FOR LONG TIME INTERVALS, CONSISTING OF 1 NON-INVERTING CMOS. BUFFER & 3 PASSIVES
TIME-DELAY RELAY USING CMOS. 14-STAGE BINARY COUNTER TO CONTROL SSR., TO TURN OFF APPLIANCES AU
TIMEBASE SELECT CCT/INPUT DISPLAY SELECT CCT/MODE SELECTION CCT/5-500MHZ INPUT AMPLIFIED PRESCA
SIMPLE ELECTRONIC SIMULATOR CAPABLE OF GENERATING VLF. SIMPLE HARMONIC MOTION (SHM), CONSTANT
COMMUNICATIONS PROCESSOR CONFIGURATION INCLUDING CPU., RAM., PROM., DIGITAL IO. INTERFACES & CO
SIMPLE & CHEAP SUSTAINER FOR ELECTRIC GUITARS
SIMPLE, SINGLE-TRANSISTOR VHF. WIRELESS MICROPHONE
SIMPLE CCT TO READ DATA FROM ROM. OR EPROM. BY CLOCKING IT OUT, NOT USING A UP.
SIMPLE RAMP GENERATOR TO GIVE SLOW NEGATIVE-GOING RAMPS WITH 5-BIT RESOLUTION, USING 14-BIT UP-1
78MHZ ECL. RING OSCILLATOR/SCHMITT TRIGGER USING ECL.
SIMPLE PRECISION CAPACITANCE SENSOR (COMPARATOR) FOR HUMIDITY MONITORING-CONTROL, USING META
COMPUTER PERIPHERAL CCT USING MICROCONTROLLER, WITH 8 INPUTS FOR VOLTAGE MEASUREMENT, 4 TIME
SIMPLE LOW POWER SQUARE WAVE SOURCE USING CMOS. HEX SCHMITT INVERTER
40M CW. TRANSCEIVER CONSISTING OF DIRECT-CONVERSION RECEIVER & 1W TRANSMITTER, INCLUDING MIXER
SIMPLE CCT TO GIVE OPERATOR OF UNATTENDED PACKET STATION VISUAL INDICATION THAT THERE MAY BE M
TIMERLESS TONE BURST GENERATOR USING 4 COUNTERS, RESET FF., JK FF. & TRIPLE SPDT. SWITCH (AUAM83
TEMPERATURE CONTROL SYSTEM INCLUDING COMMAND & REGULATION MODULES (BBB)/COMMAND MODULE/R
SIMPLE RUNNING LIGHT CCT WHOSE RATE OF CHANGE DEPENDS ON FREQUENCY & INTENSITY OF SOUND, USIN
SAMPLER (THAT CAPTURES RADIO OUTPUT SIGNAL & PACKS SAMPLES INTO BYTES) & 16-BIT CORRELATION PRO
2-MICROCOMPUTER DOUBLE-BUFFERED CONDITIONAL IO. CCT IN WHICH DATA CAN FLOW IN EITHER DIRECTION
SIMPLE CCT TO DELAY START OF READ SIGNAL FROM 1806 UP. (CPU.), ENABLING 1806 TO BE USED TO CONTROL
SIMPLE ULTRA-LINEAR PULSER USING VMOSFET. (VMOS. FET.), INCLUDING NIM-ECL. TRANSLATOR, ECL.-TTL. TR
SIMPLE MOD. FOR MORE PRECISE TUNING OF HEATHKIT HW-101 TRANSCEIVER/PS.
TIME AVERAGER (TAV) MODULE INCLUDING ADJUSTABLE CABLE DELAY LENGTHS ALLOWING CHANGES TO RAN
SIMPLE SINGLE-TRANSISTOR AMP. TO BOOST SIGNAL IN MICROVOLT RANGE/CMOS. AMP. USING INVERTER
RAMP GENERATOR/SH. CCT/SYNTHESISED 2-GANG 'POT'/SYNTHESISED 4-GANG 'RHEOSTAT'/TOUCH SWITCH
TIMER TO CHECK PLAYING HOURS OF STYLUS
SIMPLE QRPER CMOS. CW. KEYSER USING 2 IC'S
SIMPLE CRYSTAL OSCILLATOR THAT WORKS WITH CRYSTALS AS HIGH AS 14MHZ, USING INVERTING HEX BUFFE
29MHZ AMP. USING PAIR OF TETRODE TUBES, TO AMPLIFY 10M RF. FROM ASDEN 2800, USING PI-NETWORK FINA
SIMPLE "RECYCLING" INTEGRATOR WITH SENSITIVITY OF 10PC-COUNT, INPUT RANGE FROM 1PA TO 10UA, & 0.19
SIMPLE & CHEAP ELECTROMETER AMP. USING ANALOGUE DEVICES AMP. & FEEDBACK COMPONENTS, WITH FLA
SIMPLE & INEXPENSIVE HYBRID ECL.-TTL. RF. SCALER THAT PROVIDES JITTERLESS CLOCK PULSE
SIMPLE GO-NO-GO TESTER FOR 71840 MICROCOMPUTER, USING SELF-TEST ROUTINE STORED ON CHIP IN ROM.
SIMPLE 10GHZ DIODE DETECTOR AMP. USING OA., CONSISTING OF SINGLE-STAGE CURRENT AMP. & PEAK DETE
COMPONENT SEPARATOR OF DIGITALLY CONTROLLED VECTOR IMPEDANCE METER ALLOWING INDEPENDENT M
SIMPLE INEXPENSIVE CCT FOR PULSING-OFF NORMALLY-ON SIDE-ON PMT., INCLUDING 3 HV. OPTOCOUPERS T
COMPRESSOR CCT USING FET. OPTOCOUPLER/VARIABLE-THRESHOLD AF. LIMITER/CLICK-FREE AUDIO INPUT SE

Sheet1

SIMPLE DIGITAL TUNER CONTROL WITH READOUT FOR VARICAP-TUNED FM. MODULES
TEMPERATURE COMPARATOR FOR SOLAR ENERGY SYSTEMS OR ATTIC FANS/PS. FOR SOLAR CONTROLLER
SIMPLE SINGLE RAIN ALARM USING TRIAC & 2 MULTIVIBRATORS (MV'S)/RAIN ALARM/TIMED AC. RAIN ALARM INCL
COMPACT, SOLID-STATE 35MHZ RF. OSCILLATOR OF LOW-POWER CONSUMPTION
REMOTE TELEPHONE RINGER
TEMPERATURE-VARYING VOLTAGE REFERENCE THAT NEGATES EFFECTS OF CONCOMITANT CHANGES IN RECE
SIMPLE, INEXPENSIVE CCT TO ATTACH TO MULTIMETER FOR MEASUREMENT OF FREQUENCY UP TO 10MHZ
SIMPLE SCR. CCT WITH TRIGGERED OPERATION OF AC. LINE SWITCHED TO RESISTIVE LOAD/HF. SCR. INVERTEP
REMOTE CONTROLLED POWER SWITCH TO EXTEND BATTERY LIFE OF BIOMEDICAL INSTRUMENTS/PULSER (EM.
SIMPLE CCT TO DETERMINE POLARITY OF CHARGES CARRIED BY INDIVIDUAL LIGHTNING GROUND FLASHES, INC
CPM (COLLIDING PULSE MODE-LOCKED) LASER WITH FEEDBACK LOOP USING FAST PHOTODIODE & AMP. USING
SIMPLE FREQUENCY (CLOCK) DOUBLER TO GENERATE HIGH RATE CLOCK PULSES AROUND SPARE GATES-INVE
SIMPLE TEMPERATURE REGULATOR
SIMPLE DC. RESTORER CCT/IMPROVED VIDEO DC. RESTORER CCT
SIMPLE BURGLAR-ALARM CCT/RAIN DETECTOR/BATTERY CHARGER/CODE-PRACTICE OSCILLATOR/LDR.-CONTRO
SIMPLE, INEXPENSIVE BATTERY-POWERED CURRENT SUPPLY WITH HIGH INPUT-TO-OUTPUT ISOLATION, HIGH IS
MEMORY KEYSER USING SRAM./CCT THAT ACCOMODATES POSITIVE OR NEGATIVE KEYING REQUIREMENTS/OUTP
SIMPLE LOW-COST ADD-ON CCT TO GIVE ANY TELEPHONE INSTRUMENT HOLD FEATURE (FUNCTION), USING SCR
SIMPLE CCT THAT PREVENTS MULTIPLE FLASHES ON DALE BEAM WHEN USING OPEN FLASH, INCLUDING SWITC
COMPACT EPROM. EMULATOR THAT ENABLES 2764 EPROM. IN EXISTING CCT TO BE REPLACED BY SRAM., INCLU
TEMPERATURE COMPENSATED LOGARITHMIC AMP. CCT WITH LOW DRIFT, FOR 1 CHANNEL OF 2-COLOR PYROM
SIMPLE ANALOGUE CCT TO MEASURE DIFFERENCE BETWEEN MAXIMUM & MINIMUM OF INPUT SIGNAL IN RANGE
IBM PC. DEBUGGER THAT PLUGS INTO PC.'S MATH-COPROCESSOR SOCKET, USING BUS CONTROLLER, WITH RE
COMPUTER TO MCA. INTERFACE
COMPUTERIZED AID FOR MUSICAL INSTRUMENT TUNING, DESIGNED FOR CONTROL BY C64 OR PET COMPUTERS
TEMPERATURE SENSING CCT USING PLATINUM RESISTANCE TEMPERATURE SENSOR/DUAL SLOPE ADC. INTERP
SIMPLE, PORTABLE 10MHZ DIGITAL COUNTER-FREQUENCY METER FOR EVENTS COUNTING, & FREQUENCY OR F
LIMITER-COMPRESSOR/+SVF FILTER/FIXED-Q -SVF FILTER/POST-FILTER AMP.
DTMF. DECODER BOARD/DTMF ENCODER-DECODER REMOTE-CONTROL CCT/MESSAGE SYSTEM FOR ANSWERING
COMPUTER-DRIVEN CONTROL FOR STEPPER MOTORS, USING MOTOR DRIVERS (SWITCH-MODE CURRENT SOUR
HUMIDITY CONTROL THAT COUPLES TO SOLENOID-CONTROLLED WATER VALVE & HUMIDIFIER SPRAY NOZZLE, U
SIMPLE VIBRATING SAMPLE MAGNETOMETER (VSM) AMP.-DIVIDER CCT, WITH PREAMP. GAIN OF 5000
DTMF. ENCODERS USING LOW-COST ENCODER IC & CRYSTAL (2)/LED. MONITOR CCT TO VERIFY ENCODER & DE
SIMPLE PHOTONIC DOOR & WINDOW INTRUSION ALARM USING SLOTTED OPTOISOLATOR, THAT PROVIDES PULS
TIMER CCT FOR ISA BUS, USING TIMER CHIP, FF. TO CHOP 14.3MHZ SIGNAL DOWN TO 7.16MHZ, & BUFFER THAT I
ZYMOS POACH1 CHIP (1 CHIP OF POACH IBM 'PC. ON A CHIP' SET), INCLUDING PIC.S/POACH2 CHIP/(BBB)
MEMORY MANAGER WITH ADDRESS DECODING & IO. STROBE CCT FOR BREAKING THE IEEE-696 64K BARRIER (B
TEMPERATURE CONTROL CCT/STIMULUS CONTROL CCT INCLUDING TRAPEZOIDAL GATING CCT, PWM. CCT & LE
30MHZ TEST OSCILLATOR USING PAIR OF TEMPERATURE-COMPENSATING N750 CERAMIC DISK CAPACITORS HE
COMB FILTER MODULE WITH CHROMA DEFEAT & FULL CHROMA-LUMINANCE CCT
SIMPLE, VERSATILE & COST-EFFECTIVE SCSI. HOST ADAPTER CCT, THAT WORKS WITH XT, AT, & PS-2 MODEL 30
HAMMARLUND "COMET PRO" 8-TUBE, AC.-OPERATED SW. SUPERHETERODYNE RECEIVER/NATIONAL AGS (AVIAT
LAMB WAVE DELAY LINE OSCILLATOR COMPOSED OF ZERO-TH-ORDER SYMMETRICAL (S\0) MODE DEVICE, AMP. .
SIMPLE PROM. PROGRAMMING CCT WITH MANUAL SWITCHES, FOR PROM.S HAVING 8 OUTPUTS, CAPABLE OF SE
COMMON-SOURCE SINE-WAVE AMP. USING JFET.
10MHZ TO 30MHZ MULTIPLIER USING VOLTAGE SINEWAVE TO CURRENT SQUAREWAVE CONVERTER USING SCH
SIMPLE MONOSTABLE MULTIVIBRATOR BASED ON 741 OA.
COMPLETE PARALLEL ADC. SUBSYSTEM
SIMPLE IO. DECODER DERIVED FROM ORIGINAL IBM PC. PROTOTYPE CARD, THAT SELECTS PORT RANGE FROM

Sheet1

SIMPLE DIVIDE-BY-N CCT THAT PROVIDES 1:1 MARK:SPACE RATIO OUTPUT FOR N=2 TO 16, USING UP COUNTER
COMMODORE VIC-20 CASSETTE-PORT-TO-HAM-RIG INTERFACE USING HEX INVERTER TO ENSURE THAT PERFECT
SIMPLE HEXADECIMAL KEYBOARD ENCODER CCTS (2)/SEQUENCER CCT FOR BINARY PATTERN GENERATOR
SIMPLE PARALLEL IO. PORT FOR S-100 BUS/SIMPLIFIED SERIAL IO. INTERFACE FOR IEEE-696 BUS/(BBB)
SIMPLE, LOW-COST PHASE-REVERSAL PROTECTOR FOR 3-PHASE (PHASE-SEQUENCE DETECTOR)
COMPARATOR DEMONSTRATION CCT/PEAK DETECTOR/WINDOW COMPARATOR
IBM PARALLEL PRINTER PORT CCT
SIMPLE CCT OF CURRENT SOURCES DRIVING 3HE PUMP HEATER & SWITCH PUMP HEATER, WITH OPTION OF CO
COMPENSATED EXPANDED SCALE VOLTMETER FOR 24V SYSTEM/CURRENT INTEGRATOR CCT THAT RECEIVES S
SIMPLE BANK SWITCHING SYSTEM WITH RESET CONTROL, FOR S-100 (IEEE-696) BUS (LATCHED PARALLEL OUTP
SIMPLE DAC. TO GENERATE SAWTOOTH WAVEFORM, INCLUDING BINARY COUNTER, TIMER FOR 16KHZ CLOCK, I
COMPUTER-CONTROLLED TRANSISTOR SWITCHES TO CONTROL HOLLOW CATHODE SOURCE BY DIRECTING DIS
SIMPLE ADAPTER FOR TRANSFER OF DATA BETWEEN BRUKER ASPECT COMPUTER BIDIRECTIONAL PARALLEL P
RAMP GENERATOR (INTEGRATOR) & SUBTRACTOR (ADDER) CCT, USING ANALOG DEVICES OA.S, FOR USE WITH
COMPONENTS OF ANTENNA MEASUREMENT CONTROL SYSTEM
COMPUTER INTERFACE CCT & REMOTE CONTROL CCT, FOR MEASUREMENT & CONTROL, INCLUDING DAS. IC & A
TEMPERATURE REGULATOR CCT USING SENSISTOR (SILICON TEMPERATURE-SENSING RESISTOR) FOR TEMPER
TIMING SECTION OF BECS/COMPUTATION SECTION (2)/INPUT AMP./VFC./CCT TO GENERATE SIMULATED SAMPLE
KIM-IDA (INTENSIFIED DIODE ARRAY) ADAPTER OF KIM 6502 UP. CONTROLLED IDA SYSTEM/DMA. ADDRESS GENE
REMOTE CONTROL (ELECTRO-OPTICAL) SYSTEM FOR REMOTE OPERATION OF RF. ION SOURCE, USING PHOTOT
SIMPLE VCO. WITH VERY WIDE SWEEP RANGE OF 100000:1 & UPPER LIMIT OF 20MHZ
SIMPLE & INEXPENSIVE WIEN (TWIN-T TYPE) BRIDGE AUDIO VFO THAT PROVIDES GOOD PERFORMANCE
MEMORY BANK WITH LINKS TO CONFIGURE DEVICES TO PROVIDE 256X256 DISPLAY OR 512X512 DISPLAY
PWM. THAT GENERATES PULSE WITH 12-BIT RESOLUTION & HAS DUTY CYCLE ADJUSTABLE FROM 0 TO 100%, US
TEMPERATURE SENSING UNIT OF THAW-WARNING (MEDICAL FREEZER ALARM) SYSTEM/SENSING UNIT AUDIBLE
SIMPLE GATE TRIGGERING CCT FOR OPEN-LOOP SPEED CONTROL OF 6-POLE 2.2KW SLIP-RING INDUCTION GEN
SIMPLIFIED ELECTRICAL ANALOGUE MODEL OF CONTRAST ENHANCEMENT CCT IN AUDITORY SYSTEM OF CRICK
SIMULATOR FOR JOSEPHSON JUNCTION, INCLUDING TRIANGULAR FUNCTION GENERATOR, & SINUSOIDAL & V-I
TEMPERATURE CONTROLLER (TEMPERATURE SENSING CCT) USING PHOTO TRANSISTOR & LOGARITHMIC AMP.
TEMPERATURE CONTROLLER FOR SMALL SUPERFUSION BATH MOUNTED ON MICROSCOPE STAGE, INCLUDING
SIMPLE IR. RECEIVER THAT WORKS AS IR. DETECTOR, USING SILICON PHOTOTRANSISTOR, OA., & SINGLE-ENDE
TIMING CONTROL CCT/TOF. INTERFACE CCT/EBS (ELECTRON-BOMBARDED SEMICONDUCTOR) DRIVE AMP. CCT
SIMPLE, WIDE RANGE DIGITAL PHASE SHIFTER THAT CAN SHIFT OVER RANGE OF 15 TO 165DEG
SIMPLE 6809 BOARD WITH DISCRETE TTL.
SIMPLE SIGNATURE ANALYZER
SIMPLE LOW-COST 1216-HP9845 INTERFACE USING MONOSTABLE MULTIVIBRATOR & DATA SELECTOR MUX.
MEMORY ARRANGEMENT
SAMPLING CCT USING 8-BIT MAGNITUDE COMPARATOR, WITH TRIGGER CCT TO DETECT CURRENT PULSE, ENAB
30MHZ MOD. JOHNSON COUNTER ABLE TO PERFORM DIVISION BY ODD NUMBER, & IS FASTER THAN BINARY CO
SIMPLE VERY FAST DRIVER (PUSH-PULL INVERTER) FOR CAPACITIVE LOADS (POWER MOSFET.S), USING COMPL
SIMPLE CURRENT PRE-AMP. USED WITH PHOTO-RECEIVER CONSISTING OF HIGH-SPEED SILICON PLANAR DIODE
SIMPLE EXTERNAL DIGITAL COUNTER FOR USE WITH HEATH IG-1275 LIN-LOG SWEEP GENERATOR, USING CRYST
TEMPERATURE ERROR AMP. OF TEMPERATURE CONTROL SYSTEM, TO CONTROL PS. IN CONSTANT-CURRENT M
SAMPLING GATE, CONTROLLED BY COMBINATIONAL LOGIC, USING OA.S/OR CONTROL LOGIC/AND CONTROL LOG
SIMPLE AMP. USING OA., THAT WORKS WITH ANY SILICON PHOTOTRANSISTOR, AMPLIFYING PULSES FROM REC
SIMPLE BICOLOR LED. DRIVER
IBM PC.'S KEYBOARD INPUT-PORT INTERFACE
TEMPERATURE CONTROLLER HYSTERESIS CCT
REMINDER CCT THAT CAUSES LED. TO LIGHT FOR TIME PERIOD DETERMINED BY RC. VALUE/INTERFACE IDEA TO

TIMING CCT THAT SAMPLES ACOUSTIC WAVEFORM WITHIN DESIRED RANGE
SIMPLE LOGIC PROBE USING 2 IC'S & LED.S/8-INPUT LOGIC ANALYZER REQUIRING IO. PORTS/MUX. TO DISPLAY 8
SIMPLE INEXPENSIVE LIGHT PEN TO DEMONSTRATE LIGHT PEN-COMPUTER OPERATIONS & MENU SELECTION, U
SIMPLE CCT TO MONITOR DATA BUS IN ALAYSING PROGRAMME EXECUTION IN RELATION TO DATA BUS, OR VICE
SIMPLE SPST. SWITCH DEBOUNCER USING SINGLE SCHMITT-TRIGGER INVERTER & CAPACITOR, RELYING ON INV
TIMING CCT TO GENERATE REFRESH-ENABLE SIGNALS TO REFRESH DRAM./ADDRESS MUX.S TO PROVIDE REFRE
MEMORY ADDRESS REGISTER & MEMORY/ACCUMULATOR, ALU. & ALU. BUFFER (BBB)/PROGRAM COUNTER/MICR
COMPACT INTERFACE TO RECEIVE (READ) & SEND MORSE CODE WITH COMPUTER
SIMPLE, ADJUSTABLE REGULATOR THAT GIVES SYMMETRICAL OUTPUT, USING 2 FIXED-VOLTAGE REGULATORS
SUMMING AMP. TO PROVIDE RUDIMENTARY SAWTOOTH WAVE FROM 4 HARMONIC SOURCES/4-FREQUENCY HAF
SIMPLE SOLAR HEATING CONTROLLER FOR SOLAR ENERGY APPLICATIONS
SIMPLE INTERFACE
TIME MUX. COUNTER INCLUDING COUNTER, LATCH, SHIFT REGISTERS & SWITCHING GATES (DATA SELECTORS)
24MHZ RF. MODULATOR-DRIVER THAT MEETS GATING SPECIFICATIONS IN LASER SYSTEM USING DIGITAL CONTI
SIMPLE SOFTWARE-DRIVEN 4 BY 4 LED. MATRIX/SELF-REFRESHING 8 BY 16 LED. ARRAY DISPLAY/CCT SHOWING
SIMPLE CCT WITH WHICH DMM. MEASURES PHASE ANGLE BETWEEN 2 PULSES, USING D FF. & QUAD 2-INPUT NA
COMPUTER-INTERFACED DIGITAL PULSE COUNTING CCT
SIMPLE SERIAL DATA GENERATOR THAT STORES 8 TEST MESSAGES, TRANSMITTING AT 5 SWITCH-SELECTABLE
SIMPLE CCT THAT CAN BE USED TO TRANSFER SOUND GENERATED BY COMPUTER ONTO TV.
OHMMETER WITH LINEAR READOUT SCALE, WITH RANGES FROM 1K TO 10M
COMPUTER-CONTROLLED ATTENUATOR USING PIN DIODE ATTENUATOR & SWITCHES, TTL. & VARIABLE CURREN
REMOTE MULTICHANNEL DAS.
SIMPLE, LOW-COST COMPUTER-CONTROL INTERFACE FOR THE ICOM-IC-720
SAMPLING PLL. WITH VOLTAGE OUTPUT WHOSE POLARITY & MAGNITUDE REPRESENT OSCILLATOR'S PHASE ER
MOMENTARY-CONTACT PRIORITY ENCODER USING 1 5TH OF NUMBER OF CHIPS IN PREVIOUS DESIGN (ELEC770
TIMING CONTROL UNIT TO SYNCHRONIZE OMA 1205 WITH SIT VIDICON FOR PULSED LASER APPARATUS
SIMPLE TTL. CLOCK
TAMPER-PROOF BURGLAR ALARM
COMPUTER-SYNTH KEYBOARD INTERFACE
SIMPLE WIDE RANGING DIGITAL INTEGRATOR
SIMPLE TEMPERATURE MEASURING CCT
SIMPLE 2-TONE GENERATOR EMPLOYING WIEN BRIDGE 2 AUDIO OSCILLATORS THAT USES 24V 327 LAMP & OA.,
RAM.-BASED EPROM. SIMULATOR ALLOWING 8085 UP. TO SWITCH BETWEEN ROM. & RAM. BANKS, USING FF. & O
TIME PROPORTIONING CONTROL CCT FOR INTERFACE TO REGULATE POWER TO RESISTIVE HEATER FOR TEMP
SIMPLE CCT TO CONTROL 64K-DRAM. BANK, HANDLING ADDRESS-MUX.ING, STROBING & REFRESH FUNCTIONS F
SIMPLE & INEXPENSIVE LINEAR MAGNETIC FIELD SWEEP GENERATOR FOR MAGNETIC RESONANCE EXPERIMEN
SIMPLE CCT FOR 4 QUADRANT MULTIPLICATION OF VOLTAGE SIGNALS/CCT FOR ZERO ERROR COMPENSATION/
SEMIAUTOMATIC HARTSHORN BRIDGE INCLUDING FIXED MUTUAL INDUCTANCE, RATIO-TRANSFORMER, ELECTR
49MHZ (RF. DATA) TRANSMITTER USING HIGH-SPEED CMOS. GATE/SAME WITH IMPROVED STABILITY, USING TRA
RAMP GENERATOR USING FREE RUNNING MULTIVIBRATOR & CONSTANT CURRENT SOURCE/RAMP AMP. CONSIS
SAMPLE NUMBER DECODER CCT USING 2 BCD.-TO-DECIMAL DECODERS/VOLTAGE RANGE SELECTOR CCT USIN
COMBINATION LOCK REQUIRING ENTRY OF 4-DIGIT COMBINATION, WITH INCREASING ENTRY-INHIBIT PERIODS A
DAMPING AMP. MA202 OF VARIAN TECHTRON AA-6 SPECTROPHOTOMETER READOUT MODULE, SHOWING COMP
COMB GENERATOR THAT PRODUCES 100'S OF HARMONICS OF 1MHZ OR 10MHZ, OF WHICH 1ST ~45 HAVE SAME
PWM. CCT USING CMOS. IC INSTEAD OF LINEAR IC'S, INCLUDING SYMMETRICALLY CONNECTED TRANSISTORS T
SIMPLE CENTRONICS PARALLEL INTERFACE FOR VIDEO GENIE & TRS-80 MODEL 1 MICROCOMPUTERS
COMPACT NANOSECOND-PULSE GENERATOR
RAM. CONTROLLER CONFIGURABLE TO SUIT PROCESSOR, RAM.-SIZE & REFRESH REQUIREMENTS, SUITABLE FO
SAM 4 FILTER (4TH ORDER BUTTERWORTH LPF.)

LIMITER IN WHICH FET. IS USED AS VARIABLE RESISTOR OF VOLTAGE DIVIDER ACROSS INPUT OF OA., REDUCING
SIMPLE CONSTANT CURRENT SOURCE FOR USE IN VOLTAMMETRIC TITRATIONS WITH ROTATING PLATINUM (RPT)
TEMPERATURE MEASUREMENT SYSTEM INCLUDING DAS., THAT FINDS RTD.'S RESISTANCE BY DETERMINING CU
SIMPLE SINE-WAVE GENERATOR USING OA. WITH TWIN-T NETWORK (WITH CLOSELY MATCHED COMPONENTS) IN
TIMEBASE FOR SMALL CHEAP OSCILLOSCOPE TUBES, USING SAWTOOTH GENERATED BY RELAXATION OSCILLA
REMOTE DATA-ACQUISITION CCT TO RECEIVE POWER & CS. DATA & TRANSMIT BACK 10 BITS TO SYSTEM-CONTR
TIMER OF PROCESSOR THAT MEASURES DURATION OF PULSES FROM APD. DETECTOR (APD) BY COUNTING CLO
SIMPLE MICROPHONE (MIKE) PREAMP. FOR EARTH STATION, USING 2 OA.S, INCLUDING GAIN CONTROL & LINE LE
SUMMING AMP./OPTICAL MODULATOR/OPTICAL DEMODULATOR/2- TO 3-PHASE CONVERTER
SIMPLE, CHEAP, DURABLE 1PF-50UF ANALOG CAPACITANCE METER USING 1MHZ OSCILLATOR & DECADE DIVIDE
TIMING & LOGIC INTERFACE FOR DATA TRANSFERS BETWEEN DETECTOR CONTROLLER & DR11-B DMA. DEVICE,
SIMPLE CCT TO PROVIDE ALPHABETIC UPPERCASE LOCK/ALPHABETIC UPPERCASE LOCK CCT THAT SHIFTS ON
ADM. 2-LOOP ENCODER OF ADM. THAT DERIVES ITS COMPANDING INFORMATION FROM NUMBER OF TRANSITION
SIMPLE CCT FOR DEMONSTRATION OF BIT-STUFFING FOR QUASI-SYNCHRONOUS DIGITAL MUX.ING, USING DUAL
SIMPLE 3-CHIP DIGITAL PLL. USING VARACTOR DIODES TO CONTROL CRYSTAL FREQUENCY
SIMPLE CCT THAT CHECKS NUMBER OF PULSES IN BURST & INDICATES WHETHER COUNT IS ODD OR EVEN
SIMPLIFIED LOGIC TO DECODE DATA ON ADC. OUTPUT LINE IN COMPUTER INTERFACE, INCLUDING MULTIVIBRAT
SIMPLE INTERFACE CCT TO SAMPLE & PASS THROUGH RS232 OR SIMILAR SERIAL PORT DATA ON UP TO 64 DIGI
SIMPLE, INEXPENSIVE, & RELIABLE SPEED CONTROL FOR SMALL DC. MOTOR, TO MAINTAIN CONSTANT SPEED W
SIMPLE CCT TO MAINTAIN CONSTANT ANODE CURRENT FROM PHOTOMULTIPLIER VIEWING CHERENKOV LIGHT A
SIMPLE CCT TO PERFORM CONSTANT TEMPERATURE CONTROL OF TUNGSTEN FILAMENT FROM 25W, 25V INCAN
SIMPLE, HIGH-SPEED PROGRAMMABLE DIVIDER USING TTL. OR LS-TTL. LOGIC CONSISTING OF 2 4-BIT BINARY C
RAMP GENERATOR BASED ON DUTY-CYCLE MODULATION & FILTERING OF SERIAL OUTPUT FROM 1KX1-BIT RAM.
SIMPLE RF.-TRANSMITTER TESTER TO DETERMINE IF TRANSMITTER IS OPERATING/GDO (GARAGE-DOOR OPENE
SIMPLE BUT EFFECTIVE CCT TO INTRODUCE RANDOM JITTER, USING 5-BIT SHIFT REGISTER WITH FEEDBACK AS
CAMAC TRIGGER MODULE CONSISTING OF 16-BIT INPUT BIT PATTERN REGISTER, INTO WHICH OVERLAPPING PA
TEMPERATURE CONTROLLER TO MAINTAINS (REGULATE) PROCESSING TEMPERATURES, INCLUDING BRIDGE US
SIMPLE VARIABLE ON-OFF TEMPERATURE CONTROLLER WITH DC. WHEATSTONE BRIDGE, THERMISTOR SENSOR
COMPUTER INTERFACE THAT CAN BE EXPANDED TO CONTROL UP TO 240 AC. &-OR DC. DEVICES, USING PARALL
SIMPLE ACTIVE BANDPASS FILTER USING OA.
SIMPLE CCT (TIMED GATE) TO EXTRACT FAST-SWITCHING SIGNALS FROM SERIAL BIT STREAM, PASSING ALL FRE
DAMPER PULSE GENERATOR OF TR. SYSTEM WITH SHORT RECOVERY TIME & EXCELLENT ISOLATION, FOR RED
SIMPLEST CPO (CODE-PRACTICE OSCILLATOR) USING HEX INVERTER (IC), CAPACITOR (WHOSE VALUE DETERMI
COMPARATOR CCT INCLUDING PS., INPUT AMP. & STAIRCASE VOLTAGE (RAMP) GENERATOR
SIMPLE EXTENSION-BUS CCT WHICH, WITH DRIVERS, ALLOWS ADDITION OF EXTRA CARDS TO PC. & PROVIDES I
COMPARATOR CCT TO INDICATE LOW BATTERY VOLTAGE/SAME CCT WITH AMP. TO DRIVE PILOT LAMP OR RELAY
SIMPLE STRAIGHTFORWARD PHOTOTRANSISTOR SENSOR (SENSING) CCT WHOSE OUTPUT IS 5V WHEN PHOTOT
SIMPLE ENVELOPE FOLLOWER CCT THAT GENERATES PULSE IN RESPONSE TO TRANSIENT AUDIO SIGNAL, SUCH
MEMORY LOADING SYNCHRONIZATION CCT ENABLING SHOT SYNCHRONIZATION PULSE TO GATE EOC. ON, UNTI
TIME-INTERVAL CONTROL LOGIC INCLUDING AUTO RESET CCT, USING 1 SHOTS & BINARY COUNTER/CCT FOR M
SIMPLE, INEXPENSIVE BATTERY-POWERED CHRONOAMPEROMETRY APPARATUS THAT FUNCTIONS AS POTENTI
AMMETER ADD-ON CCT TO BOOST MICRO-RANGE CURRENT TO DRIVE 1MA METER/LV. VOLTMETER/CCT TO PRO
SIMPLE DIGITAL QUADRATURE WAVEFORM DECODER WITH 2 PULSED OUTPUTS, USING DUAL MONOSTABLE MU
SIMPLE CONTROLLER FOR BICOLOR LED.S, PERMITTING EXPLOITATION OF ALL 4 STATES (INCLUDING RED, GRE
SIMPLE WATCHDOG TIMER THAT ISSUES TRAP SIGNAL BEFORE ISSUING SHUTDOWN SIGNAL, ALLOWING UP. SY
SIMPLE KEYBOARD ENCODER THAT WILL HANDLE UP TO 128 KEY SWITCHES, USING DOUBLE-CONTACT SWITCH
COMMON BUS ARBITOR WITH SEMAPHORE FF., TO PERFORM MUTUAL EXCLUSION & DAISY-CHAIN PRIORITY, TO
COMMAND CONSOLE OF BSR MODEL X-10 HOME CONTROL SYSTEM/APPLIANCE MODULE USING SOLENOID & SW
SUMMING OPERATION CCT OF ANALOG CCT OF NEURON, USING OA.S/DIFFERENCE OPERATION CCT/DU\1-DT OF

SIMPLE PROGRAMMABLE DECOUPLER CONTROLLER INCLUDING COUNTERS & EPROM./CCT TO GENERATE ALPHA
TEMPERATURE PROBE (CURRENT-TO-VOLTAGE (I-V) CONVERTER) USING BASE-EMITTER JUNCTION OF TRANSIS
COMPENSATION TRANSDUCER MODULE USING ELECTRONIC PRESSURE TRANSDUCER TO MONITOR PRESSURE
CAMAC INTERFACE/ADDRESS COUNTER/ADC.-MEMORY ARRANGEMENT/DAC. & DATABUS USING MEMORY BUFFE
TIMING CCT FOR 1702A/CCT TO PROVIDE SWITCH ADDRESS & DATA INPUTS/TTL. OPTION FOR MICROCOMPUTER
SIMPLE FIRING CCT FOR CHOPPER WITH IMPROVED COMMUTATION SCHEME, PROVIDING 2 COMPLEMENTARY C
SAMPLING PULSES GENERATOR INCLUDING FREQUENCY MULTIPLIER, BAND-PASS FILTER, & FRONT-END & NON
SIMPLE 160, 80 & 40M VFO.-EXCITER USING CMOS. 4000 SERIES BINARY RIPPLE COUNTER (FREQUENCY DIVIDER
SIMPLE LOW-COST HEX-TO-DECIMAL CONVERTER THAT PRODUCES OP-CODE DISPLAY FOR ENTIRE COMPUTER
COMMON-BASE OSCILLATOR TO REPLACE 1ST & 2ND CRYSTAL OSCILLATORS IN COLLINS R390A, USING VARICA
SIMPLE CCT TO TEST ACTIVITY OF CRYSTALS OF FREQUENCIES FROM <1MHZ TO >13MHZ/CCT TO GIVE ACCURA
SIMPLE LINE MONITOR FOR 5V DC. SUPPLY BUS, TO FLAG OVERVOLTAGES & UNDERVOLTAGES, BASED ON DUAL
TIMER TESTER TO TEST 555 TIMER/TELEPHONE RECORDING CONTROL CCT (STABILIZED SELF-LIMITING LINEAR
SIMPLE CCT TO GIVE ACCURATE INDUCTANCE MEASUREMENTS, BASED ON 2 TIMERS IN MONOSTABLE & ASTAB
TIMER CCT THAT CAN TRIGGER ON SIGNALS AS LOW AS 15MV, WITH SIGNAL APPEARING DIRECTLY ACROSS THE
RAMP GENERATOR TO PROVIDE VARYING VOLTAGE TO APPLY TO VARICAP DIODES FITTED TO VFO. (VCO.), USIN
SIMPLE LINEAR SAWTOOTH GENERATOR BASED ON TIMER IC IN MONOSTABLE (1-SHOT) MULTIVIBRATOR CONFIG
TIMER CCT FOR PROGRAMMABLE 1-SHOT OPERATION, CONNECTED TO DATA BUS VIA OUTPUT PORT, WITH WOR
COMPUTERIZED CAPACITANCE MEASURING INTERFACE THAT BEHAVES AS CAPACITANCE METER USING TRS-80
HOME-PROTECTION SYSTEM THAT DOES EVERYTHING BIG, FANCY, EXPENSIVE SYSTEMS DO, & COSTS A LOT LE
SIMPLE CODE PRACTICE OSCILLATOR
RAMPING SYSTEM (SEQUENCER) USING INTEGRATOR DRIVING 4 SECTIONS OF QUAD COMPARATOR WHICH ACT
SIMPLE PULSER (VAIABLE-WIDTH, MONOSTABLE CCT) TO PROVIDE SHORT DURATION ELECTRIC FIELD PULSE BY
SIMPLE BEEPER CCT TO PROVIDE AUDIBLE TRANSMIT-MODE WARNING/SCAN-ON & OFFSET SELECTION CCT (3)
REMOTE LOW-DUTY-CYCLE SIGNAL-CONDITIONING CCT THAT BORROWS POWER FROM HOST BETWEEN INPUT F
SIMPLE, INEXPENSIVE LOGIC PULSER USING TIMER CONNECTED AS MONOSTABLE PULSE GENERATOR, WITH SH
TIMER WHOSE TIMING PERIOD IS SET BY 2 THUMBWHEEL SWITCHES, USING 8-BIT BCD. TIMER THAT COUNTS DO
TIMER CONFIGURED AS ASTABLE MULTIVIBRATOR WITH LINEAR FREQUENCY CONTROL
COMPUTER-INTERFACE SIDE OF FLOPPY-DISK CONTROLLER, USING PIA. LSI. DEVICE/DISK DRIVE-INTERFACE SID
SIMPLE, RELIABLE AUTO (VEHICLE) BURGLAR ALARM USING 1 IC, INCLUDING ARMING SWITCH, ENTRY DELAY TIM
SIMPLE GAME TO ILLUSTRATE IDEA OF VIBRATION SENSOR, WHICH, USING DUAL TIMER & DECADE COUNTER, FO
SIMPLE LASER PS. FOR LOW-POWER HELIUM-NEON (HE-NE) GAS LASER TUBE, USING OSCILLATOR-TIMER, TRAN
DEMONSTRATION CCT USING MEMORY & LATCH
SIMPLE PULSE-WIDTH DISCRIMINATOR USING 2 1-SHOTS TO SET UPPER & LOWER LIMITS OF PULSES PASSED
SIMPLE 3-ELECTRODE POTENTIOSTAT BASED ON INVERTING-ADDER CONFIGURATION OA. THAT SUPPLIES CURR
PWM. CCT OF RH. MEASUREMENT SYSTEM, USING 1 TIMER CHIP AS OSCILLATOR IN ASTABLE MODE & 2ND TIME
SIMPLE CCT FOR AGC. (AMP. WITH CONTROL OVER ITS GAIN), USING 2 OA.S, WITH CDS LDR. AS GAIN CONTROL I
COMMON BUS CONTROLLER OF X.25 DTE DEVICE, INCLUDING EPROM. TO HANDLE IO. RELATIONSHIPS (SET PRIC
SIMPLE-TO-BUILD INEXPENSIVE DIRECT READING CAPACITANCE METER TO DECIPHER UNKNOWN CAPACITORS
REMOTE-CONTROL TRANSMITTER USING OA. & HF. IR. LED./CCT USING DTMF. TONE GENERATOR IC
COMPUTERIZED CAPACITANCE METER
HOME & CAR BURGLAR ALARM
COMPARATOR FOR CAPACITOR SORTING
SIMPLE TUNE GENERATOR
SIMPLE BCD. KEYBOARD ENCODER
TEMPERATURE-INDEPENDENT AF. SAWTOOTH GENERATOR
HUMIDITY CONTROL
SIMPLE & INEXPENSIVE EMULATOR INTERFACE TO REPLACE ROM., WITH MEMORY PROGRAMMABLE FROM HOST
TIME-DELAY CCT TO START FAN WHEN REPEATER IS IN OPERATION, & LEAVE IT ON FOR SHORT TIME AFTER USI

MIMICONTROLLER (CONTROLLER) TO EMULATE BBC MICROCOMPUTER IO. IN CONTROL APPLICATIONS, WITH SC
SIMPLIFIED COMBINATION LOCK USING PRIORITY ENCODER, COUNTER & KEY COMPARATOR
DTMF. (DIGITAL) TONE SIGNALING CCT (DTSC) (SELECTIVE CALLING DEVICE), INCLUDING PROM. THAT IS LOADED
SIMPLE CCT FOR QUALITATIVE DETERMINATION OF VACUUM IN GLASS TUBES, THAT IONIZES RESIDUAL GAS WITH
GAME TIMER TO INDICATE THAT SET TIME HAS EXPIRED BY SOUNDING BUZZER, USING TIMER IC IN MONOSTABLE
TIME-SLICING INTERRUPT CLOCK THAT GENERATES PERIODIC PULSE TO INTERRUPT PROCESSOR/MULTI-USER
TIMEOUT CCT THAT CAN HANDLE LONG TIMEOUT PERIODS & SHORT DATA-STROBE INACTIVE PERIODS WITHOUT
REMOTE-CONTROL UNIT OF ALARM SYSTEM THAT SETS OFF 3 INDIVIDUAL NOISEMAKERS/MAIN CONTROL CCT/P
SIMPLE, INEXPENSIVE CCT TO GENERATE SIGNALS TO DRIVE X-Y RASTER SCAN FOR STM., CONSISTING OF DIGI
SIMPLE CCT THAT REMOTELY RESETS MICROCONTROLLER VIA RS-232 SERIAL PORT ON HOST PC., USING RS-23
SIMPLE & INEXPENSIVE OSCILLATOR USING TIMER, RETRIGGERABLE ONESHOT & HEX DRIVER, THAT PRODUCES
SIMPLE, COMPACT & EFFICIENT HV. SOURCE USING PRINCIPLE OF SOFT-SWITCHED FLYBACK CONVERTER, VAR
SIMPLE, INEXPENSIVE BIOFEEDBACK INTERFACE FOR MODEL II, THAT MONITORS CHANGE IN SKIN RESISTANCE
COMPACT, VARIABLE TIMER-BEEPER WITH AUDIBLE SIGNAL FROM 6V BUZZER, FOR LABORATORY EXERCISES
10MIN ID TIMER TO IDENTIFY YOUR ATV. SYSTEM EVERY 10MIN BY USING IT TO AUTOMATICALLY SWITCH IN ANO
TIMING CCT FOR HIGH-INTENSITY PULSED HOLLOW CATHODE LAMP (PHCL), USING NETWORK OF 4 TIMERS IN 1-
SIMPLE REPEATER CONTROL SYSTEM WITH 4 ON-OFF OUTPUTS, FOR USE WITH TELEPHONE, INCLUDING RING-D
GAMES TIMER INCLUDING RED LED./HEADS OR TAILS CCT INCLUDING RED & GREEN LED.S/SLEEP TIMER
SIMPLE SIGNAL ADAPTER TO ALLOW CONNECTION OF MODEM TO CASSETTE PORT OF TRS-80 COMPUTER
COMMODORE PET MICROCOMPUTER (PC.) INCLUDING MPU., PIA.S, VIA., ROM., RAM., IEEE INTERFACE, & KEYBOA
HUMIDITY SENSOR (METER) CCT USING CAPACITIVE HUMIDITY SENSOR TO CONTROL FREQUENCY OUTPUT OF T
TEMPERATURE CONTROL CCT/SWITCH DEBOUNCER/FLASHER/CONTINUITY TESTER/MUSIC MAKER CCT/CCT TO
SIMPLE, EFFECTIVE ULTRASONIC PEST REPELLER/FRENCH PEST REPELLER/EXPERIMENTAL ULTRASONIC CCT
TEMPERATURE CONTROL CCT
COMPUTERIZED, BATTERY-OPERATED DAS. USING MPU, MUX., ADC., EPROM., ACIA. & RTC. (BBB)
TIMER (OSCILLATOR) & BINARY COUNTER, TO GENERATE STEP COUNT AS 3-BIT BINARY NUMBER/COMPUTER-EM
10MIN TIMER THAT ALLOWS INDEPENDENT CONTROL OF CHARGE & DISCHARGE TIMES OF CAPACITOR, INCLUDI
LIMITER CCT OF DRIVER, THAT REMOVES AM. FROM CARRIER/TUNNEL-DIODE ACTIVE SYNCHRONIZATION CCT (F
CBM 3032 EXPANSION/COMPUTER-SPECTROMETER INTERFACE MODULE (NIM)/STEPPING-MOTOR CONTROL
DEMODULATOR CCT WITH INPUT FROM PHONE OUTPUT OF RECEIVER, & OUTPUT TO COMPUTER INPUT PORT/A
SIMPLE 2-TRANSISTOR AUDIO AMP./CCT SHOWING HOW TO CONNECT AUDIO AMP. TO COMPLEX SOUND GENER.
TEMPERATURE-SENSING MODULE (RELAXATION OSCILLATOR) OF CLINICAL THERMOMETER, WORN BY PATIENT,
COMPUTER-VCR. INTERFACE CCT USING REED RELAYS/REGULATED PS./SOUND AMP.
COMPUTER-TS-830S TRANSCEIVER INTERFACE, USING PLL. IC, & OPTICAL COUPLER CONSISTING OF IR. LED. & P
QRM ELIMINATOR FOR COMPUTER CW., TO FILTER OUT QRM FROM AUDIO, ENABLING COMPUTER TO COPY CW.
COMPUTER-CONTROLLED, FLOATING PS. (VOLTAGE SUPPLY) TO GENERATE WIDE VARIETY OF COMPLEX VOLTA
SIMPLE CAPACITANCE BRIDGE USING PLL. & DUAL OA., INCLUDING NULL AMP., TO IDENTIFY CAPACITORS WITH V
SIMPLE & FAST PHOTOMETRIC SIGNAL PROCESSING UNIT WITH CMRR. OF 75DB & RISE TIME OF 0.2US, INCLUDI
SIMPLE BIPOLAR MOTOR DRIVE CCT TO POWER 2-PHASE MAGNETISED DISC STEPPER MOTOR THAT DRIVES AXI
1 MEASUREMENT CHANNEL USING TIMER, COUNTER & VIA./MICROFLEX 65 BUS TO SINGLE-CHANNEL SYSTEM IN
SIMPLE 16-CHANNEL TELEMETRY ENCODER
SIMPLE PROGRAMMABLE CW. IDER FOR USE ON MICROWAVE WIDEBAND FM. TRANSCEIVER, USING PREPROGRA
SIMPLE LITTLE STEREO PHONO CABLE FAULT TESTER USING GREEN & RED LED.S & 9V BATTERIES, TO CHECK F
SIMPLE, INEXPENSIVE REPEATER CONTROLLER USING SINGLE-CHIP COMPUTER
SIMPLE SWITCHBOX USING 12V DC. RELAYS, FOR SWITCHING BETWEEN RIGS (RADIOS), INCLUDING SELECTOR S
SIMPLE BANDSWITCHING FIELD-STRENGTH METER USING PUSHBUTTON SWITCH MOUNTED ON PCB., THAT INDIC
COMPUTER INTERFACE USING INTEL SINGLE CHIP MICROCOMPUTER, TO ALLOW DIRECT-FREQUENCY ENTRY FO
SIMPLE DC. PS.
REMOTE-SWITCH TIME LIMITER

SIMPLE 12V AUTOMOTIVE BATTERY BOOSTER-TRICKLE CHARGER THAT PROVIDES CHOICE OF CHARGING RATE
TEMPERATURE CONTROLLER OPERATING ON PSD. OF UNBALANCED SIGNAL FROM BRIDGE
MEMORY CCT TO ALERT OWNER UP ARRIVING AT PREMISES THAT ALARM SYSTEM HAS BEEN TRIGGERED, USING
SIMPLE IR. DETECTOR USING IR. PHOTOTRANSISTOR & PIEZOELECTRIC BUZZER WHOSE TONE IS MODULATED BY
SIMPLE CCT THAT EXTENDS ADDRESSING CAPABILITY OF 8086 UP. BY STORING DIAGNOSTIC FIRMWARE
SIMPLE CCT TO PROGRAM MUX.ED EPROM.S, WHEN USED WITH INTEL'S SDK-85 SBC., GENERATING SIGNAL TO L
TIMER WITH TIMING PROGRAMMABLE IN STEPS FROM 1 TO 15MIN, USING CRYSTAL CONTROLLED 50HZ TIMEBASE
SIMULATOR TO REPRODUCE MOVEMENTS OF HORSE, WITH MANNER IN WHICH HOOFS ARE PUT DOWN INDICATING
SIMPLE WATER-LEAK ALARM USING SCR., PIEZOELECTRIC BUZZER, & MOISTURE SENSOR (DETECTOR ELEMENT)
TEMPERATURE & PRESSURE AMPLIFICATION CCT INCLUDING AMP. OF SIGNALS OF 2 PIRANI GAUGES (3)/MICROCOMPUTER
CAMERA DRIVE ELECTRONICS/8031 UP. CONTROL SYSTEM
SIMPLE FULL-WAVE PS. TO OPERATE 4-POLE-DOUBLE THROW (4PDT) RELAYS THAT SWITCH EXISTING ROTATOR
SIMPLE SINGLE FET. MIKE (MICROPHONE) PREAMP. TO PROVIDE ADDITIONAL AUDIO GAIN FOR FULL MODULATION
SIMPLE & INEXPENSIVE PS. FOR Z80 STARTER KIT, TO PROVIDE +5V AT 1A & +12V AT 200 TO 300MA, USING 3 VO
SIMPLE VOLTAGE REGULATOR CCT
COMPUTER-RECORDER USING Z80 UP. TO STORE ATARI VIDEOGAME CARTRIDGES ON CASSETTE TAPES
TIMER CCT TO SYNCHRONIZE INTERRUPT PULSES WITH 60HZ LINE FREQUENCY TO LOCK FILTER'S NOISE TABLE
MEMORY CONTROL SYSTEM FOR I486 & I860 RISC. UP., WITH SUSTAINABLE BW. OF 133MBYTES-S AT 33MHZ, ACC
SIMPLE INTERFACE THAT ADDS ANALOGUE SIGNAL AVERAGING FACILITY TO ANY Z80-BASED MICROCOMPUTER
SIMPLE MIDI. THRU BOX TO PROVIDE PORTS FOR 4 INSTRUMENTS FOR DATA OUTPUT WITHOUT CHAINING DELAY
HOME RUN CONTROL SYSTEM FOR ENERGY MANAGEMENT & SECURITY/TIMING-GENERATOR CCT/IO. CCT
REMOTE STATION FOR FIRE DETECTION & ALARM MONITORING/TRANSMISSION LINE DRIVES FROM SERIAL TRANSMISSION
COMPUTERIZED CALL RESTRICTOR TO PREVENT OUTGOING CALLS TO 1-900 & 976 TOLL NUMBERS, USING MICROCOMPUTER
50MHZ VFO./MIXER-REFERENCE CCT/LOGIC CCT
20M SUB-COMPACT QRP TRANSCEIVER THAT HAS FEATURES OF FULL-SIZED RADIO/CW. CONTROL MODULE/15W
SAM DIGITAL MONOPHONIC SOUND SAMPLER BASED ON MICROCOMPUTER, TO CONVERT AUDIO SIGNALS & STORE THEM
SIMPLER CCT TO FORCE Z80 PROCESSOR'S STARTING ADDRESS TO MEMORY ADDRESS HEXADECIMAL F000, USING
SIMPLE TX TX (TEXAS TRANSMITTER) THAT PRODUCES 1.5-2.5W OUTPUT ON ANY 1 OF 4 BANDS FROM 80 TO 20M
DTMF. DECODER TO DECODE TONES HEARD ON SCANNER, USING PREPROGRAMMED MICROCONTROLLER, DTMF
SIMPLE DUAL RANGE MICROVOLT METER CCT/PS.
SIMPLE CCT TO CONTROL VPP PS. FOR EEPROM., OPERATING FROM UP. SIGNALS, TO ALLOW CHIP-ERASE OPERATION
TIMER-CONTROLLER TO PRODUCE TRIGGER PULSES & CLOCK LINES NECESSARY TO CONTROL LASER FIRINGS
10MHZ CRYSTAL OSCILLATOR THAT IS SURE-STARTING & EASY TO FINE TUNE, INCLUDING TTL. BASE-16 COUNTER
OHMIC VOLTAGE DIVIDER (DISTRIBUTION CCT) FOR HIGH STABILITY PHOTOMULTIPLIER OPERATION/ACTIVE VOLTAGE
PGMH05 LOW-COST PROGRAMMER FOR MICROCONTROLLERS WITH ON-CHIP EPROM.S, USING CHIP TO PROGRAM
SIMPLEST 1MHZ Z80 UP. SYSTEM, INCLUDING CMOS. CLOCK CCT, EPROM. & QUAD LATCH, USING Z80'S INTERNAL
MEMORY MODULE INTERFACE OF CAMAC-MOSTEK IO. PORT INTERFACE/TIME CORRELATOR MODULE TO CHANGE
SIMPLE REGULATED PS. USING COMMON 3-TERMINAL REGULATOR IC
SIMPLE PARALLEL INTERFACE ADAPTER BETWEEN TYPE 1 CAMBRIDGE RING NODE & MOTOROLA PIT. CHIP
SIMPLE 7805 REGULATED SUPPLY WITH GROUND LEG LIFTED TO RAISE OUTPUT VOLTAGE, TO POWER NINTENDO
SIMPLE CONTROL SYSTEM BASED ON 8-BIT MICROCONTROLLER (SINGLE CHIP COMPUTER), WITH 4K EPROM. & 2K
COMMUNICATION BOARD CONSISTING OF SECTION CONTAINING COMMUNICATION LOGIC & BUS INTERFACE, & F
SIMPLE PEAK DETECTOR CCT TO PERMIT CALCULATION OF PEAK-TO-PEAK HEIGHTS & DETERMINE DIFFERENCE
SIMPLE LED. FLASHER OPERATED FROM 12V SOURCE/CCT TO ACTIVATE DEVICE WHEN SOUND COMES FROM RADIO
SIMPLE IR. LED. TRANSMITTER MODULE USING LED. FLASHER IC
SIMPLE & VERSATILE VOLTMETER WITH BARGRAPH READOUT, TO CHECK CAR'S BATTERY & ELECTRICAL SYSTEM
MEMORY-MAPPED IO. CONTAINING DEVICE IDENTIFIER THAT GENERATES SIGNAL TO DISABLE MEMORY BUFFER
SIMPLE RS-232-TO-RS-422 CONVERTER (CONVERSION) CCT USING RS-232 DRIVER-RECEIVER, RS-422 RECEIVER
10M DSB (DOUBLE-SIDEBAND) EXCITER BOARD & OPTIONAL 1W POWER AMP. (CW.-DSB TRANSMITTER USING 28

SIMPLE 9W AUDIO AMP. BUILT AROUND FAIRCHILD IC, USABLE FOR TV. AUDIO OUTPUT, CHILDREN'S PHONOGRAM
SIMPLE DUAL OA. BIDIRECTIONAL RAMP GENERATOR WITH ADJUSTABLE RAMPING RATE & OUTPUT AMPLITUDE
S-METER CCT CONSISTING OF EXTERNAL IF. & METER CCT, TO COMPENSATE FOR LACK OF S-METER ON TEMPO
SIMPLE INEXPENSIVE CCT TO CONVERT AC. SIGNALS >450KHZ INTO VIDEO LOG REPRESENTATION, USING FM. D
SIMPLE COMPARATOR USING OA. & 3 RESISTORS, DELIVERING FULL-RANGE OA. OUTPUT OF +-10V, & ALLOWING
STM. SYSTEM USING CURRENT AMP. & MICROMETER DRIVE CCT/X-Y-Z PIEZOELECTRIC DRIVER CCT TO DRIVE Q
COMET-TRACKER CCT THAT SENDS STREAM OF PULSES TO MOTOR & FREQUENCY COUNTER, USING 12V BIPOL
TIME TO VOLTAGE CONVERSION AMP. & DISCRIMINATOR/TVC FF.S, CURRENT SOURCES, SWITCHES & BUFFERS/
SIMPLE SINGLE-RESISTOR TUNED ACTIVE OA. RC. 2-INTEGRATOR LOOP SINUSOIDAL QUADRATURE OSCILLATOR
DEMUX. & 1 DAC. CHANNEL, INCLUDING DUAL 1-SHOT & LATCHES, PRECISION MONOLITHICS 10-BIT DAC. & OA.
SIMPLE MODULATION AMPLITUDE CONTROLLER TO REDUCE SPURIOUS BASELINE EFFECTS IN BROAD-LINE NMR
IBM PC. ADC. BOARD USING 2 12-BIT ADC.S, DERIVING COMPUTER-INTERFACE POWER FROM UNUSED PRINTER-
TEMPERATURE DIFFERENCE INDICATOR (DUAL THERMOMETER) THAT INDICATES DIFFERENCE BETWEEN INDOOR
TEMPERATURE-DEPENDENT COMPENSATING CCT THAT COMPENSATES FOR THERMAL EXPANSION OR CONTRA
SIMPLE DICHROISM CONTROL UNIT FOR USE WITH PHOTOMULTIPLIER, HV. SUPPLY & PSD., IN CONJUNCTION WITH
SIMPLE 0-4MHZ DDS (DIRECT DIGITAL SYNTHESIS) DESIGN (SYNTHESIZER) CONSISTING OF DIGITAL ACCUMULAT
'EMERGENCY LIGHTING UNIT' (SIMPLE BACK-UP SUPPLY THAT CAN BE USED FOR OTHER THAN LIGHTING)
SIMPLE PROGRAMMABLE PS./CCT SHOWING IMPLEMENTATION OF OA.'S SHUTDOWN MECHANISM
SIMPLE WORLD SYSTEM ECCT-BASED TELETXT DECODER USING 3 IC'S INCLUDING 8K BYTE SRAM., TELETXT
SIMPLE LOW NOISE PREAMP. FOR USE WITH RETICON S SERIES SELF-SCANNED SILICON PHOTODIODE ARRAYS
TEMPERATURE CONTROL CCT FOR USE WITH +12V/TEMPERATURE CONTROL CCT MOD. FOR -19V OPERATION, F
SIMPLE CAT (COMPUTER ACCESSED TRANSCEIVER) INTERFACE/DELUXE CAT INTERFACE/ALTERNATIVE CAT INT
SIMPLE, LOW-COST VFC. USING FET.-INPUT OA. TO COMPARE INPUT & OUTPUT VOLTAGES & TRIGGER 1-SHOT T
SIMPLE TTL. LOGIC TESTER (FOR IC'S)
SIMPLE 6 BIT DAC. WHICH FEEDS USER PORT OF PET COMPUTER
SIMPLE GATED INTEGRATOR FOR TRANSIENT RECORDING/SWITCH DRIVER
TEMPERATURE SENSING CCT/DELAY BASED RC. OSCILLATOR/CONTROL LOGIC (BBB)/COUNTER & DISPLAY SYST
SIMPLE LINEAR FIRING CCT USING IC CHIPS, FOR AC. VOLTAGE CONTROLLER WORKING UNDER VARIABLE-FREQ
SAMPLE CAPACITOR & MEASURING CCT CONSISTING OF INPUT OF HIGH INPUT IMPEDANCE FET. OA. CONNECTE
SIMPLE, LOW-COST,ADJUSTABLE ELECTROMECHANICAL TIMER USING IC & SMALL EM. COUNTER, WITH RESOLU
SAMPLE VOLTAGE TRACKER (SVT) INCLUDING COMPARATOR & INTEGRATOR/SAME WITH D FF. ADDED/SVT WITH
TEMPERATURE REGULATOR INCLUDING DC. PROPORTIONAL CONTROLLER, FOR USE IN CONJUNCTION WITH CO
SIMPLE TEMPERATURE CONTROLLER TO CONTROL SAMPLE TEMPERATURE IN NMR. SPECTROMETERS, USING A
RAMP GENERATOR INCLUDING CALIBRATION OSCILLATOR, VOLTAGE REGULATOR, INTEGRATOR & OUTPUT AMP
SIMPLE 4 QUADRANT MULTIPLIER USING 1 OTA. & NO CONVENTIONAL OA.S, WITH 200UA BIAS CURRENT TO ENS
SIMPLY ANALOG ELF (EXCESS LF.) NOISE GENERATOR USING RCA OA., TO ELIMINATE ALL NOISE SOURCES EXC
TEMPERATURE-COMPENSATED SERIES REGULATOR/FREQUENCY COMPARATOR/LOGIC PROBE
SIMPLE, ECONOMICAL, RELIABLE & TEMPERATURE-INDEPENDENT LOGARITHMIC CCT USING QUAD OA., FOR 0.4-
RAMP (SWEEP) GENERATOR INCLUDING VOLTAGE-CONTROLLED CURRENT SOURCE & PEAK DETECTOR/MARKE
COMPARATOR WITH INDEPENDENTLY, DIGITALLY PROGRAMMED WINDOW CENTRE VOLTAGE & WIDTH (UPPER &
COMPLEX CHROMA PROCESSOR CCT
30M QRP-30 TRANSCEIVER (RIG) WITH INTERNAL NICD. BATTERY PACK & VFO./OPTIONAL SIDETONE CCT/CCT FO
SIMPLE QRP SWR. BRIDGE FOR USE UP TO 30MHZ, USING TOROIDAL TRANSFORMER, BRIDGE CCT & MATCHED D
SIMPLE CCII-CURRENT CONVEYOR USING OA.S, FOR USE IN CCT FOR LOSSLESS FLOATING INDUCTANCE
SIMPLE PROPORTIONAL TEMPERATURE CONTROLLER FOR PHOTOGRAPHIC PROCESSING, USING THERMISTOR,
SIMPLE VERY HIGH IMPEDANCE VOLTMETER USING CMOS. OA./SIMPLE PEAK VOLTAGE DETECTOR
SIMPLE, PORTABLE INSTRUMENT FOR SEMICONDUCTOR TYPE INDICATION ('N' OR 'P')
SIMPLE BATTERY-POWERED SWITCHING REGULATOR THAT STEPS UP 2 AA CELLS TO GIVE FIXED +5V OUTPUT A
SIMPLE & EASILY OPERATED CCT FOR DIRECT MEASUREMENT OF FILL FACTOR OF SOLAR CELLS, INCLUDING C

IMMERSIBLE RF. PROBE CCT INCLUDING RF. OSCILLATOR, DETECTOR, REFERENCE SOURCE, BUFFER & AMP., FOR
SIMPLE INTERFACE FOR TRS MODEL I-III COMPUTER FOR FEEDING IN BASICODE CASSETTE TAPE
SIMPLE 4-TERMINAL BRIDGE & PREAMP./PSD. (SYNCHRONOUSLY DRIVEN FULLWAVE RECTIFIER) & OUTPUT STAGE
SIMPLE CCT FOR CONTROL OF ALGAAS. LASER DIODE INJECTION CURRENT, INCLUDING 2 POTENTIOMETERS TO CONTROL
SIMPLE INTERFACE CCT TO SIMULTANEOUSLY DISPLAY PICTURE DERIVED FROM VIDEO DISK & PAGE OF TEXT &
COMPOSITE AMP. THAT PROVIDES 40DB GAIN, WIDE (10MHZ) BW. & GOOD DC. ACCURACY, USING CASCADED VIDEO
REMOTE POWER CONTROLLER (RPC) INCLUDING 2 SERIES-CONNECTED BANKS OF PARALLEL-CONNECTED HV. TRIODES
SIMPLE VERY WIDEBAND (BROADBAND) FM. BOOSTER (VHF. AMP.) WITH 20DB GAIN, 1DB NF., & INPUT & OUTPUT STAGES
SIMPLE STEPPER MOTOR CONTROL UNIT CONTROLLED BY COMPUTER, USING CONTROLLED ASTABLE MULTIVIBRATOR
COMPARATOR WITH DIGITALLY PROGRAMMABLE WINDOW LIMITS (CENTER & WIDTH), USING DUAL BUFFERED DUAL INLINE
COMPUTER TO DC.-MOTOR INTERFACE/AUDIO INTERFACE/NON-SYNCHRONOUS & SYNCHRONOUS TRIAC POWER CONTROL
DBM. FOR USE IN FREQUENCY-DIVISION MUX.ED SYSTEMS
PWM. CONTROLLER THAT GENERATES 5V-2A OUTPUT/CHARGE-PUMP DC.-DC. CONVERTER/CCT USING MULTIPLE
ADMA. (ADVANCED DMA.) CONTROLLER IN 16-BIT 80286 UP. SYSTEM (BBB)
SIMPLE 4-QUADRANT ANALOG MULTIPLIER THAT IMMEDIATELY ACQUIRES STEADY STATE WHEN SIGNAL CHANGES
COMPOSITE AMP. WITH GAIN OF 20DB & BW. OF BETTER THAN 30MHZ, USING HIGH PRECISION & SPEED O.A.S OF
DVM. WITH 3-DIGIT COMMON-CATHODE LED. DISPLAY, USING MUX.ED ADC. & CMOS. BCD.-TO-7-SEGMENT COMM
60MHZ TO 80MHZ REGENERATION DIVIDE-BY-2 ANALOG FREQUENCY DIVIDER USING RF. AMP., DBM., POWER DIVIDER
CAMAC CRATE STATION/CAMAC CRATE CONTROLLER NORMAL STATION/PROGRAMMABLE STIMULATOR/PROGRAMMABLE
SAM1 TRANSVERTER THAT ALLOWS USE OF 80M AMATEUR TRANSCEIVER ON 1750M-LONG WAVE BAND/NOISE-E
COMPLETE CCT INCLUDING VARICAP BANDSPREAD CCT, RF. BUFFER AMP., SUPPLY LINE FILTERS, & LF. BUFFER
SIMPLE ENERGY STABILISER INCLUDING SLIT AMP.S, DIFFERENCE AMP. & HV. TRIODE, TO COMPENSATE FOR SH
COMPOSITE-VIDEO GENERATOR
SIMPLE QRP CW. TRANSMITTER THAT COVERS 80 & 40M BANDS, USING TUBE, CRYSTAL-CONTROLLED WITH TUNING
SIMPLE SQUARE WAVE ULTRASONIC SIGNAL GENERATOR USING TIMER/SIMPLE RANGEFINDER USING PLESSEY
TIMER USING UJT./VOICE-ACTIVATED SWITCH (VOX)/LIGHT DIMMER/BURGLAR ALARM/TRANSMISSION INDICATOR
ATM25 RADIO MODEM MODULE (TRANSCEIVER) USING PROGRAMMABLE FREQUENCY SYNTHESIZER/ATM31 INTE
SIMPLE SATELLITE-TV. DISH TRACKER
SIMPLE TELEPHONE HOLD CCT INCLUDING MOV. TO PROTECT AGAINST TRANSIENT VOLTAGES & SURGES, & SC
COMPUTER-TU-300 MODEM INTERFACE/MOD. TO TU-300 KEYING CCT/TS-820S KEYING CCT MOD.
40MHZ PORTABLE FREQUENCY COUNTER/COUNTER'S INPUT STAGE
10MHZ FREQUENCY COUNTER USING INTERSIL FREQUENCY-COUNTER CHIP & DISPLAY, USING FET. TO PROVIDE
10MHZ FREQUENCY STANDARD USING PLL., BALANCED MODULATOR & FET.S IN TIME KUBE RADIO RECEIVING W
SIMPLE (MINIMUM) SYSTEM FOR MICROCONTROLLER (MCU), INCLUDING CS. CCT, RAM., ROM., LED. DISPLAY-LAMP
20MHZ 32 BIT HIGH PERFORMANCE SYSTEM BASED ON MOTOROLA MC68030-MC68EC030 UP.S, USING FAST SYN
COMPLETE SCSI. BUS-CONTROLLER CCT IN WHICH HOST ADAPTER USES PROGRAMMABLE INTERFACE-TIMER C
TIMING & POSITIONING DISCRIMINATOR INCLUDING RC. INTEGRATOR, WIDE-BAND DIFFERENTIAL VIDEO AMP., LE
SIMPLE DEVICE TO MEASURE REACTION TIME TO TOUCH IN HUMAN SUBJECTS, FOR USE IN EXPERIMENTS MEAS
SIMPLE BATTERY MONITOR USING QUAD COMPARATOR, TO MONITOR 12V CAR OR BOAT BATTERY & GIVE WARN
SIMPLE INTERFACE TO DISPLAY VIDEO FROM COMPUTER ON OSCILLOSCOPE, TESTED USING CASIO FP1100 MIC
SIMPLE DC.-MOTOR SPEED CONTROL USING 8-BIT DAC. & O.A., FOR CONTROL BY DIGITAL OUTPUT OF COMPUTE
LIMITED-TIME BATTERY-BACKUP CCT THAT PROVIDES POWER FOR TIME DETERMINED BY RC. TIME CONSTANT V
HOMEMADE SPECTRUM ANALYZER/FREQUENCY-DIVIDER CHAIN & DISPLAY SECTION OF SPECTRUM ANALYZER
SIMULATOR OF PANTING MANOEUVRE SIGNALS GENERATED IN PLETHYSMOGRAPHY, USING 2HZ SINUSOIDAL O
SIMPLE, SMALL ELECTROMETER PREAMP. USING O.A. & INSTRUMENTATION O.A., WITH RANGES OF 30UV TO 10V,
SIMPLE EXPERIMENTAL OSCILLATOR TO DEMONSTRATE INJECTION LOCKING PERFORMANCE, USING GAAS. MES
COMPLEX (SSB.) MIXING PHASE-FREQUENCY DETECTOR USING MULTIPLIER, XOR GATES, & FET. FOLLOWER &
SIMPLE AUDIO OSCILLATOR WITH EXCELLENT FREQUENCY STABILITY, USING SINGLE QUAD O.A., CONFIGURED A
TIMER CCTS USING PROGRAMMABLE TIMERS CONTAINING COUNTER & RC. OSCILLATOR (2)/BOUNCE-FREE SWIT

SIMPLE VOLTMETER CAPABLE OF READINGS OF 0-2V, USING 3.5-DIGIT SINGLE-CHIP ADC. & 4 COMMON-ANODE D
TIMER THAT INDICATES WITH LED. WHEN NICD. BATTERIES HAVE BEEN ON CHARGE FOR 14HR, USING DIGITAL
SIMPLE CLOCK-CONDITIONING CCT THAT PERFORMS SQUARING & AMPLITUDE ADJUSTMENT OF CLOCK SIGNALS
TIMER CCT/TIMER CCT WITH 1MIN DELAY PERIOD, WITH OUTPUT STROBE GOING HIGH AFTER TIMEOUT
55MPH SPEED-LIMIT ALARM
80M QRP TRANSCEIVER INCLUDING DIRECT CONVERSION RECEIVER, USING TUNED RF. AMP., AF. AMP., AF. FILT
10M (29MHZ) FM. EXCITER USING MOTOROLA FM. TRANSMITTER SUBSYSTEM IC, INCLUDING VXO, LINEAR AMP. &
SIMPLE LIGHT DIMMER (LAMP-DIMMER CCT) USING TRIAC & DIAC, TO CONTROL AMOUNT OF HEAT APPLIED TO L
TIMER CONSISTING OF PARKING TIMER & SWITCHING CCT (INCLUDING RELAY), TO PREVENT OVERCHARGING OF
SIMPLE LOW-COST, LOW-NOISE 4-ELECTRODE GALVANOSTAT USING VOLTAGE FOLLOWERS & CONSTANT CURR
SIMPLE, ECONOMICAL COLOUR-BAR GENERATOR TO PRODUCE NTSC. COLOUR BARS WITH AUDIO, VIDEO & RF.
LIMITER TO CONVERT 70-260VAC. TO 180-350VDC., USING FULL-WAVE RECTIFIER AS VOLTAGE DOUBLER AT LOW
S-METER CCT FOR ANY RECEIVER (RADIO), TO GIVE VISUAL INDICATION OF RELATIVE STRENGTH OF INCOMING
SIMPLE ANALOGUE THERMISTOR THERMOMETER, ALLOWING DIRECT READING OF TEMPERATURE IN RANGE 0-1
DTMF DECODER. (PARTIAL SCHEMATIC)/DTMF. CONTROLLER DECODING-SECTION/CONTROLLER OUTPUT BOARD
COMPUTER-CONTROLLED RF. ATTENUATOR, USING COAXIAL RELAYS & COAXIAL ATTENUATOR
SIMPLE PULSE GENERATOR
LAMP CONTROLLER THAT WILL LET YOU SEE THAT DOORBELL IS RINGING, EVEN IF IT'S IMPOSSIBLE TO HEAR IT
SIMPLE RC. TIMER THAT IS SOFTWARE PROGRAMMABLE, ALLOWING CAPACITIVE DISCHARGE TO INTERRUPT UP
SIMPLE LIGHT DETECTOR (PHOTOMETER) WITH PHOTORESISTOR (LDR.) USED AS SENSOR & LED. AS INDICATOR
PCM. FILTER USABLE AS LOWPASS OR HIGHPASS FILTER, SUCH THAT, BY VARYING CLOCK FREQUENCY, CUTOFF
SIMPLE METAL DETECTOR CONSISTING OF 120KHZ COLPITTS OSCILLATOR USING TRANSISTOR CONNECTED TO
TIMING DISCRIMINATOR INCLUDING WIDE-BAND DIFFERENTIAL VIDEO AMP., LEADING-EDGE DISCRIMINATOR & L
SIMPLE FF. WITH ON TIME OF ~4S, THAT MAY BE TRIGGERED BY PHOTOVOLTAGE GENERATED BY SHINING LIGH
SIMPLE BATTERY-OPERATED ECG. LEAD TESTER THAT INDICATES (WITH LED.S) WHICH SIGNAL PATH (ELECTRO
RUMBLE FILTER TO REMOVE VLF.S, REMOVING ANTI-PHASE STEREO SIGNALS BY PASSING OUT-OF-PHASE COM
TIMER IC CCT FOR 110 BAUD OPERATION OF TDS900 SBC.
TEMPERATURE METER TO CORRECT PLATINUM RTD., USING 3.5-DIGIT ADC./CCT TO CORRECT FOR NONLINEARIT
COMPUTER (PC,) RS-232 TO KENWOOD 5V TTL. INTERFACE, USING SERIAL IO. PORT OF RADIO, INCLUDING TTL. T
SIMPLE CCT USING DUAL-TIMER IC TO SOUND PIERCING 90DB 1HZ ALARM (TONE) FOR 1MIN WHENEVER PIEZOELE
HOMEMADE 220MHZ AMP./PS. SUITABLE FOR FILAMENT, BIAS, & SCREEN VOLTAGE
MEMORY-PROTECTION CCTS THAT HOLDS SIGNAL TO EEPROM.'S WRITE-INHIBIT INPUTS HIGH OR LOW WHILE V
20MHZ CPU. BOARD CAPABLE OF REAL-TIME IO. CONTROL & DISPLAYING STATUS ON LCD., INCLUDING DRAM. CO
SIMPLE SCANNING CCT TO CHECK STATUS OF DC. SUPPLY LINES IN COMPUTER-PERIPHERALS SYSTEM
SIMPLE, INEXPENSIVE LAPSED TIMER DEvised AROUND XR2240 PROGRAMMABLE TIMER-COUNTER
20MA LOOP TO TTL. CONVERTER, POWERED FROM CBM 64 USER PORT
CSMA-CD ETHERNET NODE USING VLSI. DEVICES (BBB)/PRE-EMPT GENERATOR FOR TRANSMITTER SECTION/PR
14MHZ QRP SSB.-CW. TRANSCEIVER FRONT END & VFO., INCLUDING DIODE-RING MIXER (2)/TRANSCEIVER RECE
SIMPLE DC. AMP. WITH JFET. BIASED FOR NEARLY ZERO DRIFT IN 1ST STAGE, INCLUDING 2 DIFFERENTIAL PAIRS
SIMPLE CCT FOR EXPERIMENTING WITH 8-BIT SINGLE-CHIP COMPUTER (WITH EEPROM.), INCLUDING EPROM., &
SUM & DIFFERENCE CCT OF IMPLICIT DIGITAL RMS. METER TO MEASURE RMS. VALUE OF ALTERNATING VOLTAGE
10MHZ GENERATOR THAT IS PHASE-LOCKED TO SELECTABLE AM.-BC. RADIO STATION (TRANSMITTER), WITH TT
SIMPLE TRF AM. RECEIVER OF CARRIER-CURRENT AUDIO SYSTEM, BEST SUITED FOR RECEIVING SPEECH/FM. R
RAM.-BASED PROGRAMMABLE AUTODIALER FOR 2M MOBILE AUTOPATCH USE, USING 64X8 RAM. THAT IS CONTIN
SIMPLE RING DETECTOR/2-CHIP RING-DETECTION CCT TO PROVIDE OPTOISOLATED SIGNAL FOR COMPUTER/CO
COMMON EMITTER AMP. CCT
REMOTE UNIT/BASE UNIT CONSISTING OF AMP.-FILTER, & PLL. DEMODULATOR
SIMPLE FREQUENCY COUNTER USING INTERSIL COUNTER CHIP & FAIRCHILD PRESCALER, TO ACCURATELY MEAS
TIME-VARIABLE GYRATOR BASED ON CUK PUSH-PULL POWER STAGE, TO TEST DC.-AC. CONVERSION & CURREN

SAMPLE DESOLVATION UNIT TO INTRODUCE DRY PARTICLES TO IMPACTION-ELECTROTHERMAL ATOMIZATION A
50MA CURRENT-LIMITED HV. REGULATOR THAT IS ADJUSTABLE IN STEPS OF 10V FROM 200 TO 300V
SIMPLE BATTERY OPERATED RESIDUAL CHARGE MONITOR DESIGNED FOR USE IN BALLOON EXPERIMENTS
SIMPLE INEXPENSIVE PROGRAMMER FOR UP. WITH 2K-BYTE ON-CHIP EPROM., 3-FUNCTION TIMER & SERIAL-CO
PWM. FOR HIGH-SPEED 1KM OPTICAL DATA LINK WITH LOW BW. OVERHEAD, INCLUDING SH./PULSE WIDTH DEMO
TIMER-PROCESS CONTROLLER USING RTC. COMBINED WITH 8-BIT UC/INTERFACE BETWEEN RTC. CHIP & IBM PC
DMM. USING GE-INTERSIL HIGH PERFORMANCE, LOW POWER AUTORANGING DMM. IC, WITH 13 RANGES, 3.75 DIG
SIMPLE DRIVE CCT FOR RESONANT BUCK CONVERTER FOR DC.-DC. POWER CONVERSION, USING GTO. THYRIST
SIMPLE INTERVAL TIMER USING INTERSIL LSI. TIMER & STATEK PX01000 PROGRAMMABLE CRYSTAL OSCILLATO
SIMPLE STAND-ALONE EEPROM. PROGRAMMER BUILT USING UV. EPROM.-BASED 6805 MICROCOMPUTER, 4X5 KE
SIMPLER CCT THAT COVERS WIDER RANGE OF DYNAMIC RESISTANCE THAN ORIGINAL CCT (ELWI8610)
SIMPLE LOW-POWER SOUNDER USING INDUCTOR TO INCREASE VOLTAGE ACROSS PIEZO-ELECTRIC AUDIBLE W
SIMPLE TEST CCT TO DIRECTLY READ DYNAMIC TRANSCONDUCTANCE OF FET., WHEN LINKED WITH AC. VOLTM
TIMER USING LCD. WRISTWATCH, FEATURING POWER-ON & MANUAL RESET, TO INCREASE TIMEKEEPING CAPAE
TEMPERATURE & LOGFO2 MONITOR CCT/TYP E R THERMOCOUPLE LINEARIZATION CCT
COMPLETE CCT OF DIVIDER, CRYSTAL CONTROLLED CLOCK & PULSE DURATION MONOSTABLE
COMMUTATING FILTER CONTROL CCT
SIMPLE CCT TO PHASE-MODULATE CARRIER, PROVIDING PSK. OUTPUTS, & USING BINARY COUNTER, 4-BIT ADDE
PUMP-CONTROLLER CCT TO PRODUCE COMPUTER-LIKE STEPPER-MOTOR-DRIVE CONTROL, USING OPTOISOLAT
TEMPERATURE DIFFERENCE & POWER COMPUTING CCT, USING TEMPERATURE TRANSDUCERS O.A.S, FOR USE
TIME INTERVAL COUNTER OF TIME INTERVAL ANALYZER (TIA), INCLUDING TIME BASE, & DIGITAL TRANSITION DE
SIMPLE PREAMP. TO PERMIT 5 GAINS BETWEEN 1 & 1000, WITH OPTIONAL LPF.
COMPUTER-RABBIT CONTROL INTERFACE FOR ADAPTOR TO DISPLAY 2 UNSYNCHRONIZED PICTURES IN 1 PICTU
SIMPLE INEXPENSIVE HALF-INTEGGER DIVIDER
TEMPERATURE-SENSOR & ADC. CCT THAT CONNECT TO MICROSYS DEVELOPMENT SYSTEM/16-CHARACTER LCD
SIMPLE ADC. CCT TO INTERFACE TO APPLE II+ MICROCOMPUTER (PC.) TO LIGHT SENSOR VIA EXPANSION SLOT,
TEMPERATURE SENSOR ANALOG INTERFACE INCLUDING ADC., 2.5V REFERENCE & O.A./CCT FOR LOGIC CONTR
PWM. BOARD/DISTRIBUTION BOARD/ELECTROMAGNET & PHOTODETECTOR BOARD (2)/MANUAL CONTROL/INTER
COMMUTATING MODULATOR-DEMULATOR (SIGN-BIT AMP.)/LEAD-LAG NETWORK/LOW-DISTORTION SINE-WAVE
TIMER THAT LETS ONE DETERMINE HOW LONG BEDSIDE LIGHT REMAINS ON AFTER HAVING ACTUATED TIMER U
SIMPLE ELECTRONIC SIREN
SIMPLE PHASE COIL DRIVER FOR SMALL MOTORS, USING DARLINGTON TRANSISTOR, DRIVEN BY MOS. IO. CHIP
TEMPERATURE PROGRAMMER FOR USE WITH CARLE MODEL 311 ISOTHERMAL GC.
SIMPLE & INEXPENSIVE INTERFACE FOR SEQUENTIAL SAMPLING OF 16 CHANNELS (MUX.ING), USING DATA-ACQ
COMPUTER INTERFACE TO CONVERT SIGNALS FROM CLOCK USING MOS. IC'S & LED. DISPLAYS INTO TTL. COMP
IBM PC. COMPUTER INTERFACE CARD TO PERFORM ADC. ON POTENTIOMETERS, & PROGRAMMABLE PIA. (PPIA)
SIMPLE 2.5-DIGIT METER CCT/3.5-DIGIT METER CCTS (2)/FUZZ-BOX CCT
TEMPERATURE CONTROL CCT
MEMORY (RAM.), ARITHMETIC UNIT, ADDRESS COUNTER & CONTROL CCTS OF ANALYZER/CLOCK & OUTPUT CCT
SIMPLE IR. REMOTE CONTROL RECEIVER THAT RESPONDS TO MOST TYPES OF TV. REMOTE CONTROLS, BASED
TIMING-GENERATOR/SERIAL COMMAND LINE CCT/ADDER/CCT FOR TRANSMITTING PIXEL DATA TO HOST COMP
COMPUTER INTERFACE FOR ROBOT ARM, FOR APPLE, BBC, COMMODORE & IBM/SOLENOID DRIVER/PS.
SIMPLE-TO-BUILD \$80 ELF MICROCOMPUTER HARDWARE & SOFTWARE TRAINER/CONTROL CCTS FOR COMPUTE
COMPUTER-CONTROLLED MULTISWITCH SYSTEM (POWERPORT) USING MOSFET. OUTPUT SWITCH DEVICES ABL
DTMF. ENCODER WITH TRANSMITTER KEYING, WITH CONTROL OF PTT. LINE OR RELAY CONTROL/MOBILE AUDIO
SAMPLING & ADC. BLOCK OF MULTIPLE SAMPLING DIGITAL BOXCAR INTEGRATOR WITH MAXIMUM SAMPLING RA
TEMPERATURE TRANSMITTER INCLUDING FM. SUBCARRIER OSCILLATOR (SCO), SEQUENCING SWITCH, TIMING F
TEMPERATURE-TO-FREQUENCY CONVERTER/PHOTO-DIODE & PHOTOTRANSISTOR ARRAY FOR TACHOMETRY
REMOTE LCD. READOUT CCT USING ONLY SINGLE TWISTED-PAIR CABLE FOR DATA & POWER/BAUD-RATE GENE

SIMPLE CHARGER FOR AA CELLS

SIMPLE TESTER FOR 4-WIRE CCTS

COMPUTERIZED, MULTISTANDARD TV. RECEIVER USING PHILIPS'S TDA8000 SERIES IC'S FOR AUTOMATED ALIGN

SIMPLE CCT TO GENERATE HOLD CURRENT TO RELAYS & SOLENOIDS, BY TAKING ADVANTAGE OF HIGH-CURRE

COMPUTERIZED DICE GAME THAT USES MANUALLY CLOCKED LOGIC, LATCHES TO HOLD DATA IN MEMORY, & DE

TEMPERATURE CONTROLLER (FEEDBACK CONTROL DEVICE) FOR LASER DIODE, USING TEMPERATURE SENSOR

COMPUTER INTERFACE TO CONVERT RECEIVER KIT FROM MANUALLY TUNED RADIO TO SCANNING RECEIVER W

TEMPERATURE-SENSOR PROBE USING USING CURRENT SOURCE WHOSE OUTPUT IS PROPORTIONAL TO ABSOL

SIMPLE CCT THAT ADDS POWER-DOWN FUNCTION TO ANALOG IO. PORTS USED IN HARD-DISK SERVO LOOPS, U

COMPOSITE AMP. THAT COMBINES DC. PRECISION OF BIPOLAR AMP. WITH DYNAMICS OF HIGH-SPEED FET. INPU

'PM.' MULTIPLIER/CCT SHOWING TRIMMING OF ANALOGUE MULTIPLIER FOR OFFSETS & GAIN

TEMPERATURE ALARM TO PRODUCE DC. LEVEL CHANGE IF TEMPERATURE EXCEEDS TRIP TEMPERATURE/CCT I

SIMPLE CCT USING ANALOG MULTIPLIER, TO PROVIDE OUTPUT VOLTAGE LINEARLY PROPORTIONAL TO ABSOLU

TIMING CCT THAT TURNS ON POWER SOURCE UPON COMMAND & TURNS IT OFF AFTER PRESET INTERVAL, USIN

PUMP CONTROL SERVOSYSTEM USING MENISCUS OF FLUID LEVEL SENSOR TO INTERRUPT BEAM OF IR. LIGHT/I

COMPACT ICOM IC-275 VHF. 2M TRANSCEIVER INCLUDING MAIN UNIT, PA UNIT, PLL. UNIT, LOGIC-FRONT UNIT & F

SIMPLE, INEXPENSIVE PROGRAMMABLE MULTICHANNEL DELAY SUBSYSTEM FOR DIGITAL LOGIC SYSTEMS, USIN

SIMPLE INTERFACE BETWEEN TRANSPUTER-BASED SYSTEMS & EXTERNAL INSTRUMENTS, THAT PROVIDES ADC

COMBINATION INJECTOR TRANSFORMER & HIGH PERFORMANCE BUFFER AMP. FOR ISDN. BASIC RATE TRANSPCE

TIME-DELAY FLASH-TRIGGER CCT USING QUAD NAND SCHMITT TRIGGER OF WHICH 2 GATES ARE CONFIGURED

SIMPLE COLD-JUNCTION COMPENSATED THERMOCOUPLE AMP. THAT USES SIGNAL-CONDITIONING AMP.'S GROU

TEMPERATURE DIFFERENCE (DIFFERENTIAL) AMP.S, POTENTIOMETER, POWER TRANSISTOR, HEATER & 3 TEMP

TEMPERATURE COMPENSATION & GAIN CONTROL CCT TO ADJUST GAIN OF MMIC. AMP. WITH TEMPERATURE, US

LAMP CONTROLLER TO CONTROL LIGHT SOURCE & PROVIDE OPTICAL STABILIZATION FEEDBACK (2)/DATA ACQU

COMPLETE STAND-ALONE BUS MONITOR USING DEDICATED 6802 PROCESSOR (BBB)

SIMPLIFIED CCT TO DISPLAY HEXADECIMAL NUMBERS IN DECIMAL FORM, INCLUDING ADDER & COMMON CATHO

SIMPLE BINARY LADDER TO PERMIT 4 DIGITAL SIGNALS TO BE DISPLAYED SIMULTANEOUSLY ON 1 OSCILLOSCO

COMPARATOR CCT THAT PROVIDES MONOTONIC DIGITAL OUTPUTS (HYSTERESIS) THAT CORRESPOND TO VARI

COMPOSITE AMP. WITH ULTRA-LOW DISTORTION, USING ULTRA-LOW-NOISE, LOW-DISTORTION OA. COMBINED W

SIMPLE INTERFACE DESIGNED TO CONTROL KR2 LAUDA MGW THERMOSTAT WITH AC. FLOATING BRIDGE EXCITA

SYM-1 MICROCOMPUTER CONTROL INCLUDING PULSE STRETCHERS, MISSING PULSE DETECTOR, & SSR.S FOR

TEMPERATURE-CONTROL CCT USING 2-TERMINAL IC TEMPERATURE TRANSDUCER (SENSOR) THAT PRODUCES

COMPUTERIZED INSTRUMENT BASED ON ISE FOR ENVIRONMENTAL MONITORING, USING MPU., MUX., ADC., RTC

SIMPLE INTERFACE CARD FOR COMPUTERIZED DATA ACQUISITION USING PC., INCLUDING PERIPHERAL IO. ADA

SIMULATING CCT (NEURAL NETWORK IMPLEMENTATION) OF CANONICAL NONLINEAR PROGRAMMING CCT/VARIA

SIMPLE \$20 CONVERTER TO ADD TRUE-RMS. CAPABILITY TO VOM OR DMM., USING ANALOG DEVICES TRUE-RM

SIMPLE INTERFACE FOR COMBINATION OF PERKIN-ELMER MPF-43 SPECTROFLUORIMETER WITH LOW-COST CO

SIMPLE SQUARE-WAVE OSCILLATOR USING 1-PORT SAW. RESONATOR WITH INTERDIGITAL ELECTRODES

SIMPLE YET RELIABLE FULLY AUTOMATIC CW. "VOX" TYPE BREAK-IN CCT FOR KENWOOD TR-9000 MULTI-MODE T

SIMPLE LOW-POWER 1-SHOT TIMER WITH COMPLEMENTARY INPUTS & OUTPUTS, USING NAND GATES, WITH QUI

COMPRESSOR USING CURRENT-FEEDBACK AMP. & MINIATURE LAMP, TO COMPRESS AC. SIGNALS BY >15DB WIT

SIMPLE CODE-PRACTICE OSCILLATOR

SIMPLE BROADBAND (AF.-TO-UHF.) PREAMP. USING SIGNETICS IC WITH FIXED GAIN OF 20DB, & INPUTS & OUTPU

COMPRESSOR & INPUT FILTER USING COMPANDER CHIP/EXPANDER & OUTPUT FILTER

SIMPLE, INEXPENSIVE, WIDEBAND RF. AMP.

17M RECEIVER CONVERTER USING OSCILLATOR/TRANSMIT CONTROLLER MOD. FOR 30M TRANSMITTER/SIDETO

DEMONSTRATION SH. CCT/DIGITALLY CONTROLLED SH. CCT USING CMOS. CHIPS

GAME ADAPTER CCT FOR XT

LUMPED-ELEMENT MATCHING NETWORK

20M MICRO RECEIVER MODULE USING DBM. & IF. AMP. IC'S/TEST OSCILLATOR TO CHARACTERIZE CRYSTALS/BU
COMM180 1200-BITS-PER-SECOND MODEM EXPANSION INTERFACE FOR SB180, INCLUDING NCR 5380 SCSI. CON
SIMPLE VIDEO CONTROLLER THAT PROVIDES VIDEO FADER FOR COMPOSITE VIDEO, & AUDIO MONO-STEREO M
SIMPLE GATED TONE GENERATOR INCLUDING 3 OUTPUT CONFIGURATIONS FOR SAME, TO PROVIDE AUDIBLE C
REMOTE TV. ANTENNA AMP. USING SIGNETICS HF. AMP. WITH FIXED INSERTION GAIN OF 20DB INTO 50 OR 75OH
COMPOSITE VIDEO GENERATOR THAT ALLOWS ANY VIDEO SOURCE TO DRIVE ANY NTSC. TV. MONITOR EQUIPM
COMPRESSOR SECTION/EXPANDER SECTION
IBM GAME CONTROL ADAPTER INCLUDING ADDRESS DECODING, 4 SWITCH INPUTS, 4 JOYSTICK INPUTS & BUFFE
SIMPLE CCT TO MONITOR CONSTANT CURRENT (DETECT ANY CURRENT >150MA) & PROVIDE ERROR SIGNAL, US
MEMORY KEYS (DIGITAL RECORDER) TO ACCURATELY REPRODUCE SPEED & CADENCE OF OPERATOR'S KEYIN
SIMPLE SPECTRUM ANALYZER INCLUDING FRONT-END (USING DBM.), LO. (CONSISTING OF VOLTAGE-TUNED, VFO
SIMPLE TIMING CCT THAT CAN BE MADE TO CONTROL ANY NUMBER OF ELABORATE FUNCTIONS
SIMPLE, LOW COST SSTV. INTERFACE FOR RECEIVING, TO CONVERT TRANSCEIVER'S AUDIO OUTPUT TO SIGNAL
REMOTE-CONTROL POWER CCT
TIME-DELAYED TONE DECODER
SIMPLE INEXPENSIVE ID TIMER
COMPARATOR CCT FOR TV. VIDEO SIGNAL PROCESSING, TO DETECT WHEN SIGNAL FALLS WITHIN 1 OF 4 WINDO
40M DIRECT-CONVERSION CW. TRANSCEIVER USING SIGNETICS CHIP INCLUDING DBM. WITH 15DB OF GAIN, OSC
SIMPLE, HIGH-ACCURACY 2.50V VOLTAGE SOURCE USING PRECISION MONOLITHICS VOLTAGE REFERENCE IC, U
SIMPLE HV. PULSE GENERATOR TO STRIP INSULATION FROM TIP OF FULLY INSULATED, TUNGSTEN MICROELEC
CAMAC-CONTROLLED 4-LEVEL DISCRIMINATOR CONTAINING 4 INPUT CHANNELS, TO PROVIDE FAST TRIGGER SI
SIMPLE ELECTRONIC TIMER TO CONTROL DEPOSITION & ANODIC STRIPPING SEQUENCE OF PRINCETON APPLIE
SIMPLE DIODE CCT TO INVESTIGATE ELECTRICAL PROPERTIES OF NONLINEAR DEVICES & PLOT TYPICAL DIODE
TEMPERATURE MEASUREMENT CCT TO MONITOR REFLECTED HEAT FROM BREAD, USING OA. COMPARITOR TO
SIMPLE COR (CARRIER-OPERATED RELAY) CCT
SIMPLE BLOWN-FUSE INDICATOR THAT TELLS AT GLANCE WHETHER FUSE IS BLOWN, ALLOWING NO CURRENT T
TIME-DELAY CCT TO FIRE FLASH GUN & TO TRIGGER OSCILLOSCOPE, USING PHOTOTRANSISTOR TO PRODUCE
15M QRP TRANSCEIVER (RADIO) FOR 21MHZ CW. OPERATION, USING 16MHZ IF., INCLUDING VFO. BUFFER, MIXER
TIME BASE CCT FOR TIME DELAY MEASUREMENTS, USING MONOSTABLE MULTIVIBRATOR BASED ON TIMER IC, T
COMM180 MODEM EXPANSION BOARD
10MHZ WWV TO 80M DOWN-CONVERTER USING HF. CONVERTER CONTAINING DIFFERENTIAL AMP. & DBM./CCTS
LIMIT TESTER TO SORT CAPACITORS ACCORDING TO DISSIPATION-FACTOR LEVELS, WITH RESOLUTION OF 0.00
SIMPLE ADJUSTABLE 3-TERMINAL IC VOLTAGE REGULATOR USED AS FLOATING PRE-REGULATOR/PUSH-PULL SH
RAMSEY SR-1 SIMPLE SW. RECEIVER BASED ON SIGNETICS RF.-CONVERTER CHIP THAT PROVIDES LO. & DBM., U
COMPRESSOR/1:2 EXPANDER/VU EXTENSION CCT
SIMPLE ULCNET/ULCNET FOR 2-WIRE SHIELDED CABLE/MOD.S TO EXPAND NETWORK CAPACITY/FAST ULCNET U
SIMPLE AMP. IN MATCHING NETWORK TO DEMONSTRATE NARROWBAND PERFORMANCE OF SMALL-SIGNAL HET
COMPENSATED IGBT. MODULE WITH DC. NEGATIVE FEEDBACK, THAT SENSES OUTPUT CURRENT, USING SENS
SIMPLE METAL DETECTOR USING PLL. LOCKED TO ITSELF, WHOSE VCO. INCREASES ITS FREQUENCY WHEN SEA
SIMPLE CCT THAT DETECTS & OFFERS PROTECTION AGAINST GROUND-FAULT CONDITIONS, USING 117VAC. REL
SIMPLE BRIDGE RL-MULTIVIBRATOR INCLUDING OA. & NONLINEAR MAGNETIC COIL CONSISTING OF PRIMARY OF
SIMPLE TELEPHONY FILTER WITH HIGH- & LOW-PASS SECTIONS/BAND-PASS FILTER USEABLE AS MORSE-TONE I
SAMPLING AMP. WITH PEAK-HOLD CCT, TO DETECT & HOLD HIGHEST VOLTAGE ENCOUNTERED, USING SH. AMP.
TEMPERATURE SENSING MODULE USING VFC./CENTRAL MODULE BASED ON SINGLE-CHIP COMPUTER WITH CPU
TIMING CCT OF MICROPROGRAMMED DIGITAL FILTER-BANK/SEQUENCER & STATUS CCT (BBB)/FIELD DECODING
COMPARATOR CCT USING OA. HOOKED UP IN OPEN LOOP AS COMPARATOR TO VOLTAGES OBTAINED BY SERIA
SIMPLE ELECTRON GUN DEFLECTION SUPPLY
PWM. AMP. TO CONTROL BRIDGE OF SWITCHING TRANSISTORS CONTROLLING MOTOR/COMPUTER CCT TO WHIC
SIMPLE TEMPERATURE CONTROLLER USING VARIABLE COMBINATION OF PROPORTIONAL & INTEGRAL FEEDBACK

TEMPERATURE & ECG.-SENSING CCT, USING DIFFERENTIAL AMP./FM. TRANSMITTER CCT/INTERFACE CCT FOR H
SIMPLE BELL-SHAPE PULSE GENERATOR CONSISTING OF TRIANGLE VOLTAGE GENERATOR, CONTROLLED-GAIN
80M DIRECT CONVERSION RECEIVER INCLUDING INPUT RF. FILTER, VFO., PRODUCT DETECTOR, AUDIO BANDPA
SIMPLE DECODER FOR PPM. MULTICHANNEL BIOTELEMETRY, ADAPTABLE TO ALL KINDS OF TIME-CODED WAVE
SYMMETRICAL COMPLIMENTARY CONFIGURATION (LINEAR VOLTAGE) AMP. WITH SIMPLIFIED BIASING-FEEDBACK
SIMPLE FREQUENCY-VOLTAGE CONVERTOR WITH THEORETICALLY ZERO OUTPUT RIPPLE, USING OA.S & COMP
SIMPLE DIGITAL-TO-SINUSOIDAL CONVERTER USING CLOCK-DRIVEN SWITCHED-CAPACITOR FILTER TO PROVIDE
SIMPLE TEMPERATURE-TO-TIME PERIOD CONVERTER USING THERMISTOR AS TEMPERATURE TRANSDUCER, WI
SIMPLE AMP. USING OA., THAT ALLOWS SDT1-028K SHIELDED KYNAR PIEZO FILM SENSOR TO SENSE HEAT
COMMON EMITTER-COMMON COLLECTOR TRANSIMPEDANCE (APD.) PREAMP. WITH LEVEL SHIFTING & COMMON
SIMPLE LOW-LEVEL 3-WAY CROSSOVER NETWORK WITH HIGH PASS, MID RANGE & LOW PASS OUTPUTS, USING
SIMPLE INSTRUMENT TO MEASURE MAGNETIC INDUCTION, DEVELOPING OUTPUT VOLTAGE THAT IS PROPORTIO
TIMING, SINE-COSINE & REFERENCE SAWTOOTH GENERATOR/RASTER GENERATOR CONSISTING OF MULTIPlica
SIMPLE ACTIVE-RC. MEASUREMENT CCT THAT PROVIDES MEASURED VALUE OF CAPACITANCE DIRECTLY IN TER
SIMPLE SINGLE HETEROJUNCTION PULSED LASER DIODE LIGHT SOURCE USING STACKED 30W IR. LASER DIODE
SIMPLE HALL-EFFECT MAGNETIC SENSOR, USING SPRAGUE OR RADIO SHACK HALL-EFFECT SWITCH
SIMPLE BUCK CONVERTER (SMPS.) OPERATING FROM 100V DC. SUPPLY & PRODUCING 100W OUTPUT AT 10.2V, V
SEMICONDUCTOR-BASED GAS ALARM (DETECTOR) USING FIGARO GAS SENSOR, TO DETECT COMBUSTIBLE GAS
SIMPLE CCT THAT DETECTS FLAWS IN MATERIAL MOVING ALONG A CONVEYER
TEMPERATURE CONTROL CCT OF ROCKING TEMPERATURE GRADIENT INCUBATOR (TGI), THAT MAINTAINS TEMP
SIMPLE OSCILLATOR USING UNITY-GAIN BUFFER IN COLPITTS CONFIGURATION, USING CRYSTAL'S FUNDAMENTA
SIMPLE LOGARITHMIC AMP. USING LOGARITHMIC DIODE, AUTOMATIC BIAS CONTROL & OUTPUT AMP., FOR COME
"SMART FUSE" USING "SMART HIGH-POWER PNP DARLINGTON" WITH FAST CURRENT-FOLDBACK OVERLOAD PRO
TEMPERATURE MEASURING CCT (CONSTANT-CURRENT SOURCE THAT BUFFERS FENWAL HIGH-RESISTANCE TH
25MHZ ADC. FOR PC. BUS, INCLUDING TRW FLASH CONVERTER, BUFFERS, ADDRESS GENERATOR, 16-BIT COUN
COMPENSATION RADIOMETER AMPLIFICATION CCT
SAMPLED-DATA TRANSMISSION CCT USING SWITCHED-CAPACITOR BLOCK, IN WHICH CAPACITOR IS SWITCHED
SIMPLE PS. FOR FLOPPY DISK DRIVE, PROVIDING REQUIRED POWER OF 1.5A AT +5V, 1.2A AT 26V WHEN STEPPIN
SIMPLE CURRENT-LIMITED AC. PS. FOR CHECKING TRANSFORMERS & COILS
SIMPLE 'BANG-BANG' TEMPERATURE CONTROLLER/LINEAR-PROPORTIONAL TEMPERATURE CONTROLLER
SIMPLE CCT/INVERTER CCT/CCTS TO MEASURE INPUT & TRANSFER CHARACTERISTICS OF TRANSISTOR (2)
TIME-SLOT ARBITRATOR THAT MANAGES COMMON-MEMORY REQUESTS FROM 2 Z80 UP.S & IBM PC., INCLUDING
PWM. PS. FOR ROCKET STROBE, PRODUCING 300V FROM 9V BATTERY/TRIGGERING CCT USING SCR., TO PROVIDE
SIMPLEST POSSIBLE STEPPER-MOTOR INTERFACE TO MICROCOMPUTER, FOR 5V, 1A TYPES
TIMED NICD. CHARGER
REMOTE POWER CONTROLLER FOR YOUR COMMODORE-64
DIMMER CCT FOR NEON TUBES, USING TRIAC THAT SWITCHES OFF DURING ZERO VOLTAGE CROSSINGS OF MA
SIMPLE DIRECT-DRIVE MAGNETIC STIRRER FOR USE WITH DYE LASER
SIMPLE PUSH-PULL TRANSISTORISED DC.-DC. INVERTER WITH VERY HIGH EFFICIENCY OVER WIDE RANGE OF LO
SIMPLE GENERATOR THAT ALLOWS PARAMETERS (MAXIMUM & MINIMUM AMPLITUDE, FREQUENCY & SHAPE) OF
COMPUTER-TRANSCIEVER INTERFACE FOR RTTY. OPERATION, USING APPLE GAME IO.
COMPACT (SMALL), LOW POWER, & MAINTENANCE FREE DTMF. DECODER USING AMERICAN MICROSYSTEMS BA
DTMF. ENCODER CCT WITH EXTENDED BATTERY LIFE, REQUIRING NO SEPARATE ON-OFF SWITCH
SIMPLE COMPACT SOUND-DELAY UNIT THAT GIVES REPEATING ECHO WITH HALF-SECOND (0.5S) PERIOD & GOO
SIMPLE 10M FM. RECEIVER
COMPARATOR CCT
COMPUTER-CONTROLLED CURRENT SOURCE
IBM PC.-HEATER CONTROLLER INTERFACE USING 8-BIT DAC. & DATA LATCH (BBB)/PS./AMP. & SWITCH ASSEMBLY
RAMP FUNCTION GENERATOR USING INTEGRATOR & ANALOG SWITCHES/POSITION STORAGE & SUBTRACTION C

COMPACT, EASY TO ASSEMBLE, PORTABLE, BATTERY POWERED AUDIO OSCILLATOR WITH LOW-DISTORTION OUTPUT
DMM. USING QUAD COMPARATOR, NAND GATE & ADC.
TIMER THAT GENERATES 40-60MS LONG PULSES TO SWITCH BLAUPUNKT 8010 CAMCORDER (VIDEO CAMERA) ON
PWM.-CONTROLLED BUCK CONVERTER CONSISTING OF POWER & CONTROL CCTS, INCLUDING RAMP GENERATOR
SIMPLE ACTIVE-R SINUSOIDAL VCO. USING SINGLE-POLE ROLL-OFF CHARACTERISTICS OF OA.
COMPARATOR TO COMPARE OUTPUT OF PHOTODIODES, & TRACK HORIZONTAL & VERTICAL EYE MOVEMENTS, USING
TEMPERATURE-COMPENSATED ANTI-LOG AMP. USING 2 TRANSISTORS TO PERFORM ANTI-LOG FUNCTION, 2 AS
COMPARATOR-TEST CCT USING FF., DIFFERENTIAL INTEGRATOR, & 2 PAL.S FOR SEQUENCING TESTS(2)/CCT USING
DEMODULATOR SECTION OF DETECTOR/WIEN BRIDGE OSCILLATOR/PREAMP. (VOLTAGE AMP. OF HIGH INPUT IMPEDANCE)
SIMPLE CRYSTAL OSCILLATOR/CCT OF 'CONNECTORS & BUS DECODING' PANEL, INCLUDING CURRENT & PIN VOLTAGE MEASUREMENT
SIMPLE LIGHT-SEEKING CCT USING 2 PHOTOCELLS, FOR DEMONSTRATING SOME BASIC PRINCIPLES OF ROBOTICS
TEMPERATURE SENSING & CONTROL SYSTEM USING SIC THIN-FILM THERMISTOR CAPABLE OF OPERATION BETWEEN 0-100C
SIMPLE CCT USING DIODES & AMP., THAT MAKES RAISING TO A POWER POSSIBLE
SIMPLE 2-QUADRANT ANALOG DIVIDER THAT CAN DIVIDE MANY INPUTS SIMULTANEOUSLY, USING SWITCHING VOLTS
SIMPLE LOCAL-REMOTE SELECTOR FOR SWITCHING BETWEEN LOCAL FRONT-PANEL CONTROL POTENTIOMETER & REMOTE
RAMP GENERATOR TO GENERATE DELAY/VCO., SINE SHAPER & SINE AMPLITUDE REGULATOR/PHASE SHIFTERS
SIMPLE LOW-COST DIRECT-READING ANALOG CAPACITANCE METER FOR TEST BENCH
SIMPLE SINGLE-CHANNEL PHA.
TIME PHASE STABILIZER (TPS) TO CORRECT LONG TERM PHASE DRIFTS BY ADJUSTING TIMING OF RF. REFERENCE
SIMPLE MICROCOMPUTER OUTPUT (USER) PORT BUFFER-INTERFACE WITH 8 50V, 500MA CHANNELS, USING BUFFER
SIMPLE CCT FOR LINEAR TEMPERATURE MEASUREMENT, THAT REQUIRES 1 OA. & 1 THERMISTOR
TEMPERATURE CONTROLLER USING SILICON SENSOR WITH THERMAL TIME CONSTANT OF 10S, OA.S, FET. & DAUGHTERBOARD
TEMPERATURE CONTROL CCT USING TRIAC CONTROLLER, TO PROVIDE PROPORTIONAL CONTROL/AUTOMATIC-
COMPOSITE-FEEDBACK AMP. WITH COMPOSITE VOLTAGE & CURRENT FEEDBACK WITH 1 SIDE OF OUTPUT AT GAIN
PWM. MOTOR CONTROL CCT WITH 20KHZ DRIVE FREQUENCY, INCLUDING OSCILLATOR WHOSE OUTPUT IS CONVENTIONALLY
COMB MODULATOR USING DIRECT DIGITAL SYNTHESIS (DDS), TO TRANSMIT ROAD & EMERGENCY INFORMATION
COMPUTER INTERFACE/BANDPASS FILTER/TUNING INDICATOR/CW. KEYING CCTS/AFSK. CCT
DVM. CONTAINING ABSOLUTE-VALUE AMP. & VFC./DUAL-INPUT DVM. INCLUDING INPUT AMP.S, SWITCHING & POLARITY
SIMPLE & INEXPENSIVE RS4 VLF. RECEIVER INCLUDING FET. INPUT STAGE, LPF., & ACTIVE HIGH-PASS FILTER TO
DIMMER WITH TOUCH CONTROL, THAT ALLOWS DIMMING OF LIGHT BULBS, USING SIEMENS IC, TOUCH KEY, PUSH
TEMPERATURE CONTROL CCT, INCLUDING TEMPERATURE SENSING & CONTROLLING CCT, FAN & HEATING ELEMENT
SIMPLE LPF./CCT USING NEGATIVE CAPACITANCE TO REDUCE EFFECTIVE VALUE OF LARGE, UNWANTED, & NON-
SIMULATOR THAT PROVIDES LV. 3-PHASE SUPPLY WITH 120DEG PHASE DIFFERENCE BETWEEN ANY PAIR OF PHASES
10MHZ FUNDAMENTAL-MODE CRYSTAL OSCILLATOR USING AGC. AMP., & SERVO LOOP TO CONTROL AMPLITUDE
TEMPERATURE CONTROL CCT THAT DRIVES HEATER/LASER CURRENT CONTROLLER (STABLE LOW-NOISE CURRENT SOURCE)
SIMPLE 25W CW. HAM TRANSMITTER (RF. RIG) FOR 40M AMATEUR BAND, USING BEAM-POWER AMP. VACUUM TUBE
DEMUX. CONSISTING OF TRANSIMPEDANCE BUFFER FOR PHOTODIODE (PHOTODETECTOR), FOLLOWED BY GAIN
COMPARATOR CCT TO GENERATE SQUARE WAVES/INTEGRATOR CCT TO GENERATE TRIANGULAR WAVES
59MHZ OPTICAL OSCILLATOR CONTAINING NO ELECTRICAL AMPLIFICATION, USING LASER DIODE, DETECTOR, 50
SIMPLE AUDIO SINE-WAVE GENERATOR CONSISTING OF WIEN-BRIDGE OSCILLATOR, TO DRIVE HAY-MAXWELL INDUCTOR
SIMPLE HV. (0-400V) REGULATED DC. PS. WITH VERY HIGH RIPPLE REJECTION & LOW NOISE, TO ENERGISE DRIFT
COMPENSATION CCT TO SET OUTPUT OF HALL-EFFECT DEVICE TO 6V FOR ZERO MAGNETIC FIELD STRENGTH/D
SIMPLE, EASY-TO-BUILD, TV. AUDIO AMP. TO TAILOR TV. SOUND TO NEEDS OF VIEWER, USING ELECTRET MICROPHONE
SIMPLE S-METER (SIGNAL STRENGTH) UNIT (INDICATOR) OF FM. TUNER, USING LED. BAR DRIVER IC (IN 'BAR' MODE)
SIMPLE ADC. THAT EXPERIENCES PROBLEMS CAUSED BY RUNT PULSES, USING COMPARATOR & D FF./CMOS. PULSED
LIMIT COMPARATOR/PROGRAMMABLE LIGHT METER/VCO.
SIMPLE PHASEMETER USING 2 OA.S/PHASEMETER WITH WIDE INPUT VOLTAGE RANGE
SIMPLE SOLID-STATE OSCILLOSCOPE THAT EMPLOYS ARRAY OF LED.S FOR SCREEN
SIMPLE SPEECH EXPANDER-CLIPPER WITH LED. BAR-DOT DISPLAY

TIMING GENERATOR USED TO GENERATE APPROPRIATE TIMING & GATING PULSES, INVOLVING ELASTIC WAVE T
SIMPLE LOW-POWER TEMPERATURE CONTROLLER TO MAINTAIN TEMPERATURE WITHIN ± 0.2 DEG C FROM 32 TO
SIMPLE QUARTZ OSCILLATOR WITH VIDEO AMP. & OPTO COUPLER TO SEPARATE GROUNDS OF INSTRUMENTS
COMPENSATOR TO ENHANCE LF. RESPONSE OF TEKTRONIX P6021 CURRENT PROBE, FOR USE WITH OSCILLOSCOPE
SIMPLE TREE ORNAMENT TO BRIGHTEN HOLIDAY SEASON, USING OSCILLATOR, CMOS. DECADE UP-COUNTER &
SIMPLE COMPARATOR CCT
SIMPLE & INEXPENSIVE 3-PHASE FIRING CCT USING PLL. IN CONJUNCTION WITH 3-BIT JOHNSON COUNTER FOR A
HOME-GONE REMOTE SWITCH CCTS (2)/REMOTE TEMPERATURE SENSOR WITH PULSE TRAIN OUTPUT WHOSE F
DEMODULATOR USING PLL. & COMPARATOR, THAT DECODES AUDIO TONES INTO BITS, TO INTERFACE COMPUTE
COMPARATOR CCT THAT PERFORMS AS ZCD. WHEN SUBJECTED TO NOISY SAWTOOTH INPUT WAVEFORM
SIMPLE, INEXPENSIVE CMOS. CLOCKING CCT THAT GENERATES 10MHZ & 20MHZ SQUARE WAVES PHASE-LOCKE
SIMPLE ANALOG HI-LO GAME USING WINDOW COMPARATOR/HI-LO GAME USING MIX OF ANALOG & BOTH COMBIN
SIMPLE "BURST DETECTOR" TO FACILITATE COUNTING OF ACOUSTIC SIGNALS & TRIGGERED DATA ACQUISITION
TIME DISCRMINATOR THAT GIVES OUTPUT IF 2 PULSES ARE SEPARATED BY TIME GREATER THAN PRESET VALU
SIMPLE SCA (SUBSIDIARY COMMUNICATIONS AUTHORITY) ADAPTER CONSISTING OF PLL. WITH INPUT & OUTPUT
SIMPLE ADJUSTABLE VOLTAGE REGULATOR THAT CAN BE OPERATED FROM 12V DC. SOURCE/AC.-OPERATED DC
DEMONSTRATION 16BIT CPU. USING AMD ALU./CONTROLLER BASED ON 2910, OPTIMIZED TO WORK WITH ALU., T
SAMPLING CCT THAT PERFORMS TRUE-AVERAGE SAMPLING IN MOTOR SPEED CONTROLLER, INCLUDING INTEG
SIMPLE CCT TO RESTORE TUBE PERFORMANCE, USING 5V 3-TERMINAL FIXED VOLTAGE REGULATOR, THAT INCR
COMPUTER INTERFACE OF STIMULATOR CONTROLLER/TIMER & COUNTER/PREMATURE BEAT GENERATORS (3)/
TIMER-CONTROL CCT FOR AUTOMATIC PORCH LIGHT, THAT AUTOMATICALLY TURNS ON & OFF LIGHT SHORTLY
SIMPLE 1-BIT FLASH CONVERTER (ADC.) CONSISTING OF VOLTAGE COMPARATOR/ACCURATE CCT TO MEASURE
SIMPLE HIGH-PRECISION FULL-WAVE RECTIFIER USING SUMMING AMP. THAT ADDS INVERTED NEGATIVE SIGNAL
SIMPLE AMP. CCT USING OA.
SIMPLE MOD. CCT USING VOLTAGE FOLLOWER, TO ELIMINATE DC. BALANCE CONTROL IN HEATHKIT 10-4530 10M
SIMPLE AUDIO AMP. USING NATIONAL SEMICONDUCTOR AUDIO-AMP. IC, WITH SUFFICIENT OUTPUT TO BE HEARD
SIMPLE BATTERY POWERED CCT TO HAVE SERIES OF LED.S LIGHT IN RESPONSE TO VOLUME OF INCOMING AUD
SIMPLE BATTERY POWERED CCT TO HAVE SERIES OF LED.S LIGHT IN RESPONSE TO VOLUME OF INCOMING AUD
SIMPLE NEARLY LINEAR BRIGHTNESS CONTROL FOR LED., TO VARY ILLUMINATION OF FIELD STOP BOUNDARY &
SIMPLE RTC.S (2)/RTC. TO SEND DATE & TIME OVER SERIAL COMMUNICATION LINE
COMPARATOR CCT TO DISCRIMINATE AGAINST RANDOM NOISE/COUNTER-MICROCOMPUTER INTERFACE FOR C
SIMPLIFIED BEAM AIMER FOR CDE CD-44 ROTATOR (2)/IMPROVED AUTOMATIC BEAM AIMER (2)/CCT TO ELIMINAT
SIMULATOR OF NEURONAL SPIKE TRAINS, THAT PRODUCES SIMULATED MUSCLE NERVE SIGNAL BY SUMMING T
SIMPLE BATTERY-OPERATED SKIN RESISTANCE DETECTOR (LIE DETECTOR OR "POLYGRAPH") USING BAR DRIVE
SIMPLE 8W SPEAKER AMP. TO BOOST HAND-HELD TRANSCEIVER'S AUDIO OUTPUT , USING HIGH-PERFORMANCE
TEMPERATURE GRADIOMETER USING 2 NTC. BEAD THERMISTOR BRIDGES & DIFFERENCE AMP. USING QUAD OA
SIMPLE CCT TO PROTECT STEREO SPEAKERS FROM HARMFUL DC. VOLTAGE IF AMP. OUTPUT STAGE SHORTS (P
SIMPLE OA. CCT TO CONVERT PHOTOCURRENT OF PHOTODIODE MEASURING TRANSMITTANCE OF SOLUTION A
TEMPERATURE CONTROL CCT FOR 1000 C DIFFUSION FURNACES ON WAFER-FABRICATION LINE, USING OA. THA
TEMPERATURE CONTROLLER INCLUDING 1MA CONSTANT-CURRENT SOURCE (FOR TEMPERATURE-SENSING DIC
SIMPLE 12V BATTERY CHARGER/CURRENT LIMITED 6V CHARGER USING RESISTOR TO SET PEAK CURRENT/AC. V
COMPARATOR CCT USING 2 OA.S, TO COMPARE VOLTAGES DERIVED FROM RESISTIVE VOLTAGE-DIVIDER NETW
RAM.-INTERVAL TIMER (I.T.) DESIGNED AS COMPUTER PERIPHERAL, INCLUDING COUNTER-LATCH, PRIORITY ENC
TEMPERATURE CONTROL ELECTRONICS FOR TEMPERATURE REGULATION OF COLD SIEVES ACCOMPLISHED BY
SIMPLE VOICE-ACTIVATED SWITCH TO TURN TAPE RECORDER ON & OFF IN RESPONSE TO VOICE (AUTO-VOX)
MEMORY SUBSYSTEM CONSISTING OF DRIVERS, DYNAMIC-MEMORY CONTROL, REFRESH & ERROR-DETECTION
TIME-ON RECORDER THAT TELLS AT A GLANCE HOW LONG AN APPLIANCE OR TV. RECEIVER HAS BEEN OPERAT
IMMERSION HEATER CONTROL USING TEMPERATURE-SENSOR CONTROL IC, SCR. & HEATING ELEMENT MADE O
SIMPLIFIED VERSION OF AUTOMATIC ANTENNA TUNER USING COMPARATORS, THAT SAVES 1 TRANSISTOR (M09

ATMOSPHERIC-NOISE MONITOR TO MONITOR LEVEL OF SFERIC (ATMOSPHERIC) (EM. RADIATION) (LIGHTNING) A
SIMPLE STABILIZED DC. SOURCE (PS.) TO PROVIDE ~1.56V STABLE TO 0.01% & >100HR OF OPERATION WHEN PO
REMOTE DATA-ENTRY TERMINAL USING SERIAL KEYBOARD-INTERFACE CCT/TRANSMISSION-LINE DRIVERS ABLE
TEMPERATURE SETPOINT INDICATOR/LIQUID LEVEL SENSOR/IR. TRANSMITTER & DETECTOR (2)/ULTRASONIC TR
SIMPLE LED. TRANSMITTER FOR USE AS OPTICAL-FIBER CONTINUITY TESTER WHEN USED WITH RECEIVER/OP
SIMPLE CCT THAT CANCELS DC. CARRIER & SUPPRESSES VLF. NOISE OF SIGNAL FROM MICROWAVE CRYSTAL D
49MHZ FM. TRANSMITTER CONSISTING OF AUDIO AMP., LPF., COLPITTS VCXO (VOLTAGE-CONTROLLED CRYSTAL
SIMPLE SMALL SPEAKER (AUDIO) AMP. WITH AGC., USING HIGH-GAIN IC, JFET. & COUPLE OF DIODES, CONSTITU
SIMPLE VOLTMETER/APPLICATION CCT FOR NATIONAL SEMICONDUCTOR VFC. THAT OUTPUTS PULSE TRAIN WIT
SIMPLE TACHOMETER CCT FOR USE WITH HAND-HELD DVM. OR PORTABLE CHART-RECORDER, USING 10-TURN
CAMAC INTERFACE & CONTROL CCT, THAT DECODES (RE-ENCODS) CAMAC FUNCTIONS WITH SCHEME USING P
PWM. MODULATOR INCLUDING RAMP GENERATOR & OPTICAL DRIVE/PWM. RECEIVER & DEMODULATOR, INCLUD
SIMPLE LOCK OUT CCT USING GATE PULSE PROPOGATION DELAY, FOR SYSTEM HAVING 1 CENTRAL LOGIC SYS
COMMUNICATION UNIT INCLUDING TRANSMITTER & RECEIVER UNITS (BBB)/SWITCHING PRE-REGULATOR/POST P
PWM. CONTROLLER FOR DC. LOADS, USING PULSE TRANSFORMER TO ISOLATE CONTROL LOGIC & SIGNAL PRO
SIMPLE PULSED CURRENT SOURCE TO DRIVE SEVERAL IR. EMITTING LED.S IN SERIES, WITH EXCELLENT LINE R
SIMPLIFIED VOLTAGE-SOURCED THERMISTOR NETWORK & TEMPERATURE COMPENSATED LOGGING AMP. (ITIM
TEMPERATURE CONTROLLER USING CURRENT SOURCE IC AS TEMPERATURE SENSING ELEMENT
SIMPLE TEMPERATURE COMPENSATION CCT FOR LASER SYSTEMS INCORPORATING KD2XH2(1-X)PO4 CRYSTAL
SIMPLE CURRENT-COLLECTOR HEAD-AMP.
SIMPLE BEGINNER'S UNIVERSAL REGULATED PS. DELIVERING 2 TO 18V AT 0.7A
COMMERCIAL KILLER FOR COMMERCIAL INTERRUPTIONS ON FM., TO BE PLACED IN RECEIVER'S TAPE MONITOR
SIMPLE LIQUID NITROGEN (LN2) FILL CONTROLLER
HOMOMORPHIC SPEECH COMPRESSOR
SIMPLE, INEXPENSIVE CCT TO MEASURE PHASE ANGLE (PHASE DIFFERENCE) BETWEEN 2 WAVES, WITH LEAD-L
GAME FEEDER CONTROLLER TO TURN ON FEEDER TWICE A DAY, USING LDR., SCHMITT TRIGGER, TIMER & WIND
RAMP CONTROL FIRING CCT FOR USE WITH FULLY CONTROLLED, LINE-COMMUTATED THYRISTOR BRIDGE CCTS
SIMPLE OSCILLATOR FORMED WITH 2 CMOS. NAND GATES, WHICH, WHEN STYLUS (PROBE) IS PLACED ON KEYB
TEMPERATURE CONTROL UNIT USING Peltier ELEMENT & THERMISTOR/BLUE LED. PULSER WHOSE REETITION
SIMPLE ADJUSTABLE PS. WITH CURRENT & THERMAL OVERLOAD PROTECTION, & OUTPUT OF 1.25-37VDC., USIN
COMPUTER CONTROLLED CLASS-E AMP./CROWBAR FIRING CCT/MOSFET. GATE DRIVING CCT/RELAY CONTROL C
SIMULATOR CCT TO PROTECT COSTLY (EXPENSIVE) LASER DIODES AGAINST BURNOUT WHEN SETTING UP LASE
TEMPERATURE CONTROLLER USING VOLTAGE REGULATOR & POWER DARLINGTON, FOR REGULATION OF PREF
SIMPLE TUNING INDICATOR FOR MODEM, TO PROVIDE VISUAL INDICATION OF PROPER TUNING WHEN RECEIVING
SIMPLE INTERFACE FOR TRANSIENT RECORDER TO DEC PDP-11 COMPUTER, WITH RECORDER DATA SENT TO C
VUM (VU METER) (AUDIO DB METER) CONSISTING OF AUDIO AMP. WITH CALIBRATED STEP ATTENUATOR ON INP
COMBINATIONAL THERMAL NOISE & SHOT-NOISE SOURCE, USING NOISE DIODE/SOLID-STATE LOW NOISE CASCO
TEMPERATURE CONTROLLER THAT PROVIDES DEFROST CYCLE, THAT WORKS OVER RANGE OF -50 TO +150DEG
SIMPLE \$15-20 12HR RUNNING-TIME METER USING CLOCK, INCLUDING VOLTAGE SENSING CCT, BRIDGE, TRANSI
MEMORY (RAM.) STANDBY SUPPLY IN DIGITAL STORAGE DISPLAY OF SPECTRUM ANALYZER, WITH BUILT-IN DISC
SIMPLE DUAL OA. ABSOLUTE-VALUE CCT THAT ALWAYS REPRESENTS ABSOLUTE VALUE OF INPUT VOLTAGE BY
SIMPLE TEMPERATURE CONTROLLER WHOSE OUTPUT IS APPLIED TO SSR. THAT SWITCHES CURRENT TO HEAT
SIMPLE DIGITAL RECORDING SYSTEM USING PROCESSOR THAT CONTAINS CVSDM. CODEC & 10-BIT DAC., INCLU
10M SIDEBAND AMP. THAT GENERATES BETWEEN 5 & 10W PEP WITH INPUT OF 0.75W & ~1.25W RESPECTIVELY, U
SIMPLE TESTER USED FOR RESISTANCE CHECKS OF COMPONENTS, WHERE FREQUENT CHANGES ARE NOT EN
75M NET-MONITOR RECEIVER WITH MOSFET. IF. STAGE/RECEIVER USING 9MHZ IF./AUDIO AMP. WITH AGC.
COMMUNICATION CCT INCLUDING SERIAL-COMMUNICATION CONTROLLER CHIP (SCC) & TRANSCEIVER/CCT USIN
SIMPLER ADJUSTABLE TTL.-COMPATIBLE WINDOW DETECTOR USING COMPARATORS (ELEN8301)/VARIANT OF S
GAME FOR DEVELOPING HAND COORDINATION, USING LOW-COST FREQUENCY-TO-VOLTAGE CONVERTER IC, MI

SIMPLE POCKET-SIZED CONTROL DECODER THAT WORKS WITH SINGLE DTMF. AUDIO TONE, USING PLL. TONE D
SIMPLE REED-RELAY TESTER CONSISTING OF QUAD COMPARATOR IC & VOLTAGE DIVIDER, TO TEST COIL & COM
SIMPLE RECEIVER ACCESSORY CONSISTING OF INTEGRATING SQUELCH CCT WITH WHICH YOU CAN EASILY CAT
TEMPERATURE CONTROLLER USING EXCITATION DRIVE, WHEATSTONE BRIDGE, IA., PROPORTIONAL-INTEGRAL
SIMPLE CONSTANT-TEMPERATURE HOT-WIRE ANEMOMETER CCT BY KREIDER, USING OA. WITH GAIN-BW. PROD
10MHZ OVEN-CONTROLLED CRYSTAL MASTER OSCILLATOR OF UNIVERSAL COUNTER, USING TTL. QUAD 2-INPUT
SIMPLE RESISTANCE BRIDGE-VOLTAGE COMPOSITOR DRIVEN RELAY CCT INCLUDING TEMPERATURE CONTROL
SIMPLE CCT FOR SMALL +12.5V VOLTAGE REGULATOR TO KEEP VOLTAGE FROM SOLAR PANEL DOWN TO SAFE
TEMPERATURE CONTROLLER INCLUDING ZERO CROSSING DETECT SECTION, HEATER DRIVER, LED. DRIVER, 10
SIMPLE CCT TO GIVE CONSTANT-CURRENT CHARGE OF ~0.5A FOR U2-SIZE BATTERIES, ADJUSTABLE TO ANY CU
SIMPLE CCT TO INTERFACE OPTICAL SENSOR (CONSISTING OF LED. VISIBLE LIGHT EMITTER & PHOTODETECTOR
PCM. PORTION OF MICROWAVE TRANSMITTER/PCM. PORTION OF MICROWAVE RECEIVER
SIMPLE & EASY-TO-ADJUST WAVEFORM SHAPER CCT, USING DIODES TO DETERMINE BREAKPOINTS ON CURVE
COMMUNICATOR FOR MOTORCYCLE ENTHUSIASTS, CONSISTING OF BATTERY-OPERATED PORTABLE ELECTRON
TIMING CCT USING OA. AS FREE-RUNNING MULTIVIBRATOR, & 14-STAGE RIPPLE-CARRY BINARY COUNTER, TO T
SIMPLE BANDPASS FILTER WHOSE CENTRE FREQUENCY CAN BE SELECTED UNDER UP. CONTROL, USING 4-CHA
20MA LOOP PLOTTER INTERFACE TO LINK ANALOGUE X-Y RECORDER TO SERIAL COMPUTER TERMINAL, USING
COMMODORE VIC-20 COMPUTER USER PORT INTERFACE THAT CONVERTS NOISY LOW-LEVEL VOLTAGES TO CL
COMMUNICATIONS SERVICE MONITOR INCLUDING FREQUENCY ERROR & DEVIATION METERS, FOR RADIO SYST
SIMPLE AMP. USING PROGRAMMABLE OA. WITH GAIN OF 40DB, HIGH DIFFERENTIAL INPUT RESISTANCE OF 7.5M
SIMPLE PHOTOMULTIPLIER PROTECTION DEVICE TO PROTECT SIDE WINDOW PMT.S AGAINST DAMAGE FROM AC
SIMPLE AUDIO AMP. TO DRIVE A SPEAKER FROM OUTPUT OF A CW. FILTER
REMOTE SENSE CCT TO COMPENSATE FOR VOLTAGE DROPS IN CONNECTION LINES BETWEEN SWITCHING REG
SIMPLE PLL. DETECTOR FOR CW., TO REPLACE PEAK DETECTOR IN ATARI CW. INTERFACE, & USABLE TO KEY CO
TIME PICK-OFF CCT FOR USE WITH LARGE HPGE DETECTORS, USING 2 DISCRIMINATORS TO EXTRAPOLATE TIME
TIMER CCT USING PROGRAMMABLE OSCILLATOR-DIVIDER TO PROVIDE TIMING FUNCTION TO LOW-COST CALCU
SIMPLE & VERSATILE VOLTMETER WITH BARGRAPH READOUT, TO AVOID FLAT BATTERIES & GIVE FAULT WARNIN
TEMPERATURE CONTROL CCT USING THERMOCOUPLE & THERMOSTATIC CONTROLLER, POWERED BY AUTOMO
SIMPLE 2M FM. DEVIATION METER
SIMPLE +-10MA CURRENT SOURCE WITH NEGLIGIBLE CROSSOVER DISTORTION BELOW 20HZ/CURRENT SOURCE
COMPARATOR-BASED TIMER-CONTROLLER TO CONTROL COOLING FAN IN REPEATER, OR OTHER DEVICE, USING
TIME TEMPERATURE FUNCTION INTEGRATOR TO PREDICT DEGREE OF BACTERIAL SPOILAGE IN CHILLED FOODS
TIME-OUT CCT THAT FUNCTIONS AS DUAL-FREQUENCY OSCILLATOR, USING TIMER/2-DOOR ANNUNCIATOR THAT
SIMPLE CCT FOR PULSE COUNTING, ALLOWING COMMERCIAL PACKAGE TO BE EXTENDED TO INCORPORATE FO
COMPUTER-DRIVEN PUMP CONTROLLER CAPABLE OF PROVIDING VOLTAGE, CURRENT & PULSED OUTPUTS FOR
COMMAND & CONTROL LOGIC FOR AUDIO-DRIVEN COMMAND & CONTROL MODULE THAT CONVERTS 2 RIGS INTO
SIMPLE CCT THAT ENABLES TESTING DUAL POTS FOR SECTION-TO-SECTION MATCHING
TEMPERATURE STABILIZED GREEN LED. CALIBRATOR, USING PULSES TO FIRE MONOSTABLE TO PRODUCE FIXE
SIMPLE CCT TO MEASURE CUMULATIVE PROBABILITY OF INPUT NOISE-VOLTAGE EXCURSIONS EXCEEDING THRI
SIMPLE LOW COST VERSATILE AUDIO GENERATOR WITH SINE WAVE OUTPUT OF UP TO 6V PEAK TO PEAK & FRE
SIMPLE CCT FOR HIGH SPEED ADC. OF CASCADE-ENCODER TYPE, BASED ON FAST OA., COMPARATOR & CMOS.
S-METER FOR HEATHKIT HW-8 QRP RADIO/AUDIO AMP. FOR HEATHKIT HW-8 QRP RADIO, USING 2W AUDIO CHIP,
TEMPERATURE INTERFACE USING TEMPERATURE SENSOR & OA., INCLUDING RESISTORS TO SET OFFSET VOLT
10MHZ 2ND-ORDER SIGMA DELTA DIGITIZER (CONVERTER) CONSISTING OF 2 INTEGRATORS, INCLUDING ADC. (M
RAMP GENERATOR INCLUDING POWER AMP., PROVIDING SAWTOOTH WAVEFORM WITH VOLTAGE SWINGS UP TO
COMBINATION SYNC STRIPPER & UNIVERAL VIDEO INTERFACE, USING SYNC SEPARATOR CHIP THAT EXTRACTS
SIMPLE GENERAL PURPOSE AUDIO AMP. THAT PROVIDES ~500MW OF AUDIO, USING AUDIO AMP. CHIP, INCLUDING
SUMMER-AMP.
COMMON RESISTANCE-MEASUREMENT CCT, IN WHICH SHUNT RESISTANCE AFFECTS MEASUREMENT

NUMERICAL ELABORATION SECTION BASED ON PROCESSOR WITH 48 MEMORY REGISTERS ON 3 RAM.S/INTEGR. SIMPLE 40KHZ TRANSMITTER/RECEIVER PORTION OF SIGNAL, USING TONE DECODER/CCT USING SINGLE IC FOR TIMED 2-VOLTAGE START & RUN POWER SOURCE FOR STARTING SMALL DC. MOTORS OR SOLENOIDS, IN WHICH SAMPLE CALIBRATION CCT FOR DLTS. SPECTROMETER, USING VOLTAGE REGULATOR, TO DETERMINE DEFECT TEMPERATURE CONTROLLER/CCT WITH OUTPUT OF 10MV-DEGREE C/THERMOMETER USING 0-1MA METER/TEMPERATURE TIMER CONTROL UNIT THAT OPERATES AS TIMER TO MEASURE TIME TAKEN TO ACHIEVE PRESET DOSE ON DOS TEMPERATURE CONTROL CCT WITH THERMOCOUPLE PROBE INPUT, TO REGULATE STEADY-STATE NERVE OR C SIMPLE DATA RECEIVER FOR OPTICAL-FIBRE COMMUNICATIONS, USING MOTOROLA INTEGRATED DETECTOR PROM. EMULATOR WITH BUILT-IN BATTERY BACKUP, WHOSE ADDRESS SPACE CAN BE SWITCHED BETWEEN 2 BL COMPENSATED BAR GRAPH PRESSURE-SENSOR EVALUATION BOARD (EVB) TO TRANSLATE PRESSURE INTO RA SIMPLE, RELIABLE, MICRODENSITOMETER TO DIGITALLY DISPLAY OUTPUT OF PHOTOTRANSISTOR DETECTOR MEMORY CARD INCLUDING SRAM.S & EPROM.S USED AS LOOK-UP TABLES, & DECODING & BLOCK SELECTION C SIMPLE MUX., USING GATES, TO ENABLE UP TO 4 DIGITAL SIGNALS TO BE DISPLAYED SIMULTANEOUSLY USING SIMPLE, LOW-RESOLUTION ADC. (3-BIT OUTPUT)

PWM. SMPS.S WITH 5V OUTPUT, USING & BUCK-REGULATOR IC'S/SMPS. USING BOOST REGULATOR/SMPS.S WITH SIMPLE IR. PEOPLE DETECTOR USING DUAL PYROELECTRIC IR. SENSOR, QUAD OA. & FRESNEL LENS, FOR USE CAMERA (SENSOR) ELECTRONICS OF LOW-RESOLUTION (~30X30 PIXELS) VISION SENSOR, USING DYNAMIC 1024 SIMPLE-TO-BUILD PS. FOR OPERATING 5V IC PROJECTS

SIMPLE PAY-TV. DECODER (UNSCRAMBLER) USING PLL. FM. STEREO DEMODULATOR, TV. VIDEO MODULATOR, O SIMPLE TIME-BASE GENERATOR FOR INTERRUPT-DRIVEN RTC./RTC. THAT CAN BE SYNCHRONOUSLY CONTROLLED SIMPLE DIODE VOLTMETER TO MEASURE RF. POWER/VSWR. BRIDGE CCT TO MEASURE FORWARD & REVERSE P SIMPLE GUNN DOPPLER "RADAR" MOTION DETECTOR USING DETECTOR DIODE, WHOSE AUDIO TONE EQUALS ~1 SIMPLE, LOW-COST MINIATURE 20M HF. SUPERHET RECEIVER WITH SHARP SELECTIVITY

COMPARATOR-OUTPUT INDICATOR USING INDICATOR LIGHT (LED.) TO TELL OUTPUT STATE/INTEGRATOR USING HOME-SECURITY SYSTEM/PANIC & FIRE ALARM CCT/AUTO TURN-OFF ALARM CCT/SELF-LATCHING ALARM CCT SIMPLE \$5 RS232-TO-20MA CONVERTER TO INTERFACE RS-232 DATA POTPUT PORT TO 20MA CURRENT-LOOP P SIMPLE SUMMING THERMOSTAT FOR BOILER, USING PN JUNCTION OF TRANSISTORS AS SENSORS

SIMPLE CURRENT-LIMITING CCT FOR FIELD EMISSION CATHODE

SIMPLE ROCKET LAUNCHER USING 2 SCR.S & RELAY/AUTOMATIC CUTOFF (SHUTOFF), ELECTRONIC SWITCH USING COMPLEMENTARY PUSH-PULL AMP. TO DRIVE SPEAKER, CASCADED BETWEEN HEATHKIT HW-8 RECEIVER'S (RIG SIMPLE 2MA CURRENT SOURCE-SINK CCT TO REPLACE RESISTORS, TO IMPROVE CMR. OF HIGH-POWER PS. RE SIMPLE BATTERY BACKUP CCT THAT CAN BE USED TO POWER CONTROL CCT FOR ALARM SYSTEM IF & WHEN P SIMPLE GADGET THAT ENABLES MEASUREMENT RF. POWER DISSIPATED IN 50OHM DUMMY LOAD WITHIN A FEW SIMPLE BATTERY (VOLTAGE & CURRENT) MONITOR TO INDICATE LOAD & CHARGING CURRENT, & BATTERY VOLT SIMPLE LOW-TEMPERATURE HIGH INPUT IMPEDANCE (~5X10^4OHM AT 5MHZ) SOURCE FOLLOWER MOSFET. AMP LAMP EXCITER (100MHZ, 5W COLPITT'S OSCILLATOR) THAT PROVIDES STABLE RF. INPUT TO 87RB LAMP

SIMPLE AUDIO INTERFACE WHICH, WHEN USED WITH PROGRAM, ALLOWS IBM PC. TO COPY CW. FROM SPEAKER L METER THAT PROVIDES UNKNOWN INDUCTANCE WITH SELECTABLE TUNING CAPACITOR & NEGATIVE RESISTA SIMPLE, PENNY-SIZED NICD. BATTERY CHARGER USING LED.S THAT INDICATE IF BATTERY IS CHARGING & INDIC RAMP GENERATOR THAT PRODUCES MULTICYCLE BURSTS OF SAWTOOTH WAVEFORM FOR EACH INPUT TRIGG COMBINATION RF.-AUDIO PROBE

SIMPLE 1-STAGE AUDIO AMP.

SIMPLE 2-TRANSISTOR AUDIO OSCILLATOR WITH ENOUGH VOLUME TO DRIVE SMALL 4 TO 80HM LOUDSPEAKER

SIMPLE AUDIO-STAGE NOISE BLANKER

SIMPLE UJT. OSCILLATOR WITH TUNED CCT IN ITS CURRENT-PULSE PATH, THAT CREATES RELATIVELY UNDISTO SIMPLE ELECTRONIC DEVICE TO USE AS ELECTRONIC COIN TOSS GAME TO DEMONSTRATE LAWS OF PROBABIL REMOTE-CONTROL (COMMUNICATION) CCT/IR. REMOTE-CONTROL TRANSMITTER/40KHZ CARRIER MODULATION SIMPLE SWEEP GENERATOR & VCO./CCT SHOWING CONNECTION TO OSCILLOSCOPE

SIMPLE, 2-RELAY CCT THAT CAN BE WIRED TO MICROCOMPUTER'S CASSETTE INTERFACE, & BE DEACTIVATED B

SIMPLE CCT TO DISTINGUISH GERMANIUM DIODE FROM SILICON DIODE, IN WHICH VOLTAGE DROP OF ~200MV W
SIMPLE 1000HZ AUDIO OSCILLATOR USING 1 PNP TRANSISTOR & 1 NPN TRANSISTOR, FOR USE AS CODE PRACT
SIMPLE ELECTRONIC ELECTROSCOPE USING N-FET. TRANSISTOR & LED. THAT GLOWS UNLESS CHARGED COME
SIMPLE AUDIO AMP.
COMMON-EMITTER (CE) AMP. USING BJT. (NPN TRANSISTOR)/COMMON-GATE AMP. USING N-CHANNEL JFET.
SIMPLE TRANSISTOR AMP. THAT WILL OPERATE USING +5V AVAILABLE FROM C-64 COMPUTER'S USER PORT, WI
20MHZ, 50MHZ & 100MHZ HARMONIC EMITTER COUPLED OSCILLATORS WITH VERY GOOD FREQUENCY STABILIT
10MHZ DIGITAL LOGIC TEST PROBE THAT TESTS VIRTUALLY ANY DIGITAL LOGIC FAMILY
SIMPLE PLL. VHF.-TO-HF. DOWNCONVERTER
SIMPLE DIODE DETECTOR USING 50UA METER AS DETECTOR/RESONANCE DETECTOR FOR FINDING RESONANC
SIMPLE BUT EFFECTIVE SWR. CCT FOR USE WITH MULTIBAND T TUNER
SIMPLE AMP. FOR USE BETWEEN NATIONAL NCL-2000 AMP. & DRAKE T-4XC, TO MAKE THEM COMPATIBLE & PREY
COMMODORE AMIGA 1000 INTERFACE TO CONVERT RS-232 SIGNAL LEVELS FROM SERIAL INTERFACE PORT TO
SIMPLE CCT TO SIMULATE CENTRONICS-INTERFACE PRINTER, TO ALLOW PORT TO BE TESTED WITH LOGIC PRO
30M QRP TRANSMITTER INCLUDING CRYSTAL OSCILLATOR (VXO), PA (AMP.), 2 OUTPUT FILTERS & DC. SWITCH F
SIMPLE SELF-STARTING CCT TO GENERATE RANDOM PULSES, USING REVERSE-BIASED SMALL-SIGNAL NPN TRA
SIMPLE MOD. PIERCE (UNIVERSAL CRYSTAL) OSCILLATOR THAT WORKS WITH LF. & HF. CRYSTALS FROM 25K TO
DUMMY LOAD-WATTMETER-RF. BRIDGE, INCLUDING 8-TO-10W 52OHM DUMMY LOAD WITH CALIBRATED WATTME
SIMPLE LF. CONVERTER UP-CONVERTER TO UP-CONVERT 100 TO 300KHZ (IN 1750M BAND) BY TUNING MAIN REC
SIMPLE ION DETECTOR TO INDICATE RELATIVE AMOUNT OF FREE IONS IN AIR, CONSISTING OF 3 TRANSISTORS,
COMMON-EMITTER QSK KEYING CCT THAT USES TRANSCEIVER TRANSMIT-CONTROL LINE TO KEY EXTERNAL AM
SIMPLE DC. SWITCHING CCT WITH KEYING INPUT
10MHZ CRYSTAL OSCILLATOR
SIMPLE EMITTER FOLLOWER TO ALLOW RF. MODULATOR TO DRIVE COLOR MONITORS WITH NTSC. ANALOG INP
SIMPLE GROUNDED-GATE JFET. PREAMP. WITH 20DB OF GAIN, TO BOOST LOW-BAND SIGNALS FROM LOOP ANTE
SIMPLE YET EFFECTIVE TELEPHONE-LINE TESTER THAT CHECKS OPERATING PARAMETERS OF TELEPHONE CO
SIMPLE ANALOG SELF-ACTIVATING SIREN FOR INTRUDER ALARM
SIMPLE KEYING INVERTER CCT
SIMPLE TRANSISTORISED 1ST LIMITER CCT, USING EMITTER FOLLOWER TO CUT NOISE LEVEL/2ND LIMITER CCT
RAMP VOLTAGE GENERATING CCT/CCT FOR DIRECT READOUT OF DV-DT VALUE/VOLTAGE-CONTROLLED RAMP F
SIMPLE & CHEAP (~\$2) AUTOMATIC HOLD MODULE THAT CONNECTS ACROSS TELEPHONE LINE, TO PUT CALL ON
BIMODE OSCILLATOR USING JFET.-COMBINATION "DIODE" & 2 LC. TANK CCTS, THAT CAN OSCILLATE AT AF. & RF
SIMPLE INEXPENSIVE HV. RECTANGULAR PULSE GENERATOR USING KRYTRON, CONSISTING OF MEDIUM-VOLTA
SIMPLE, INEXPENSIVE PROPORTIONAL WATER-BATH TEMPERATURE CONTROLLER
SIMPLE TTL. TEST PANEL FOR SIMPLE GO-NO-GO TESTS ON SURPLUS TTL. IC'S OF 7400 SERIES IN DIP. PACKAG
SIMPLE HIGH-IMPEDANCE LOGIC PROBE, THAT WILL NOT LOAD DOWN CCT UNDER TEST & USES POWER FROM T
SIMPLE 1-SHOT MULTIVIBRATOR CCT FOR PS. OF 2.4V
SIMPLE TRANSISTOR TTL.-TO-RS232 INTERFACE
SIMPLE 120VAC. FLASHER CCT
SIMPLE AUDIO GATE FOR NOISE REDUCTION
SIMPLE PERCUSSION NOISE GATE TO GIVE EXCELLENT NOISE GATING ON PERCUSSIVE SOUNDS WHEN FITTED
SIMPLE RF. FIELD MONITOR (CRYSTAL RECEIVER) FOR USE AT 72.670MHZ (CHANNEL 44), TO DETERMINE IF FRE
SIMPLE CCT TO TAKE SIGNALS FROM COMMODORE PET 2001 COMPUTER & GIVE COMPOSITE-VIDEO SIGNAL FO
SIMPLE, CHEAP & ACCURATE LONG TERM TIMER MADE WITH ONLY 2 CONNECTIONS TO DIGITAL WATCH CHIP, US
SIMPLE INTERFACE TO ADD COMMODORE 64 COMPUTER CONTROL TO RADIO-SHACK MOBILE ARMATRON, THAT
SIMPLE HIGH RESOLUTION CHARGE SENSITIVE CRYOGENIC PREAMP. USING DRAIN FEEDBACK FOR CHARGE RE
DUMMY LOAD FOR PS.S, USING SERIES PASS TRANSISTOR AS VARIABLE RESISTOR CAPABLE OF HANDLING UP
REMOTE-BASE CONTROL INTERFACE, CONNECTING SPEAKER OUTPUTS OF UNIT THROUGH LIMITING & PRE-EMP
SIMPLE FM. TRANSMITTER THAT CAN BE TUNED TO FM. BC. BAND, 2M OR OTHER VHF. BANDS, WITH RANGE OF S

SIMPLE RF. PROBE TO ALLOW VTVM TO MEASURE PEAK VOLTAGE UP TO 200MHZ & 30V, USING DIODE
SIMPLE OSCILLATOR CCTS USING NPN TRANSISTOR (2)
SIMPLE BUT EFFECTIVE DC.-POWER-LINE FILTER FOR POSITIVE SUPPLIES, USING INDUCTOR, CAPACITOR & TR
SIMPLE SWR. INDICATOR & TRANSMATCH (RESONANT ANTENNA TUNING UNIT), SUITABLE FOR QRP & QRO
COMMODORE 64 COMPUTER VOLTAGE PROTECTOR USING SCR. IN CROWBAR CCT, TO PROTECT COMPUTER FR
SIMPLE MONITORING CCT (DEMODULATOR) THAT DEMODULATES HF. (RF.) OUTPUT OF ELECTROSURGICAL GEN
COMPONENT CURVE TRACER TO CHECK (TEST) VOLTAGE VERSUS CURRENT CHARACTERISTIC OF COMPONENT
TIME-LAPSE PROGRAMME UNIT FOR PHOTOGRAPHY OF GERMINATION & EMBRYO EMERGENCE IN WHEAT, USIN
SIMPLE REMOTE PTL (PUSH-TO-LOOK) MOD. FOR P.C. ELECTRONICS TC70-1 ATV. TRANSCEIVER, TO KEY UP UNIT
SYMMETRICAL POWER AMP. IN WHICH CROSS-OVER VOLTAGE IS CONTROLLED BY EMITTER-BASE TURN ON OF
SIMPLE RECTANGULAR GATE PULSE GENERATOR (MONOSTABLE CCT) TO GATE MCA., USING ULTRA FAST SWIT
SIMPLE DISCHARGE CCT USING SCR. & PULSE TRANSFORMER (DELCO D523 AUTOMOBILE IGNITION COIL), FOR U
SIMULATOR OF MS. "AEI-MS 9"
TEMPERATURE RESILIENT POWER TRANSISTOR MODULE USING NMOS. DEVICES (MOSFET.S), PROVIDING LOW C
SIMPLE FM. TRANSMITTER INCLUDING OSCILLATOR THAT IS VOLTAGE-CONTROLLED, MODULATED BY AUDIO VO
LUMA-CHROMA PROCESSOR OF PANASONIC MODEL CT-3031 13IN COLOR TV. RECEIVER
24MHZ RECEIVING CONVERTER FOR WARC. BAND
SIMPLE, CHEAP (\$5) SWR. BRIDGE TO MEASURE ANTENNA SWR. FROM 7 TO 435MHZ, USING STRIPLINE-TYPE DIR
SIMPLE, INEXPENSIVE CW. AMP. TO PROVIDE ~20W OF OUTPUT POWER ON 80M OR 40M, USING 3 VMOS. POWER
SIMPLE DROPOUT DETECTOR INTERFACE FOR TO TEST VCR. TAPES WITHOUT HAVING TO LISTEN TO THEM, FOR
SIMPLE <\$90 SSR. TEMPERATURE CONTROLLER USING MINIATURE MERCURY CONTACT SWITCH (CONTACT "THE
30M SOLID-STATE QRP TRANSMITTER-EXCITER/SIMPLE 30M CONVERTER
SIMPLE 2-TRANSISTOR 30M TRANSMITTER
SIMPLE ELECTRIC CCT FOR UNI-FREQUENCY SPARK TIMER USING AUTOMOTIVE SPARK COIL & SCR. TO PRODUC
DEMODULATOR (DEMODULATING) PROBE USING SERIES DETECTOR TO OBSERVE AM. RF. SIGNAL/PROBE USING
SIMPLE DIGITAL INTERFACE FOR RELAY CONTROL OF EXTERNAL LOADS, USING DIGITAL-OUTPUT PORT, CONSIS
SIMPLE TRANSISTOR LEVEL-SHIFTING CCT TO PERFORM SWITCHING IN MACHINE CONTROL SYSTEM THAT CON
SIMPLE SWR. BRIDGE OF HF. ANTENNA TUNER (INCLUDING BALUN) FOR 100W OUTPUT LEVEL, USING TRIMMER C
SIMPLE, LOW-COST EXPANDED SCALE VOLTMETER THAT CAN BE USED AS FIXED 'BATTERY CONDITION' METER
SIMPLE FAX CONVERTER TO USE APPLE II VIDEO SCREEN TO DISPLAY REAL-TIME RADIO-FACSIMILE WEATHER M
COMPLETE SOUND-EFFECTS GENERATOR/ORGAN CCT/TYPICAL AUDIO AMP./SIREN CCT
COMMON-GATE JFET. STAGE THAT PROVIDES IF. GAIN IN 6- & 2M MODULES OF YAESU FT-726R RADIO, WITH ADD
SIMPLE, INEXPENSIVE, COMPACT BATTERY-POWERED DIPPER AMP. (DIP-OSCILLATOR AMP.) TO DRIVE IMPEDAN
SIMPLE FET. SQUARE-WAVE MODULATOR TO SIMULATE SQUARE-WAVE OSCILLATORY FLOW, CONNECTED TO FI
SIMPLE CCT THAT ALLOWS RED TYPE T-1 LED. TO CONTROL POWER RELAY VIA CONTACTS OF LOW-POWER DIP
SIMPLE CCT TO DELIVER 1000V RECTANGULAR PULSE/CCT TO TEST AVALANCHING CHARACTERISTICS OF TRAN
SIMPLE COIN TOSS CCT/FET. TIMER/BOW-TIE BLINKER/BUFFERED LAMP CCT/LIGHT-ACTIVATED RELAY CCT
SIMPLE CRYSTAL SET USING COIL, BC.-RECEIVER TUNING CONDENSER & DIODE, FOR USE WITH HIGH-IMPEDANC
SIMPLE FIELD STRENGTH METER (FSM) TO "SNIFF" WITH HF. HOMER (RADIO DIRECTION FINDING (RDF) LOOP), US
SIMPLE CONTINUITY TESTER IN WHICH FREQUENCY EMITTED DEPENDS PRIMARILY ON RESISTANCE ACROSS PR
SIMPLE PUSH-ON-PUSH-OFF ELECTRONIC SEQUENTIAL SWITCH
TEMPERATURE-DRIFT ELIMINATOR CCT/CCT THAT SWITCHES RAPIDLY/CCT USING VOLTAGE DOUBLER TO PROV
SIMPLE TEST PROBE TO INDICATE AC. OR DC. VOLTAGE & POLARITY OVER 4 TO 220V RANGE, USING CURRENT S
SIMPLE HV. RESONANT TANK CCT, 40KV, 15MA SINE-WAVE, CONSTANT-CURRENT SOURCE SWITCHING PS. WITH
SIMPLE, SMALL MAGNETIC LEVITATION CONTROL SYSTEM USING EM. ATTRACTIVE FORCE, LIGHT SOURCE, PHO
TIMER FOR TOF. MEASUREMENT, THAT WORKS AS TIME BASE THAT MEASURES TIME DURATION FROM START TO
SIMPLE PULSE SHAPER TO IMPROVE SETTLLING PERFORMANCE OF PULSE GENERATOR IN ADC. TEST, USING HY
SIMPLE & INEXPENSIVE 4-TO 3-WIRE TAILLIGHT CONVERSION CCT TO BE USED BETWEEN CAR & TRAILER LIGHTS
REMOTELY CONTROLLED L NETWORK USED WITH HALF-DELTA LOOP

SIMPLE INTERFACE TO CONTROL YAESU FT-757GX COMPUTER-AIDED TRANSCEIVER
SIMPLE ENVELOPE DETECTOR FOR LINEARITY CHECKS & SYNC
SIMPLE SWITCHING CCT FOR FAST PULSING OF GATING GRID, USING PHOTOCOUPERS TO CONTROL HIGH-POV
SIMPLE & INEXPENSIVE DIGITAL AUTOMOBILE BATTERY MONITOR CCT USING 3 COLORED LED.S TO KEEP TRACK
COMMODORE-CAT INTERFACE BETWEEN COMMODORE 64 COMPUTER USER PORT & CAT CONNECTOR ON YAES
SIMPLE NON-LATCHING & LATCHING LIQUID-LEVEL DETECTOR CCTS THAT USE PROBES, TO TRIGGER SCR.-TRIA
RAMSEY HR-4 40M RECEIVER TUNING CCT IN WHICH TUNING IS DONE BY ADJUSTING REACTANCE OF DIODE/HR-
SIMPLE 50OHM DUMMY LOAD TO TEST TRANSMITTER STAGE (MEASURE RF. OUTPUT) OF RAMSEY FX-146 2M FM
SIMPLE INEXPENSIVE CW. FILTER
50MHZ (6M) DSB (DOUBLE SIDEBAND) TRANSMITTER USING ACTIVE BALANCED MODULATOR FED BY CRYSTAL O.
Q METER THAT MEASURES INDUCTANCE & CAPACITANCE, IS EASIER TO DESIGN & NEEDS ONLY FREQUENCY CO
SIMPLE 5-DECADE OSCILLATOR USING 1 CHOPPER-STABILIZED OA.
27MHZ OSCILLATOR THAT CAN BE USED AS LOW-POWER CB. SIGNAL GENERATOR
SIMPLE LINEAR LAMP DIMMER/VMOS. LIGHT DIMMER/PM. LIGHT FLASHER
SIMPLE QRP TR. SWITCH
SIMPLE INEXPENSIVE SWR. BRIDGE TO MAKE TUNING ANTENNA EASIER, USING 2 DIODES & 2 0-50UA METERS
SIMPLE DETECTOR (PROBE) TO PROVIDE INDICATION OF VERY LOW LEVELS OF RF., SUCH AS OUTSIDE OF COAX
SIMPLE TRANSFORMERLESS AC.-OPERATED PS. FOR LOW-POWER CCT (IC) EXPERIMENTING, INCLUDING FULL-V
SIMPLE INTERFACE CCT FOR LAP TIMER-STOPWATCH, TO OPERATE STOP-START FUNCTIONS USING 2 EXTERNA
REMOTELY CONTROLLED IMPEDANCE MATCHING BRIDGE USING POTENTIOMETER TO GET BRIDGE VOLTMETER
SIMPLE REGULATOR CCT USING HIGH-CURRENT REGULATOR & DISCRETE POWER TRANSISTOR
COMPLETE VOLTAGE-IN, VOLTAGE-OUT FIBER-OPTIC LINK/LINK WITH 4-TO-20MA INPUT & CURRENT OUTPUT
SIMPLE CONTROL CCT FOR CW. OPERATION OF TOSHIBA RED-LIGHT (660NM) LASER DIODES MADE FROM INDIU
COMPRESSOR PROTECTOR
COMPUTER-CONTROLLED AC. INTERFACE THAT, WITH BASIC PROGRAM, ALLOWS CONTROL OF LIGHTS & OTHER
SIMPLE 10V DC. (FULL-WAVE) BRIDGE RECTIFIER CCT THAT CAN SUPPLY UP TO 0.5A OF LOAD CURRENT, CT TRA
PWM. ADC. FOR MODERATE-SPEED APPLICATIONS, CONSISTING OF CMOS. 8-BIT MICROCONTROLLER, QUAD CO
80M VFO. FOR THE "SARDINE SENDER"
COMPOSITE AMP. USING 2 OA.S IN SAME LOOP/CCT WITH PHASE COMPENSATION FOR 1-BETA RESPONSE/ANAL
SIMPLE RELIABLE 180MHZ PLL. SYNTHESIZER USING 3 MOTOROLA IC'S & ACTIVE LPF.
SIMPLE BATTERY-POWERED ELECTROMETER BASED ON ELECTROMETER-GRADE MONOLITHIC OA. CONNECTED
COMBINATION SIDETONE MONITOR-CODE-PRACTICE OSCILLATOR-AUDIO GENERATOR
SIMPLE POSITION SENSOR USING PHOTODIODES IN LIGHT INTENSITY DIFFERENCE AMP.
SIMPLE MOSFET. INTERFACE CCT TO TURN DEVICE ON WITH LOW GATE SIGNAL/BOOTSTRAP CCT FOR APPLICAT
SIMPLE & INEXPENSIVE FREQUENCY-INDEPENDENT TRIANGLE-TO-SINEWAVE CONVERTER (WAVE SHAPER) USIN
SIMPLE LIGHT PROBE USING DIFFERENTIAL-PAIR AMP. THAT USES PHOTOTRANSISTORS, USEFUL FOR RELATIVE
SIMPLE LOW-COST AUDIO-DERIVED S METER (INDICATOR) FOR REGENERATIVE OR DIRECT-CONVERSION (DC) R
SIMPLE & INEXPENSIVE VOLTAGE REGULATOR THAT PROVIDES SHORT-CCT PROTECTION & LOW DROPOUT
TEMPERATURE SENSING CCT USING TRIPLE SLOPE INTEGRATING ADC. WITH AUTOZEROING & OA.S
COMPUTER-CONTROLLED VOICE SYNTHESIZER BUILT AROUND SPEECH PROCESSOR IC/5V REGULATED PS.
TEMPERATURE-MEASURING SYSTEM
PWM. MOTOR-CONTROL CCT USED TO MEASURE RELATIVE EFFICIENCY OF BIPOLAR, DARLINGTON & TMOS. (MO
TIME-DELAY RELAY CCT PROVIDING FIXED TIME (8S) DELAY & FAST RELEASE (PROMPT DE-ACTIVATION), USING
REMOTE RF. TRANSMITTER THAT SENDS CODED SIGNAL TO IMPLANTED ACTUATOR IN DOG UP TO 50FT AWAY, U
HOME-MADE, SPEECH ROM.PACK FOR RADIO SHACK TRS-80 COCO (COLOR COMPUTER), USING SPEECH PROCE
SIMPLE DIODE CLAMPED NONLINEAR FILTER/NONLINEAR FILTER WITH IMPROVED SETTLLING TIME, USING OA./NO
SIMPLE INTERFACE OF CLOCK-TIMER CHIP TO NSC800 OR 8088 SYSTEM/WORKSTATION USING 16-BIT CPU., WITH
Q-METER THAT WILL MEASURE INDUCTANCES FROM .5UH TO 50UH & QS TO 200
SIMPLE 2-STAGE AMP. USING FET.S, COOLED TO 78 K LOWER THERMAL NOISE

PCM. FILTER, CUTOFF FREQUENCIES OF WHICH VARY WITH MASTER CLOCK INPUT FREQUENCY
SIMPLE CONVERSION CCT THAT PERMITS USE OF 3-WIRE SYSTEMS ON OLDER TRAILERS WITH 4-WIRE SYSTEMS
TIME CONVERSION UNIT THAT SUBDIVIDES MEASURED TIME INTERVAL INTO 3 PARTS/2-STAGE TIME STRETCHER
COMPOSITE OA. CCT THAT COMBINES LOW OFFSET & DRIFT OF OP-27 OA. WITH HIGH SPEED OF CURRENT-FEEDBACK
10MHZ LOW-PASS BUTTERWORTH FILTER USING HIGH-SPEED CURRENT-FEEDBACK OA./2-POLE BUTTERWORTH
SIMULATOR TO REPRODUCE EXPERIMENTAL DATA, IN REAL-TIME, PREVIOUSLY CAPTURED FROM LABORATORY
COMPENSATION CCT TO CONVERT MILLIVOLT-RANGE SIGNALS OF PRESSURE SENSOR INTO 0 TO 5V RANGE USING
REMOTE CONTROL TRANSMITTER/IR. REMOTE CONTROL SENSOR/PRIMARY PS. WITH VOLTAGE DIVIDER CCT
SIMPLE AUDIO-AMP. CCT THAT USES COUPLING & BYPASS CAPACITORS
SIMPLE 50W CASCODE AMP. USING COMPLEMENTARY POWER FET.S, INCLUDING DARLINGTON PAIR THAT IS TRIPLE
SIMPLE INTERFACE TO RECORD TELEPHONE CALLS AUTOMATICALLY ON CONVENTIONAL CASSETTE RECORDER
SIMPLE CFD. WITH LATCHED TIMING COMPARATOR, WITH IMPROVED TEMPERATURE STABILITY & EXCELLENT TIMING
SIMPLE ACTIVE ANTENNA USING FET./PUSH-PULL VERSION OF SIMPLE ACTIVE ANTENNA/ACTIVE ANTENNA
SIMPLE HALF-STEP MOTOR CONTROLLER TO DRIVE STEPPER MOTOR, USING DIODES TO DEVELOP PROPER FIRMNESS
SIMPLE INPUT DRIVER & FILTER, FOR AUDIO INPUT TO CRYSTAL SEMICONDUCTOR CSZ5126 ADC., USING HIGH Q
SIMPLE LIGHT-MEASURING CCT USING SMALL-AREA SILICON SOLAR CELL AS SENSOR & OA. WITH LOW INPUT BIAS
SAM PRECISION CURRENT SUPPLY FOR LENSES, SPECTROMETER DC. COILS & RAMP COILS, USING KEPCO OA.
SIMPLE VOICE SYNTHESIZER IN MINIMUM CONFIGURATION, USING NEC 1-TIME PROGRAMMABLE SYNTHESIZER,
SIMPLE REGENERATIVE PREAMP. THAT PROVIDES RECEIVER WITH TREMENDOUS GAIN, SENSITIVITY & SELECTIVE
TEMPERATURE COMPENSATED BIPOLAR LOG-RATIO AMP. TO MEASURE CURRENTS OF BOTH POLARITIES, USING
PWM. AMP. & MOSFET. SWITCHER, USING WAVEFORM GENERATOR, HEXFET.S & COMPARATOR/CURRENT-LIMIT
20M VXO-CONTROLLED 6W TRANSMITTER
SIMPLE FSK. INTERFACE TO PERMIT LOADING & STORING PROGRAMS ON CONVENTIONAL CASSETTE TAPE RECORDER
SIMPLE CCT TO CONVERT FSK. AUDIO TONES INTO KEYED VOLTAGE (DATA) AT TTL. LEVELS, USING PLL. DEMODULATOR
SIMPLE WATCHDOG CCT TO TURN ON 60-200W STANDBY LAMP AUTOMATICALLY WHEN MAIN INCANDESCENT LAMP FAILS
40M VERSION OF QRP TRANSMITTER INCLUDING MOD. COLPITTS OSCILLATOR & OUTPUT TRANSISTOR/CCT TO SIMULATE
HOME-BREW PS. SWITCHER-DRIVER USING CMOS. MULTIVIBRATOR, CMOS. HEX INVERTER & FET.S (73AM9008)
REMOTE INPUT SECTION OF STEPPER MOTOR DRIVE, FOR COMPUTER CONTROL/ULTRA LOW NOISE PRE-AMP.
SIMPLE DIGITAL QUARTZ CRYSTAL THICKNESS MONITOR WITH HIGH SENSITIVITY & GOOD RESOLUTION, INCLUDING
SIMPLE 1-CHIP AFSK. GENERATOR USING "FUNCTION GENERATOR" CHIP, FOR USE IN RTTY., WITH TTL. LEVEL KEYS
TEMPERATURE MONITOR BASED ON THERMISTOR TEMPERATURE SENSOR, USING RESISTANCE BRIDGE WHOSE
SIMPLE PREAMP. CCT (400 TO 512MHZ)
MEMORY SCANNER MOD. FOR RECEIVER, PROVIDING AUTOMATIC & MANUAL STOP-START OF MEMORY CHANNELS
GEMINI MODEM USING EXAR CUSTOM-PROGRAMMED 8031 PROCESSOR & CERMETEK DAA, INCLUDING LATCH, FOR
SIMPLE TRANSISTOR DRIVER TO USE COMPUTER TO CONTROL MOTOR OPERATION USING RELAYS
SIMPLE STEP-DOWN SWITCHING REGULATOR TO DELIVER LV.-DC. OUTPUT FROM 50 TO 300V DC. SUPPLY, USING
TIMER CCT FOR GAMES IN WHICH CARD IS DRAWN TO BEGIN EACH TURN, USING PROGRAMMABLE TIMER & OPTOCOUPLER
DEMULATOR OF AUDIO MODULATOR-DEMULATOR (MODEM) FOR RTTY., USING DEMULATOR-TONE DECODER
LIMITER, MARK & SPACE FILTERS & AFSK. MODULATOR FOR 170HZ SHIFT RTTY. MODULATOR-DEMULATOR (MODEM)
COMMUNICATIONS TU.
SIMPLE 2-TONE SEQUENTIAL ENCODER
NIM ("RABBIT") CONTROLLER MODULE THAT SEQUENCES VALVES, USING LOW POWER TTL. SCHOTTKYS & CMOS
COMPACT, VERSATILE CONFERENCE TALK TIMER THAT HAS SELECTABLE TIME INTERVALS/PS.
TIMER CCT/FREE-RUNNING TIMER CCT/TIMER CCT IN ASTABLE MODE/TIMER USING CASCADED XR-2240'S
DBM. USED AS DOUBLE SIDEBAND SUPPRESSED CARRIER MODULATOR WITH DC. NULLING CONTROL/SAME WITH
SIMPLE FILTER-AMP. WITH A- & C-WEIGHTING NETWORKS, FOR USE WITH AC. VOLTMETERS HAVING SENSITIVITY
SIMPLE LOW-POWER CW. TRANSMITTER, INCLUDING PA BOARD & VFO. FOR 40 & 30M, USING CLAPP OSCILLATOR
30MHZ IF. GENERATOR THAT TRIPLES & AMPLIFIES SYNTHESIZER OUTPUT/SPTT RF. SWITCH/PULSE SHAPER TO
SIMPLE TIMER CCT THAT ALLOWS OSCILLOSCOPE TO MEASURE SATURATION CHARACTERISTICS & COMPARE VOLTAGE

Sheet1

HOMEMADE TANDY 1000 LIGHT PEN, USING PEN-SIZED FLASHLIGHT & PIN PHOTODIODE
SAMPLING DIODE CCT (USING HEWLETT PACKARD BEAM LEAD), & BROADBAND RF. MATCHING CCT FOR GOOD IF
50MHZ (6M) RF. BRIDGE/50MHZ BATTERY-OPERATED TRANSMITTER CONSISTING OF OSCILLATOR USING 50MHZ
SIMPLE ELECTROSTATIC DEFLECTION SYSTEM
SIMPLE INTERFACE TO CONNECT ELECTRONIC TYPEWRITER TO COMPUTER PARALLEL (CENTRONICS) OUTPUT
PWM. USING FREE RUNNING DIVIDE-BY-256 COUNTER WHOSE OUTPUT IS COMPARED WITH UP. OUTPUT PORT V
SIMPLE VCO. CCT OFFERING GOOD PERFORMANCE WITH MINIMUM OF PARTS, USING VCO. DEDICATED TO MUSI
TEMPERATURE-CONTROL CCT INCORPORATED IN COOLER-CELL SYSTEMS, CONSISTING OF COMPARATOR, TEM
SIMPLE ARBITRATION CCT THAT ALLOWS 2 MASTERS TO SHARE COMMON RESOURCE, PROVIDING 1 PAIR OF RE
DTMF. FIELD PHONE'S DECODER CCT USING DTMF. TONE DECODER FEEDING 4-BIT SIGNAL TO 4- TO 16-LINE DEC
DTMF.-DECODER USING TONE DECODERS & FILTERS (2)/FILTER USING HIGH-PASS & LPF. STAGES (2)/DTMF. REC
TIMER/ROUND-ROBIN ARBITER USING PAL. TO DISTRIBUTE GRANTS IN ROTARY SEQUENCE
SIMPLE CHARGE PREAMP. TO AMPLIFY OUTPUT PULSES FROM CATHODE STRIPS/ANALOG PART OF CHEAP & SIM
TIME-ENCODER FOR FORMATTING CASSETTES
TEMPERATURE-SENSITIVE CARDIAC PACEMAKER CONSISTING OF BLOCKING OSCILLATOR (PULSE GENERATOR)
TEMPO S-1 VHF. SYNTHESIZED FM. TRANSCEIVER (BBB)/CCT SHOWING SWITCHING OF 2 CRYSTALS/VCO. USING
REMOTE BASE CONTROLLER (INTERFACE) FOR ICOM 2AT, USING DTMF. DECODER IC (2)/2AT THUMBWHEEL & +5
REMOTE FIELD STRENGTH (F.S.) SENSOR & FCC PART 15 TRANSMITTER (CONSISTING OF HARTLEY VFO. WITH BU
SIMPLE & LOW-COST PULSED ATOMIZER FOR HEATING OF MO FILAMENT (FOR RIS), ENABLING MEASUREMENT C
SIMPLE HF. & VHF. MMIC. AMP., USING AVANTEK MMIC.S
COMPLEMENTARY SWITCH MULTIVIBRATOR/TTL. MULTIVIBRATOR/COLLECTOR- & EMITTER-COUPLED MULTIVIBR
SIMPLE VOICE MESSAGE RECORD-PLAYBACK CCT BUILT AROUND CMOS. ANALOG (TAPE) RECORDER CHIP (VOIC
REMOTE CONTROL SYSTEM (FOX COMMANDER) FOR HIDDEN T'S (TRANSMITTER'S) PTT. & AUDIO THROUGH UHF
SIMPLE 50W AUDIO AMP. WITH <0.01% THD. & 5HZ TO 50KHZ BW., USING HITACHI COMPLEMENTARY POWER MOS
SIMPLE 2-DIGIT LED. DISPLAY INTERFACES (2)/10-DIGIT MUX.ED LED. DISPLAY INTERFACE (BBB)
UNMOD. OSCILLATOR-DOUBLER IN TEDELEX 6000 OR 7000 CB./5-UP MOD.
COMMON BASE PREAMP. USED IN MEASUREMENT (TEST) OF NOISE PARAMETERS OF SEVERAL FAST MICROWAV
COMPACT, EXTREMELY LIGHT, SINGLE-STAGE 19GHZ FET. AMP., WITH >10% BW.
SIMPLE PROBE/FLYBACK-TYPE CONVERTER/DC.-DC. CONVERTER WITH REDUCED QUIESCENT CURRENT/STEP-D
10M (28.322MHZ) MICRO-QRP TRANSMITTER USING VERY INEXPENSIVE COMPUTER CLOCK OSCILLATOR MODUL
COMPLEX 1ST MIXER & FRONT END OF DIRECT CONVERSION SSB. RECEIVER/1.3KHZ LOW PASS IF. FILTER-AMP.
TIMING CCT FOR SETTING LASER REPETITION RATE & DELAY TIME FOR ION EXTRACTION, TO BE CONNECTED TO
SIMPLE 12V, 5A DC. PS. WITH CROWBAR (OVER-VOLTAGE) PROTECTION & CURRENT LIMITING
SIMPLE CCTS TO IMPLEMENT THERMAL CHARGING OF NICD. BATTERIES (2)/SWITCHED-MODE THERMAL CHARGE
COMPACT GRAPHICS ARRAY PROCESSOR USING 2 REGISTER FILES & FLOATING-POINT CHIP SET (BBB)
SIMPLE ULTRA-LOW DROPOUT REGULATOR WITH DROPOUT OF <50MV AT 1A, INCLUDING SHORT-CCT PROTECTI
TEMPERATURE CONTROLLER FOR OVEN/CCT TO MEASURE LIGHT LEVELS OVER 100DB/FLOW-METER CCT/THER
SIMPLE MULTI-WAY CABLE TESTER TO CHECK FOR BROKEN OR SHORTED CONDUCTORS & CROSSED WIRES
80M AMATEUR-RADIO TRANSMITTER USING MOSFET.S IN KEYED PIERCE OSCILLATOR-DRIVER & SWITCH-MODE
SIMPLIFIED EQUIVALENT CCT OF ZERO-CURRENT SWITCHING QUASI-RESONANT FLYBACK CONVERTER USING G
TIME CONSTANT MOD. USING PWM. CONTROLLER, CONSISTING OF VMOSFET. & FLYWHEEL DIODE
SIMPLE TEST CCT TO MEASURE AMP.'S OFFSET-VOLTAGE STABILITY/TEST CCT TO SHOW OFFSET VARIATIONS C
SIMPLE AMP. CCT (2)/MOD. SIMPLE AMP. WITH DECOUPLED EMITTER/TV. IF. AMP.
SIMPLE FROST ALARM USING THERMISTOR, SCHMITT TRIGGER, ASTABLE MULTIVIBRATOR & TRANSISTOR AMP.
COMPLEMENTARY POWER FET. SWITCH WITH DV-DT & DEAD TIME ADJUSTMENTS (TESTER FOR FAST-SWITCHIN
SIMPLE, INEXPENSIVE AUTO LIGHT REMINDER
SIMPLE DTMF. DECODER TO KEEP AUTOPATCH FROM HANGING UP, USING MITEL DTMF DECODER & FILTER IC'S
HAMAMATSU IDT (IMAGE DISSECTOR TUBE) HETERODYNE CCT/SIGNAL PROCESSING CCT CONSISTING OF DC. A
DTMF. SQUELCH CONTROLLER USING MITEL DTMF. DECODER (RECEIVER), SUPPORTING DTMF. SQUELCH BASED

SIMPLE WIDE-RANGE CURRENT LIMITING CCT
TEMPERATURE CONTROLLER (CCT THAT REGULATES TEMPERATURE USING PELTIER ELEMENT)
DTMF. DECODER USING TOUCH TONES TO CONTROL EQUIPMENT ANYWHERE THERE IS TELEPHONE TO SEND C
50MHZ MIC. OSCILLATOR USING MOTOROLA HYBRID, WITH LIMITING USING 2 BACK-TO-BACK HOT CARRIER DIOD
70MHZ BANDPASS FILTER-IF. AMP. USING MOTOROLA BROADBAND AMP.S WITH 14DB GAIN, FOR HOME-BREW SA
10MHZ FREQUENCY STANDARD USING 10.0000MHZ TEMPERATURE COMPENSATED CRYSTAL OSCILLATOR, & JFE
SIMPLE CCT THAT TURNS SHAFT ENCODER INTO TACHOMETER, USING IC THAT OUTPUTS DELTA VALUE TO BE S
"SMART" POWER-CONTROL SUBSYSTEM THAT LINKS TO LOCAL PROCESSOR WITH POWER LOADS & SENSORS, P
10M OSCILLATOR/OSCILLATOR-AMP. TRANSMITTER USING 2 TUBES/28MHZ CRYSTAL-CONTROLLED TRANSMITTE
SIMPLE, INEXPENSIVE PRESSURE TRANSDUCER USING SOLID-STATE PRESSURE-SENSITIVE SENSOR & OA.S, TO
40M (OR 30M) CRYSTAL HARTLEY TRANSMITTER/"TRANSFORMERLESS WONDER" TRANSMITTER USING DUAL-SE
SIMPLE CONTROL SYSTEM USING MICROCONTROLLER, USING SOME ROM., RAM. & INPUT & OUTPUT PORTS TO
SIMPLE CCT THAT COMBINES BATTERY & DYNAMO BICYCLE LIGHTING, USING HIGH INTERNAL INDUCTANCE OF D
HEMISPHERE SYNCHRONIZATION GENERATOR USING MEMORY-MAPPED PPI.S TO CONTROL PROGRAMMABLE S
DEMODULATOR FOR INTERFACE, SHOWING MOD.S/CCT FOR TONE GENERATION FOR INTERFACE/UART. & ADC.
REMOTE-CONTROL INTERFACE USING MUX.S & UART./MODULATOR SECTION OF ANSWER-TYPE MODEM/DEMODO
SIMPLE NOISE-MAKER CCT USING PROGRAMMABLE SOUND GENERATOR (PSG) & 0.4W AUDIO AMP., TO CONNEC
SIMPLE POCKELS CELL DRIVER CAPABLE OF OPTICALLY SWITCHING CELLS IN 6NS AT REPETITION RATES OF UP
COMPACT "OPEN BOX" ADJUSTABLE WAVEFORM SPARK SOURCE INCLUDING THYRATRON SHUNT & DISCHARGE
CONVERTER FOR LONG-DISTANCE (DX) RECEPTION OF AM. OR SSB. STATIONS IN 27MHZ CB. ON SW. OR MEDIUM
MINIMUM SYSTEM USING 5MHZ 16-BIT UP. (CENTRAL PROCESSOR), CLOCK GENERATOR, PROGRAMMABLE MEMO
MINIMUM CONFIGURATION USING DISPLAY CHIP WITH 8088-8086 PROCESSOR & DISPLAY & SYSTEM MEMORY (BI
CONTROL-R I PROCESSOR USING MICROCONTROLLER/NETWORK INTERFACE/SATELLITE CONSISTING OF S-ART
SINGLE-STAGE 2.9GB-S 16:1 MUX. USING 2 TDM. IC'S DRIVEN WITH COMPLEMENTARY CLOCKS (BBB)/CLOCK-REC
CONTRACTILITY UNIT THAT ACCEPTS LEFT VENTRICULAR PRESSURE & ECG. & COMPUTES VELOCITY OF CONTR
BANDPASS FILTER WITH >46DB ATTENUATION, USING 6 OA.S CONFIGURED AS ANTONIOU GENERALIZED (GROUN
LINEAR VCO. CCT USING 741 OA. INPUT TO LINEARIZE 1 OF 2 CURRENT SOURCES IN FUNCTION GENERATOR IC
SYNTHESIZED CLOCK FOR CMOS. BILLBOARD KEYBOARD KEYS, USING PLL. FREQUENCY SYNTHESIZER TO MU
CONTACT RESISTANCE MEASUREMENT DEVICE TO MEASURE CONTACT RESISTANCE IN RANGE 1OHM TO 10^6O
CONTROLLER FOR LED. DISPLAY, CONSISTING OF MICROCONTROLLER-BASED CCT/PART OF SAMPLE CCT, CON
SYNC AMP. USING SEVERAL INVERTERS, TO AMPLIFY LOW-LEVEL (WEAK OR LINEAR COMPOSITE) SYNC SIGNALS
LINE-LEVEL PREAMP.'S GAERTNER-KOSSMANN LOGIC CCT INCLUDING INPUT SELECTION LOGIC & FUNCTION SE
RANDOM NUMBER GENERATOR (DIGITAL DICE)
CONTINUOUSLY VARIABLE GAIN, LOW NOISE PREAMP. USING ANALOG DEVICES 100MHZ GAIN-BW. PRODUCT FE
SINGLE-BOARD BASIC-52 COMPUTER-CONTROLLER USING MICROCONTROLLER CHIP CONTAINING BASIC INTER
SENSOR & CONTROLLER FOR DEW POINT HYGROMETER
GENERAL-PURPOSE MEMORY BOARD USING 1M-BIT BUBBLE CHIP, & PERMITTING SERIAL IO. THROUGH UP. OR P
CENTRAL PROCESSOR UNIT (CPU.) OF MULTIPROCESSOR SYSTEM, CONTAINING MASTER UP., EPROM., RAM., ST
MINIMUM CONFIGURATION FOR HOOKING FLOATING-POINT PROCESSOR (FPP) TO 8085 UP., INCLUDING 4-BIT DE
CONTROL SYSTEM/PS. & RF. OSCILLATOR CCT TO PRODUCE VOLTAGES TO OPERATE CONTROL SYSTEM CCT
FINE ADJUSTMENT DELAY CCTS & ECL. LATCHES THAT RECORD 8 SIGNALS TO GENERATE FAST CODE (GRAY'S C
MONITOR CCT USING AUDIBLE ALARM & LED. TO INDICATE INCOMING CALLS, DETECTING BELL VOLTAGES >3V A
LINEAR GATE TO CONTROL TRANSMISSION OF ANALOG SIGNALS, COMPOSED OF GATE CCT & ANALOG CHANNE
CENTRONICS-COMPATIBLE UP.-CONTROLLED PRINTER BUFFER THAT ACCEPTS DATA FAST & FEEDS IT OUT TO P
MANCHESTER-CODE CONVERTER CONTAINING DRIVERS & RECEIVERS, CONNECTED TO TRANSCEIVER THROUG
CONVERTER THAT COVERS 4 TO 18MHZ IN 2 BANDS (4 TO 11MHZ & 11 TO 18MHZ), CONSISTING OF RF. AMP., LO.
XENON BEACON THAT EMITS POWERFUL BLAST OF LIGHT AT RATE OF ~1.5HZ, INCLUDING INVERTER, RECTIFIER
RANDOM NUMBER GENERATOR CCTS USING CLOCK, & 1-OF-2 CCT (COIN FLIPPER) OR 1-OF-10 CCT (3)/PULSE ST
BINARY PUSH-BUTTON SWITCH ENCODER USING BINARY COUNTER & 1-OF-10 DECODER, INCLUDING INDICATOR

SINGLE-CYCLE SINE GENERATOR USING COMPARATORS AT OUTPUT OF FUNCTION GENERATOR, PROVIDING SQ
DYNAMICALLY CONFIGURABLE STATE MACHINE CAM (CONTENT ADDRESSABLE MEMORY) INCLUDING 64KX16 BIT
ION MOBILITY SCANNING CCT TO MEASURE ION CONCENTRATION, INCLUDING 8 RELAYS (TO SELECT 1 OF 8 COL
TONE-BURST GENERATOR/AUDIO OSCILLATOR/PRECISION MULTIPLIER/DIVIDER CCT/TV. COMMERCIAL KILLER
NONMOVING ELECTRONIC TOUCH-ACTIVATED KEYS CCT USING CMOS. QUAD 2-INPUT NAND SCHMITT TRIGGER
MANUALLY-OPERATED 10-STEP STAIRCASE GENERATOR/CCT TO CONVERTER GENERATOR TO SELF-GENERATING
SINGLE-BOARD MICROCOMPUTER (SBC.) OF AICS THAT LINKS PCM. TELEMETRY TO TO DIGITAL SYSTEMS ON TE
SYNCHRONOUS COUNTER THAT GENERATES OUTPUT IN GRAY CODE SEQUENCE, INCLUDING FF.S & NATURAL B
MINIMAL BASIC-52 DEVELOPMENT SYSTEM INCLUDING MICROCONTROLLER, SRAM., ADDRESS LATCH, ADDRESS
SENSITIVE BC. RECEIVER USING DIGITAL DEVICE/PROXIMITY ALARM/CCT TO CREATE MUSIC BY WAVING HAND
SINGLE-CHANNEL NIR. JOYSTICK TRANSMITTER/JOYSTICK RECEIVER/CCT FOR SIMPLE OPTICALLY TRIGGERED M
HANDY ADJUSTABLE AUTOMOTIVE TIMER WITH PIEZO ALARM CCT, USING 14 STAGE RIPPLE COUNTER & OSCILL
PIN CONNECTIONS 8080 UP. (BBB)/INTERCONNECTIONS FOR 8080 & 8085 EMULATOR (BBB)/CCT TO GENERATE C
MONITOR & SHUTDOWN CCT TO HELP TO PROLONG BATTERY LIFE, THAT INHIBITS ELECTRIC HAND FROM RUNN
LAN. INTERFACE TO SIMPLIFY ETHERNET PACKET BUFFERING, USING LAN. CONTROLLER, & DRAM.S AS FIFO. BU
CONTROLLER BOARD FOR IBM PC., USING INTEL PROTOCOL CHIP SET INCLUDING UP., BUS CONTROLLER, LAN. C
MINIMUM SYSTEM CONFIGURATION FOR 8086 UP. (CPU.)/MINIMUM SYSTEM WITH BUFFERED BUSES/MAXIMUM-F
CONVERTER (UP. SYSTEM) TO INTERFACE HOST COMPUTER TO COMMUNICATIONS SUBNETWORK, INCLUDING H
SYNC PLUNGER TO PRODUCE NEGATIVE-GOING SYNC FOR COMPUTER MONITORS, REGARDLESS OF INPUT POL
DYNACO ST-70 (STEREO 70) AMP./PS./MOD. ST-70 AMP., INCLUDING MOD. IN PENTODE INPUT STAGE, & TUBE FOR
MINIATURE FLUORESCENT LIGHT STRIP CONTROLLER USING LAMP DIMMER USING SCR. & POTENTIOMETER TO
CONSTANT-CURRENT STIMULATOR FOR HUMAN USE, TO PRODUCE ERECTION & SEMEN RELEASE IN PARAPLEG
LINEAR TEMPERATURE-TO-FREQUENCY CONVERTER CONSISTING OF VFC. (OSCILLATOR) & THERMISTOR RESIS
SYNTHESIZER CONSISTING OF VCO., BUFFER & PRESCALERS/FREQUENCY REFERENCE & PHASE DETECTOR/PR
SINGLE-SUPPLY VFC./CURRENT-SOURCED VFC. USING ACTIVE INTEGRATOR TO INCREASE DYNAMIC RANGE TO
DYNODE CHAIN/GATING CCT FOR DETECTOR WITH 4 HAMAMATSU PMT.S, FOR USE IN NEUTRON TOF. MEASURE
LINEAR OPTOCOUPLER CCT FOR INSTRUMENTATION APPLICATIONS REQUIRING INPUT ISOLATION FOR SAFE OP
RANGE CONTROL UNIT (ELECTRONIC WINDOW) BASED ON 2 VOLTAGE COMPARATORS & 'EXCLUSIVE-OR' GATE,
MONITORING CCT CONSISTING OF AC. BRIDGE INCLUDING DETECTOR (SENSOR) & OPTICALLY COUPLED BILATE
GUN PULSER OF SIMPLE & INEXPENSIVE PLASMA GUN TO SUPPLY HIGHLY IONIZED CARBON PLASMA, SHOWING
MENISCUS DETECTOR CCT THAT PROVIDES 60HZ TTL. WAVEFORM WHOSE DUTY CYCLE ENCODES MENISCUS P
CONVERTER DESIGNED TO BE CHEAP & RELATIVELY SIMPLE ALTERNATIVE TO ADC.S MADE FROM COUNTERS-R
LINEAR AMP. USING 813 PENTODE TUBES

CONELRAD ALARM ATTACHMENT FOR EXISTING RECEIVERS, TO MONITOR 1000-CYCLE TONE & CONELRAD ALER
CONSTANT-CURRENT CLOSED-LOOP CONTROLLER CCT FOR HEAVY-DUTY SUPPLY USING PHASE-ANGLE TRIGG
CONTROL CCT FOR DRIVE SYSTEM, INCLUDING 4-PHASE STEPPER MOTOR, MOTOR CONTROLLER CCT & MOTOR
CONTROL BOARD FEATURING 2 Z80 PIO CHIPS FOR IO. TASKS, & TIMER TO GENERATE PULSES FOR MULTISCALE
SINGLE-DIGESTER CONTROLLER CONSISTING OF 8-BIT 8085A UP. (CPU.) WITH MEMORY, ADC., 2 DAC.S, PROGRA
LINEAR 512-PHOTODIODE ARRAY INTERFACE MODULE CONSISTING OF IO. PORT, ADC., CMOS.-TO-TTL. CONVE
CONTROLLER FOR 64KBIT DRAM.S USING RELATIVELY INEXPENSIVE INTEL 16K DRAM. CONTROLLER BY MUX.ING
CONTROL SYSTEM FOR MICROELECTRODE POSITIONER USING HIGH-PRECISION SMALL STEP ANGLE HYBRID M
MINIATURE DIGITAL STOPWATCH, USING TIMING CCT THAT TIMES IN SPLIT OR TAYLOR MODES
CENTRAL GAS CELL PRESSURE SENSOR CONTROL, COMPOSED OF TEMPERATURE COMPENSATED PREAMP. & I
SINGLE-TUBE AM. RADIO TRANSMITTER IN WHICH AUDIO SIGNAL IS MIXED WITH OUTPUT OF HARTLEY OSCILLAT
SINGLE CHIP OVEN TEMPERATURE CONTROLLER

CONTROL SYSTEM FOR 3-PHASE CONTROLLED RECTIFIER, WITH FIRING ANGLE SMOOTHLY CONTROLLED BETW
GENERAL-PURPOSE IO. BOARD USING MOS. OR CMOS. PARALLEL PERIPHERAL INTERFACE (PPI) & PIT. (2)
RANDOM PULSER BASED ON PHOTON COUNTING, IN WHICH PHOTONS EMITTED FROM LED. RANDOMLY HIT PHO
RING INTERFACE OF MICRONET CONSISTING OF NETWORK OF 8080 & 8085 MICROCOMPUTERS, INCLUDING USA

MINIMAL INTERFACE FOR IBM PC. BUS, USING PPI. (BBB)/CCT USING MC6821 AS WORD IO. PORT (BBB)/INTERFACE
WIND-DIRECTION INDICATOR, USING LED.S & PHOTO-COUPLER INTERRUPTER MODULE CONSISTING OF IR. LED.
CONTROL LOGIC OF GRAPHICS BOARD, TO LINK GRAPHICS PROCESSOR & PC., CONSISTING OF LATCHES, TRAN
CONSTANT CURRENT SOURCE TO EXCITE PRESSURE TRANSDUCERS, HELPING TO LIMIT ERRONEOUS RESPON
DYNODE CHAIN (BASE CCT) TO SUPPLY VOLTAGE TO DYNODES OF PMT., INCLUDING GATE GENERATOR (MONO
SENSOR (31MHZ COLPITTS OSCILLATOR) INCLUDING RF. AMP., TRIGGERED TIMER, TRANSISTOR SWITCHES, T NI
CONTROL CCT OF DYE LASER STABILIZATION INCLUDING UNLOCK-RELOCK SYSTEM, WHOSE PZT. AMP. HAS LOV
SYNCHRONIZING IPDA CONTROL CCT/HIGH-SPEED VIDEO CCT FOR SINGLE CHANNEL, USING DIFFERENTIAL AMP
LINEAR CAPACITIVE DISPLACEMENT-TO-FREQUENCY CONVERSION CCT USING BURR-BROWN TRUE RMS.-TO-DC
CONDUCTIVITY CELL DRIVE CCT USING SYMMETRICAL ANTI-PHASE DRIVE/WAVE-PROBE CCT CONNECTED TO C
SINE FUNCTION CCT OF SIMPLE & ACCURATE WHITE GAUSSIAN NOISE (WGN) GENERATOR USING PSEUDORAND
SINGLE-IC CCT TO DEBOUNCE GROUP OF 8 PUSHBUTTON SWITCHES, LATCH LAST SWITCH CLOSURE & PROVIDE
SENSING CCT TO MEASURE ROTATIONAL SPEED, WITH BLADES OF FAN CASTING SHADOW ON PHOTOTRANSTI
MINIATURE RADIO/LIGHT MINDER/SIGNAL INJECTOR-TRACER/MODULATION MONITOR/FIELD-STRENGTH METER/P
SINGLE CHIP BELL 103 COMPATIBLE MODEM WITH RS-232
SINCLAIR ZX-81 HOME COMPUTER "CENTRONICS-TYPE" PARALLEL PRINTER INTERFACE
CONTROL PANEL FOR 8-CHANNEL LIGHTING CONTROLLER, INCLUDING LED. BARGRAPH DISPLAY DRIVER/POWER
LINE RECEIVER CCT/LINE DRIVER CCT
MANCHESTER ENCODER-PSK. MODEM (MODULATOR) USING SYNCHRONOUS BINARY COUNTER, WITH MANCHES
SINGLE TO DOUBLE-SIDED DISC DRIVE CONVERTER
CONTROL (MEASURING) CCT OF WATER RESISTANCE-PROBE MANOMETER FOR MEASURING LOW-PRESSURE DI
FUNDAMENTAL MODE LF. QUARTZ CRYSTAL OSCILLATOR USING TRANSISTORS/LF. PARALLEL MODE QUARTZ CR
CONTROLLING PRESSURE CCT TO KEEP PRESSURE DIFFERENCE WITHIN +-2MB OF PRESET VALUE BY "ON-OFF"
CONTROL INTERFACE BETWEEN ADD8080 MICROCOMPUTER & STOPPED-FLOW SPECTROMETER, INCLUDING OF
CONTROL-PLUS-RESET MOD. TO APPLE II COMPUTER TO PREVENT DISASTROUS RESULTS IF RESET KEY IS ACC
CONTROL CCT IN WHICH WAVEFORM IS FED TO COMPARATOR CCT, & LOGIC FUNCTION IS GENERATED/CONTRC
SYNC GENERATOR SECTION OF VIDEO TITLER/CLOCK-GENERATOR SECTION/VIDEO DISPLAY PROCESSOR/CHRO
HANDY DC. MOTOR SPEED CONTROL FOR MODELS, THAT HOLDS MOTOR AT CONSTANT SPEED, EVEN WHEN LO
NANOCOLORIMETER USING PHOTODETECTOR TRANSISTOR AS LIGHT SENSOR (PHOTODIODE), & OA. IN SINGLE-
SINGLE-CHIP CCT THAT PERFORMS SLOPE-DM. OR DEMODULATION
SYNCHRONOUS FILTER/BRIDGE/PREAMP./LOCK-IN AMP./THERMOREGULATOR
ION SOURCE ELECTRONICS USING EXTRACTOR ELECTRODE, NEEDLE & SPELLMAN HV. PS.
CONTROL-INTERFACE-DRIVE UNIT FOR 3-PHASE WARNER-ELECTRIC STEPPING MOTOR WITH 15DEG STEP LENG
SENSOR INTERFACES & HEAD'S STEPPER-MOTOR CONTROL ELECTRONICS, ATTACHED TO BIDIRECTIONAL USEF
LINEAR CONSTANT-CURRENT DRIVE USING BINARY COUNTER WHOSE OUTPUT IS DECODED BY 1-OF-8 DECODED
CONTROL BLOCK FOR MC8031/CONTROL BLOCK FOR 8088-8086 UP.S/CONTROL BLOCK FOR MC8051 MICROCOM
CONSTANT CURRENT (CURRENT-REGULATED) SUPPLY (CRS) FOR HEATING OF GRAPHITE ATOMIZER, INCLUDING
SINGLE UNIT OF PREACCUMULATOR
CONTROL CARD/CONVERTER SECTION/SINGLE MEMORY CARDLOOKUP TABLE
CONTROL CCT FOR RESISTIVE CHARGING, INCLUDING MONOSTABLE MULTIVIBRATOR TO PROVIDE TRIAC TRIGG
BINARY PITCH COUNTER & BUFFER LATCH TO ACCUMULATE & TEMPORARILY STORE PITCH COUNT DATA BEFO
CONVENTIONAL VOLTAGE ALLPASS FILTER USING STANDARD OA., WITH LIMITED BW. PERFORMANCE
WIND DIRECTION DECODER USING IR. REFLECTIVE OPTOSWITCHES THAT GENERATE CODE CONNECTED TO SE
SINE WAVE CONVERTER TO CONVERT RECTANGULAR OUTPUT SIGNAL OF PLL. INTO SINUSOIDAL WAVEFORM (4
HANDHELD PHOTOELECTRIC SYSTEM THAT TURNS ELECTRICAL EQUIPMENT ON OR OFF USING PHOTORESISTIV
NAND & NOR FF. SWITCHES (2)/DEBOUNCE SWITCH USING FF./FF. BINARY-COUNTER-CONTROLLER INDICATOR
CONTROLLER CCT CONSISTING OF CCT TO CONTROL WAVELENGTH DRIVE & TRIGGER DPM., & CCT TO ENCODE
NINTENDO JOYSTICK ADAPTER (NINJA) (SERIAL-TO-LATCHED-PARALLEL DATA INTERFACE) TO MAKE JOYSTICK C
SINEWAVE GENERATOR BUILT AROUND OA.'S FEEDBACK LOOP IN CONFIGURATION OF RESISTORS & CAPACITO

TONE-GENERATING CCT THAT GENERATES VARIETY OF TONES WITHOUT VARYING CLOCKING RATE (BBB)
CONTROLLER
HANDY, MULTI-VOLTAGE POWER SOURCE FOR CALCULATOR, WITH 3V REGULATED OUTPUT & MAXIMUM OUTPUT
SINE-WAVE OSCILLATOR WITH AGC. LOOP FOR AMPLITUDE STABILIZATION WITH ULTRA-LOW DISTORTION OUTPUT
CONTROL LOGIC FOR SCALER MODULE CONSISTING OF 16 CHANNELS, CONTROLLED (ADDRESSED) BY STANDARD
SINE WAVE GENERATOR TO PRODUCE WALSH FUNCTION APPROXIMATION OF SINE FUNCTION, INCLUDING FILTER
CONVENIENT 4-STATE INDICATOR USING 2-COLOUR RED & GREEN LED. & LOGIC CHIP
SYNCHRONOUS BINARY UP-DOWN COUNTER
CONTROL UNIT THAT PROVIDES DIRECTLY-CONNECTED SIGNAL TO OPERATE OPTO-COUPLED SWITCHES
CONTROL & SWITCHING CCT TO REVERSE CURRENT PASSED THROUGH SAMPLE FOR RESISTIVITY MEASUREMENT
LINEAR COMPENSATION CCT FOR TEMPERATURE COMPENSATION OF LED. RADIATION FLUX
CONTROL CCT FOR CAMAC MODULE FOR SYNCHRONOUS TRANSFER OF 32-BIT BINARY DATA TO EXTERNAL DEVICE
GENERAL PURPOSE LABORATORY INTERFACE SYSTEM MASTER LOGIC BOARD (MLB) COMPRISING ADDRESS & DATA
DENSITY READ OUT LATCH/CCT TO INTERFACE DENSITY METER & LINEAR ENCODER/ENCODER LATCH/CCT TO A/D
VAN DER POL OSCILLATOR USING OA. IN CONJUNCTION WITH DIODE ARRAY TO GIVE NONLINEAR DISSIPATION, VOLTAGE
CONTROL AMP. OF SOUND & PRESSURE-STEP GENERATOR TO PRODUCE LF. PRESSURE LEVELS OF >150DB INTENSITY
CONTROL CCT TO TURN MOTOR ON WHEN TRIGGER PULSE IS SUPPLIED BY EXTERNAL ROBOT, CAUSING ARM TO
PENDULUM SEISMOMETER INCLUDING OA. TO AMPLIFY SIGNAL GENERATED BY PICKUP COIL WHEN MAGNET MOVES
CONTROLLER TO SET SPEED OF AC.-DC. (UNIVERSAL) MOTORS, INCLUDING OPTOCOUPLED INPUT, WITH 1500V MOTOR
CONTRAST METER TO HELP CHOOSE RIGHT GRADE OF PAPER FOR PHOTOGRAPHIC NEEDS
SYNCHRONOUS 1-SHOT MULTIVIBRATOR USING SWITCH TO SELECT PULSE WIDTHS FROM 1 TO 10 CLOCK PERIODS
NONINVERTING AMP.S FOR PROVIDING 10W SCALE FOR "SIMPLE COMPUTING SWR. METER" (2) (QST7307)
WINDOW GENERATOR TO PRODUCE BURST OF CLOCK PULSES DURING DATA-STROBE TIME
RANDOM-NUMBER GENERATOR CAPABLE OF PRODUCING 2147438647 DISCRETE OUTPUT STATES
HANDY RANDOM NUMBER GENERATOR FOR SPORTS POOLS & BINGO
TUNABLE NOTCH FILTER (NARROW-STOP-BAND FILTER)
BINARY-BCD.-7 SEGMENT TO CONVERT RAW BINARY DATA FOR REAL TIME LED. DISPLAY, USING FACTORY PROVIDED
CONDUCTIVITY METER CCT FOR DIRECT MEASUREMENT-INDICATION OF HAEMOGLOBIN (HB) CONCENTRATION,
GENERAL PURPOSE INTERFACE BOARD FOR COMMUNICATION FROM MICRONOVA TO LITTON LIGHT-MOD ARRAY
DYNAMIC MEMORY-MAPPING CCT THAT SWAPS RAM. & ROM. TO INCREASE 68008 UP.'S RAM. & IO. SPACE (BBB)
SINUSOIDAL OSCILLATOR WHOSE OSCILLATION FREQUENCY BEARS LINEAR RELATIONSHIP TO CONTROLLING VOLTAGE
HANDY PULSE GENERATOR WHOSE PULSE WIDTH & REPETITION RATE ARE CONTINUOUSLY VARIABLE OVER 6 DECADES
CONTROL UNIT THAT COMPARES VOLTAGE PRODUCED BY PHOTOVOLTAIC CELL WITH REFERENCE VOLTAGE, THROUGH
MANCHESTER II DATA ENCODER USING 74F SERIES LOGIC & 50MHZ CLOCK, TO RUN MANCHESTER II CODING AT
CONSTANT-CURRENT SUPPLY WITH VERY WIDE RANGE OF OUTPUT CURRENTS (2UA TO 100MA), INCLUDING CURRENT
CONTROL CCT TO SYNCHRONIZE START OF DATA ACQUISITION (A-D READINGS) TO DIODE VIDEO OUTPUT (TO SCANNER)
CONTROL (ACTIVE FEEDBACK) CCT FOR STABILISATION OF BALL SUSPENSION SYSTEM, CONSISTING OF TRANSISTOR
SINGLE-RESISTANCE-CONTROLLED (SRC) VLF. SINUSOIDAL OSCILLATOR USING SINGLE IC OA., PERMITTING EASY
SENSE AMP. THAT OPERATES LOGIC GATE AS LINEAR CURRENT-TO-VOLTAGE CONVERTER TO INCREASE SENSITIVITY
MONITOR EXERCISER (COMPUTER-VIDEO SYNC GENERATOR) (COMPLEX FREQUENCY-DIVIDER CCT) TO TEST COMPLEX
CENTRONICS LINE BOOSTER TO ENABLE USE OF LONG CABLE BETWEEN PRINTER & PC.'S PARALLEL PRINTER ('S
MINI-VOICE TRANSMITTER INCLUDING 2-TRANSISTOR AM. MODULATOR THAT CONTROLS AMPLITUDE OUTPUT OF
BINARY TO 7-SEGMENT CODE CONVERTER
CONTROL & ADDRESSING LOGIC/DATA COUNTER, RAM. BANK & UPDATING LOGIC
MONOSTABLE, TRIGGERED WHEN ITS INPUT CHANGES FROM HIGH TO LOW & HOLDS THIS STATE FOR TIME CORRELATED
LINK BETWEEN APPLE II+ COMPUTER & SONY CD. PLAYER, TO SIMULATE KEY-PRESSES OF ANY KEY ON FRONT PANEL
CONTROLLER FOR FEEDBACK STABILIZATION OF LING 106 VIBRATOR (LABORATORY STIMULATOR)
SINGLE STEP IO. CCT TO REDUCE TIME TO DEBUG HARDWARE & SOFTWARE USING NATIONAL SEMICONDUCTOR
RANDOM BYTE GENERATOR BASED ON MAXIMAL-LENGTH FEEDBACK SHIFT REGISTER (MLFSR) TECHNIQUE, TO

Sheet1

NONLINEAR NEGATIVE RESISTOR OF VAN DER POL OSCILLATOR, SYNTHESISED USING OA. & ARRAY OF DIODES
PINEWOOD DERBY CCT/SECTION TO DETECT INTERRUPTION OF IR. BEAM/SECTION TO PROVIDE POWER-ON RES
DYNAMIC MEMORY CONTROL ON 68000 BOARD
TUNABLE DISCRIMINATING NETWORK
NON-RECURSIVE DIGITAL BANDPASS (BINARY TRANSVERSAL) FILTER (BTF) FOR PSK. MODULATOR, USING SHIFT
SYNCHRONIZED (SYNCHRONOUS) RESET-CLOCK CCT TO GENERATE RESET & PHASE-SYNCHRONIZE INTERNAL
LANGMUIR PROBE SWEEPER CCT THAT GENERATES LINEAR VOLTAGE RAMP OF 40V WITHIN 1.4MS, WITH ADJUS
CONTROL CCT OF ELECTRONICS OF TMMS (TIME MUX. MULTI SLIT) AA (ATOMIC ABSORPTION) SYSTEM, INCLUDI
CONTROLLERS INCLUDING PI (PROPORTIONAL PLUS INTEGRAL) CONTROLLER
MONOSTABLE CCT USED TO DERIVE TTL. PULSES TO DRIVE PIN DIODE SWITCHES
SINCLAIR ZX81 COMPUTER INTERFACE TO CLOCK-CALENDAR IC, TEMPERATURE INDICATOR & HEATER CONTROL
LINEAR-SCALE OHMMETER THAT MEASURES RESISTANCE OVER 500MOHM RANGE
CONTROL CCT FOR UV. LAMP
CONTROL CCT
LINE RECEIVERS FROM MINC TO INTERFACE LOGIC/DATA & WAVELENGTH COUNTERS (BBB)/PRIMARY DIVIDER (E
SYNCHRONOUS TEST SETUP TO INTERFACE TEKTRONIX 465 SCOPE WITH BARNES RM-50 MICRORADIOMETER, U
BAND STOP FILTER, WITH SPECTRUM PRE-EMPHASIS INPUT CCT/RECEIVER AUTOMATIC CLARIFIER CCT INCLUD
CONSTANT PHASE-SHIFT LPF.
TONE GENERATOR
TONE GENERATOR FOR MUSICAL TONE SEQUENCER (INTERFACE FOR COMPUTERIZED MUSICAL TONE GAME)
SYNCHRONIZING CCT FOR PYROELECTRIC VIDICON CAMERA (TIMING CCT FOR SYNCHRONIZATION OF LASER PU
GENERATOR CCT USING TIMER IN ASTABLE MODE/SIMPLE, LOW COST IC SOUND GENERATOR USING TIMER IC &
LINE-VOLTAGE MONITOR TO SENSE IF AC. LINE VOLTAGE IS ABOVE OR BELOW SET LIMITS, & DE-ENERGIZE REL
LINEAR-RAMP MONOSTABLE/CCT FOR DELAYED PULSE GENERATION/RETRIGGERABLE 1-SHOT/TOUCH-SWITCH
BAND-PASS FILTER FOR SPEECH FREQUENCIES, CONSISTING OF PAIR OF COMBINED EQUAL-VALUE SALLEN & K
CONTROL CCT USING SCR. IN MONOSTABLE-TIMER APPLICATION/CONTROL CCT USING TRIAC-OUTPUT OPTOISO
CONDUCTIVITY SENSOR ALARM TO SENSE CONDUCTIVITY IN TOILET BOWL & ACTUATE SONALERT BUZZER, FOR
ZONE REFINIER TO PURIFY COMPOUNDS, THAT CONTROLS COLUMN HEATING ELEMENTS & STEPPING MOTOR, (C
CONTROLLER THAT GENERATES EXCITATION & TRIGGER PULSES FROM SWITCHING PULSES FROM NANOVOLTM
CONDUCTIVITY APPARATUS USING TIMER TO PRODUCE ~1000HZ OF PULSED CURRENT TO AVOID POLARIZING C
MONOSTABLE WHOSE OUTPUT PULSE DURATION IS CONTROLLED BY DIGITAL SIGNAL ON PARALLEL BUS, DESIG
BANK PHASE ANGLE SELECT CCT OF DOUBLE-FED MOTOR (DFM) DRIVE WITH DUAL CYCLOCONVERTER, SHOWI
HAND-HELD 2-TONE DEVICE THAT "BEEPS" FOR HIGH & LOW LOGIC LEVELS, & "WARBLES" FOR PULSE TRAINS
LINE CONTROLLER TO CONTROL INCOMING & OUTGOING TELEPHONE CALLS, INCLUDING 8-BIT CMOS. UP., INTE
MANUAL RESET CCT (SURGE PROTECTOR WITH AC. LINE CUTOFF), USING MOV.S FOR LINE VOLTAGE CLAMPING
BINARY CLOCK (TIMEPIECE) THAT REQUIRES ONE TO UNDERSTAND BINARY NUMBERING SYSTEM TO READ TIME
TONE GENERATOR/5-INPUT MIXER USING OA. CONNECTED AS UNITY-GAIN INVERTER, WITH OUTPUT IMPEDANCE
FUNCTION GENERATOR FEATURING TTL., SQUARE-WAVE, TRIANGLE, & SINE-WAVE OUTPUTS, & PORTABLE BATT
GENERATOR USING TIMER CCT TO PUT OUT ENVELOPE WAVEFORM FOR MODULATING TONES OF MUSICAL SYN
SINGLE PHOTON COUNTING SYSTEM INCLUDING ECL.-TTL. TRANSLATOR & FAST (100MHZ) 24 BIT COUNTER CON
DYNODE CHAIN STRUCTURE USED IN TESTS ON RCA PMT. (LINEAR-FOCUSSED TRIODE TUBE) WITH CATHODE-D
MINIATURE MIXED-FREQUENCY STIMULATOR WHOSE OUTPUT CAN BE SWITCHED ON OR OFF AFTER IMPLANTAT
TONE CONTROL MODULE WITH BASS, TREBLE & AMPLITUDE (VOLUME) CONTROLS
MANUALLY OPERATED, SINGLE CHANNEL DRUM SYNTHESISER, USING SMALL LOUDSPEAKER AS INPUT SENSOR
TUNABLE AUDIO NOTCH FILTER CCT
SYNTHESIZED OSCILLATOR COVERING 100HZ TO 19.9KHZ WITH AMPLITUDE STABILITY OF +-0.1DB & 0.2% T.H.D.
RANDOM SWITCHING UNIT FOR MAINS LIGHT DISPLAY, USING COUNTER, SH. & POWER CONTROL CCTS
WINDSHIELD WIPER DELAY
WINDSHIELD WIPER DELAY CCTS

LINE DRIVERS USING 555 TIMERS (INVERTING & NONINVERTING)

BINARY HI-LO GAME

SINUSOIDAL FREQUENCY-HALVING CCT USEFUL IN GENERATION OF VLF. SINUSOIDS, INCLUDING SCHMITT TRIGGER
TUNABLE AF. METER (VARIABLE AF. TONE DECODER) USING PLL. & OSCILLATOR-TIMER IC/SOLID-STATE NIGHT LIGHT
ION METER TO MEASURE LEVEL OF IONS IN HOME, USING DUAL-GATE MOSFET. WHOSE DRAIN FEEDS BALANCE
MONITORING CCT CONNECTED IN PARALLEL WITH IMPORTANT CONTROL-CCT SWITCHES, TO DELIVER ALARM P
MONITOR CCT USING CMOS. INVERTER, TO MONITOR SWITCH CLOSURES OR CHANGES IN VARIABLE RESISTANCE
LINEAR VFC.

CONTROLLER FOR BIG, BRIGHT DIGITAL DISPLAY BOARD/OPTO-ISOLATOR MODULE/PS. USING SEPARATE GROUND
LONG 1-SHOT DELAY CCT

SINGLE-CHIP BURGLAR-ALARM CCT THAT USES DUAL TIMER, DRAWS 10MA OF STANDBY CURRENT & GENERATE
LONG-PERIOD MONOSTABLE CCT TO GENERATE EXTREMELY LONG OUTPUT PULSES/NON-BYPASSABLE ALARM
MONOSTABLE MULTIVIBRATOR CONSISTING OF 555 TIMER, USING POSITIVE PULSE AS TRIGGER INPUT

RANGEFINDER AUDIBLE OUTPUT CHIRPER USING TIMER AS VFC. TONE GENERATOR/ON-AFTER-DELAY TIMER US
IGNITION SUBSTITUTE TO PROVIDE CONSTANT POWER-SOURCE FOR IGNITION COIL, WITH FREQUENCY OF 0.5-1

TONE GENERATOR CONSISTING OF TIMER CONNECTED AS ASTABLE OSCILLATOR, INCLUDING MINIATURE (0.7IN
MONOSTABLE CCT (1-SHOT) USING TIMER, IN WHICH NEGATIVE-GOING TRIGGER PULSE CAUSES OUTPUT TO RE

MONOSTABLE (1-SHOT) MULTIVIBRATOR (MMV) USING IC TIMER/TRANSISTOR INVERTER THAT PERMITS POSITIVE
CONTROL CCT FOR AUTOMATION OF CARBON ANALYZER, TO INTERFACE INTEGRATOR SIGNALS TO SWITCHING

CONTROL TO AUTOMATICALLY SWITCH OFF FAN WHEN ENGINE RUNS AT LOW SPEED, CONSISTING OF ENGINE S
CONVERTER (PS. CCT) TO PRODUCE -5.2V FROM 12 TO 15V POSITIVE SUPPLY VOLTAGE, & DELIVER 0 TO 50MA/P

TONE DECODER DEMONSTRATION CCT/IR.-ACTIVATED SECRET LOCK

ZENITH MTS DECODER SYSTEM WITH ASSOCIATED FILTERS & TRAPS (BBB)

CONTROLLER FOR ELECTROMECHANICAL TRANSDUCER, CONSISTING OF POSITION SENSOR, INPUT, POSITION C
TUNING INDICATOR TO DETERMINE TESLA COILS'S RESONANT FREQUENCY/TESLA-COIL DRIVER USING TONE DE

TONE DECODER & LATCH THAT DETECT NATIONAL WEATHER SERVICE ALERT TONE & HOLD AUDIO ON FOR PER
CONTROL LOGIC OF VARIABLE SPEED PHOTOELECTRIC SCANNING SYSTEM, USING MONOSTABLE MULTIVIBRAT

CONTROL UNIT USING EPROM. MICROCOMPUTER WHOSE 8-BIT PORTS ARE OCCUPIED BY KEYBOARD & DISPLAY
CONTROL CCT OF QCM (QUARTZ CRYSTAL MICROBALANCE) RATE MONITOR, USING REED RELAYS/CRYSTAL

SINGLE-CHIP COMPUTER CCT BASED ON MICROCONTROLLER WITH EMBEDDED EPROM. FOR PROGRAM STORAGE
HAND-HELD LCD. TERMINAL FOR HOME CONTROL SYSTEM, CONSISTING OF CONTROLLER & SIMPLE INTERFACE

CONSTANT CURRENT GENERATOR FEATURING BILATERAL OUTPUT, GOOD-STABILITY & INCREMENTAL STEPS O
CONTROL LOGIC BLOCK OF APPARATUS TO INCREASE FREQUENCY RANGE OF FLOATING TYPE TIDE-GAUGES/R

SINGLE-CHANNEL HYBRID CONSISTING OF LOW NOISE PREAMP., GAIN SELECTABLE AMP., LOAD DRIVER AMP., P
IONIZATION CHAMBER AMP. USING TELEDYNE PHILBRICK 5FA BIAS CURRENT PARAMETRIC AMP.

SINGLE-LED. ANALOG METER USING 2-COLOR (DUAL-COLOR) LED.

CONTROL & DAS.

CONTROL LOGIC & FIRING CCTS FOR CONVENTIONAL & ENHANCED SINGLE PHASE VOLTAGE CONTROLLER (BBE
CONTROL THAT, IN CONJUNCTION WITH DOORBELL PUSHBUTTON & SLIGHT MOD., CONVERTS 8-TRACK STEREO

SINGLE OR DUAL TUBE AC. POWERED PHOTOFLASH CCT FOR USE WITH FLASHTUBE (XENON TUBE)

DYNAMIC COMPONENT TESTER THAT SUPPLIES CURRENT-LIMITED SINE WAVE TO DEVICE & DISPLAYS RESULT
SINGLE-CHIP MICROCONTROLLER PROGRAMMER USING ICE51 HARDWARE AS CONTROLLER, INCLUDING VOLTA

SINGLE READOUT CHANNEL USING SGS HYBRID CHIP CONSISTING OF AMP., DISCRIMINATOR, DIGITAL 1 SHOT, S
SINGLE STAGE PREAMP. FOR SGS D779 BASED READOUT ELECTRONICS/SAME USING FASTER TRANSISTORS & I

CONTROL-DESK KEYBOARD CCT/UP. BOARD/VIDEO DISPLAY & UHF. MODULATOR/UART., ADC. & ENTER LATCH/F
SENSOR CONTAINING LED.-PHOTOTRANSISTOR PAIRS THAT FIND OUT IF LIGHT PATH IS BLOCKED/CCT USING PH

HANDY LITTLE CCT THAT ALLOWS OSCILLOSCOPE TO BE USED AS PRECISION CAPACITANCE METER

IGNITION CONTROLLER COMPOSED OF LV. DC. SUPPLY & HV. PULSE TRANSFORMER

BANDPASS FILTER FOR VOICE-BAND SPEECH PROCESSING, USING ANALOGUE POTENTIOMETER WITH DIGITAL C

CONSTANT CURRENT SOURCE

CONTROL CCT INCLUDING CLOCK, CPU., EPROM. & MUX.S/DECODER, RAM. DATA LATCHES & CONNECTORS FOR CONVERTER USING CHERRY RESONANT-MODE PS. IC, THAT REGULATES BY SHIFTING OSCILLATION FREQUENCY

CONSTANT VOLTAGE CHARGING CCT

SUN TAAC-1 GENERIC GRAPHICS APPLICATION ACCELERATOR/ACCELERATOR'S PROCESSOR SECTION USING T

CONNECT-4 GAME USING UP. TO RUN PROGRAM STORED IN EPROM, INCLUDING PUSH-BUTTON AS INPUT DEVICE

MINIATURE 8-BIT UP. (COMPUTER) SYSTEM BASED ON Z80 CPU., WITH IO. (2X8 BIT IO. & 2X8 BIT OUTPUT), EPROM

CONSTANT-CURRENT SUPPLY USING 3-TERMINAL 5V VOLTAGE REGULATOR CHIP, USED TO TEST INCANDESCENT

MINIMAL CMOS. 8-BIT UP. SYSTEM, USING CMOS. RAM.S, EPROM., PROGRAMMABLE CLOCK-TIMER, & 8-BIT ADC. T

SINGLE-BOARD UP.-BASED SYSTEM AVAILABLE FOR G-64 BUS, INCLUDING 8536 COUNTER IO. (CIO), SRAM., EPROM

SINGLE-CHANNEL, UP.-BASED DATA-ACQUISITION UNIT TO ALLOW READINGS FROM PARALLAX BAR TO BE SENT

CONTROL BOARD OF STERILISING OVEN

BANDPASS FILTER FOR TELEPHONE-BAND SPEECH PROCESSING, USING XICOR ANALOG POTENTIOMETERS THA

TONE DECODER BOARD INCLUDING AUDIO MIXER-AMP., DTMF. (TOUCHTONE) DECODER, 4 TO 6 LINE DECODER, KANTRONICS TNC. (PACKET COMMUNICATOR) THAT COMMUNICATES WITH COMPUTER VIA RS-232 OR TTL. SIGN

CONTROLLER FOR VARIABLE-VOLTAGE, SINGLE-PHASE PWM. INVERTER USING EPROM. VERSION OF 2920 SIGNAL

MONOSTABLE/ASTABLE/CCT FOR TIMING APPLICATIONS/CCT SHOWING OPERATION WITH EXTERNAL CLOCK

SINGLE-CHIP VOLTAGE-CONVERTER INTERFACE TO PROVIDE RS-232-C VOLTAGE LEVELS

CONTROL DEVICE (ELECTRONICALLY DIRECTED WATER LEVEL REGULATOR) WITH ADJUSTABLE DETECTOR SEN

HAND-HELD 1.2GHZ DIGITAL FREQUENCY COUNTER WITH GOOD SENSITIVITY & MINIMAL COST

SINGLE CHANNEL OF ELECTRONIC CARD

NONLINEAR SWITCHED-CAPACITOR CCT THAT GENERATES CHAOTIC SIGNALS, FOR USE AS WHITE NOISE GENER

SYNCHRONIZATION CCT TO CONTROL DATA DETECTION, COUNT & STORAGE, FOR USE IN POLARIZER, USING LA

CONVERTER TO UPGRADE SCANNER THAT COVERS FREQUENCIES IN 400-500MHZ RANGE TO RECEIVE SIGNALS

MINIMUM SYSTEM CONSISTING OF MPU. CHIP & ASSOCIATED ROM., WHICH INTERFACE WITH PERIPHERALS (BB

CONTROL SYSTEM FOR ELECTROSTATIC ANALYZER/DIGITAL PS. CONTROL/ELECTROSTATIC ANALYZER FEEDBA

GENERAL-COVERAGE RECEIVER (2)/DUAL-LOOP SYNTHESIZER SECTION OF GENERAL-COVERAGE RECEIVER US

CONTROL CCT TO STOP CLOCK & DOCUMENT TIME OF RADIATION EVENT, INCLUDING PS. (2)/DEMODULATOR CO

LINE RECEIVER/SUMMING CCT/DISCRIMINATOR & DAC./REFERENCE-VOLTAGE SOURCE/FF.S & LINE DRIVERS, & I

IONIZATION-CHAMBER SMOKE DETECTOR

NONCONTACT-TYPE ELECTROSTATIC VOLTMETER TO MEASURE POTENTIAL AS LOW AS 1V, & HV.S ALSO WITHO

CONDUCTANCE METER FOR MEASUREMENT OF ELECTRICAL CONDUCTIVITY OF FOODS, INCLUDING WIEN OSCIL

GENERAL-PURPOSE, 1-IC AUDIO AMP. USING TOSHIBA IC, INCLUDING VOLUME CONTROL & GAIN SET USING SER

NONLINEAR ELEMENT (PIECEWISE-LINEAR RESISTOR) OF DRIVEN PIECEWISE-LINEAR CCT/CCT TO PRODUCE LIM

RANDOM PULSER BASED ON INTEGRAL TYPE OF MEAN RATE CONTROLLER USING REVERSIBLE COUNTER & DAC

CAN HANDLER CONTROL BOARD IN HEADER CONTROL BOX, INCLUDING PRESET UP-DOWN COUNTER, DAC. & SE

MINIMAL 4-OUTPUT TEST CCT USING PAL.S & TTL. LOGIC, CONTAINING ALL CRITICAL SIGNAL PATHS PRESENT IN

SYNTHESIZER THAT PRODUCES STEREO SOUND FROM MONO OUTPUT OF TV. RECEIVER OR VCR.

CONTROL MODULE THAT GENERATES VOLTAGE LEVELS PROPORTIONAL TO BEAM INTENSITY, USING DIVIDERS

CONSTANT-TEMPERATURE ANEMOMETER/FREQUENCY MODULATOR (FM.)/PLL. DEMODULATOR

DYNAMIC AUDIO NOISE FILTER/PS.

SYNC REGENERATOR (DECODER) TO RESTORE USABLE SYNC TO ALMOST ANY "DEFECTIVE" VIDEO SIGNAL WITH

TUNEABLE CRYSTAL OSCILLATOR USING NOVDRAM. & DAC./PROGRAMMABLE VOLTAGE REFERENCE/SELF-CALIBR

FUNCTION GENERATOR TO SYNTHESIZE SINE WAVE FROM TRIANGLE/CCT TO USE SQUARE-LAW RESPONSE OF

FINAL SECTION OF DIGITAL POLYPHONIC KEYBOARD, PERFORMING DAC., INTERFACING & AUDIO PROCESSING,

SINGLE-AMP. Sallen-Key 2ND-ORDER ACTIVE BANDPASS FILTER CCT WITH PASSBAND GAIN OF UNITY & CENTE

CONSTANT-CURRENT SOURCE & NULL CCT, THAT MAINTAIN HALL-PROBE ACCURACY & CALIBRATION, USING VO

TINY 80M RECEIVER THAT PULLS IN W1AW & FITS IN PALM OF HAND, BUILT AROUND TV. COLORBURST CRYSTAL

LINEAR IC TEST LOOPS

LINEAR, INVERTING AMP. FOLLOWED BY DIFFERENTIATOR (HIGH-PASS FILTER), USING OA.S
 NONINVERTING, UNITY-GAIN CONFIGURATION FOR OA./45MHZ UNITY-GAIN BUFFER BASED ON 600MHZ OA./CCT U
 LINEAR THERMISTOR-BASED TEMPERATURE-FREQUENCY CONVERTER USING DELAY NETWORK
 SINGLE-CHIP SYNC-SWEEP CCT USING TV. SYNC-SWEEP GENERATOR IC, FOR 525-LINE TV.S, MONITORS & VIDEO
 SINE WAVE QUADRATURE OSCILLATOR (FREQUENCY GENERATOR) TO PROVIDE ROTATING FIELDS UP TO 120MH
 SYNTHESIZED TV. MODULATOR THAT PROVIDES 5.5 & 6MHZ SOUND, & CAN BE ACCURATELY SWITCHED TO ANY
 TANDEM MATCH ACCURATE DIRECTIONAL WATTMETER THAT MEASURES POWER FROM 1.5 TO 1500W, & SWR. O
 CONTROLLER FOR AUTO-INJECTOR, TO CHECK FOR READY STATES ON SIGMA 10, COLUMN OVEN LED. & STAND
 CONTROL ELECTRONICS FOR STM., INCLUDING ACTIVE RECTIFIER, LOG AMP., INTEGRATOR & DAC. SUMMING AM
 TUNED RF. PREAMP./SIMPLE GATED RF. POWER AMP. USING DOUBLE TRIODE, WITH BOTH VALVE HALVES LATCH
 LINEAR-RESPONSE SILICON DIODE TEMPERATURE SENSOR & SIGNAL CONDITIONING CCT (DIGITAL THERMOMET
 SINE WAVE CONVERTER BASED ON OTA., TO CONVERT SYMMETRICAL TRIANGULAR VOLTAGE INTO SINUSOIDAL
 SINGLE-RESISTANCE-CONTROLLED OSCILLATOR (SRCO) USING SINGLE IC CURRENT CONVEYOR (CC) WITH ON-
 LONG-TIME-CONSTANT INTEGRATOR
 CENTROID FINDING FILTER & ZCD., INCLUDING DELAY LINE, TRANSCONDUCTANCE AMP.S IN INTEGRATOR, & ZEP
 PIN DIODE PI ATTENUATOR WITH BLOCKING CAPACITORS & ISOLATING INDUCTORS/CURRENT-CONTROL CCT TO
 SYNTHESIZER VCO. & POWER CHANGE-OVER SWITCHING (2)/LOGIC INCLUDING PLL. SYNTHESIZER & PRESCALE
 CONTROLLER TO AUTOMATICALLY CONTROL TEMPERATURE OF CRYSTAL-GROWING SOLUTION, USING THERMIS
 MONOLITHIC BROADBAND 0.1-6GHZ LOW-NOISE-&-POWER GAASFET. AMP./MONOLITHIC BROADBAND 2-20HGZ GA
 SINE-TO-SQUARE-WAVE CONVERTER FOR SHAPING RECEIVER LO. SIGNAL, USING MINI-CIRCUITS OR AVANTEK M
 CONTROLLER TO CONTROL NUMBER OF WAVES, PHASE ANGLE, & END OF WAVE AS "ZERO CROSSING", INCLUDI
 TANK CCT-4.2 K GAASFET. PREAMP. SECTION OF SQUID. MAGNETOMETER, USING PLESSEY GAAS. VARACTOR D
 NONLINEAR CCT OF NARROWBAND HIGH-GAIN 2ND-ORDER PLL. WITH SAWTOOTH PHASE DETECTOR, TO REDUC
 SINGLE-SUPPLY (5V) 1KHZ FILTER USING MAXIM 5TH-ORDER BESSEL LPF. WITH CONSTANT GROUP DELAY FOR M
 PINK-NOISE GENERATOR, MOS. OA.
 SYNCHRONIZATION & FUNCTION SWEEPING (ADDRESSING) CCTS, INCLUDING PLL. FREQUENCY MULTIPLIER (BB
 BANDPASS FILTER OF APPARATUS TO ANALYZE PARAMETERS/SECTION OF APPARATUS, INCLUDING 2-THRESHO
 CONSTANT TEMPERATURE PS. USED WITH CUP ATOMIZER, USING TRIAC TO SWITCH MAINS CURRENT THROUGH
 MINIATURE, VERSATILE SOUND EFFECTS UNIT FOR TAPE RECORDING, USING 4 FREE-RUNNING MULTIVIBRATOR
 LINE-POWERED 5V SUPPLY/UNINTERRUPTIBLE POWER SOURCE/ISOLATED-OUTPUT SUPPLY
 SENSE WIRE PREAMP.
 BANK OF 4 DUAL-PORT RAM.S THAT CONNECT 32-BIT 80486 TO 16-BIT 68000, MEDIATING DIFFERENCES IN BUS W
 CONTROL BOX INCLUDING TRANSFORMER, BRIDGE RECTIFIER & ROTARY SWITCH, TO CONTROL RELAY BOX TH
 SINE SQUARED WAVEFORM GENERATOR USING PROM., COUNTER & MONOSTABLE MULTI VIBRATOR, TO GENER
 SENSITIVE AMP. BASED ON 2W AUDIO OA., POWERED FROM 9V BATTERY, TO AMPLIFY SOUNDS IN FISH TANK VIA
 SINE GENERATOR FOR PRODUCING VECTORS, BY SQUARING & SUBTRACTION OF INPUT WAVE FROM ITSELF
 SINGLE MEMORY SYSTEM USING MIXTURE OF EPROM. TYPES BY SELECTING PROPER ADDRESS LINES BY TABL
 TUNABLE 2-TRANSISTOR FEEDBACK OSCILLATOR WITH WIDE TUNING RANGE, USING L & C NETWORK TO SET DE
 SENSING CCT USING ANALOG DEVICES HYBRID CHIP & RTD./CONTROL CCT INCLUDING THERMOELECTRIC MODU
 MONOSTABLE MULTIVIBRATOR IN BUFFER CONFIGURATION WITH EXTERNAL ELEMENTS TO MAKE CRYSTAL-OSC
 SINEWAVE TV. DESCRAMBLER THAT REMOVES 15.75KHZ SCRAMBLING SINEWAVE/INPUT-OUTPUT CCT THAT IS M
 LINE & FIELD CONVERGENCE CCTS IN PYE HYBRID COLOUR TV. SETS (2)/TUBE DEGAUSSING (DEMAGNETISING)
 MANUALLY TUNED HEADPHONE RADIO RECEIVER USING MOTOROLA LOW-COST AM.-STEREO RECEIVER IC THAT
 FUNCTION GENERATOR THAT PROVIDES SINE-, TRIANGLE- & SQUARE-WAVE OUTPUTS FROM <1HZ TO >250KHZ,
 CONTROL CCT OF CCT USING SINGLE-CHIP MICROCOMPUTER, FOR MODEL RAILROAD LOCOMOTIVES/POWER-O
 KINEMATICS FBA-1 FORCE BALANCE ACCELEROMETER INCLUDING MODULATOR & DEMODULATOR UNIT
 DYNODE CHAIN (DIVIDER NETWORK) USED WITH PMT., VIA WHICH INTER-DYNODE VOLTAGES ARE SUPPLIED BY
 CONTROL CCTS OF MOTOR-DRIVEN SYSTEM USING OBSERVER & REGULATOR REALIZED BY DSP., & VEHICLE MO
 SENSING & SIGNAL CONDITIONING (PROCESSING) CCT, USING PIEZO-RESISTIVE STRAIN GAUGES AS SENSING E

CONTENT-ADDRESSABLE MEMORY USING CACHE-TAG RAM., THAT ACCEPTS DATA WORD IN BIDIRECTIONAL 16-BIT
RING-OF-3 MICROPHONE CHANNEL AMP./MIXER SUMMING AMP./VU METER CCT/TONE CONTROL CCT BASED ON
BAND SCAN CCT FOR KENWOOD TS-930S RADIO, TO MONITOR PRESET SECTIONS OF A BAND/SCAN CCT/RESET
HAND-HELD DVM. USING 3.5-DIGIT SINGLE-CHIP ADC. WITH ON-BOARD LCD. DRIVERS, TO MEASURE DC. & RF. VO
LINE-POWERED FEATUREPHONE BASED ON SPEAKERPHONE IC/HANDSET RECEIVER/AUTOMATIC DIALER/CCT TO
NON-INTERRUPT, REMOTE, RTC. WITH 8 DIGIT ACCURACY, USING INTERSIL STOPWATCH CLOCK CHIP, INCLUDING
CONTROLLER TO PERFORM FREQUENCY LABELING & SEARCHING FUNCTIONS, TO MARK & ISOLATE TAPE SEGMENT
MANOMETER USING PRESSURE TRANSDUCER/PRESSURE SWITCH FOR MOTOR CONTROL/PRESSURE-TO-FREQUENCY
MINIATURE HV. DC. GENERATOR FED BY 12V DC. PS. THAT IS MAGNIFIED TO PROVIDE 10000V DC. OUTPUT, USING
CONTROLLER INCLUDING REFERENCE MODEL, CCT FOR GENERATING FAST CONTROL LAW, & SWITCHING MECHANISM
CENTER-WOOFER CROSSOVER

LINE-INTERFACE TRANSMISSION CCT USING TRANSCODER IC/T1 INTERFACE USING LINE-INTERFACE TRANSCODER
MINIMUM-PARTS-COUNT DRIVE FOR 0.1-HORSEPOWER DC. BRUSH MOTOR, USING BRUSHLESS CONTROLLER DRIVEN
SINGLE-DIGIT, 7-SEGMENT LCD. DRIVER CCT INCLUDING 32 TO 40HZ OSCILLATOR & EXCLUSIVE-OR LOGIC GATES
CONTROL CCT OF HIGH POWER DENSITY CONVERTER, BASED ON HF. PWM. CONTROL IC'S, INCLUDING 12MHZ C
PIN DRIVERS & VERIFY CCTS/PROGRAMMABLE VOLTAGE GENERATOR CCTS/IBM PC. INTERFACE TO ZAP-A-PAL.
CONTROL CCT FOR MOTOR TO DRIVE EPSON-723 MICROPRINTER

CONTROL CCT INCLUDING SSR., & ELECTRONIC DELAY TO ALLOW DIFFERENTIAL PRESSURE SWITCH TO CLOSE
LINE INTERFACE WITH RING DETECTION, TO MONITOR OFF-HOOK & RING SIGNALS, WHILE PREVENTING ERRORS
LINEAR AMP. & DISCRIMINATOR, INCLUDING OUTPUT BUFFER/1 OF 32 CODE BUSES WITH UP TO 512 SIGNALS OF
RING CONVERTER USING RING DETECTOR-DRIVER IC, TO ALTER RINGING SOUND OF YOUR TELEPHONE TO DISTINGUISH
CONTINUITY TESTER FOR TRACING WIRING ON PCB.S, THAT CONSUMES APPRECIABLE POWER ONLY WHEN TESTING
NONPERTURBING THERMOMETER USING INTERSIL ADC. & BSD HIGH-RESISTANCE TEMPERATURE PROBE, INCLUDING
MINIMUM-COMPONENT VERSION OF MUX.ING DEMONSTRATOR, INCLUDING DECODER-DRIVER, BCD. COUNTER-DRIVER
"INTELLIGENT" BATTERY-CHARGER (CHARGING) CCT INCLUDING SECTION THAT MONITORS & CONTROLS CHARGING
SINGLE-LOOP CONTROL CCT FOR PWM. (POWER) CONVERTER

FUN-TO-BUILD MINI MUSIC SYNTHESIZER TO TURN YOUR VOICE INTO VERSATILE MUSICAL "INSTRUMENT"
SYNCHRONIZATION CCT USING 2V PEAK-TO-PEAK 41MHZ SYNC SIGNAL OF MODE-LOCKER DRIVER & 6V LAMP OUTPUT
LINE-SYNCHRONIZED PULSE GENERATOR
SYNTHESIZED RF. GENERATOR
CONTINUITY TESTER

NON-VOLATILE STORE TO HOLD SYSTEM STATE FOR REAL-TIME COMPUTER
KENWOOD TH-21AT 2M HAND-HELD TALKIE (BBB)
GENERAL-PURPOSE IO. BOARD CONSISTING OF PPI. CHIP & 3 BUS-DRIVER CHIPS/8K BYTE ROM. CARTRIDGE
TONE-RINGER CCT WITH DELAYED-ON FEATURE/AF. SWEEPER CCT IN WHICH TONE RINGER VARIES FREQUENCY
CONTROL CCT FOR HF. JET VENTILATION, TO INTERRUPT GAS FLOW TO NEEDLE BY SOLENOID VALVE, WITH SETPOINT
CONSTANT CURRENT SOURCE THAT SUPPLIES 0 TO 20MA EXCITATION TO WHEATSTONE BRIDGE CONTAINING M
FUNCTION GENERATOR USING PLL., TO PRODUCE SQUARE & SINE OR TRIANGULAR WAVES FROM 20HZ TO 18MHZ
CONTINUALLY OPERATING SWITCH WHOSE ON & OFF TIMES ARE INDEPENDENTLY SETTABLE FROM SECONDS TO
HAND-HELD CONTROL UNIT/MOTOR CONTROL UNIT (2)/CCT TO PRODUCE DIGITAL PULSES FROM SHAFT ENCODER
SINGLE CHANNEL OF COMPUTER INTERFACE THAT PERMITS INPUT OF NEURONAL SPIKE TRAINS (DATA) TO COM
CONTROLLED-CURRENT ELECTROPHORESIS PS. WITH 0-90MA CONTROLLABLE DC., USING 120V, AC. POWER, WITH
CONDUCTIVITY-TYPE LOCAL VOID MEASUREMENT SYSTEM FOR 2-PHASE (AIR-WATER) FLOWS, USING BRIDGE, E
CONVERTER WITH IMPROVED EFFICIENCY, USING RECTIFIED OUTPUT DERIVED FROM INPUT WINDING, REDUCING
CONDENSER MANOMETER CCT USED FOR DYNAMIC PRESSURE MEASUREMENTS

CENTRONICS-TO-TELETYPEWRITER INTERFACE TO DRIVE TELEPRINTER FROM MICROCOMPUTER/CCT TO RAISE
BAND-PASS FILTER WITH 1 SERIES COIL (INDUCTOR) COMPENSATED FOR LOSSES, FORMING PART OF MULTISECTION
CONTROL CCT THAT CONTROLS MOVEMENT OF SHUTTER BLADE, CONSISTING OF 2 TIMERS THAT DETERMINE TIME
MONITOR CONTAINING LED. THAT LIGHTS WHEN MAINS FUSE BLOWS, INCLUDING TRANSISTOR THAT CONDUCTS

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CONDUCTIVITY-TYPE LOCAL VOID MEASUREMENT SYSTEM FOR 2-PHASE (AIR-WATER) FLOWS, USING BRIDGE, E
CONVERTER WITH IMPROVED EFFICIENCY, USING RECTIFIED OUTPUT DERIVED FROM INPUT WINDING, REDUCING
CONDENSER MANOMETER CCT USED FOR DYNAMIC PRESSURE MEASUREMENTS

GENERAL-PURPOSE PREAMP. THAT USES ACTIVE AUTOBIASING & RUNS WITH SUPPLIES FROM 1.2 TO 12V
CENTRAL MODULE MICROCOMPUTER (BBB)/LOW COST VFC. USING TIMER, TO DRIVE LED. TRANSMITTER IN FIBR
CONSTANT-CURRENT COULOMETER BASED ON VOLTAGE REGULATOR IC/SYNCHRONIZED GATE TO GENERATE
RING COUNTER & PAUSE PERIOD TIMER/PULSE MARKER OF CCT FOR TRACE IDENTIFICATION, INCLUDING INITIA
FUNCTION GENERATOR USING WAVEFORM GENERATOR (2)/TOUCH SWITCH/TELEPHONE ANSWERING DEVICE/B
FUNCTION GENERATOR USING WAVEFORM GENERATOR IC, WITH RANGE FROM 10HZ TO 100KHZ, CONSTANT O
SINGLE-OA. CCT THAT GENERATES TEMPERATURE-STABLE CURRENT- & VOLTAGE-SOURCE OUTPUTS THAT TRA
CONTROLLED VOLTAGE GENERATOR USING DAC. TO DETERMINE OUTPUT VOLTAGE OF REGULATOR
BANDPASS FILTER USING STATE-VARIABLE FILTER WITH RESISTORS REPLACED WITH DAC.S/TTL.-OUTPUT COM
TUNNEL DIODE TEST CCT INCLUDING SENSING AMP. & BIAS CCT/TEST (PROTOTYPE) DISCRIMINATOR USING SEN
SYNCHRONOUS SQUARE-SINE WAVEFORM GENERATOR USING VCO. (INCLUDING PHASE COMPARATOR), WHOS
CONTROL & CCD. READING CCT USING 8-BIT ADC., TO COUPLE 256-PIXEL LINEAR SENSOR WITH MICROCOMPUT
HAND-HELD VOICE-BAND SPECTRUM ANALYZER USING DSP., ADC.-DAC. & EPROM., TO DISPLAY FREQUENCY CO
LINEAR GAIN AMP. TO AMP. ANALOG SIGNAL FROM 50MV TO 10V FULL SCALE, USING PROGRAMMABLE GAIN AMP
LINEAR-SENSOR WATER DETECTOR INCLUDING OSCILLATOR, TRANSFORMER DRIVERS, THRESHOLD DETECTOR
CONTROLLER OF DC. MOTOR SPEED CONTROL SYSTEM, INCLUDING CPU. (UP.), EPROM., ADC., FIRING PULSE AM
CONTROLLER TO AUTOMATICALLY SWITCH BACKUP BATTERY ON LINE FOR 10MIN (IF MAINS POWER FAILS), AFT
SYNCHRONIZATION CCT TO MATCH SIGNALS IN CCTS TO INPUT SIGNAL/AUDIO (AF.) CCTS WHOSE INPUT ENAB
SINE-WAVE GENERATOR USING MICROCONTROLLER, EPROM. & DAC. (2)/LPF. (2)/3-PHASE SINE-WAVE GENERAT
CONTROL ELECTRONICS & INTERFACE TO FT.-IR. SPECTROMETER, INCLUDING PRECISION IA. TO AMPLIFY LOAD
SINE-WAVE GENERATOR THAT SYNTHESIZES AUDIO SINE WAVES, USING MUX. TO ROUTE CURRENTS IN AMPLIT
BINARY WEIGHTED DAC.S USING BINARY LADDER (2)/UNIPOLAR & BIPOLAR D-A DAC.S (2)/BCD.-TO-ANALOG CON
SINGLE-TONE QSO BEEPER TO PROVIDE END-OF-TRANSMISSION TONE/DUAL-TONE BEEPER TO PRODUCE EITHE
CONTROL CCT TO DELIVER EXTERNAL TORQUE TO PENDULUM, INCLUDING DAC.S & OA./DATA-ACQUISITION INTE
MONAURAL (MONOPHONIC) AMP. USING AUDIO-AMP. IC TO PROVIDE 30W PEAK (15W RMS.) OF POWER TO DRIVE
MINIATURE DAS. FOR COMPUTER INTERFACING, THAT SCANS 16 ANALOG INPUT CHANNELS AT 250KHZ RATE & C
SENSOR INTERFACE CCT USING SYNCHRONOUS-DETECTION SCHEME TO MEASURE RESISTANCE OF RTD.S WITH
SINGLE-SUPPLY 5V VFC. WITH $\pm 0.02\%$ NONLINEARITY OVER 0.5MV-TO-0.5V RANGE, USING JFET.-INPUT OA. & VF
PENDULUM & CCT THAT AMPLIFIES VOLTAGE INDUCED IN PICK-UP COIL & FILTERS IT WITH BUTTERWORTH FITE
BINARY KEYPAD ENCODER USING MUX., THAT DOES NOT NEED SWITCHES DEBOUNCED FOR BINARY ENCODING
RANGEFINDER INCLUDING OSCILLATOR & FREQUENCY DIVIDERS, GATING UNIT, TRANSMITTER STAGE, RECEIVE
BANDPASS FILTERS (2)/CRYSTAL FILTER/10MHZ & 20MHZ CRYSTAL OSCILLATORS (2)/WIEN-BRIDGE OSCILLATOR
LINE-IN-USE INDICATOR THAT SENSES VOLTAGE ACROSS TELEPHONE LINE, TO KEEP OTHERS FROM BARGING I
CONVERTER
BENCH AMP. FEATURING ADDITIONAL, SELECTABLE GAIN, GAIN BALANCING TO MATCH CHANNELS, SUBTRACTIO
BANDPASS & LPF.-AMPLIFICATION CCT, TO SPLIT SIGNAL FROM PAR 181 I-V CONVERTER INTO AC. & DC. COMPO
GENERATOR TO PRODUCE SQUARE WAVE WITH VARIABLE AMPLITUDE FROM 0-1000V & FREQUENCY OF 120KHZ
SINGLE CMOS. IC PWM.
LINEAR, ACCURATE VOLTAGE-CONTROLLED CONDUCTANCE/VOLTAGE-CONTROLLED RESISTOR, USING GYRATO
FUNCTION GENERATOR USING ANALOGUE SHAPING TECHNIQUES TO PROVIDE TRIGONOMETRIC FUNCTIONS & I
FUNCTION GENERATOR-DVM. USING 16-BIT DAC. & LINEAR-VCO./PHASE SHIFT DETECTOR
NONLINEAR LPF.
NON-LINEAR RAMP (LOGARITHMIC) TIME-BASE GENERATOR THAT VARIES RATE OF INTEGRATION OF OA. INTEG
CONTROL BOARD OF SYNTHESIZED RF. SIGNAL GENERATOR, USING PROGRAMMABLE DIVIDE-BY-N COUNTER TO
CONTROL AMP. CONSISTING OF BIASING PS. TO POSITION DRIVER RAM, DUAL INPUT IA. & POWER AMP. THAT DE
SINUSOIDAL 3HZ TO 300KHZ VCO. USING TRIGONOMETRIC FUNCTION GENERATOR TO CONVERT TRIANGLE WAV
MINIATURE ELF. ELECTRIC FIELD (E-FIELD) PROBE AMP. USING OA. WITH HIGH INPUT IMPEDANCE & LOW BIAS CU
CONTROL CCT THAT OPERATES 2 INDEPENDENT STEPPER MOTORS, 1 AT A TIME, INCLUDING COUNTERS THAT F
LINEAR THERMOMETER USING TRANSISTOR SENSOR/SAME USING DIODE SENSOR/+7V LOW-CURRENT PS.

FUNCTIONAL & DYNAMIC PIN DRIVER/FUNCTIONAL PIN DETECTOR USING DUAL OA.S/DYNAMIC PIN DETECTOR/S
 PANPOT THAT STEERS MONOPHONIC SIGNAL INTO 2 CHANNELS, USING TRUE-COMPLEMENT BUFFER IN DAC., &
 CONTROLLING ELECTRONICS (BBB)/FEEDBACK LOOP INCLUDING ELECTROMETER GRADE OA., IA., LOG AMP. & M
 MINIMUM SYSTEM CONFIGURATIONS FOR DAS. (CONTAINING RAM., ADC. & MUX.) INTERFACED WITH UP.S (2)/STA
 CONTROL LOGIC & DATA BUS BUFFER/12-BIT DATA ACQUISITION UNIT WITH 16 INPUT CHANNELS PROTECTED TO
 ZENER ZAP CCT USING HV., HIGH-CURRENT ELANTEC DRIVER, USING CAPACITOR-DISCHARGE TECHNIQUE WHIL
 FINE DELAY UNIT TO PRODUCE DELAYS OF 0-10NS TO INTERPOLATE BETWEEN 10NS SPACINGS FROM 100MHZ C
 CONSTANT CURRENT GENERATOR FOR THERMISTOR/RANDOM NOISE GENERATOR & SUMMING AMP./CCT FOR T
 SINUSOIDAL FREQUENCY DOUBLER & FULL-WAVE RECTIFIER CCT, USING CMOS. TRANSISTORS, & CHARACTERIS
 CONSTANT-CURRENT SOURCE FOR RF. P-I-N DIODE ATTENUATOR, USING MDAC. & MOSFET.S (BBB)
 SINGLE-BOARD SPIKE SORTER SYSTEM USING UP. CCT INCLUDING DAC., RAM. & EPROM., & 12-BIT ADC., SH., & A
 SINGLE-CONVERSION RECEIVER SECTION/TRANSMITTER MODULE CONTAINING RF. CCT & SWITCHING FOR SEM
 SYNCHRONISING & GATING CCTS/CCT FOR CONTROLLING INSERTION OF SERIES RESISTOR IN EACH PHASE OF
 SINGLE-STUB MATCHED NARROW-BAND MICROWAVE AMP. USING NEC FET. & MICROSTRIP TECHNIQUES
 LINE INTERFACE CCT FOR ISDN. TERMINAL, INCLUDING SIGNAL-PROCESSING CODEC FILTER, COMMUNICATION
 SINGLE-STAGE FREQUENCY-CONVERTER CCT USING MOSFET./SAME, INCLUDING FILTER/RF. CONVERTER USING
 "UNKNOWN SIGNAL" GENERATOR (USG) FOR STUDENTS LEARNING HOW TO USE SCOPE TO MEASURE VOLTAGE
 SINGLE-MODE INVERSION VOICE SCRAMBLER-DESCRAMBLER USING VHF. DBM./PERMANENT MAGNET DETECTO
 TONE ALERT (SIMPLE CONTROL DECODER FOR ARES)
 TONE OSCILLATOR THAT PRODUCES 32 FREQUENCIES BY SWITCHING 5 CAPACITORS ACROSS 44MH TELEPHON
 CONSTANT-SPEED UNIDIRECTIONAL MOTOR DRIVE/BIDIRECTIONAL MOTOR CONTROLLER/POSITION CONTROLLE
 CONVERTER TO PROVIDE ACTIVE WHIP PREAMPLIFICATION OF INCOMING VLF. SIGNAL & UPCONVERSION TO 80
 DYNAMIC MIXER THAT MIXES (COMBINES) GAIN-MODULATED SIGNAL WITH GAIN-MODULATING SIGNAL (2 AUDIO
 NONINVERTING INTEGRATOR WITH VOLTAGE-PROGRAMMABLE TIME CONSTANT/0.1-100KHZ FILTER
 BANDPASS FILTER CCT USING FILTERS USING 4TH-ORDER BUTTERWORTH FILTERS/AMP./PEAK-HOLD CCT/LOGIC
 CONNECTIONS FOR SERVO AMP./VARIABLE-PULSE-DURATION MODULATOR (GENERATOR) FOR MINIATURE SERV
 LINE AMP./REVISED LINE AMP./CASCODE LINE AMP. WITH DC. SERVO & 24V REGULATORS/PRE-REGULATOR FOR
 SYNCHRONIZED CHAOTIC CCT WHOSE OUTPUT MATCHES THAT OF DRIVING CCT/DRIVING CCT USING OA.S/SUM
 TUNING INDICATOR TO TUNE IN RTTY. SIGNAL QUICKLY & ACCURATELY ON SSB. RECEIVER/DISPLAY PORTION U
 CONTROL CCT OF INITIAL APPROXIMATION SYSTEM FOR STM./POWER CCT FOR DC. MOTOR, INCLUDING PULSE
 CONNECT BUZZER (BELL-ALARM) CCT THAT CONNECTS TO CONNECT LED. CCT IN TNC., USING DC. SWITCH CON
 SENSING DEVICE TO CONTROL AC. POWER TO SOUND SYSTEM BY SWITCHING OUTLETS WHEN AC. CURRENT FL
 SINE-WAVE GENERATOR/PWM./HIGH-PASS FILTER CONTROLLED BY DAC./LOGARITHMIC AMP.
 PIN PHOTODIODE-BIPOLAR TRANSISTOR (BJT.) LOW-INPUT-RESISTANCE COMMON-BASE OPTICAL PREAMP.
 LINE388 AMP. (SIMPLIFIED VERSION OF RIAA-1 CCT) USING SINGLE PAIR OF INPUT TRANSISTORS & MOSFET. FO
 PIN-OA. OPTICAL RECEIVER WITH 3DB BW. >125KHZ & OPTICAL SENSITIVITY BETTER THAN -54DBM (4NW) AVERA
 NONUNIFORMLY SAMPLING 1ST-ORDER DPLL (DIGITAL PLL.) THAT GIVES CIRCLE MAPS WITH CHAOTIC PROPERT
 SENSITIVE VOLTMETER WITH SWITCHABLE FSD. OF 10MV TO 10VRMS.
 PIN PHOTODIODE (PD) BIPOLAR TRANSIMPEDANCE PREAMP. CONSISTING OF COMMON COLLECTOR FRONT-END
 LINEARIZED TEMPERATURE METER (THERMOMETER LINEARIZING CCT)/CONTROL CCT USING PELTIER DEVICE
 KYNAR FILM APPARATUS & OA. INTEGRATOR OPTIMIZED TO PRODUCE 1V OUTPUT FROM 1V INPUT OF 5MS DURA
 TUNED AMP. USING TRANSFORMER AS INDUCTOR OF TUNED CCT., ENABLING TRANSFORMER COUPLING TO LOA
 CONDUCTIVITY DETECTOR USING CURRENT-TO-VOLTAGE CONVERTER CONSTRUCTED FROM JFET. OA., WHOSE
 LENGTH MEASUREMENT CCT TO ALLOW CELL LENGTH TO BE MEASURED ACCURATELY, USING RETICON RC-100
 SINE-WAVE GENERATOR USING SWITCHED-CAPACITOR FILTER, TIMER OPERATING IN ASTABLE MODE, 2 DUAL B
 DENSITOMETER CONSISTING OF PIN SILICON PHOTODIODE DETECTOR & CURRENT-TO-VOLTAGE CONVERTER
 GENERATOR WITH SQUARE, TRIANGULAR & SINUSOIDAL OUTPUTS/DIGITALLY CONTROLLED PRECISION CURREN
 TEN-TEC MODEL 960 20A 13.5VDC. REGULATED PS./MODEL 705 AMPLIFIED LIGHT-WEIGHT ELECTRET-TYPE DESK
 NONSYMMETRIC MULTIVIBRATOR FOR DIFFERENT SPACE-MARK RATIOS, USING BUFFER AMP., COMPARATOR &

NONINVERTING FEEDBACK VOLTAGE AMP. USING OA. & 2 CURRENT MIRRORS CONSTRUCTED FROM TRANSISTORS
DYNAMIC NOISE FILTER
TUNED UHF.-TV. PREAMP. CONSISTING OF 2 TUNED CCTS & DUAL-GATE MOSFET., WITH 400-800MHZ FREQUENCY
CONTROL LOGIC/ANALOG SWITCH, SH. & NON-LINEAR RT NETWORK SECTIONS OF FREQUENCY METER
NONINVERTING OA. OF GAIN 101 FOR AMPLIFICATION OF DC.-BRIDGE OUTPUTS OF RAT'S NEST CALORIMETER (P
LINE AMP. WITH FLAT GAIN OF 20DB, WITH ACTIVE BALANCE CONTROL IN FEEDBACK NETWORK/TAPE BUFFER S
CONSTANT CURRENT AMP. (STIMULATOR) USING 4 OA.S TO AMPLIFY CONTROL VOLTAGE FROM DAC.S/PULSE G
LINE-POWERED TELEPHONE LINE-ACTIVITY (BUSY LINE) INDICATOR THAT IS CONNECTED IN PARALLEL WITH LIN
SINGLE ENDED TO DIFFERENTIAL CONVERTER/DIFFERENTIAL TO SINGLE ENDED CONVERTER/BOOSTER AMP.
LINEAR PHOTOMETER CCT USING REVERSE-BIASED PHOTODIODE & FET.-INPUT OA., TO MEASURE LIGHT INTENS
CONTROLLER ELECTRONICS FOR GAS CELL OVEN USING NTC. RESISTOR AS SENSING ELEMENT, CONSISTING O
SENSITIVE MARGINAL CLAPP OSCILLATOR USED IN NMR. MEASURING INSTRUMENTS, FOR DETERMINATION OF H
CONRAC FIBER-OPTIC RECEIVER CCT BASED ON NATIONAL SEMICONDUCTOR HYBRID TRANSIMPEDANCE AMP.
LINEAR GATE OF ELECTRONIC CCTS OF 8BE DETECTION SYSTEM CONSISTING OF 16 SOLID STATE DETECTORS
LINK TO DEMONSTRATE INSENSITIVITY TO COIL SEPARATION/PULSABLE 3.5MHZ TRANSMITTER TO TRANSFER 9V
LINE DRIVER OF EQUIPMENT FOR ABSOLUTE CALIBRATION OF TRANSDUCER, PROVIDING FOR DC. BIAS TO CEN
SINGLE-ENDED PROGRAMMABLE-GAIN AMP.S REQUIRING OA. & ANALOG MUX. (3)/DIFFERENTIAL PGA
SINCLAIR SPECTRUM COMPUTER IO. PORT ADD-ON CCT/DARLINGTON POWER TRANSISTOR INTERFACE
TENSION TRANSDUCER USING LIGHT EMITTER DIODE & PHOTORESISTOR TO MEASURE ISOMETRIC CONTRACTI
SENSOR-AMP. CCT (FRONT END) FOR IR. RECEIVER
SENSIBLE REFLEXIVE OPTICAL SIGNALS DETECTOR
SINGLE-FLASH XENON STROBE CCT/XENON STROBE FLASHER CCT
IGNITION & TRIGGERING CCT USING AUTOMOTIVE PARTS & SPARK GAP/POSITION SENSOR CCT (DETECTOR) US
FINAL AMP. SECTION OF FT-101E RADIO, SHOWING MOD. TO REPLACE VACUUM TUBES WITH PENNSYLVANIA TUBES
CONTROL FOR BIFILAR STEPPING MOTOR, WITH HELP OF COMPUTER & TTL. INPUTS RECEIVING GREY CODE SE
CONSTANT CURRENT LAMP SUPPLY TO STABILIZE CURRENT TO MERCURY (HG) PEN LAMP, USING TRANSISTOR
UNNORMALIZED 1MHZ, 7TH ORDER, ACTIVE ELLIPTIC FILTER USING OA.S, TO BE DRIVEN WITH VOLTAGE SOURC
TONE CONTROL CCT, 'BAXANDALL' TYPE/COMPENATED CERAMIC PICKUP INPUT AMP.
BANDPASS FILTER WITH Q OF 15.5 & CENTER FREQUENCY OF 150KHZ, USING 2 SWITCHED-CAPACITOR FILTERS
TUNEABLE LF. SINUSOIDAL OSCILLATOR INCLUDING AMPLITUDE CONTROL USING FET., & BIFET.-TYPE AMP.S
SUN PHOTOMETER INCLUDING HONEYWELL SD3421-002 PHOTODIODE (PD) IN DETECTOR-FILTER ASSEMBLY
TUNABLE FILTER WITH FLAT CHARACTERISTIC, IN WHICH LOW-PASS, BI-QUAD SWITCHED-CAPACITOR FILTER (LF
BANDPASS FILTER THAT ACHIEVES 39DB STOPBAND & 1.25DB RIPPLE, WHOSE CAPACITOR VALUES CAN BE SCA
CENTRAL MODULE USING CPU., ROM., RAM., IO., TIMER & ADC. (BBB)/RH. SENSING MODULE USING ANALOG SWIT
SENSOR DIFFERENCE AMP. USING OA.
CONTROL CCT FOR PUSH-BUTTON OR COMPUTER-CONTROLLED OPERATION OF SOLENOID-OPERATED CASSET
MONOPHONIC CROSSOVER AMP. USING BIFET. OA.
TONE CONTROL CCT THAT TAKES FORM OF EITHER TRADITIONAL BASS & TREBLE ADJUSTMENT OR SHELving T
RING BUFFER CCT USING FIFO. MEMORY FOR STORAGE, THAT CAPTURES & DISPLAYS WAVEFORM ON MONITOR
HANDY TRACKER USING CMOS. TIMER THAT PRODUCES SQUARE WAVE THAT IS AC. COUPLED TO DRIVE PIN TY
SINEWAVE OSCILLATOR WITH CLEAN OUTPUT, FOR USE WITH MAXWELL INDUCTANCE BRIDGE
BANDPASS FILTER USING FIXED-GAIN VIDEO AMP.S, PROVIDING CENTER FREQUENCY 10 TIMES HIGHER THAN E
CONTROL CCT OF EMBEDDED SERVO HARD DISK DRIVE, INCLUDING ADC., MICROCONTROLLER, DAC. & ACTUAT
WINDOW COMPARATOR TO SEND TTL.-COMPATIBLE 100US PULSE WHENEVER SIGNAL FALLS WITHIN VARIABLE I
FUNCTION GENERATOR USING QUAD FET. OA., TO GENERATE SQUARE, TRIANGLE & SINE WAVES AT FREQUENC
LINE-SAMPLING MULTIFRAME STROBOSCOPIC CONTROLLER FOR SEM./INDUCTION NOISE COMPENSATOR ADAP
HANDHELD REMOTE-CONTROL TRANSMITTER THAT CAN SEND UP TO 32 COMMANDS/IR. REMOTE-CONTROL PRE
CONTROLLER TO REPLACE BIMETALLIC HEATING THERMOSTAT TO PROVIDE REMOTE TEMPERATURE SETTING &
SENSOR INTERFACE TO FEED SENSOR OUTPUT SIGNALS TO COMPUTER & PROVIDE PROTECTION AGAINST VOL

Sheet1

SINE-COSINE GENERATOR FOR 0.1-10KHZ

MINIATURE AMP. DESIGNED TO ACCEPT OUTPUT FROM GUITAR & AMPLIFY SIGNAL TO DRIVE HEADPHONES
BANDPASS FILTER (QUADRATURE AM.)

SINGLE CHIP MIXER WITH 3 BALANCED INPUTS

FAN-CONTROLLER CCT THAT AUTOMATICALLY ADJUSTS FAN SPEED TO MAINTAIN CONSTANT TEMPERATURE NE

CONTINUITY TESTER WITH OUTPUT VOLTAGE OF 80MV ACROSS TEST TERMINALS, CONSISTING OF COMPARATO

SINGLE-POLARITY PS. MICROPHONE PREAMP./FUNCTION GENERATOR/DEMONSTRATION WINDOW COMPARATO

SINGLE CHANNEL OF CHARGE-SENSITIVE PULSE DETECTION ELECTRONICS, INCLUDING PREAMP. & AMP.-COMP

LINEAR VOLTAGE REGULATOR WITH OUTPUT CROWBAR SENSE/IMPROVED CCT WHICH, UPON FAILURE OF TRAN

MINIATURE SINGLE-PADDLE KEYS USING 3 SIMPLE CMOS. TIMER STAGES & 5V REED RELAY OUTPUT CCT, FOR

MONOCHROME TV. RECEIVER PS. OF THORN 1500 CHASSIS/MONOCHROME RECEIVER LINE OUTPUT STAGE/LINE

CONSTANT FRACTION TIMING DISCRIMINATOR OF COSMIC RAY TEST SETUP, TO COMPENSATE FOR TIME WALK,

CONTINUITY TESTER THAT GIVES AUDIBLE INDICATION OF RESIDUAL RESISTANCE, WITH 10MV OPEN-CCT VOLTA

CONTROLLING CCT (PHOTOMETER) FOR PHOTODETECTOR, INCLUDING GREEN LED., PHOTOTRANSISTOR, OA., &

SINUSOIDAL OSCILLATOR CONSISTING OF 2 INTEGRATORS & INVERTING AMP., USING OA.S, & 4 LOGIC GATES TO

MINI-POWER AM. TRANSMITTER INCLUDING PREAMP. SECTION USING JFET. OA.S, & BALANCED MODULATOR IC C

CONTROL PCB. WITH SAFETY CCTS INCLUDING SOFTSTART, LOUDSPEAKER PROTECTION, & TEMPERATURE CO

TONE-VOLUME-BALANCE CCT FOR STEREO APPLICATIONS IN CAR RADIO, TV. & AUDIO SYSTEMS

SYNC GENERATOR/HORIZONTAL & VERTICAL SAWTOOTH RAMP GENERATORS/RAMP AMP./ELECTRON GUN SUPP

SENSITIVE CURRENT METER (MICRO METER)

CONTROL STORE-SEQUENCER CCT THAT CAN BE TESTED BY USE OF AM29818 SERIAL SHADOW REGISTERS (SS

SINGLE CHANNEL CCT OF ELECTRONIC CARD, INCLUDING HIGH GAIN (X400) VOLTAGE PREAMP. & BUFFER TO DR

MINI-AMP. WITH 46DB (200 TIMES) OF GAIN & OUTPUT POWER OF ~0.5W INTO 8OHM, USING 9V POWER SOURCE &

CONTROL HEAD OF IC-280 TRANSCEIVER, SHOWING UP. & CONTROL INPUT CCT, INCLUDING CHOPPER REGISTE

LINEAR AMP.S & COMPENSATING PROBES, INCLUDING CURRENT & VOLTAGE SOURCES, X10 GAIN AMP. & RECTIFI

CONDUCTIVITY MEASURING SYSTEM CONSISTING OF HIGH INPUT IMPEDANCE DIFFERENTIAL AMP. WITH STABLE

TONE-GENERATOR CCT TO TRACK CABLES ELECTRONICALLY USING SIMPLE OSCILLATOR THAT GENERATES TO

HANDY, INEXPENSIVE, EASY-TO-BUILD AUDIO OSCILLATOR WITH FREQUENCY RANGE FROM 30HZ TO 25KHZ, USI

CONTROLLER USING QUAD OA. IC INCLUDING PORTION THAT INCORPORATES OFFSET, PORTION THAT AMPLIFIE

CONSTANT CURRENT SOURCE TO CONNECT TO P-N JUNCTIONS (BASE, EMITTER) OF SILICON & GERMANIUM TR.

SYNC SPLITTER USING SYNC-SEPARATOR IC TO PRODUCE COMPOSITE HORIZONTAL & VERTICAL SYNC/SYNC SI

LINE GENERATOR CCT OF PC.-BASED SYSTEM TO TEST HARDNESS OF COMPRESSED NATURAL GAS (CNG) BOT

TUNING INDICATOR, SHOWING INTERCONNECTIONS WITH R-2000 RECEIVER'S PLL. UNIT, TO MEASURE CW., RTTY

VANE DRIVE SYSTEM USING CONTROL LOOP TO PRODUCE STEADY SINUSOIDAL DRIVE SIGNAL & DC. STABILIZA

CONTROLLER TO PROVIDE TEMPERATURE REGULATION TO WITHIN 0.5DEG F BY PHASE CONTROL, USING PWM.

SENSOR USING RED LED. & NIR. EMITTER AS NARROW-BAND DETECTORS TO SENSE PRESENCE OF GREEN VEG

TINY VHF. BEACON TRANSMITTER FOR 146.565MHZ, INCLUDING RF. & PULSING CCTS, USING COLPITTS CRYSTAL

CONCENTRIC 2-LOOP SURFACE COIL OF WHICH LARGE LOOP IS TRANSMITTER & SMALL LOOP IS RECEIVER, USI

RANDOM PULSER WITH HIGH STABILITY & WIDE RANGE, WITH MEAN RATE VARIABLE FROM 10 PPS TO >10MPPS,

CONSTANT-CURRENT CCT FOR RESISTIVE OR INDUCTIVE LOADS, USING ADJUSTABLE, 3-TERMINAL VOLTAGE RE

SINGLE-SITE MYO-PULSE AMP. (3-STATE PROPORTIONAL MYOELECTRIC CONTROLLER) INCLUDING MYO-PULSE I

SYNCHRONOUS DETECTOR FOR AM. RADIO

PINK NOISE GENERATOR FOR AUDIO TESTING

SENSOR CCT USING PHOTOTRANSISTORS/CONTROL LOGIC SYSTEM TO CO-ORDINATE OUTPUT OF SENSOR CCT

SINGLE IC AMP. USING OA. AS HIGH-IMPEDANCE BUFFER TO DRIVE LOW IMPEDANCE (8OHM) SPEAKERS (HEADS

SINGLE-POLARITY, FIXED OUTPUT-VOLTAGE SUPPLY/BIPOLAR PS./ADJUSTABLE-OUTPUT SUPPLIES FOR NEGATI

HAND-HELD 4-CHANNEL LOGIC PROBE THAT INDICATES WHETHER EACH OF 4 TEST POINTS IS HIGH, LOW, TOGG

SONIC KALEIDOSCOPE (VARIATION OF COLOR ORGAN) CONSISTING OF 3 DOT-BAR DISPLAY DRIVERS, QUAD OA.

CONTINUITY TESTER THAT CAN BE ADJUSTED TO INDICATE CONTINUITY BELOW ANY RESISTANCE VALUE UP TO

Sheet1

CONSTANT CURRENT SOURCES/ANALOG MILLIVOLTMETER
BANDPASS FILTER BUILT AROUND MUX. OA., WITH 2KHZ BW. & 4 SELECTABLE CENTER FREQUENCIES
LINEAR CHARGE PUMP CAPACITANCE METER/PHONO PRE-AMP. WITH NAB EQUALIZATION
CONTROL OF SOLAR SENSOR TO MONITOR ORIENTATION OF GONDOLA IN STRATOSPHERIC FLIGHT, USING 3 BP
CONTROL CCT FOR TESLA PUMP THAT PRODUCES PULSATILE MOTION, WITH INDEPENDENT CONTROL OF FREQ
SINGLE-SHOT (1-SHOT) (MONOSTABLE) & CONTINUOUS-PULSE GENERATOR CONSISTING OF TIMER, TRANSISTOR
CONTROLLER THAT CAN BE PROGRAMMED IN BASIC FOR HOME ENERGY MANAGEMENT
CONSTANT CURRENT METALLIC COLD-WIRE CCT USING NATIONAL SEMICONDUCTOR ULTRA-LOW-DRIFT PRECIS
CONSTANT FRACTION TRIGGER INCLUDING ZCD. WITH DIFFERENTIAL INPUT STAGE, & LEADING-EDGE DISCRMIN
WINDOW COMPARATOR THAT CAN SERVE AS PULSE-HEIGHT DISCRIMINATOR, THAT GENERATES OUTPUT PULS
CONDITIONING CCT FOR REFERENCE CHANNEL, USING COMPARATOR TO PRODUCE HALF-CYCLE PULSE/SAME F
CONTROL UNIT THAT SUPERVISES OPERATIONS IN CAMAC SYSTEM (BBB)/64-BIT DIGITAL MODULE (BBB)/ANALOG
CONTROLLER BASED ON MICROPROGRAM CONTROLLER, INCLUDING MSI. CCTS, MUX.S & LATCHES/8-BIT PROC
SYNCHRONOUS DETECTOR OF FIBRE OPTIC SENSOR TO DETECT SMALL PROXIMITY VARIATIONS BETWEEN REF
SYNCHRONISED MICROSCOPE ILLUMINATOR
WINDOW COMPARATOR CCT
JUNKBOX FUNCTION GENERATOR
TUNABLE CW. FILTER
MINIMUM-EFFORT FLASHER
MINIATURE DC.-DC. CONVERTER CCT
LINEAR VCO. CENTRED ON 600MHZ (SINGLE RF. TRANSISTOR CCT USED IN COMMON BASE WITH RESONANT FRE
CONSTANT TEMPERATURE ANEMOMETER CCT USING SEPARATE CURRENT SOURCES TO SUPPLY DIFFERENT H
WINDOW COMPARATOR WITH 1V OF HYSTERESIS ON BOTH SIDES OF WINDOW, WITH ENTRY WINDOW OF -3V TO
CONSTANT POWER PAN (CPP) CCT INCLUDING BUFFER-CONDITIONERS, WAVE SHAPERS, TRANSLATORS & VCA.
CONTINUITY TESTER/COMPARATOR USING OA., WITH SENSE NETWORK/AUDIO OUTPUT STAGE USING CMOS. SC
SINGLE-CHIP CCT THAT ADJUSTS ITS GAIN ACCORDING TO AMBIENT NOISE PICKED UP BY MICROPHONE, USING
MINIFLOPPY INTERFACE CCT USING 4K BIT STATIC BUFFER MEMORY (2)/CLOCK EXTRACTOR & DATA BIT LATCH
LINEAR VOLTAGE RAMP GENERATOR TO MODULATE ENERGY OF BEAM WITH 3-STAGE BUNCHING SYSTEM, USIN
NON-INVERTING SIGNAL AMP. USING OA., TO AMPLIFY 0-20MV ANALOG SIGNAL PRODUCED BY BECKMAN 160 HP
NON-COMPOSITE VIDEO ADAPTER INCLUDING SYNC SEPARATOR, TO PERMIT NON-COMPOSITE VIDEO MONITOR
TONE-BURST GATE THAT WORKS FROM 20HZ TO 20KHZ WITH INPUTS OF 20MV TO 4V P-P, INCLUDING ZCD. (USIN
LINEAR DRIFTLESS VCO. (ANALOG CONTROLLED OSCILLATOR) THAT ACHIEVES VOLTAGE-VARIABLE FREQUENC
LENGTH-TENSION FORCEPS CCT (CCT FOR LENGTH & FORCE TRANSDUCERS) INCLUDING STRAIN GAUGE BRIDG
CONSTANT-SPEED MOTOR DRIVE CCT USING COMMUTATOR NOISE (INSTEAD OF SHAFT-SPEED SENSOR) AS FE
CONSTANT-CURRENT CHARGER WITH AUTOMATIC SHUT-DOWN FEATURES/CCT TO SHUT DOWN CHARGER WHE
FUNCTION GENERATOR
CONTROLLER TO MONITOR ELECTRICALLY MEASURABLE QUANTITY OR CONTROL ELECTRONIC DEVICE FROM R
CONDUCTIVITY BASED INTELLIGENT VALVE CONTROLLER INCLUDING CONDUCTIVITY SENSORS (OF BRIDGE CCT
CONVERSION CCT FOR CAPACITIVE TRANSDUCER, THAT CONVERTS CHANGE IN CAPACITANCE INTO VOLTAGE C
LINEAR BIPOLAR TRANSCONDUCTOR USING NPN & PNP TRANSISTOR ARRAYS, WITH SUPERIOR LINEARITY & TE
NONLINEAR OA. WITH TEMPERATURE-COMPENSATED BREAKPOINTS/LOG GENERATORS (2)/DIFFERENCE AMP./IN
CONTROLLER INCLUDING ARRAY DETECT SYSTEM, PS. SYSTEM, STATE-OF-CHARGE REFERENCE SOURCE, FET.
SENSING CCT USING PIEZO BUZZER & OA./CCT USING TRANSISTOR, TO CONTROL LOADS/LATCH-TYPE CCT FOR
DYNAMIC NOISE REDUCTION SYSTEM/DISPLAY SECTION/PS.
XENON LAMP IGNITOR CONSISTING OF 2 240V-15KV DISCHARGE LAMP TRANSFORMERS TO OBTAIN HV. TO DISC
SENSING CCT FOR STATUS OF LOOP FILLING BY IMMISCIBLE SEGMENT/DELAY CCT TO MAINTAIN VALVE IN INJEC
CONSTANT CURRENT LIMIT CCT
SENSING UNIT INCLUDING COMPARATOR, DIFFERENTIATOR, HIGH PASS FILTERS & AMP./CONTROL UNIT
CONVERTER/PWM./VFC./PULSE-WIDTH-TO-VOLTAGE CONVERTER/VOLTAGE REFERENCE/TEMPERATURE-CONTR

TUNABLE-AMPLIFIED RECEIVER INCLUDING TUNED RF. & AUDIO AMP., USING JFET./REFLEX RECEIVER USING RA
CONSTANT-VOLTAGE BATTERY CHARGER USING RATIO OF RESISTOR VALUES TO DETERMINE SETTING
CONTENT ADDRESSABLE DATA MANAGER (CADM) CHIP DESIGN ALLOWING ENTIRE MEMORY TO SHIFT BY CLOC
SINGLE-CHIP KEYPAD ENCODER/4X4 SCANNED MATRIX ENCODER/TOUCH-SENSING CCTS (2)/OPTICAL SWITCH U
GENERALISED CURRENT CONVEYOR (ELECTRONICALLY TUNABLE 2ND-GENERATION CURRENT CONVEYOR) (EC
TONE BURST GENERATOR (GATING AMP.) TO PRODUCE REPEATED, SHORT-DURATION BURSTS OF ANY PERIODI
CONVERTING PREAMP./GATE CONDITIONER/PRESCALER/OVERFLOW CONTROL/COUNTER-DAC./TIMING UNIT
CONSTANT-CURRENT AUDIO POWER AMP. WITH BRIDGE CCT, WHOSE OUTPUT VOLTAGE REPRESENTS IMPEDAN
CONTROLLING CCT FOR SERVO-CONTROLLER, USING OA.S THAT ACT AS COMPARATOR, VOLTAGE FOLLOWER &
CONTROL & SENSING ELECTRONICS EMPLOYING SWITCHES TO CONTROL MOTOR THAT TURNS WHEEL (3)
CONTROL PANEL OF BREATHING RAT-LUNG MODEL (OSCILLATOR TO SIMULATE BREATHING PATTERNS)
NONINVERTING INTEGRATOR WITH BUILT-IN LF. STABILITY, HF. COMPENSATION, & HIGH Q, WITH TRIANGULAR W
CONTROL LOGIC BLOCK OF DEVICE FOR AUTOMATIC THERMAL CONDUCTIVITY MEASUREMENTS/COUNTING (ME
PIN-DRIVING VOLTAGE SOURCE USING 2 LATCHES, DAC., MUX. & OA., FOR EACH PIN ADDED TO PDP-11-COMPUT
CONDITIONING AMP. THROUGH WHICH VOLTAGE FROM RTD. PROBE IS PASSED, TO NULL 0DEG C & LINEARIZE T
CONTROL CCT FOR CONNECTION TO WINDOW AIR CONDITIONER, TO ACHIEVE TEMPERATURE CONTROL OF LAB
VENTILATION FAILURE ALARM THAT ACTIVATES SONALERT AUDIBLE ALARM, USING HIGH-RELIABILITY PRESSUR
LINEARIZED LED. STIMULATOR (PHOTIC GENERATOR) IN WHICH RED-EMITTING DIODE IS CONTROLLED VIA OPTIC
LINEAR REGULATOR WITH LOW (130MV) DROPOUT VOLTAGE WHEN POWERED FROM 3.6V BATTERY & SUPPLYING
HANDI-TALKIE (HT) ACCESSORY THAT ADDS VOX OPERATION OR BREAK-IN MCW (MODULATED CW.), USING 800H
SYNC SEPARATOR/VERTICAL INTEGRATOR/DIVIDE-BY-32 COUNTER TO RECREATE HORIZONTAL BLANKING PULS
TUNED-COLLECTOR FEEDBACK, HARTLEY, COLPITTS, CLAPP (OR GOURIET) & REINARTZ LC. OSCILLATORS USIN
MINIATURE TRANSISTORIZED LIGHT FLASHER
1 NODE OF NEURAL NETWORK, USING FET.-INPUT OA.S, WITH INPUTS COMING FROM OTHER NETWORK NODES
SINE-WAVE GENERATOR USING SQUARE-WAVE QUARTZ CRYSTAL OSCILLATOR WITH 2 STAGES OF LPF.ING, & LI
WINK-AROUND SYSTEM (LIGHT-PULSE RECYCLING OSCILLATOR) USING 4 1-SHOTS, 4 NAND GATES, FIBER OPTIC
BINARY TO HEXADECIMAL DISPLAY CONVERTER
MONIMATCH SWR. METER (CORRECTION OF CCT IN QST, OCT. 69)
DYNAMIC RANGE EXPANDER (DRE) TO INCREASE DYNAMIC RANGE OF NEUTRON-GAMMA DISCRIMINATOR BY RE
SINGLE-ENDED HYDROPHONE AMP./DIFFERENTIAL AMP.
CONVENTIONAL & COMPLEMENTARY DARLINGTON OUTPUT PAIRS (2)/1 HALF OF EACH OF OUTPUT STAGES/DAR
MONOCHROME TV. PATTERN GENERATOR USING PLESSEY CHIP THAT GENERATES MONOCHROME VIDEO PATTI
CONVENTIONAL LOW-DROP REGULATOR/MOD. LOW-DROP REGULATOR WITH HIGHER (5A) CURRENT, & OVERVO
CONTROL UNIT FOR ANTENNA NULL STEERER, USED TO CANCEL UNDESIRE INTERFERING SIGNALS
MONITORING CCT USING PHOTOCCELL TO INDICATE DEVIATION FROM NORMAL OF ANY PILOT OR INDICATOR LAM
SONAR SCANNER USING ULTRASONIC TRANSDUCER & RANGING SYSTEM & CENTRONICS PRINTER CONNECTOR
SINGLE-STAGE DIFFERENTIAL-GAIN BLOCK THAT OPTIMIZES GAIN & LINEARITY, WITH GAIN OF 278 WITH BANDPA
MANUAL CONTROL UNIT THROUGH WHICH COILS OF RELAYS ARE CONNECTED TO DATA ACQUISITION UNIT (DAU
NON-INVERTING, NON-LATCHING BUFFER CONSISTING OF 2 BIDIRECTIONAL INVERTING BUFFERS BACK TO BACK
SENSITIVE BROADBAND RF. SIGNAL TRACER BUILT AROUND FERRANTI AM. RF., IF., DETECTOR & AGC. CHIP
SONIC PANOPLY TO PROTECT YOUR PERSON & YOUR PRIVACY (PORTABLE BURGLAR ALARM FOR USE IN HOTEL
GUN SHOT-EXPLOSION SIMULATOR/SIREN OR PHASER GUN SIMULATOR/CRASH SIMULATOR
CONTROL CCT THAT SWITCHES VOLTAGE BETWEEN +26V & +5V UNDER COMPUTER CONTROL WHEN PROGRAM
SENSITIVE FIELD-STRENGTH METER (FSM) THAT CAN BE TUNED TO ANY FREQUENCY 3-30MHZ, USING TUNED PA
SENSING CCT FOR 3-WIRE RS232C SERIAL LINK, USING DIODE BRIDGE & LED. ENABLING CABLE TO BE USED FOR
MINIATURE ELECTRIC FIELD PROBE AMPLIFICATION SYSTEM INCLUDING BURR-BROWN IA. & 3-POLE RC. LPF. (BE
TUNABLE FIELD-STRENGTH METER CONSISTING OF ANTENNA, TUNED CCT & SMALL SIGNAL GERMANIUM DIODE
BENCH-TESTED READY-TO-BUILD "GRID SHIFT" TUBE TESTER THAT CHECKS FULL RANGE OF TUBES USED IN AC
CONTROL UNIT FOR FULLY AUTOMATED OPERATION, USING FERRANTI TIMER IC'S IN CASCADE SYSTEM, WITH E

CONTROL LINK FAIL-SAFE CCT

IGNITION CUTOFF CCT THAT GIVES MANUAL CONTROL OVER VOLTAGE THAT GOES TO CAR'S COIL, USING 4PDT CONVERTER TO PRODUCE COMPLEMENTARY TTL. COMPATIBLE SIGNALS FROM SINUSOIDAL INPUT, USING RS 4 SINE-WAVE CONVERTER (VC FILTER)

CONSTANT-CURRENT CHARGER FOR NICD. BATTERIES

BENCH PS.

SINGLE-SHOT CCT

HANDS-FREE TELEPHONE ADAPTER

TEN-TEC MODEL 229 2KW TUNER

SUNRISE-SUNSET SIMULATOR TO TURN ON LAMP SLOWLY TO SIMULATE SUN RISING, & AFTER PRESET TIME SINUSOIDAL RC.-OSCILLATOR INCLUDING AMP. OF CURRENT, WITH AMPLITUDE CONTROL BY CURRENT SPLITTING

CONSTANT CURRENT CCT WITH 8MA CURRENT ACROSS GENERATING ELECTRODES IN FEEDBACK LOOP OF OA.

SINUSOIDALLY-DRIVEN NEON BULB RELAXATION OSCILLATOR USING NEON BULB ACTING AS CURRENT-LIMITED

TUNED AMP. OF RF. CCT, TO EXTRACT FUNDAMENTAL & PRODUCE 1ST HARMONIC RF. SIGNAL, USING TUNNEL DIODE

BINARY STEPPED TRANSMISSION LINE TO OPERATE UP TO 1000W ON 50OHM SYSTEM BETWEEN 1.6 & 30MHZ, TO

CONSTANT CURRENT BALLAST (CCB) CCT USING DARLINGTON & 1MA CONSTANT CURRENT DIODE, THROUGH W

CONTROL CCT USING SWITCHING-REGULATOR IC, INCLUDING OVERCURRENT CUTOUT & SOFT START/5V, 40A PS

SENSITIVE PHOTOELECTRIC (PHOTOVOLTAIC) SWITCH (MOTOR CONTROLLER) THAT APPLIES POWER TO LV. DC

XENON LIGHT PULSING UNIT TO PROVIDE LIGHT PULSES OF 10 TO 990US WIDTHS IN 10US INCREMENTS, USING T

LINEAR AMP.S AS RELAY DRIVERS (3)/RELAY-DRIVER REGENERATIVE AMP.S (2)/TIME-DELAY CCTS (2)

ZENER-REGULATED PS. CCT/SAME USING DARLINGTON PAIR, WITH ~5A CURRENT OUTPUT/SAME WITH CURRENT

CONTROL BOX WHOSE EMITTER FOLLOWER ALLOWS TUNING, MATCHING, & BALANCE VOLTAGES TO FOLLOW S

GUNNPLEXER CONTROL CCT/IF. PREAMP.

CENTRAL CONTROL UNIT

SINGLE-STAGE TRANSISTOR CRYSTAL-CONTROLLED 30MHZ RF. OSCILLATOR DRIVING SRD. IN WAVE-GUIDE MOD

SINGLE STAGE TRANSISTOR AMP. MADE WITH TRANSISTOR MODELED USING PC-ECAP'S "MODEL MAKER" CCT S

SINGLE-CHIP ABSOLUTE VALUE CCT INTENDED FOR HIGH-IMPEDANCE COMPARATOR

DYNAMIC ANALOG INPUT INTERFACE USEFUL FOR CHROMATOGRAPHY & FLOW ANALYSIS APPLICATIONS, BASE

SINGLE-STAGE ACSSB. 1W LINEAR RF. AMP. FOR 2M, SHOWING MOD.S TO INCREASE RF. OUTPUT

LINEAR MOTOR CONTROLLER INCORPORATING CLASS B DRIVER & ACTIVE COMPENSATION IN CURRENT FEEDB

SINGLE-ENDED RADIO OUTPUT STAGE

CONTROL CCT FOR AIR INTERLOCK VALVES/SERVOTRANSPORT SYSTEM/MASS SCAN & DATA SYSTEM TRIGGER

TONE DETECTOR FOR RTTY. AUTOSTART

T-NETWORK HF. SWITCH USING ACTIVE DEVICES THAT PROVIDE EXCELLENT BUFFER ACTION & REDUCED LOSS

BANDPASS AMP. WITH AGC. SYSTEM WITH CURRENT SPLITTING, INCLUDING BIPOLAR DIFFERENTIAL PAIR

CONTROL UNIT

SINGLE-COIL NMR. TUNING CCT INCORPORATING FET. Q SWITCH THAT SHORTENS RINGING TME IN PULSED NMR

IONTOPHORETIC ANAESTHETIZER CONSISTING OF FET. ACTING ON CURRENT SOURCE, WITH CURRENT RISING

PIN PHOTODIODE PREAMP. FOR INTERFEROMETER, WITH LOW (130OHM AT 80MHZ) INPUT IMPEDANCE

CONVERTER FOR RECEIVER TO TUNE TO FREQUENCIES BELOW AM. BC.-BAND

TEN-TEC MODEL 229 TUNER

CONSTANT-CURRENT CONTROLLED ASTABLE MULTIVIBRATOR THAT IS MOD. OF 3-STAGE DIRECT-COUPLED TRA

SENSITIVE ELECTROMETER USING VMOS. POWER FET. (VMOSFET.), SENSING WIRE & LED. WHOSE LIGHT INTENS

SYNCHRONOUS DEMODULATOR THAT, WHEN USED WITH SW. AM. BC. RECEIVER, PROVIDES SSB., ISB, ENVELOP

CONTROLLER FOR SLIDE PROJECTOR, THAT CONTROLS ON & OFF OF PROJECTOR ONLY WHEN SLIDE IS NEEDED

LINE-STATE STATUS INDICATOR/DECADE-VOLTMETER CCT/TERMINAL-SIMULATOR CCT TO TEST RS-232C LINK

HAND-HELD, RECHARGEABLE LASER SYSTEM USING VISIBLE-LIGHT LASER DIODE (LD)/SIMULATED LASER DIODE

LAN. INTERFACE COSTING \$100, USING PULSE TRANSFORMERS TO PROVIDE DC. ISOLATION

CONSTANT CURRENT FEEDBACK CCT INCLUDING FULL-WAVE RECTIFIER, LOGARITHMIC AMP. & CCTS TO CONTR

SENSITIVE FIELD-STRENGTH METER (FSM) USING GROUNDED-GATE FET. RF. AMP. & DIODE VOLTAGE DOUBLER
LINEAR THERMOMETER USING SENSOR WHOSE OUTPUT IS AMPLIFIED BY IA. CONSISTING OF 3 OA.S, WITH CON
NONINVERTING VOLTAGE AMP./HIGH-SLEW-RATE VOLTAGE FOLLOWER/CCT USING BOOTSTRAPPING, COUPLING
GENERAL PURPOSE PEAK DETECTOR FOR ANALOGUE SIGNALS UP TO 5MHZ
LINEAR VOLTAGE REGULATOR TO 'POST' REGULATE OUTPUT OF SMPS. UNITS, WITH HIGH EFFICIENCY & REJEC
CONSTANT (6.95UA) CURRENT SOURCE FOR THINISTOR, USING VOLTAGE REFERENCE, OA. & OPTOCOUPLER/HE
CONTROLLER SYSTEM USING NATIONAL'S 4-CHIP SET FOR 2,7 RLLC (RUN LENGTH LIMITED CODING) ENCODED V
SINGLE-TUNED JFET. PRESELECTOR/PRESELECTOR USING DUAL-GATE MOSFET./MOSFET.-BASED PRESELECTO
SYNCHRONOUSLY PULSED ELECTRON BOMBARDER
SANTEC ST-20T UP. CONTROLLED 2M HANDHELD FM. TRANSCEIVER WITH 4 MODES OF SCANNING, 10 MEMORIES
SANTEC MODEL ST-142 2M HAND-HELD TRANSCEIVER (HT) THAT COVERS 142.00 TO 149.995MHZ ON TRANSMIT &
ANNUNCIATOR CCT THAT VOCALIZES (GIVES AUDIBLE REPORT OF) VESSEL'S LIQUID LEVEL, USING SPEECH PRO
KENWOOD TH-27A 2M (144-148MHZ) HANDHELD TRANSCEIVER (TX-RX UNIT) INCLUDING RF., IF., CONTROL & CHA
CONVERTER THAT ALLOWS 10M RECEIVER TO COVER 9MHZ SW. BC. BAND, INCLUDING INPUT NETWORK, MIXER
CONCENTRATION GRADIENT DETECTOR (SENSOR) USING FIBER OPTICS INCLUDING LED. COUPLED ONTO 50UM
ION GENERATOR PS. TO POWER & CONTROL ION BEAM GENERATOR, INCLUDING SPELLMAN HV. 15KV 30W PS.
ANNUNCIATOR CCT USING SPEECH PROCESSOR TO SYNTHESIZE AUDIBLE WORDS FOR HEXADECIMAL INPUT CO
DYNODE VOLTAGE CHAIN & SIGNAL OUTPUT IN CHERENKOV PMT.
NON-INVERTING AMP. USING PRECISION MONOLITHICS CURRENT-FEEDBACK OA. IC/INVERTING AMP./INTEGRATO
SINGLE-SUPPLY AMP. THAT COPEs WITH POSITIVE & NEGATIVE LV.S DERIVED FROM HIGH-CURRENT SHUNT RES
SINGLE-IC PHASE COMPARATOR TO GIVE GO-NO-GO INDICATION WHEN 2 SIGNALS ARE IN OR OUT OF PHASE
NONLINEAR, HIGHPASS FILTER THAT ACTS AS ACTIVE BASELINE RESTORER TO IMPROVE SNR. FOR PULSE OR A
DYNODE NETWORK OF FAST RTC PHOTOMULTIPLIER IN FAST NEUTRON SPECTROMETER FOR FUSION EXPERIM
GENERALIZED NONINVERTING AMP./INVERTING AMP.S (2)/EXTREMELY LOW-DISTORTION AMP./CCT USING PS. BO
LINEAR REGULATOR LINKED TO CMOS. OR TTL. LOGIC FOR ON-OFF CONTROL & EPORTING LOW OUTPUT VOLTA
PEN LIFT CCT FOR USE WITH DAC. DRIVER, USING PNP TRANSISTOR THAT ACTS AS SWITCH & NPN TRANSISTOR
CONVERTER (DIMMER) TO PROVIDE RMS. VOLTAGE OF 110V (AT UP TO 2A) ACROSS PURE RESISTIVE LOAD FRO
BENCH TEST ELECTRONICS USING LECROY RESEARCH LNA.S, LOW GAIN AMP. STAGE & ADC.
CONTROL BOARD OF SYSTEM TO PROCESS & RECORD PARAMETERS OF ACOUSTIC EMISSION SIGNALS/WRITE,
CONTROLLER TO POWER DOWN BUBBLE MEMORY IN ORDERLY FASHION/CCT TO POWER UP BUBBLE MEMORY
SINGLE-SUPPLY TRANSCONDUCTANCE AMP. FOR USE AS INDUSTRIAL 4-20MA INTERFACE/CLASS-A 10W TRANSCO
SINGLE-ARM DISCRIMINATOR SYSTEM FOR MEASUREMENT OF CRYSTAL PHASE NOISE
BAND-PASS FILTER/LPF./MUCH IMPROVED LPF.
SYNTHESIZED FUNCTION GENERATOR/DIGITAL CCT/ANALOG CCTS/
FUNCTION GENERATOR FEATURING OUTPUTS FOR SINE-TRIANGLE, SQUARE WAVE & PULSE, FREQUENCY RANG
LINEARIZER FOR DOUBLE-BALANCED DIODE MIXER (DBM.) HAVING SCHOTTKY-BARRIER DIODES & OPERATING IN
SINUSOIDAL OSCILLATOR WHOSE FREQUENCY BEARS LINEAR RELATION WITH CONTROLLING VOLTAGE, WITH A
CONVERTER OPERATING AT 24KHZ WITH RESONANT FREQUENCY AT 42KHZ, & NORMALIZED SWITCHING FREQU
LINEAR REGULATOR THAT FUNCTIONS AS SURGE SUPPRESSOR, OPERATING ONLY DURING POWER SURGES, PE
LINEAR AMP./ANTENNA SWITCHING CCT/WATTMETER
CONTINUITY TESTER THAT CAN BE USED TO SENSE MOISTURE TO PREVENT FLOOD DAMAGE (WATER SENSOR &
LINEAR AMP. TO BOOST OUTPUT OF AMATEUR TV. TRANSMITTER/VIDEO-DETECTOR CCT THAT, WITH OSCILLOSC
SINGLE-BOARD MICROCOMPUTER BASED ON NATIONAL SEMICONDUCTOR 16-32-BIT UP., WITH 2 SERIAL INTERFA
CONTROL CCT TO ADD VISION TO ANY COMPUTER WITH RS232 SERIAL INTERFACE, & RETURN IMAGE DATA/CCT
CONTROL BOX FOR GADGET TO HELP SORT OUT SEQUENTIAL POWER SWITCHING, THAT OPERATES RELAYS IN
PIN DIODE SWITCHED MMIC. TR. MODULE FOR USE WITH 1296MHZ INTERDIGITAL TRANSVERTER, TO ROUTE SIG
SYNCHRONOUS (MOD. COLPITTS) OSCILLATOR OF APPARATUS TO MEASURE SUBHARMONIC LOCKING, USING T
KENWOOD TS-430 TRANSCEIVER/KENWOOD TS-930 TRANSCEIVER/(BBB)
FINAL & DRIVER AMP.S OF 300KW RF. AMP., INCLUDING DRIVER TUBE & SIEMENS TETRODE IN GROUNDED-GRID

PIN DIODE DRIVER CCT TO SWITCH ON RECEIVER COIL DECOUPLING, BASED ON HIGH-SPEED POWER MOSFET.
HANDHELD DIGITAL UNIVERSAL FREQUENCY COUNTER/PRECONDITIONING CCT
CONTROLLER USING TELEPHONE TONE DECODER WHOSE BCD. OUTPUT IS DEPENDEND ON TONES PRESENT/A
SINGLE-CHIP VOICE RECORD-REPLAY SYSTEM FOR 20S OF SOUND (AUDIO) STORAGE FOR UP TO 10YR, USING D
CONTROLLER FOR SMALL MOTORS, USING BACK EMF. TO REPRESENT SPEED/CCT USING IC TO DRIVE DELAY LI
SINGLY BALANCED FET. MIXER/FRONT END OF NRD515/YAESU MIXER/MODULATOR
CONTROLLER FOR DTMF. PAGING, HOME-APPLIANCE CONTROL, & REMOTE BASE & REPEATER CONTROL, USING
SENSITIVE CCTS OF RADIOSONDE TO MEASURE METEOROLOGICAL PARAMETERS OF TEMPERATURE, WATER V.
LANG AMP. MOD. TO CONVERT LOW POWER CLASS A AMP. TO HIGHER POWER (50W PER CHANNEL) CLASS AB D
LINEARIZED MICROWAVE FM. TRANSMITTER INCLUDING POWER OSCILLATOR & MODULATOR/CCT THAT ACCOMP
LINEAR VOLTAGE CONTROLLED LC. OSCILLATOR USING SMALL POWER MOSFET., ELECTRONICALLY TUNABLE O
MINIMUM-SIZED SYSTEM USING CPU., RAM.-IO.-TIMER & ROM.-IO., TO PROVIDE 128 BYTES RAM., 2K BYTES ROM.,
TUNER CONTROL BOARD, INCLUDING DYNAMIC AFT & BAND SWITCHING/SAW. & VIDEO IF. INTEGRATED FILTER C
SINGLE-STAGE AMP. DESIGNED TO MAXIMIZE BW. WHILE MINIMIZING NF., USING GAASFET./CONSTANT-CURRENT
LINE OUTPUT CCT IN WHICH HV. WINDING OF FLYBACK TRANSFORMER IN REPLACED BY CAPACITOR & VARIABLE
MINIATURE AM.-FM. STEREO RADIO/1960 5 TUBE AM. RADIO
KENWOOD MC-80 AMPLIFIED MIC, SHOWING COMPONENTS ADDED TO RID CCT OF RFI. PROBLEMS
BENCH PS. WITH PROTECTION FOR GAASFET. AMP., USING MICROPOWER VOLTAGE REGULATORS/'STRIPPED DO
NON SATURATING BASE DRIVER IN WHICH BASE DRIVE CURRENT IS DETERMINED BY MOSFET. GATE VOLTAGE C
CONVERTER (FLYBACK REGULATOR) THAT SUPPLIES 200MA AT 5V FROM 1.5V INPUT, USING 2 SWITCHING REGU
WINDOW COMPARATOR
BANDPASS FILTERING SYSTEM USING SWITCHED-CAPACITOR IC'S & OA., COVERING DC.-TO-10KHZ RANGE SPLIT
MONITOR CCT USING SAMPLED-DATA TECHNIQUE, TO INDICATE WHEN BATTERY NEEDS REPLACEMENT, USING
MONITOR CCT TO PERFORM 80US CHECK OF 2 6V-BATTERY OUTPUTS EVERY 10S & ASSERT ALARM IF OUTPUT D
SENSOR INCLUDING RESET & POSITION MEASUREMENT PHOTODIODE ARRAYS, & READOUT BOX CONTAINING P
LINEARIZED PLATINUM RTD. BRIDGE/WIEN-BRIDGE OSCILLATORS (2)/MICROPOWER VFC. WITH 0-10KHZ OUTPUT
SINE-TO-SQUAREWAVE CONVERTER & FREQUENCY DOUBLER/DIGITAL DIVIDER/16 CHANNEL SELECTOR/SYNCH
CONSTANT CURRENT SOURCE OF DAS., WITH 4 CURRENT RANGES FROM 1MA TO 1UA/MUX. WITH OPTICAL COU
CONTINUOUSLY ADJUSTABLE (VARIABLE) PHASE SHIFTER FOR BUNCHER/CHAIN CHARGE MONITORING SYSTEM
SINGLE AMP.-DISCRIMINATOR CHANNEL OF 8-CHANNEL MODULE TO PROCESS FAST PHOTOMULTIPLIER (PMT.) S
SINGLE-STAGE BROADBAND AMP. COMBINING 2 TYPES OF FEEDBACK NETWORKS TO ACHIEVE FLAT (10 +-1.5DB
CONSTANT ENERGY SOURCE FOR ELECTROCUTANEOUS STIMULATION THROUGH WET ELECTRODES, USING PU
SINGLE-LINE LCD. COMPUTER TERMINAL BUILT AROUND CYBERNETIC MICRO SYSTEMS LCD.-CONTROLLER IC &
MINIMAL DEVELOPMENT SYSTEM FOR CY500 STEPPER MOTOR CONTROLLER, INCLUDING POWER AMP. TO DRIV
PROGRAMMABLE FREQUENCY SYNTHESIZER WITH 1MHZ PER MILLISECOND SCANNING RATE USING DAC. (2)/CC
CLOCK OSCILLATOR CCT FOR 8085 UP./SAME USING SIMPLE RC.-FILTER TECHNIQUE TO QUIET IT DOWN & ENSU
FRONT END OF AM. BC. RECEIVER, COMPRISING MIXER, 1ST IF. AMP., & AGC./IF. AMP. & AM. DEMODULATOR (ACT
PROGRAMMER TO PROGRAM, COPY & VERIFY DATA IN 2708 EPROM., USING 1802 UP., INCLUDING PROGRAM PUL
PROGRAMMABLE INDUSTRIAL CONTROLLER USING 64 INPUT SENSORS, 12 OUTPUT SIGNALS & REMOTE COMMU
"SOLID-STATED" T-195 1.5 TO 3.0MHZ VFO. (LINEAR MASTER OSCILLATOR) (LMO) WITH VACUUM TUBES REPLAC
CMOS. DEBOUNCE CCTS
PROCESSOR USING ARITHMETIC PROCESSING UNIT/PROCESSOR TO COLLECT BCD. DATA & CONVERT IT TO BIN
CMOS. TIME BASE (TO CONVERT CALCULATOR)/OUTPUT PORT FOR CALCULATOR
1-OA. AC.-DC. CONSTANT CURRENT SOURCE POWERED BY 4 9V ALKALINE CELLS, WITH >10KHZ BW. & ABILITY TO
PROCESSOR BOARD OF MIDI. LIGHT CONTROLLER, USING MICROCONTROLLER/OUTPUT SECTION USING TRIAC-I
CLOCK-DRIVEN CCT THAT GENERATES (PRODUCES) SYMMETRICAL TRIANGULAR WAVEFORM WHOSE AMPLITUDE
VCO. CCT USED AS VFC./TONE BURST GENERATOR/SIREN CCT
TBOX ("TONE BOX" OR "FOX BOX") TO PRODUCE DISTINCTIVE SOUND, CYCLE HIDDEN TRANSMITTER ON & OFF, &
CMOS. TTL. CLOCK CCT

PROXIMITY SWITCH TRIGGERED ONLY BY REFLECTED IR. SIGNAL/TRIAC DRIVER TO CONTROL SMALL MOTOR/OA
GOOF-PROOF POSITION INDICATOR THAT TAKES THE GUESSING OUT OF JUDGING/PS.
PHOTOTRANSISTOR AMPLIFICATION CCT USING OA.S, THAT ALSO FILTERS SIGNAL, & PROVIDES GAIN & ZERO O
CMOS. MONOSTABLE
CMOS. MONOSTABLE MULTIVIBRATOR
PROM.-BASED COMPENSATING CCT
CROSS-HATCH GENERATOR FOR CONVERGENCE & GEOMETRY ADJUSTMENTS ON COLOUR TV.S
PRODUCT DETECTOR & AUDIO AMP./VFO./RC. ACTIVE AUDIO FILTERS (2)/CRYSTAL OSCILLATOR/9MHZ IF. AMP./M
CMOS. TONE GENERATOR/CMOS. LED. FLASHER/TOUCH SWITCH/1-SHOT TOUCH SWITCH
CMOS. KEYS INCLUDING ASYNCHRONOUS PADDLE LOGIC & OSCILLATOR, SYNCHRONOUS SECTION, RAM., & W
BLOCK TRANSFER MACHINE TO OBTAIN HIGHER DATA TRANSFER RATES, TRIGGERED BY SIGNAL GENERATED B
PROPORTIONAL MAINS CONTROLLER FOR CONNECTION TO COMPUTER, WITH 4-BIT RESOLUTION, USING BINAR
BROADBAND TR. CCT USING PIN DIODES, TO DELIVER TRANSMITTER PULSE TO SAMPLE PROBE & COUPLE RESU
CMOS. IC KEYS THAT GOES BETWEEN KEYS PADDLE & TRANSMITTER (RIG), INCLUDING CLOCK OSCILLATOR,
CMOS. SPDT. SWITCH USING SPST. SWITCH CONTAINING 4 SECTIONS OF WHICH 1 IS USED AS INVERTER TO SUP
BLOCK DIAGRAM OF TYPICAL WAY IN WHICH 80188 (IAPX188) COULD BE USED IN COMPUTER (BBB)
CMOS. DECADE UP-COUNTER CONNECTED FOR SEQUENCE-&-STOP ACTION, TO COUNT TO PREDETERMINED NU
CMOS. FULL ADDER CONSISTING OF 2 NOR GATES & 2 'EXCLUSIVE-OR' GATES TO PERFORM INPUT & SUM LOGIC
CMOS. VOLTAGE DOUBLER (VOLTAGE MULTIPLIER)/110V SUPPLY USING 1 HEX INVERTER IC/433V GENERATOR U
SLOW CLOCK CCT/CCT SHOWING HOW OUTPUT FROM 4050 ACTIVATES IR. DIODE/LOGIC DRIVING SSR.
3 OUT OF 4 LOGIC MODULE IN WHICH 32 PAIRS OF ECL. INPUT SIGNALS ARE CONVERTED TO TTL. LEVEL, & LATC
GLOBAL MEMORY INTERFACE FOR UP./INTERFACE WITH 5MHZ OPERATION WITH NO WAIT STATES/(BBB)
PROTECTION CCT FOR 8 CHANNEL CMOS. MUX., TO LIMIT SUPPLY & INPUT CURRENT TO PREVENT LATCH-UP DU
FLOATING PS. FOR CAR AUDIO EQUIPMENT, CONSISTING OF FLYBACK CONVERTER WITH OPTO-COUPLED FEEDI
DIODELESS PRECISION RECTIFIER THAT ACTS AS ATTENUATOR FOR POSITIVE INPUTS & CONVENTIONALLY OTH
2 OF 8 CHANNELS OF TIME-TO-CHARGE CONVERTER FOR FAST ENCODING & READOUT ELECTRONICS, USING EC
PHOTOCELL-EVENT TIMER THAT MEASURES TIME WITH ACCURACY OF 0.1S, USING OA. AS COMPARATOR WITH A
PROGRAM MODULE OF PROGRAMMABLE STIMULATION SYSTEM TO ALLOW SPECIFIC DISCHARGE PATTERNS TO
CLOCK USING MOS.-LSI. IC THAT INTERFACES DIRECTLY TO LARGE LCD.S, ACCEPTS 60HZ AC. INPUT, HAS 12HR
PHOTODIODE CCT USING HAMAMATSU LARGE SURFACE AREA SILICON PHOTODIODE AS DETECTOR, THE OUTPUT
PROGRAMMABLE REPEATER CONTROLLER USING SINCLAIR-TIMEX ZX81-1000 PC.
SHORT-CCT PROOF, HV. REGULATOR USING PRECISION REGULATOR IC, N CHANNEL ENHANCEMENT MODE POW
PROPORTIONAL TEMPERATURE CONTROLLER FOR INNER BATH/ON-OFF TEMPERATURE CONTROLLER FOR OUT
PROPORTIONAL TEMPERATURE CONTROLLER TO MAINTAIN CONSTANT TEMPERATURE IN BATH OVER PERIOD O
PROGRAMMABLE PULSE GENERATOR OF AUTOMATED SPECTROMETER, FOR OPERATION OF LED., CONSISTING
PRONTO SERIES 16 BUSINESS-ORIENTED MICROCOMPUTER, BASED ON INTEL 80186 UP. (BBB)
GROMMES MODEL 260A HI-FIDELITY UNIT
GROMMES HI-FIDELITY MODEL 212 PREAMP.
GROMMES HI-FIDELITY MODEL 208 PREAMP. (2)
GROMMES G101 POWER AMP. MANUFACTURED BY PRECISION ELECTRONICS INC., FRANKLIN PARK, ILL. IN 1964
PROGRAMMABLE POSITIONING STEPPER-MOTOR CONTROLLER CONSISTING OF PPI., PIC. & 3 PIT.S (BBB)
PHONO STAGE OF PREAMP./HIGH LEVEL STAGE/B+ REGULATOR THAT REDUCES RAW DC. OF ~340V TO ~260V/HE
PHOTODIODE ARRAY TIMING INTERFACE/BIOMATION DMA. INTERFACE
VXO CCT DERIVED FROM COLPITTS OSCILLATOR, WITH SOME OF STABILITY OF CRYSTAL & SOME OF FLEXIBILT
PROBE CHANNEL CONSISTING OF TRANSMITTER-MATCHING NETWORK, OBSERVE COIL & PREAMP. & LOCK CHAI
PIO INTERFACE/DMA. CONTROLLER (TALKER-LISTENER CCTS)/SINGLE-CHIP CPU./PIA./INTERFACE TO TTL. LOGIC
PROGRAMMABLE PS. INTERFACE CCT FOR IEEE GPIB. USING SINGLE CHIP MICROCOMPUTER, GPIB. CCT, DAC., M
PROTOTYPING, EMULATION & PROGRAMMING SYSTEM (DEVELOPMENT SYSTEM FOR F8 & F3870 MICROCOMPUT
FRONT-END ELECTRONICS FOR TRW 1029J7C 6-BIT 100MHZ FLASH ADC., INCLUDING LIMITER, INTEGRATION & AM

PROM.-BASED CCT TO PRODUCE ACCURATE DELAYED PULSES WITH ADJUSTABLE WIDTHS, OPERATING WITH C
VCO. (SIMPLE DISPLACEMENT-MEASURING CCT) WHOSE FREQUENCY IS NEARLY PROPORTIONAL TO DISTANCE
FLOATING CURRENT SUPPLY FOR ANODE WIRE/POSITION READOUT ELECTRONICS, INCLUDING AMP., COMPARA
PROGRAMMABLE WAIT-STATE GENERATOR USING 4-WORD-BY-4-BIT REGISTER FILE THAT HOLDS 4 DIFFERENT,
PROGRAMMABLE 64-BIT SHIFT REGISTER USING 64-BIT RAM.
PHOTOTRANSISTOR-AMP.
BROADBAND RF. QUADRAPHASE MODULATOR COMPRISING 20MHZ IF. SECTION & 2 SSB. MODULATOR SECTIONS
CMOS. (CRYSTAL) OSCILLATION CCT THAT INDUCES OSCILLATION FROM CRYSTAL UNIT
CLOCK GENERATOR, STATE DECODER & MEMORY-TIMING GENERATOR (BBB)/MEMORY DATA LATCH, DATA SERI
PHOTOMETRY-APPLE INTERFACE TO MAKE HIGH-SPEED OCCULTATION MEASUREMENTS WITH STARLIGHT-1 PH
PHOTODETECTOR-AMP. CCT FOR USE IN MAGNETIC FIELD MEASUREMENT & MAPPING USING PROBE CONTAININ
VFO. THAT CAN BE TUNED FROM 4 TO 14MHZ BY USING CURRENT-CONTROLLED VARIABLE INDUCTOR, ACHIEVIN
ECONOMY RADAR DETECTOR NEEDING ONLY 1 IC/DELUXE RADAR DETECTOR WITH BUFFER AMP. & POWER AMP
PHONO PREAMP. STAGE
PHOTOMULTIPLIER GATING CCT INCLUDING PMT., MONOSTABLE MULTIVIBRATOR, NAND GATE BUFFER, MOSFET
PHOTOGATE TIMER (PGT) INCLUDING PHOTOTRANSISTOR, 3 4-BIT BINARY COUNTERS, AND GATE, SCHMIDT TRIG
PROGRAMMABLE 1-SHOT MULTIVIBRATOR
PHOTOMETER USING PF1006A INTEGRATED PHOTODETECTION ASSEMBLY (IPA) INCLUDING RCA 931B PMT., & PS
ACOUSTIC SIGNAL PROCESSOR CONSISTING OF 500HZ BAND-PASS FILTER, PRECISION RECIFIER & SCHMITT TR
SHORT-CCT PROTECTED LABORATORY-GRADE PRECISION LV. DC. PS. THAT OFFERS 2 USER-SELECTABLE OUTP
VCO. USING LOGIC GATES, WITH 1-1.25MHZ OUTPUT/75MHZ-150MHZ TRANSISTOR VCO./1GHZ VCO./100-300MHZ F
PROGRAMMABLE DIVIDER USING 2 UNIVERSAL SHIFT REGISTERS & 1-OF-8 DATA SELECTOR, TO DIVIDE CLOCK F
PROGRAMMABLE DIGITAL-TRIGGERING CCT TO GENERATE LOGIC 1 WHEN SIGNAL CROSSES POINT ON PROGRA
PROM.-RAM. DISK TO STORE PROGRAMS & DATA, & EPROM. PROGRAMMER, INCLUDING ADDRESS COUNTER, 25
CLOCK GENERATOR CCT FOR MULTICHANNEL SCALER (MCS) USING CRYSTAL OSCILLATOR WITH 4 PHASE OUTP
1 OSCILLATOR OF 64-OSCILLATOR SIMULATOR TO MODEL ELECTRICAL SLOW-WAVE ACITIVITY IN DIGESTIVE TRA
GROUND BOUNCE DEMONSTRATION BOARD FOR DEMONSTRATION OF CORNER PIN-CENTRE PIN CONTROVERS
PHOTOVOLTAIC (LIGHT-BEAM) COMMUNICATIONS RECEIVER THAT DEMODULATED AM. LIGHT SIGNALS TO RECO
FLOW CONTROL CCT/AUTOMATIC TIMER CONTROL CCT
FLOWING GAS IRRADIATION CELL
PROPORTIONAL TEMPERATURE CONTROLLER BASED ON MEASURING ERROR SIGNAL WITH MICROVOLTMETER,
CLOCK (LOGIC) CCT USING 4-BIT COUNTERS & D FF.S, THAT ACCEPTS PRESET COUNTER VALUES
PROPORTIONAL ELECTRONIC THERMOSTAT CCT USING TRANSISTOR, THYRISTOR & THERMISTOR, ALLOWING TI
SCOPE-TRIGGERED SERIAL-DATA CATCHER WHICH CONVERTS SERIAL DATA TO PARALLEL & DISPLAYS IT ON LE
PROTOCOL CONVERTER THAT ALLOWS X-ON-X-OFF DEVICES TO INTERACT WITH LEAD-CONTROL DEVICES
CMOS. TONE SEQUENCER TO GENERATE ELECTRONIC MUSIC, AS TOYS, ANNUNCIATORS OR WARNING ALARMS
PROGRAMMABLE DIVIDE-BY-N COUNTER THAT ACCEPTS INPUTS OF UP TO 90MHZ, USING 74F FAMILY OF LOGIC
CLOCK PHASE SPLITTER FOR UP.S
PROGRAMMER FOR 2K 2716 EPROM.S FOR COMPUTER OR UP. USER/5V & 25.5V PS.
GROUND-NOISE TESTER THAT SENSES VOLTAGE EXCURSIONS WITH MINIMUM THRESHOLD FROM 0 TO 1V, POW
VCO. THAT GENERATES TTL.-COMPATIBLE, COMPLEMENTARY OUTPUTS WITH MAXIMUM FREQUENCY >40MHZ, C
PROGRAMMING-VOLTAGE SWITCHING CCTS (2)/VOLTAGE SWITCHING CCTS (2)/CCTS USING REGULATOR IC'S/UP
FLOPPY DISK INTERFACE WITH ALL INPUTS & OUTPUTS DESIGNED & BUFFERED FOR USE WITH MOTOROLA 6800
PROGRAMMABLE PULSER BASED ON SEQUENTIAL CCT WITH 4 STATES & BINARY COUNTER WITH DECODING LO
PHOTOMETER USING SILICON PHOTOVOLTAIC CELL (PHOTODETECTOR) IN SHORT-CCT OPERATION WITH PHOT
PROTOTYPING (INSERTION) CARD CONSISTING OF BUFFER DEVICES/ADDRESS DECODER BASED ON 8-BIT MAGN
PROGRAMMER FOR 8748-8749H MICROCONTROLLER, USING 2 SERIAL-TO-PARALLEL CONVERTERS & 1 PARALLE
CROSSTALK REDUCTION CCT TO DEAL WITH CROSSTALK BETWEEN ELECTRODES IN FLOW CELL, PLACED BETW
PROCESSOR BOARD OF PROGRAMMABLE SEQUENCE CONTROLLER/TIMER BOARD/BOARD SELECT LOGIC/FF. &

PHOTON-COUNTING PARTICLE DISCRIMINATOR

PHOTOGRAPHIC CONTRAST METER THAT AUTOMATICALLY TELLS YOU STANDARD CONTRAST PAPER GRADE FOR
PROGRAMMABLE WAIT-STATE GENERATOR TO INITIATE UP TO 7 SOFTWARE-SPECIFIED WAIT STATES, USING 8-BIT
VCO.S (3-PHASE SINE WAVE GENERATORS) WITH IMPROVED LINEARITY & EXTENDED FREQUENCY RANGE (2)/SQ
PROGRAMMABLE CLOCK-STRETCHER THAT SUPPORTS 1-CLOCK ACCESSES TO EPROM.S, RS-232 CONTROLLER
PHOTODIODE CONDITIONING CCT INCLUDING LED.-PHOTODIODE REFLECTING DEVICE WHOSE OUTPUT IS FED TO
PROPORTIONAL TEMPERATURE CONTROL CCT WITH PULSE HEATING CAPABILITY, USING PBSE DETECTOR, INCL
CMOS. ASTABLE MULTIVIBRATOR

PHOTODETECTOR FOR SYSTEM TO MEASURE CURVATURE OF BLUEBERRIES, USING BELL & HOWELL INTEGRATED
PROGRAMMABLE AUTOMATIC COUNTER TO MEASURE 4 DIFFERENT TIME INTERVALS OF INPUT SIGNAL, & PULSE
CLOCK & INPUT DERANDOMIZER OF CCT TO REJECT PULSE STREAM WHENEVER >2 PULSES ARE DETECTED IN I
CROWBAR CCT FOR FAST DISCHARGE

PHONY CAR BURGLAR ALARM THAT SHUTS OFF WHEN CAR IS STARTED

PHOTODIODE (DROP) DETECTOR USING 2 OA.S THAT AMPLIFY CURRENT CREATED IN PHOTODIODE BY BEAM FR
CLOSED-LOOP DETECTION CCT WITH DELAY/ALARM CCT/LOW LEVEL SOUNDER/DUAL-TONE SOUNDER/SENSOR
SCOTT LK-72 INTEGRATED AMP./BIAS ADJUST CCT IN LATER LK-2'S/CCT USING 2 CAPACITORS IN SERIES TO GET
CHOPPING-CUM-ISOLATION CCT FOR 1 SCR. CHANNEL/LOAD CURRENT FEEDBACK CCT/SYNCHRONIZATION & RM
PROGRAM-CONTROLLED ANALOG PROCESSOR INCLUDING LINEAR AMP., THRESHOLD SETTER, SPECTROMETRI
"POWER OUT SENSOR" (POWER-FAILURE SENSOR) TO BE INSTALLED IN AC. DIGITAL CLOCK, THAT WILL "BEEP" U
VCO. TO GENERATE 4 HARMONIC-RICH WAVEFORMS, USING VOLTAGE-CONTROLLED SWITCHED INTEGRATOR, S
CLOCK BOARD OF TURING MACHINE, PRODUCING 4-PHASE CLOCK/PROCESSOR CARD INCLUDING/MEMORY CAR
CMOS. KEYBOARD KEYS TO GENERATE ALL LETTERS, NUMBERS, PUNCTUATION & SPECIAL CHARACTERS, WITH
BIOFEEDBACK MONITOR FOR IBM PC.-TYPE COMPUTERS, USING TIMER CONFIGURED AS PULSE GENERATOR, &
PROGRAMMABLE DELAY-LINE (TIME-DELAY) CCT FOR TTL. LOGIC SIGNALS, TO SUPPLY LONG DELAYS FOR COM
CMOS. FREQUENCY-WINDOW DISCRIMINATOR

ECONOMICAL 9-STATION HOME OR SMALL-BUSINESS INTERCOM WITH OPTION FOR PA SYSTEM WITH MUSIC

CMOS. INPUT PULSE-COUNTING PROGRAMMABLE BISTABLE CCT

PROGRAMMABLE 10-STEP FUNCTION GENERATOR/VCO.

PROCESSOR & AMP. TO ELIMINATE BACKGROUND NOISE FROM CODE TAPES, PROVIDE QUALITY AUDIO & ALLOW
PROGRAMMABLE TIMER TO ACCURATELY TIME ANY PERIOD FROM 15MIN TO 3HR, 45MIN IN 15MIN STEPS, INCLUD
ACOUSTIC STIMULATOR TO GENERATE SONGS (SOUNDS) FOUND WITHIN INSECT GROUPS INCLUDING BUSH-CR
2 OA. WINDOW COMPARATOR INCLUDING DIODE INTERCONNECTION THAT FORCES 1 AMP. TO EXECUTE BOTH W
PHOTOGATE TRIGGER USING TRANSISTOR THAT ACTS AS SWITCH THAT CLOSSES WHEN LIGHT PATH IS BLOCKED
CMOS. COUNTER/DIVIDERS

SLOW SPEED DIFFERENTIATOR WITH HIGH NOISE IMMUNITY, THAT GIVES OUTPUT PROPORTIONAL TO RATE OF
FLOWMETER UNIT USING PULSE GENERATOR OSCILLATING AT 5KHZ/OXYGEN CONCENTRATION MEASUREMENT
VCO./VOLTAGE-CONTROLLED FILTER (VCF)/VCA./ADSR ENVELOPE GENERATOR

7-OCTAVE AUDIO ANALYSER/LPF.

CLOCK-TEMPERATURE MODULE THAT AUTOMATICALLY DISPLAYS TIME, THEN INDOOR TEMPERATURE, THEN OU
DMOS. POWER TRANSISTOR COMPENSATION CCT INCLUDING THERMOMETER TRANSISTOR, & FEEDBACK CCT IN
PROCESSOR SECTION OF DAQ3000 12-BIT DATA ACQUISITION PERIPHERAL FOR MACINTOSH PLUS/ADC. SECTIO
ISOLATION AMP. TO SEPARATE AUGER SIGNAL FROM HIGH COMMON MODE VOLTAGE, & ASSOCIATED ELECTRO
PHOTODETECTOR WHOSE OUTPUT IS READ WITH DVM. READING 0 TO ~95% OF SUPPLY VOLTAGE, DEPENDING
CLOCK TIMER TO TRIGGER VOICE AFTER ID PTT. LINE GOES LOW, INCLUDING FET. SWITCH THAT TRIGGERS SHA
PHOTOCONDUCTOR FEEDBACK AMP. FOR USE WITH CRYOGENICALLY COOLED PHOTOCONDUCTIVE DETECTOR
GLOW-PLUG POWER CONTROLLER USING ASTABLE PULSE GENERATOR/DC.-MOTOR CONTROLLER/MOD. FOR MO
CLOCK & LOGIC CCTS OF MOSSBAUER SYSTEM, USING TIMER/RATE METER CCTS CONSISTING OF RETRIGGERA
PROGRAMMABLE CLOCK PULSE GENERATOR USING TIME STANDARD/PROGRAMMABLE DELAY GENERATOR/PUL
PROGRAMMER FOR SLIDE PROJECTOR, ALLOWING RECORDED MATERIAL & ADVANCE SIGNAL ON SAME TAPE TH

ISOLINEAR AMP. THAT IS TOTALLY ISOLATED & CAPABLE OF TRANSMITTING ANALOGUE WAVEFORMS OF CONSTANT PHOTOMULTIPLIER (PM) BASE WITH CCT FOR HV. GENERATION FOR PROPORTIONAL VOLTAGE REGULATION BETWEEN PROGRAMMER FOR 8-BIT MICROCONTROLLERS CONTAINING EPROM., INCLUDING RS-232 DRIVER-RECEIVER/DRIVER PHOTOGATE CCT USING RADIO SHACK IR. LED. & PHOTOTRANSISTOR, WHICH, WHEN BLOCKED & UNBLOCKED IS A VFO. FOR QRP TRANSMITTER, ALLOWING GREATER FREQUENCY EXCURSIONS THAN VXO, INCLUDING OSCILLATOR PROGRAMMABLE LOGIC EVALUATION BOARD

PROGRAMMABLE THERMOSTAT USING 8-BIT CPU. (UP.) WITH BUILT-IN EPROM., ADC., THERMISTOR, OPTO-ISOLATOR FRONT-END DIGITAL READOUT ELECTRONICS BASED ON CMOS. CHIP CONTAINING DISCRIMINATORS & SHIFT REGISTER ECONOMICAL ASYNCHRONOUS DATA SEPARATOR FOR MODEMS HAVING 3-TO-2 FREQUENCY RATIO

ECONOMICAL EXPANDABLE HIGH-PERFORMANCE WORKSTATION, WITH SUBSYSTEMS MANAGING DISK, DISPLAY PROGRAMMABLE EVAPORATOR CONTROLLER (PEC) COMPUTER INTERFACE CARD USING MOTOROLA PIA., 2 DAUGHTER CMOS. PROGRAMMABLE SWITCHED-CAPACITOR LPF. USING UP. TO SELECT & CHANGE SET OF 64 CUT-OFF FREQUENCIES

CLOCK & RESET SECTION, USING CLOCK GENERATOR TO GENERATE NONOVERLAPPING CLOCK SIGNALS FOR 60 HZ FOOD RECORDING ELECTRONIC DEVICE (RECORDER) BASED ON SBC., TO SIMPLIFY COLLECTION OF DIETARY DATA FRONT-END ELECTRONICS OF ECG., TAKING IN SIGNALS FROM 9 LEADS (2)/CONTROLLER CONTAINING COMPUTATIONAL

CLOCK-MX80 PRINTER INTERFACE THAT DISPLAYS DATE & TIME AUTOMATICALLY, WHEN LINKED IN TO FLEX ECONOMY PRINTER BUFFER USING 8-BIT UP., INCLUDING PARALLEL INTERFACES USING PIA., & SERIAL INTERFACE CLOCK-GENERATOR CCT CONSISTING OF PROGRAMMABLE EVENT GENERATOR (PEG) & PAL. DEVICE, WITH FLASH PROM. PROGRAMMER USING HARDWARE TIMER THAT TAKES OVER SOFTWARE TIMING LOOPS

ANODE GROUNDED HV. DIVIDER USED WITH 12-STAGE RCA PMT. AT HIGH COUNT-RATES/DYNODE GROUNDED DIVIDER PROPORTIONAL DC. TEMPERATURE CONTROLLER THAT COMPARES VOLTAGE ACROSS THERMISTOR WITH OUTPUT OF PHOTOMULTIPLIER DYNODE CHAIN TO MAINTAIN LINEARITY UNDER PULSED CONDITIONS/CURRENT-TO-VOLTAGE

ISOLATION AMP. 2-OA. GIC (GENERALIZED IMPEDENCE CONVERTER) SIMULATED INDUCTANCE, IDEALLY SUITED FOR REALIZING HIGHER FLOATING IMPEDANCE (FI) CCT USING OA.S & 2ND-ORDER BANDPASS FILTER WITH CENTRE FREQUENCY OF 1KHZ

VCO., BUFFER & RF. DETECTOR OF EDDY-CURRENT APPARATUS FOR MEASUREMENT OF SUPERCONDUCTING TUNING FRONT END OF HAFLER DH-330 FM. TUNER/CCT SHOWING MOD. DETAILS FOR TUNER OUTPUT CCT/CCT SHOWING FRONT-END BOARD INCLUDING PREAMP., COMPARATOR, 40MHZ TDC. & ADDRESS GENERATOR/MODULE-ADDRESS

STOP-PULSE CCT (OF SYSTEM TO SCAN DIRECT-CONVERSION FSK. DATA RECEIVER) TO SLOW DOWN SCANNING PHOTODIODE TL-READER IN WHICH OUTPUT SIGNAL OF PHOTOELEMENT (PHOTODIODE) IS AMPLIFIED BY OA. WITH PROGRAMMABLE VOLTAGE-CONTROL CCT/CCSP'S MICROCOMPUTER SECTION/LEVEL-SHIFTING CCT/ENTRY-DISPLAY

CLOSED-LOOP SPEED-CONTROL CCT/COMPOSITE AMP./VIDEO MUX. BUFFER BROADBAND UTILITY RF. AMP. THAT COVERS HF. THROUGH UHF. WITH 13DB GAIN & +10DBM OUTPUT, INCLUDING GROUP DELAY EQUALISER USING MAXIM UNIVERSAL SC (SWITCHED CAPACITOR) FILTER, USING 250KHZ & 500KHZ

FOOT SWITCH ENCODER CCT TO USE WITH STANDARD GAIT ANALYSIS FOOT SWITCHES TO DECREASE NUMBER OF PHOTODETECTION & COUNTING CCT, THAT ALLOWS PRECISE MEASUREMENT OF POSITION OF TARGET TO BE MADE PHOTOFLASH CCT THAT EXTENDS LIFE OF CAMERA FLASH BATTERY, USING BIMOS. CHIP THAT PROVIDES CHOPPED

1 OF 2 PREAMP.S WITH INPUT IMPEDANCE OF 500OHM, CONNECTED TO ENDS OF EM. DELAY LINE, USING FET. IN ISOLATED CURRENT MONITOR WITH BW. OF 30MHZ TO 100KHZ & PEAK CURRENT HANDLING OF 50A ECONOMICAL 3-CHIP ACOUSTIC MODEM

BROADBAND CCT TO CREATE WELL PHASE-RELATED SIN & COS WAVEFORMS, USING SH. CONFIGURATION WITH BIOMEDICAL ISOLATOR INCLUDING VFC. TO CONVERT VOLTAGE INTO PULSE WITH VARYING REPETITION RATE, PROGRAMMABLE DIGITAL SPEEDOMETER & MILEAGE INDICATOR USING PROGRAMMABLE INTERFACE IC THAT PROVIDES

ISOLATED CONVERSION SYSTEM USING 12-BIT SERIAL-OUTPUT ADC., & 3 OPTOCOUPERS TO CONVEY SIGNALS PROGRAMMABLE-GAIN IA. INCLUDING 3 OA.S, THAT AUTOMATICALLY SETS 1 OF 4 ARBITRARY GAIN LEVELS FOR EVOKED EMG. SIMULATOR TO SIMULATE EVOKED COMPOUND MUSCLE ACTION POTENTIAL (ECAP), PRODUCING BIOELECTRIC (ECG.) AMP. (IA.) TO MONITOR ELECTRICAL ACTIVITY OF HEART/NOTCH (INTERFERENCE SUPPRESSOR)

PIONEER CD-FM-1 CD.-QUALITY FM. STEREO TRANSMITTER INTENDED AS CD.-AUDIO-TO-CAR-RADIO ADAPTOR, USING FRONT-END BUFFER & DUAL CFT (CONSTANT FRACTION TRIGGER) TO DETERMINE RISETIMES FROM 0.5 TO 12US

Sheet1

CLOSED-LOOP MOTOR CONTROL CCT INCLUDING THERMAL & OVERVOLTAGE PROTECTION/CONTROL CCT FOR BROADBAND LEVEL-LIMITED (ROBINSON) OSCILLATOR INCLUDING WIDEBAND AMP. & LIMITER STAGE/MOD. CCT PHOTOTRIODE & PREAMP./SHAPER TRACK & HOLD CCT CONSISTING OF FILTER AMP. & TRACK-&-HOLD 4 OA. BANDPASS FILTER WITH HIGH SELECTIVITY, DERIVED FROM STATE VARIABLE TECHNIQUE PROGRAMMABLE PULSE GENERATOR USING DAC. CONTROLLED BY IBM PC.-XT/ACQUISITION UNIT USING 12-BIT PROGRAMMABLE LEVEL DETECTOR USING MAXIM ULTRA-HIGH-SPEED COMPARATOR INCLUDING 8-BIT DAC. & V COOLED PREAMP. & ASSOCIATED EQUIPMENT, USING GAASFET.S & 2 ANZAC AMP.S, FOR USE IN PULSED NMR. S ISOLATION AMP. USING VACUUM-TUBE, SHUNT-REGULATOR TRIODE & 2 OA.S, TO TRANSFER DC.-TO-5MHZ SIGN. ISOLATED BIASED TRANSRESISTANCE AMP. (TRA) USING BURR-BROWN OPTICALLY-COUPLED ISOLATED AMP. W ISOLATED MICROELECTRODE AMP. INCLUDING CALIBRATION GENERATOR, FOR TRANSMEMBRANE POTENTIAL M GOOD QUALITY BASE STATION MICROPHONE WITH AMP. WITH AGC. TO KEEP AUDIO TO TRANSMITTER CONSTANT ISOLATED PREAMP. FOR IA. FOR MEDICAL & BIOLOGICAL RESEARCH/COMPUTER CONTROLLED MAIN AMP. (BBB) VFO. PORTION OF SUPERHET 30M QRP TRANSCEIVER, INCLUDING OSCILLATOR, BUFFER & AMP./TRANSMIT MIXE 1 OF 2 MIXERS OF SUPERHETERODYNE SYSTEM, THAT DOUBLE FREQUENCY SHIFT INPUT SIGNALS, USING BALA FRONT PANEL INTERFACE MODULE ADDRESS DECODE LOGIC (2)/DISPLAYS/SCRATCH PAD MEMORY (BBB)/PROC PROCESSOR & MEMORY OF COMPUTER-CONTROLLED SINGLE-CHIP MICROCOMPUTER PROGRAMMER/SERIAL & VFO. FOR LF. BANDS, CONSISTING OF COLPITTS FET. OSCILLATOR FOLLOWED BY 2-TRANSISTOR BUFFER AMP. FRONT END BOARD OF DRAKE R8 HF. COMMUNICATIONS RECEIVER, INCLUDING BANDPASS FILTERS, IF. & IMAGE PHOTOPULSE DISCRIMINATOR-PREAMP. IN PHOTOMULTIPLYING DEVICE, TO INTERFACE 3NS-WIDE HWHM PHOT BROADBAND ISOLATION AMP.

CMOS. POWER-LOAD CONTROLLER USING MC146805E2 UP., ITS FAMILY PERIPHERALS (RTC., ADC. & ROM.) & 74H CLOCK PULSE GENERATOR USING INTERSIL TIMER CHIP THAT IS GUARANTEED TO OSCILLATE AT FREQUENCIES CLOCK GENERATOR (OSCILLATOR) USING CMOS. INVERTERS, THAT OPERATES RELIABLY FROM 1MHZ TO >40MH CMOS. SHIFT-REGISTER CCT TO UNTIE UC'S IO. PORTS, USING UC'S BIT-MANIPULATION INSTRUCTIONS TO TAKE 1 OF 2 IDENTICAL AVALANCHE TRANSISTOR CCTS TO GENERATE PAIR OF SYMMETRIC GATING PULSES, INCLUDI CMOS.-COMPATIBLE RF. SWITCH USABLE AT VHF., WITH HIGH SWITCHING SPEED, USING EMITTER FOLLOWER/C PHOTOGATE FOR INPUT TO APPLE GAME PORT, USING LED. & PHOTOTRANSISTOR/BUFFER BETWEEN GAME PO STOPWATCH CCT THAT CAN TIME SINGLE & MULTIPLE EVENTS IN SEVERAL WAYS

BFO. WITH VARICAP TUNING/ALTERNATE BFO./DIRECT-CONVERSION RECEIVER

"COCO" MONOLINK TO PROVIDE VIDEO OUTPUT TO HIGH QUALITY MONOCHROME MONITOR

GROUND BOUNCE DEMONSTRATION BOARD TO COMPARE SIMULTANEOUS SWITCHING TRANSIENT PERFORMAN PHOTOTUBE BASING ARRANGEMENT FOR PMT., WITH OPERATING VOLTAGE OF 2KV/FAST HV. AVALANCHE PULS CLOCK FAN-OUT CCT WITH RECEIVER-SHAPER/DUAL CLOCKED DISCRIMINATOR CHANNEL WITH 3-STAGE DELAY FLOATING OSCILLATOR-TO-UP. INTERFACE/DATA PROCESSING CCT WITH PARALLEL-LINE INTERFACE (BBB) STOPWATCH CCT/FREQUENCY-TO-VOLTAGE CONVERTER CCT/WIDE-RANGE VOLTAGE PROBE

SPOT-WELDING DEVICE USING THYRISTOR & ELECTROLYTIC CAPACITORS TO PRODUCE HIGH CURRENT THROU VXO/RECEIVER USING LOW-POWER NARROW-BAND FM. IF. IC/BFO.S USING CRYSTAL & RESONATOR (2)/BANDPA BROADBAND RF. AMP. STAGE IN RECEIVE CHAIN/DRIVER & FINAL AMP. STAGES/LPF. BOARD INCLUDING FULL QS SCOPE COMMANDER USING WORD (VOICE) RECOGNITION PROCESSOR (PREPROGRAMMED 6804 UP.), TO CONTI ICOM 471A UHF. TRANSCEIVER (BBB)

BUOY FLASHER

ICOM 735 HF. TRANSCEIVER (BBB)

PROXIMITY SENSOR USING REFLECTED LIGHT TO INDICATE PRESENCE OR ABSENCE OF TARGET, INCLUDING PI PHOTOGATE TIMER TO MEASURE SPEED OF 22-CALIBER BULLET IN BALLISTIC PENDULUM EXPERIMENT, USING I PROGRAMMING-MODULE CCT TO PROGRAM BOTH MOTOROLA 28-PIN MC68705P3 & 40-PIN MC68705R3 & MC6870 CHOPPER DRIVE CCT FOR 12V 500MA UNIPOLAR STEPPER MOTORS, USING SPRAGUE IC THAT DECODES STEP & PROGRAMMABLE UV. SUNLAMP TIMER USING INTERSIL TIMER IC, TRIAC OPTOISOLATOR, TRIAC & HEX SCHMITT GROMMES HI-FIDELITY MODEL 207A PRE-AMP.

ACOUSTIC TRANSMITTER THAT EMITS HIGH-POWER 75KHZ PULSE TRIGGERED BY R WAVE OF ECG., USING IC'S

PROCESSOR-INTERFACE BOARD OF MULTI-MODE 2M TRANSCEIVER, USING MOTOROLA UP. WITH BULIT-IN PIA., BOOSTER TO BOOST OUTPUT SWING OF CHOPPER OA./ZERO-OFFSET COMPARATOR/LOGARITHMIC AMP. WITH 6 PROTECTION CCT (REFLECTOMETER VSWR. SENSOR) AGAINST LOAD MISMATCHING FOR RF. POWER TRANSIST PROTECTION CCT TO PREVENT APPLICATION (BY AMP.) OF DIRECT VOLTAGE TO LOUDSPEAKERS, INCLUDING R DIODE PROBE THERMOMETER WITH DIGITAL READOUT, MEASURING FROM -25DEG C TO 125DEG C, USING CONS PHOTO-DARLINGTON RELAYS (2)/PREAMP.S (4)/COIN FLIPPER/FLASHING LED. CCT PHOTOTUBE BASE CCT/LED. PULSER SYSTEM THAT RAPIDLY DISCHARGES SMALL CAPACITOR THROUGH VMOS. VFO. FOR 6.2 TO 6.7MHZ FOR USE IN AMATEUR TRANSCEIVER, WITH HIGH STABILITY & LOW NOISE-BAND PRODU VCO. WITH OUTPUT FREQUENCY SPAN OF ~1 DECADE/CCT WITH SPAN OF 3 DECADES, USING PRECISION VOLTA FRONT-END UNIT OF INSTRUMENT EMPLOYING ZEROING TECHNIQUE TO MEASURE HALL VOLTAGE FOLLOWING CMOS.-POWERMOS. PWM. FRACTIONAL HORSEPOWER MOTOR DRIVE BASED ON QUAD COMPARATOR, DUAL J-K STOP RATE REDUCER CCT TO PERMIT TIMING CCT TO BE USED IN PHOTON-COUNTING FLUORIMETERS WITH HIG BROAD-COVERAGE SQUARE-WAVE GENERATOR WITH FREQUENCY RANGE OF 47KHZ TO 52MHZ, WITH EMITTER AXON HILLOCK ANALOG INCLUDING PACEMAKER POTENTIAL, INPUT, OUTPUT & THRESHOLD SUBUNITS/SYNAPS VFO. USING SERIES-TUNED CLAPP OSCILLATOR/DOUBLER-DRIVER/WIRING DIAGRAM INCLUDING PS. BLOWER-MOTOR CONTROL CCT USING P-CHANNEL MOSFET. FOR POWER SWITCH IN UPPER LEGS OF BRIDGE, T FRONT-END ACTIVE FILTER/MOD.S TO K9NG MODEM, INCLUDING DELAY EQUALIZER/BATTERY CHARGER-PS. VFO. CCT OF 1.8MHZ AM. STATION (TRANSMITTER & RECEIVER), INCLUDING SWITCHING & CONTROL CCT/MODUL FLOATING-POINT DAS. WITH AUTOMATIC GAIN & SOFTWARE-PROGRAMMABLE GAIN ADJUSTMENT, INCLUDING FI BROADBAND DISTRUBUTED AMP. USING SIGNETICS MEDIUM POWER DMOSFET.S, WITH -3DB BW. OF 200MHZ, 13 CROSSPLOT TEXT FIXTURE USING BUFFER AMP., DATA REGISTERS, & DUAL 1-SHOT, TO DYNAMICALLY EVALUAT PROPOSED INSTRUMENTATION SYSTEM INCLUDING BRIDGE USING THERMISTOR, 50HZ NOTCH FILTER, DAC., AD SCOPE HARDWARE (ADC.-OSCILLOSCOPE-DATA LOGGER) THAT ALLOWS SIMULATION OF OSCILLOSCOPE ON IBI PROGRAMMABLE GAIN AMP. (PGA) USING 2 QUAD CMOSFET.S, DESIGNED WITH PARTICULAR ATTENTION TO SET PHOTODIODE AMP./INTEGRATOR/OPTICAL RECEIVER/RECEIVER WITH SELF-ADAPTING THRESHOLD/18NS CCT BI PROGRAMMABLE-GAIN AMP. USING ANALOG MUX. & LOW-NOISE, LOW-DRIFT IA. FLOPPY-DISK CONTROLLER (FDC)/HARD DISK INTERFACE USABLE IF NOT USING HARD-DISK CONTROLLER IN 1 C ACOUSTIC FIELD GENERATOR II THAT RECONSTRUCTS 3-DIMENSIONAL FIELD/DELAY SECTION/VOLUME & REVER ISOLATED INTERFACES FOR COMPUTER CONTROL OF CIRCULATOR PUMP & FAN (2)/TEMPERATURE SENSOR/8-C PROGRAMMABLE AC. REFERENCE CCT USING MDAC. & OA., PROVIDING HV. OR HIGH POWER OUTPUT (2)/CCTS T ISOLATION AMP. USING PWM. & OPTOCOUPLING TO TRANSFER LF. SIGNALS ACROSS BARRIER OF 3KV OR MORE PROGRAMMABLE STAIRCASE GENERATOR PROTOTYPE ELECTRONIC CAR SPEEDOMETER & ODOMETER CLOCK HARDWARE & ITS CONNECTION TO ELF II BUS, TO DEVELOP CLOCK INTERRUPTS TO ALTERNATE WITH IN FLOPPY DISK CONTROLLER FOR AIM-65 MICROCOMPUTER/SAME WITH DMA. (BBB)/CONTROLLER FOR VMEBUS (F PROGRAMMABLE TIMER THAT RECEIVES BCD. NUMBERS FROM IBM PC. VIA PARALLEL IO., INCLUDING OCCLUSIO PROCESS-SIGNAL MONITOR CCT THAT PRODUCES CONTACT CLOSURE WHILE IGNORING CHATTER AT ITS INPUT 1 OF 4 CHANNELS OF BUFFER HYBRID/1 OF 2 ANALOG OUTPUT STAGES ON MOTHERBOARD, INCLUDING SH. DEV FLOW-COMPUTER INTERFACE FOR VIC-20 COMPUTER, INCLUDING OPTICAL ASSEMBLY (USING IR. LED. & PHOTC FLOATING INPUT (GROUND) DIFFERENTIAL AMP. TO ENHANCE PERFORMANCE & RELIABILITY OF COHERENT CR- GTO. DRIVE & SNUBBER CCTS, IN WHICH CONTROL SIGNAL IS ISOLATED BY PULSE TRANSFORMER, & DIODE PRE BOOST CONVERTER (1ST STAGE) OF SMPS., THAT OPERATES AT 75KHZ AT 117V RMS. INPUT/SINGLE-ENDED FEE CLOCK-CALENDAR CHIP & RTCIO ADDRESS CCT USED BY RTCIO BOARD/CCT USING 8-BIT SUCCESSIVE-APPROX PHOTO DETECTOR WITH 3RD-ORDER BESSEL-TYPE BANDPASS FILTER/LINEARIZED VOLTAGE-CONTROLLED DEL FRONT END AMP.-DRIVER FOR TRW 6-BIT 100MHZ FLASH ADC. WITH BINARY CODED VALUE AT OUTPUT, THAT IS CLOCK & TIMING CCT OF CORRECTOR, USING POWER LINE FREQUENCY/MODULATION CCT/DEMODULATION CCT PHOTOMULTIPLIER INTERFACE/RELAY UNIT OF INSTRUMENT CONTROL INTERFACE CONECTED TO PARALLEL US ISOLATION AMP. THAT FEATURES HIGH REJECTION OF COMMON-MODE VOLTAGES & PROTECTION AGAINST INP CMOS. OSCILLATOR USING BJT. (AS SUBSTITUTE FOR POTENTIOMETER) CONFIGURED AS VARIABLE RESISTOR,

1 OF 8 SCD (SIGNAL CHANGE DETECTOR) CHANNELS/BN (BOTTLENECK) CCT TO MUX. 8 PARALLEL SCD CHANNELS
 CLOCK REGENERATION CCT/ANALOG SWITCH DEMUX./ANALOG SIGNAL PATH INCLUDING 6TH-ORDER LOW-PASS FILTER
 FRONT END OF SENSE AMP., INCLUDING SOURCE FOLLOWER INPUT STAGE & EMITTER FOLLOWER OUTPUT STAGE
 PROTOTYPE CCT USING IEE PIXIE "LCD. SWITCH EVALUATION KIT", INCLUDING HITACHI INTERFACE CHIP, SRAM, VCO,
 VFO. (FET. HARTLEY OSCILLATOR)/DIRECT CONVERSION RECEIVER/TRANSMITTER USING CLASS C POWER AMP. & VCO.
 OF AF. WAVEFORM GENERATOR FOR ELECTROPHONIC SYNTHESIZER/2 VCA.S & LIMITER/SINE WAVE SHAPER
 NEOPHYTE RECEIVER FOR USE AT 15M, USING MIXER, WITH MOD. TO IMPROVE AUDIO PERFORMANCE FOR BETTER
 ACOUSTIC PROCESSOR TO PROVIDE CRISPER SOUND, INCLUDING BUFFER AMP., HIGH-PASS FILTER & HIGH GAIN
 DRO (DIELECTRIC RESONATORS IN OSCILLATOR) CCT, SHOWING DIELECTRIC RESONATOR-TO-TRANSISTOR DISCREPANCY
 PHONO PREAMP. WITH RIAA EQUALIZATION FOR MAGNETIC CARTRIDGE, & GRAPHIC EQUALIZER, USING DUAL LOW-IMPEDANCE
 GROUNDED-OUTLET CHECKER USING NEON BULBS
 FLOATING ISOLATED SOLID-STATE SWITCH ACTING AS CCT BREAKER TO SENSE & INTERRUPT OVERCURRENT CARRYING
 NEON LAMP MICROPOWER RELAXATION OSCILLATOR (FLASHER CCT) WHOSE LAMP FLASHES SEVERAL TIMES AFTER EACH
 BLOWN-FUSE INDICATOR IN WHICH NEON BULB (LAMP) GLOWS STEADILY WHEN FUSE IS GOOD & FLASHES AT ~10%
 VFO. BOARD OF 10M SIDEBAND TRANSMITTER/BALANCED MODULATOR-MIXER BOARD USING DIODE-RING MIXER & VCO.
 BROADBAND SINGLE-ENDED 2-STAGE LNA. COVERING 100 TO 2000MHZ BAND, USING NEC SILICON BIPOLAR TRANSISTORS
 PHOTOGRAPHIC TIMER FOR ENLARGER, COVERING 0.9S TO 100S IN 2 RANGES
 NEON-TUBE RELAXATION OSCILLATOR TO DEMONSTRATE BASIC CONCEPTS OF RC. CCT
 PROCESSING HEART OF HIGH-PERFORMANCE WORKSTATION COMPOSED OF ALMOST NO GLUE LOGIC
 PROBE-CAPACITANCE TO AF. CONVERSION CCT (BASEBAND GENERATOR)/FREQUENCY TO VOLTAGE CONVERTER
 BROADBAND VIDEO AMP. WITH GAIN OF 100, BUFFERED BY EMITTER FOLLOWER AFTER FILTERING TO REMOVE
 CHOPPER-STABILIZED AMP. INCLUDING STRAIN-GAUGE BRIDGE & ANALOG SWITCH/CCT TO PRODUCE SWITCHING
 1 OF 8 CHANNELS OF INTERFACE (DISH) ELECTRONICS FOR MULTIELECTRODE ARRAY, USING 8-TO-1 MUX. WHOSE
 PHOTOCURRENT PULSE PROCESSING CHAIN INCLUDING PHOTODIODE (PD), CHARGE AMP. (INTEGRATOR), CR-RAMP
 PROTECTION CCT TO DELAY ENERGIZING OF OUTPUT RELAY BY A FEW SECONDS FROM POWER-ON & MONITORING
 "VOLTONE" AUDIBLE AC.-DC. VOLTMETER THAT SOUNDS TONE WHOSE FREQUENCY IS PROPORTIONAL TO MEASUREMENT
 PROJECTILE DETECTOR USING LIGHT REFLECTION EMITTER-SENSOR ARRAYS, FOR TOF. MEASUREMENT IN DETECTION
 FRONT END AMP. OF READOUT ELECTRONICS FOR URANIUM-TMP CALORIMETER/FILTER & DUAL SH. CCT/SUMMING
 VCO. OF AUTOMATIC TUNING (PROGRAMMING) CCT OF MCF, CONSISTING OF MOSFET.-C INTEGRATOR, CMOS. S
 DROP-FALL DETECTOR FOR SYNCHRONIZATION OF NATURAL-DROP EXPERIMENTS WITH DROPPING MERCURY ELECTRODE
 FRONT-END AMP. FOR URANIUM-TMP CALORIMETER, WITH 4 INPUT JFET.S IN PARALLEL, & OUTPUT STAGE THAT
 1 OF 4 AMP.S OF 4-TRACE ADAPTER FOR SINGLE OSCILLOSCOPE CHANNEL/MUX. THAT ACCEPTS SIGNALS FROM
 FRONT-END ELECTRONICS (AMP. WITH EMITTER-FOLLOWER FRONT STAGE, 2 STAGES & FINAL EMITTER-FOLLOWER)
 PROGRAMMABLE FILTER CCT THAT SWITCHES MATCHED RESISTORS TO CHANGE RC. TIME CONSTANT OF LOW-PASS
 GTO. STAGE OF 5KV SWITCH CAPABLE OF SWITCHING >4MW OF PEAK POWER, CONTROLLED VIA FIBER-OPTIC LIGHT
 PROBE CURRENT MONITOR/CURRENT MONITOR WITH IMPROVED PROBE CURRENT SENSITIVITY/BIAS VOLTAGE
 FLOWMETER USING HIGH-IMPEDANCE LOW-GAIN OA. TO ACHIEVE 2-FOLD ENHANCEMENT OF VOLTAGE (STREAMLINE)
 POOGE-3 INCLUDING EXISTING CCT & SERVO-CCT/LOW-Z, REGULATED PS. (AUAM8504#)
 ISOLATION AMP. WITH RESPONSE FREQUENCY UP TO 250KHZ, INCLUDING PHOTOCOUPLER (FOR ELECTRICAL ISOLATION)
 CLOCK-FEEDTHROUGH COMPENSATED SWITCHED-CAPACITOR AMP. THAT SUPPRESSES CLOCK-FEEDTHROUGH
 QUOTIENT CCT BASED ON VOLTAGE VARIABLE RESISTANCE (VVR) OF JFET./NAY-BUDAK VOLTAGE-CONTROLLED
 FRONT-END AMP. OF IR. RECEIVER, WITH FEEDBACK LOOP (COLD RESISTANCE SCHEME) TO REJECT STRAY LIGHT
 FRONT-END OF MOD. CAPACITIVE 3RD-ORDER CURRENT-CURRENT FEEDBACK 500MHZ OPTICAL RECEIVER, USING
 BOOTSTRAPPED PARALLEL T NOTCH FILTER/TUNED RESPONSE SYSTEM BASED ON WIEN BRIDGE/VERY STEEP
 3-OA. ANALOG MULTIPLIER/4 QUADRANT MULTIPLIER FOR AC. OPERATION, USING FET., 2 UNITY GAIN INVERTING
 PHOTODETECTOR
 PROGRAMMABLE-GAIN AMP. (PGA) USING ANALOG SWITCH/CCT USING MUX./HIGH-PERFORMANCE SH. CCT USING
 GROUND-FAULT-DETECTION CCT THAT AMPLIFIES & SQUARES UP OUTPUT OF HALL-EFFECT SENSOR & ENERGIZES
 ISOLATED BIOMEDICAL STIMULATOR TO GENERATE CONSTANT-CURRENT STIMULUS, WITH BW. FROM 50HZ TO 500KHZ

ISOLATION AMP. (ANALOG INPUT STAGE OF MULTICHANNEL DAS.) USING MODULATION-DEMODULATION TECHNIQUE
 BROADBAND (1-250MHZ) SPDT. RF. SWITCH USING BALANCED-CURRENT CANCELLATION PROPERTIES OF TRANSISTORS
 PHOTOGATE SYSTEM SHOWING 1 OF 14 PHOTOTRANSISTORS (PHOTODARLINGTONS) & RELAY DRIVE TRANSISTORS
 PROTOTYPE COMMUTATION QUAD-MOSFET. DBM.
 PROTOTYPE COMMUTATION (SWITCHING) DBM. USING MONOLITHIC QUAD-MOSFET. RING DEMODULATOR SUITE
 ROOF UNIT OF WIND GAUGE, USING MICROCONTROLLER (PIC PROCESSOR) & PROPELLORS, TO MEASURE WIND
 GROUNDED-FIELD REGULATOR (MOD. DESIGN OF PULLED-UP FIELD CCT) INCLUDING POSITIVE FEEDBACK TO SHUNT
 PROCESSOR-MEMORY BOARD OF MICROCOMPUTER, INCLUDING 6MHZ UP., 64K-BYTES OF RAM., SYSTEM EPROM
 VXO USING QUARTER-WAVE LINE TO TRANSFORM VARIABLE CAPACITOR TO "PHANTOM" VARIABLE INDUCTANCE
 NEON TUBE STARTER USING SIDACS THAT SWITCH ON WHEN VOLTAGE EXCEEDS CERTAIN LEVEL, PRODUCING
 PHOTON COUNTER INTERFACE USING TIME BASE CCT TO CONTROL TIMING OF COUNT SEQUENCE, & BCD. COUNT
 ROOM MODULE OF CENTRALIZED REMOTE ALARM (NURSE CALL) SYSTEM (CRAS) TO ALERT WHEN PATIENT MONITOR
 ICOM IC-U2AT HANDHELD POCKET FM. TRANSCEIVER WITH COVERAGE FROM 140.0 TO 169.9MHZ, 10 MEMORIES,
 PHONE FLASHER/METAL DETECTOR USING COLPITTS OSCILLATOR/VARIABLE 10A AC.-DC. PS./CONTINUITY TEST
 PHOENIX SYSTEMS P-94-SR 2-BAND-PER-CHANNEL PARAMETRIC EQUALIZER THAT ALLOWS SELECTION OF CON
 BROADBAND IF. AMP. USING CURRENT-FEEDBACK OA., WITH 18DB GAIN & 7DB NF./WIDEBAND 34DB GAIN IF. AMP.
 FOOT OPERATED TUNER SUITABLE FOR BASS OR GUITAR, THAT PROVIDES TUNING INDICATION BY LED. RUNNING
 PHOTOCONDUCTOR CCT OF SIMPLE ELECTRO-OPTICAL SYSTEM, USING CLAIREX PHOTOCONDUCTING CELL WH
 PROPORTIONAL FEEDBACK CONTROL CCT INCLUDING NONLINEAR VCO., DIFFERENTIATOR, AMP.S, PEAK DETEC
 PHOTOACOUSTIC PREAMP. INCLUDING PZT., WITH FREQUENCY RESPONSE OF 28-400KHZ, VOLTAGE GAIN OF 37
 PHOTOIONIZATION I-V CONVERTERS INCLUDING PHOTOACOUSTIC (PA) & PHOTOIONIZATION (PI) PREAMP.S, TO C
 CROWBAR CONTAINING THYRISTOR THAT SHORT-CCTS OUTPUT WHEN SUPPLY VOLTAGE RISES TOO HIGH, REM
 PROGRAMMABLE-FREQUENCY AUDIO GENERATOR USING IC SINE WAVE GENERATOR INTO WHICH 16-BIT DIGITA
 FRONT-END AMP. FOR SCINTILLATOR CALORIMETER WITH PMT. READOUT, WITH LOW DROOP, LOW NF. IN 100MH
 CLOSED LOOP FEEDBACK SYSTEM THAT PRODUCES CONSTANT PHASE SHIFT (KEEPS PHASE DIFFERENCE CON
 PHONO PREAMP. WITH RIAA EQUALIZATION
 ISOLATION AMP. THAT CAN WORK ACROSS 5000V BARRIER WITH EXCELLENT (0.05%) LINEARITY, USING BIFURCA
 1 OF 2 CHANNELS IN TOPS (TOTAL OZONE PORTABLE SPECTRORADIOMETER) OZONOMETER, USING OA., G1961
 GROUNDED INDUCTANCE SIMULATORS USING OA.S (2)/SIMULATION OF FLOATING INDUCTOR WITH INDUCTANCE
 PROTECTION MODULE FOR VHF. POWER AMP., TO PROVIDE PROTECTION FROM EXCESSIVE DRIVE POWER (OVE
 PHONO PREAMP. WITH RIAA EQUALIZATION/TAPE PREAMP. WITH NAB EQUALIZATION
 ECONOMIC TAC. TO MEASURE TIME INTERVALS IN ORDER OF MILLISECONDS, WITH POSITIVE SIGNAL OUTPUT P
 CLOCK-CALENDAR INTERFACE BOARD FOR ATARI 520ST CARTRIDGE PORT, WITH POWER-DOWN ISOLATION FOR
 GOOD TEST CCT FOR CMRR./OPTIONAL BUFFER FOR TEST CCT
 FRONT END ELECTRONIC CARD OF TRANSITION RADIATION DETECTOR (TRD) PROTOTYPE TO MEASURE ENERG
 3-OUTPUT TERNARY JK SEQUENCER INCLUDING COMPARATORS, 4-16 LINE DECODER, 20-4 LINE ENCODING LOG
 BROADBAND VHF. FET. AMP./DIGITAL THERMOMETER/AUDIO POWER AMP./SLAVE FLASH CONTROL/TIMER
 SCOPE CONTROL CCT/VARIABLE TRIGGER DELAY CCT/SIGNAL CONDITIONING CCT THAT AMPLIFIES & ADJUSTS
 CLOSED-LOOP BIAS REGULATOR
 LOOK-UP TABLE TO ALLOW PIXEL GREY-LEVELS TO BE MANIPULATED IN REAL TIME, WITH LOOK-UP DATA IN ROM
 PHOTOMULTIPLIER HV. PS. SYSTEM & SIGNAL TRANSMISSION SCHEME, INCLUDING PHILIPS PMT., LOW CURREN
 FLOATING WIDEBAND ELECTRONICALLY VARIABLE GENERAL-RESISTANCE CONVERTER
 PROGRAMMABLE-GAIN AMP. USING TRANSCONDUCTANCE-OA. PACKAGE CONTAINING 2 AMP.S WHOSE HIGH IMP
 SLOW TURN-ON 15V REGULATOR/LOW COST 3A SWITCHING REGULATOR/TRACKING PREREGULATOR WITH ADJ
 BROADBAND DIGITAL NOISE GENERATOR (STANDARD SOURCE OF WHITE & PINK NOISE) USING 17-STAGE PSEU
 PROGRAMMABLE INVERTING AMP. FOR LINEAR DIGITAL CONTROL OF GROUNDED INDUCTANCE, USING OA./SIMI
 PROGRAMMABLE PS. (PPS) (SWITCHING DOWNCONVERTER) OF TEMPERATURE CONTROL SYSTEM, USING PWM
 PHOTOTACHOMETER/BATTERY-BASED PS.
 BOOST CONVERTER WITH 5V INPUT & 15V OUTPUT AT 0.2A/2-OUTPUT FLYBACK CONVERTER WITH 25-30V INPUT

PROPORTIONAL-INTEGRAL-DERIVATIVE (PID.) SERVO AMP./KRAUSZ & COHEN SERVO-SYSTEM
 PHONE-LINE MONITOR THAT FLASHES LED. WHENEVER TELEPHONE CONNECTED TO THAT LINE IS OFF ITS HOOK
 PHOTODIODE ARRAY TRIGGER CCT TO ALLOW RAPID READOUT OF DIODE ARRAY, INCLUDING COMPARATOR, DIODE
 2 OA.S FULL-WAVE RECTIFIER CCT USING DIFFERENCE AMP./3 OA.S FULL-WAVE RECTIFIER CCT USING DIFFERENCE
 PROPORTIONAL CONTROLLER FOR MOTOR SPEED, CONSISTING OF 1KHZ OSCILLATOR, RAMP GENERATOR, VARIATOR
 PHOTOTRANSISTOR SCHMITT TRIGGER BUFFER CCT
 CLOCKLESS ADC.
 AXON ANALOGUE INCLUDING MEMBRANE EQUIVALENT CCT (4)/SYNAPTIC ANALOGUES (3)/PULSE GENERATOR WITH
 CLOCK CCT USING PROPRIETARY CLOCK IC, 4 DISPLAYS, & RIPPLE COUNTER CONFIGURED AS CRYSTAL-CONTROLLED
 PROM. PROGRAMMER INCLUDING 50KHZ OSCILLATOR & 10US PULSE GENERATOR, TO BLOW FUSE LINKS (LOCAL)
 DIODE DETECTOR CCT/SIMPLE DC. AMP.S USING OA., WITH VOLTAGE GAIN OF ~100, TO DRIVE METER (2)
 GROUND FAULT INTERRUPTER (GFI) CCTS USING GFI CONTROLLER IC, INCLUDING SCR., GROUND NEUTRAL & SENSITIVE
 PROGRAMMABLE 30V DC. PS. TO CONTROL VOLTAGE ACROSS AL-CLAD GC. COLUMNS (FOR COLUMN HEATING),
 BROWNOUT DETECTOR USING PRECISION TIMER TO SENSE UNDERVOLTAGE CONDITIONS (DOWN TO 95V) ON LINE
 PHOTOMULTIPLIER DETECTION SYSTEM/MULTIFUNCTION INTERFACE UNIT
 ICOM IC-R71A COMMUNICATIONS RECEIVER (RADIO) RAM. BOARD/NEW R71 MEMORY (RECEIVER) BOARD INCLUDING
 VMOS. LED. DRIVER/LIGHT DIMMER CCTS (2)/AUDIO CCTS (2)/VHF. LINEAR AMP./40W AUDIO AMP.
 PHOTOMETER
 PHONY BURGLAR ALARM ("ELECTRONIC SCARECROW") FOR SCARING AWAY BURGLAR
 FOOLPROOF COMBINATION LOCK
 SCOPE BARGRAPH UNIT
 BROADBAND RF. REFLECTED-WAVE DETECTOR CCT USING HIGH-SPEED VOLTAGE COMPARATOR & DIODE DETECTOR
 SLOW SCAN TV. RECEIVING INTERFACE/SLOW SCAN RECEIVE-TRANSMIT INTERFACE
 ACOUSTIC FIELD GENERATOR/SPEECH FILTER/CROSSOVER NETWORK TO DRIVE SUBWOOFER SYSTEM/DELAY STABILIZER
 PHONE-ACTIVATED AUDIO-MUTING CCT THAT AUTOMATICALLY SILENCES STEREO OR TV. WHEN TELEPHONE RINGS
 PROPORTIONAL VALVE (PV) CONTROL CCT INCLUDING ALARM/LIQUID-NITROGEN (LN) TANK SWITCHING INTERFACE
 VMOS. SINGLE-TRANSISTOR AMP. FOR MATCH TO 25OHM/PUSH-PULL CCT WITH APPROPRIATE BIAS NETWORKS
 CHOPPER CCT THAT CHOPS DC. VOLTAGE SOURCE IN 2-15V RANGE INTO UNIPOLAR SQUARE WAVE WITH PEAK
 BIOMEDICAL AMP. THAT IS COMBINATION OF DRIVEN RIGHT-LEG CONFIGURATION & NON-DIFFERENTIAL AMP., TO
 TWO-FER (2-FER) RECEIVER USING EMITTER FOLLOWER TO PROVIDE +7DBM TO MIXER, DBM., & AMP. CHIP FOR
 PROGRAMMABLE-FREQUENCY ASTABLE CCT/BASIC SQUARE-WAVE ASTABLE CCT/BASIC FREQUENCY-TO-VOLTAGE
 BROADBAND DEMODULATOR USING SAW. FILTER, WITH GAIN CONTROL >40DB/LORAN-C 100KHZ DETECTOR USING
 BOOSTED-OUTPUT-CURRENT OA. CCT/OA. POWER AMP.S (2)/AM.-RADIO POWER AMP./CERAMIC PHONO AMP./WH
 PROTECTION GRID LOGIC TO HOLD PROTECTION GRID AT -350V IF 16X LINE OF MULTIAMP. BOARD EXCEEDS US
 FROST INDICATOR TO WARN OF ICE, USING TEMPERATURE SENSOR OUTSIDE CAR, & RED LED. TO FLICKER WHEN
 PROGRAMMABLE CONSTANT CURRENT SOURCE/PROGRAMMABLE GAIN PREAMP. (2)/DVM. & 3.5-DIGIT LCD. UNIT
 PROGRAMMABLE PS. WHOSE RESISTOR RATIO ACHIEVES DESIRED V_{OUT}, USING ADJUSTABLE VOLTAGE REGULATED
 PHOTOVOLTAIC CONTROLLER TO ALLOW CHARGING OF LEAD-ACID BATTERIES, INCLUDING LOW-STATE-OF-CHARGE
 FLOATING NEGATIVE RESISTANCE CONVERTER TO CONVERT RESISTANCE TO CORRESPONDING NEGATIVE RESISTANCE
 PROCESSING CCT & CODING & VOICE SYNTHESIZER CCTS THAT PRONOUNCES CHARACTERS READ BY HAND-HELD
 DIODE DETECTOR USING BIPOLAR TRANSISTOR AS "DIODE" DETECTOR, CURRENT REGULATOR & 2 OA.S, TO DRIVE
 PHOTOMULTIPLIER BASE CCT TO DRIVE TWISTED-PAIR SYMMETRICALLY BY OUTPUT PULSES OF ANODE & LAST
 PHOTO-INTERRUPTER (OPTOELECTRONIC LEVEL DETECTOR) WITH WHICH MANOMETER BECOMES PRESSURE SENSITIVE
 FRONT-END AMP. BASED ON OA., WITH MAXIMUM GAIN OF 10/1-TRANSISTOR AMP. FOR ADDITION TO FRONT-END
 FLOATING INDUCTANCE SIMULATOR (FIS) CONSISTING OF 2 GROUNDED INDUCTANCE SIMULATORS (GIS'S), BASIC
 CLOSED LOOP SPEED CONTROL FOR DC. MOTORS, OFFERING ELECTRICAL ISOLATION USING OPTOCOUPLEDERS
 CLOSED-LOOP POSITION CONTROLLER USING POWER OA. TO DRIVE PERMANENT-MAGNET MOTOR ACCORDING TO
 PROTECTION CCT & UNITY-GAIN BUFFER USING OA. & DUAL FET./4 QUADRANT MULTIPLIER/INTEGRATOR/HIGH POWER
 PROGRAMMABLE INTERFACE THAT INTERFACES INMOS B004 PC. ADD-IN BOARD (INCLUDING 15MHZ T414 TRANSISTOR)

Sheet1

1 OF 8 CHANNELS OF DIFFERENTIAL DISCRIMINATOR, INCLUDING AMP. WITH GAIN OF 10, & DIFFERENTIAL COMP
BOOST (DC.-DC. SWITCHED POWER) CONVERTER WITH 60KHZ SWITCHING FREQUENCY & 4KHZ SAMPLING FREQ
VFO. CCT, CONSISTING OF OSCILLATOR, BUFFER & AMP.
PHOTO-TRIGGER CCT THAT UPGRADES POLAROID INSTANT CAMERA TO OPERATE BY REMOTE CONTROL
BROADBAND LINEAR POWER AMP.
DIODE MIXING CCT THAT IS FED BY PSEUDORANDOM BINARY SIGNAL THAT DETERMINES PHASE OF RF. PULSES
DIODE CLIPPER/TRANSISTOR CLIPPERS (4)/DIODE CLIPPER PROVIDING SYMMETRICAL ACTION/TRANSISTOR CLIP
BIOBOX WHICH, WHEN CONNECTED TO TRS-80 COMPUTER, DETECTS BODY CHANGES DUE TO STRESS & TENSIO
1 OF 2 ENVELOPE DETECTORS (DEMODULATORS) TO CHECK LINEAR AMP., SAMPLING RF. AT INPUT & OUTPUT, &
BOOTSTRAPPED HIGH-GAIN AMP./DIFFERENTIAL AMP. ("LONG-TAILED" PAIR)/PHASE-SPLITTERS (2)/RELAY-DRIVIN
BIOELECTRIC-MONITOR INPUT STAGE INCLUDING SILVER-SILVER-CHLORIDE ELECTRODES CONNECTED VIA ISOL
ISOLATED VFC. (VCO.) THAT SENSES (MEASURES) HV.S, COUPLED TO INSTRUMENTATION BY OPTOISOLATOR & I
BOOSTER AMP. WITH FREQUENCY RESPONSE TO 20000HZ, USABLE FOR BOTH LOW-Z & HI-Z MICROPHONES
DIODE-EVALUATION CCT/OA./COMPOUND ZENERS (2)/CCT USING OPTOISOLATOR BIASED TO HANDLE FASTER (5
DIODE DETECTOR TO SAMPLE RF. ENERGY/SIMPLEST FORM AM. RECEIVER
FRONT END AMP. THAT COLLECTS INDUCED CHARGE ON STRIP, SHAPES & HOLDS IT/GAIN CONTROLLED ADC. (E
CLOSED-LOOP FIELD TRACKING SENSOR CCT/OPEN-LOOP BRIDGE-TYPE MONITORING CCT
CLOCK THAT DISPLAYS TIME IN MANNER IN WHICH IT IS SPOKEN (E.G. "20 BEFORE 10")/PS.
VFO. & CONTROL CCTS FOR QRP TRANSMITTER/DRIVER & POWER-AMP. PORTION
PHOTOTRANSISTOR INPUT CCT (SIMPLE BRIDGE CCT TO ALLOW POINTER-MOUNTED PHOTOTRANSISTOR TO FO
PHOTOTRANSISTOR MODULATOR CCT (ON-OFF SWITCH) THAT SWITCHES ANTENNA AT DISTANCE
BLOWER-MOTOR CONTROL CCT BASED ON USE OF TRIAC
BROADBAND FULL-WAVE RECTIFIER/EMITTER FOLLOWER (EF) OSCILLATOR/GROUNDED BASE EF OSCILLATOR/IN
1 OF 25 CCTS OF LIGHT DISPLAY, CONTAINING NEON BULB CONNECTED TO TIMING CCT CONSISTING OF RESIST
LOOP ANTENNA PREAMP. USED FOR FREQUENCY RANGE OF 10KHZ TO 500KHZ
SCOPE WITH DISPLAY MADE FROM 8 LED.S/MINIATURE SOLID-STATE SCOPE WITH AUTOMATIC TRIGGER/VERTIC
ECONOMICAL TRANSISTORIZED CCT FOR IV (CURRENT-VOLTAGE) CHARACTERIZATION OF SOLAR CELLS OR ARR
VXO/VXO AMP./UHF. ASSEMBLY/DUMMY LOAD-POWER-MEASURING ASSEMBLY/UHF. NARROWBAND PICK-OFF
SLOW TIME BASE FOR CHART RECORDERS
PHONOCARDIOGRAPH CONSISTING OF IA., TO DETECT HEART SOUNDS (BEATS)
"BOOSTER SMARTS" DEVICE TO MAKE JUMP-STARTING MOTOR VEHICLE FOOLPROOF, CONSISTING OF LED.S, R
VXO-MULTIPLIER CCT, USING DUAL-GATE MOSFET. IN COLPITTS CCT/DRIVER & FINAL AMP.
VFO.
VFO./DIRECT CONVERSION RECEIVER/80M TRANSCEIVER/LV. INDICATOR
MNOS-EAROM. INTERFACE/EEPROM. INTERFACE THAT ENSURES NO WRITE OPERATIONS WHILE POWER IS APPL
PHOTOCURRENT & LOG AMP., USING FET.-OA. & INTERSIL MONOLITHIC-LOG AMP. THAT IS TEMPERATURE COMP
PHOTOCELL, TRANSISTOR-DIODE AC. POWER CONTROL USING LDR.S
BROADBAND LINEAR-AMP. STRIP
PROGRAMMABLE DIVIDE-BY-N COUNTER
PROTECTED PSU (PS. UNIT)
LOOP-GAIN MODULATOR CONSISTING OF RC. PHASE SHIFT SINUSOIDAL OSCILLATOR EMPLOYING PEAK DETECT
VCO. WITH CONSTANT TUNING RATE, TO SYNTHESIZE VARIABLE REACTANCE BY SAMPLING TANK CURRENT & IN
DIODE-EVALUATION CCT/OA. CCT USING DIODES ACROSS INPUT, TO AVOID OVERDRIVE/9V COMPOUND ZENERS
BROADBANDED VXO OSCILLATOR TO DRIVE RYAN COMMUNICATIONS EXCITER, INCLUDING CRYSTAL, KEYING TR
VMOS. AUDIO AMP./ANALOG SWITCH (VMOS. BIDIRECTIONAL ANALOG GATE)/HIGH-CURRENT POTENTIOMETER
PHOTOGATE CCT TO DETECT LIGHT BEAM INTERRUPTED BY PENDULUM, WITH OUTPUT GOING TO RADIO SHACK
LOOP ANTENNA (AMPLIFIED-ANTENNA SYSTEM) USING 3 LARGE LOOPS OF WIRE & 2 TRANSISTORS, TO IMPROVE
PHOTODIODE CCT WITH ZERO-BIASING SCHEME, WITH IMMUNITY TO DIGITAL NOISE & PS. VARIATIONS
DIODE-TRANSISTOR TESTER THAT SHOWS SHORTS, OPENS, LEAKAGE, SATURATION & JUNCTION VOLTAGE, & R

ISOLATION AMP. USING OPTOCOUPLER/BATTERY-POWERED EEG. SYSTEM/DAS. WITH THROUGHPUT OF 30000 S
CROSSED-COIL PROBE INCLUDING TRANSMITTING SECTION (HELMHOLTZ COIL), RECEIVING SECTION (DOUBLY V
PROTECTION CCTS (AC. OVERLOAD RELAYS) USING DC. RELAY, RECTIFIER & 2.5V 10A FILAMENT TRANSFORMER
DIODE PROBE FOR USE WITH MULTIMETER, ENABLING DETECTION & MEASUREMENT OF RF. SIGNALS/RF. SNIFFER
50OHM DUMMY LOAD USABLE WITH TRANSMITTERS UP TO ~100W INPUT TO 30MHZ, INCLUDING RF. AMMETER C
PHOTODETECTOR CCT USING CADMIUM-SULFIDE PHOTOCELL, PHOTODIODE, OR PHOTOTRANSISTOR
CLOCK CRYSTAL OSCILLATOR (MEASUREMENT) CCT FOR USE WITH 32-BIT CPU.S (MPU.S) IN HIGH-SPEED PC.S, I
SLOW-START CCT (PHASE-CONTROL CCT)
PROXIMITY POWER-SWITCH (CORRECTION TO CCT) (RAEL8405)
BOOTSTRAP AMP. TO INVERT REFERENCE VOLTAGE POLARITY/CCT USING BOOTSTRAPPING & VOLTAGE DIVIDER
PHOTOMULTIPLIER BASE OF ELECTRONICS FOR PSD (PULSE-SHAPE DISCRIMINATOR) OF COINCIDENCE DETECT
ISOLATED AMP. USING 2 OA.S & BURR BROWN IC TRANSFORMER-COUPLED ISOLATION AMP. TO GUARANTEE PA
PHOTODIODE AMP. WITH LIMITED BW./OA. CURRENT-TO-VOLTAGE CONVERTER THAT ISOLATES LOAD VOLTAGE
PHOTOTRANSISTOR CCT
VFO. (COLPITTS OSCILLATOR) THAT COUPLES ENERGY TO NE602 MIXER, FOR 10MHZ DIRECT CONVERSION REC
PROBE CCT TO MEASURE RELATIVE NIR. CURRENT OF 2MA REFLECTANCE OF DUST MIXTURES/DIGITAL ROCK-D
VFO. USING CURRENT-CONTROLLED VARIABLE INDUCTOR WHOSE INDUCTANCE IS CONTROLLED BY CURRENT T
PHOTODETECTOR CCT USING FAST P-I-N PHOTODIODE, TO MAINTAIN RISE TIME OF SYSTEM BY ELIMINATING MI
VCO. (VOLTAGE-CONTROLLED OSCILLATOR)
PHOTOTRANSISTOR CCT USED AS DIGITAL INPUT TO GAME IO. CONNECTOR ON APPLE II MICROCOMPUTER, FOR
FLOPPY CONTROLLER IN DMA. SYSTEM (BBB)
ISOLATION AMP.S/TTL. CONVERTERS/TIMING & CONTROL/UP-DOWN COUNTERS
1 OF 8 PHOTOTRANSISTOR CCTS FOR HUMAN-VELOCITY OR HUMAN-POWER APPARATUS INTERFACED TO COMM
BLOMLEY 30W TRANSISTOR AUDIO POWER AMP. WITH SMALL-SIGNAL SWITCHING STAGE THAT DOES JOB OF CL
PHOTODIODE DETECTOR CCT USING TRANSDUCERS MADE FROM 2 SILICON PIN PHOTODIODES (PHOTODETECT
FRONT-PANEL CCT INCLUDING LCD. DISPLAY, SWITCHES FOR SOFTWARE SENSING, & WARM BOOT RESET SWIT
1 OF 2 PREAMP.S USED WITH SOLAR-BLIND DUAL PHOTODIODE, USING OA.S/+15V TO +40V DC.-DC. CONVERTER
PHOTODIODE-OA. CCT & BUFFER CCT FOR CONNECTION TO ANALOGUE PORT OF BBC MICROCOMPUTER, USING
BLOOD-TO-COMPUTER INTERFACE INCLUDING LED. DRIVER CCTS, PIN DIODE DETECTORS, & A-D INTERFACE VIA
CMOS. PLL. FREQUENCY SYNTHESIZER WITH VARACTOR-TUNED VCO.
ICOM IC-271A 2M TRANSCEIVER (BBB)
STOP-BAND FILTER TO SPLIT PILOT FREQUENCIES FROM TELEPHONE CHANNELS IN FREQUENCY-DIVISION MUX
FRONT END OF EEG. MONITOR TO INVESTIGATE BRAIN WAVES, USING LOW-NOISE IA. (2)/SIGNAL PROCESSING S
SMOKE DETECTOR MINI-RECEIVER THAT HOOKS UP WITH FIRE-BALL TRANSMITTER, INCLUDING PREAMP., MIXER
ISOLATION INTERFACE THAT MAINTAINS WIDE BW. & LOW DISTORTION, USING PAIR OF OPTOCOUPLERS, WITH H
CLOCK-RECOVERY CCT CONSISTING OF CHIP DESIGNED FOR T1-TYPE PCM. REPEATER, & COMPARATOR, TO PR
PHOTOMULTIPLIER BASE (VOLTAGE DIVIDER), WITH VOLTAGES OF ACCELERATING GRID & 2ND DYNODE ADJUST
PHOTODIODE TRANSIMPEDANCE AMP./IMPROVED (MOD.) AMP. WITH 2ND POLE IN FEEDBACK LOOP TO ROLL OF
FRONT-END ELECTRONICS PROVIDING INTEGRATE & HOLD FUNCTION FOR WIRES' SIGNALS (REAL POSITION MO
FRONT END OF LOW-DISTORTION MOSFET. POWER AMP., WITH DIFFERENTIAL CASCODE CCT TO MINIMIZE DISTO
PHOTOMULTIPLIER BASE CCT INCLUDING ZENER STABILISED 1ST AMPLIFICATION STEP/TIME DISCRIMINATOR US
SLOPE-CONTROLLABLE RAMP GENERATOR CONSISTING OF VOLTAGE-CONTROLLED CURRENT SOURCE & CAPA
ISOLATED OPTOCOUPLER CCTS THAT PROVIDE CURRENT MONITORING FOR WIDE RANGE OF DC. & AC. CURREN
PHOTOMULTIPLIER (PM) BASE (HV. DIVIDER & OUTPUT CCTS) FOR 3IN DIAMETER, 12-STAGE PM, USING EMITTER
PHOTOMETER SYSTEM FOR 350-1000NM BAND, USING PIN PHOTODIODE AS PHOTON TRANSDUCER
CROWBAR SYSTEM SPARK-GAP CCT WITH 2 SPARK GAPS IN PARALLEL FOR ENHANCED RELIABILITY, USING CUR
PROTOTYPE VOLTAGE DIVIDER FOR PHILIPS PMT., TO IMPROVE TIME RESOLUTION
BROADBAND, SOLID-STATE AMP. (470-860MHZ, 8W)
PROGRAMMABLE GAIN AMP. (PGA) WITH INTERNAL SWITCHES/DIFFERENTIAL-INPUT ABSOLUTE-VALUE DETECTO

BROADBAND AMP. WITH POWER OUTPUT OF 300W WITH INPUT POWER OF 10W, USING 4 MOTOROLA RF. POWER VCO. TO GENERATE SQUARE & TRIANGLE WAVEFORMS/SINUSOIDAL FSK. GENERATOR/PULSE & RAMP GENERATOR VCO. OF FM.-FM. TELEMETRY SYSTEM/TRANSMITTER'S MIXING & INTERFACE CCT/AGC. UNIT & CORRECTING AMPLIFIER. DMOS. 80M CW. TRANSCEIVER USING HIGH GAIN POWER MOSFET. IN SINGLE STAGE ACTING AS LOW-LEVEL RF. AMPLIFIER. 1 OF 16 CHANNELS OF AMP.-DISCRIMINATOR UNIT FOR MWPC.S, CONSISTING OF PREAMP. & 4 FOLD TRANSIMPEDANCE VCO. THAT PRODUCES SQUARE-WAVE OUTPUT WHOSE FREQUENCY IS PROPORTIONAL TO INPUT VOLTAGE, USING 6-OUTLET SURGE SUPPRESSOR USING MOV.S (ZINC-OXIDE TRANSIENT ABSORBERS) THAT ABSORB HV. SPIKES, USING GTO. SCR. SWITCH TO PROTECT TRIM SUPPLY FROM CURRENT SURGES COMING FROM COUPLED OVERPASS LINE. VIO MOD.S FOR OPERATION WITH CSC 2422 DISK CONTROLLER

ISOLATED ANALOG DATA SYSTEM/CCT USING ENCODER VCO. & PLL. CHIPS TO TRANSMIT SIGNAL ACROSS HV. BANDWIDTH PROTOTYPE SAW. RESONATOR (SAWR) OSCILLATOR/CCT SHOWING BIASING FOR DUAL-GATE MOSFET.

SMOKE DETECTOR BASED ON CHERRY SEMICONDUCTOR CHIP, USING PULSED IR. LED. AS LIGHT SOURCE & SILICON ECONOMICAL TERM-MITE ST SMART TERMINAL USING TERMINAL-MANAGEMENT PROCESSOR (TMP), WITH TERMINAL PROGRAMMABLE AUTOMATIC YARD & GARAGE-LIGHT CONTROLLER USING PROGRAMMABLE DIGITAL-DELAY TIMER

CROWBARRED DISCHARGE CCTS TO MEASURE CHARACTERISTICS OF CAPSULE SEMICONDUCTOR DIODES, PULSED VCO. ICOM IC-02A-T 2M HANDHELD TRANSCEIVER (BBB)

ICOM IC-730 SMALL HF. TRANSCEIVER INCLUDING CPU. (BBB)/MOST OF "FRONT END" OF IC-730/CCT TO GET IC-730 PROGRAMMABLE TRIANGLE-SQUAREWAVE GENERATOR USING IC CONTAINING 4 8- OR 12-BIT CURRENT OUTPUT

PROCESS TEMPERATURE CONTROLLER WITH ISOLATED INPUT CHANNEL/PROCESS CONTROL LOOP/ECG. AMP. BLOCKING MECHANISM FOR NOISE REDUCTION, USING FET. SWITCH

FRONT-END ELECTRONICS FOR FAST READOUT OF MICROSTRIP DETECTORS IN ACTIVE TARGET EXPERIMENT, USING GLOW-BALL CCT CONSISTING OF 3-TRANSISTOR AMP., SMALL "GRAIN OF WHEAT" LAMP & 2 1.5V CELLS (SMALL BATTERY) PROGRAMMABLE TONE GENERATOR USING PMI 4-POLE VOLTAGE-CONTROLLED FILTER-OSCILLATOR (AUDIO IC)

FRONT END CCT FOR INTERMODULATION INTERFERENCE IMPROVEMENT

CHOPPER-STABILIZED AMP./VOLTAGE-SUBTRACTION CCT/CURRENT SOURCE/ANALOG MULTIPLIER

GTO. CHOPPER CONSISTING OF R-L LOAD WITH FREE-WHEEL DIODE ACROSS INDUCTOR, GTO. GATE DRIVE & RAMP CHOPPER CCT USING 2 PARALLELED IGBT.S (POWER SWITCHING DEVICES)

BOOSTER/CCT USING SLOW OA. WITH MEDIUM-SPEED BOOSTER/CCTS USING FAST OA.S WITH BOOSTERS (3)/CURRENT DROP TIMER/EXPERIMENT TIMER (BBB)/VOLTAGE PROGRAM GENERATOR (BBB)

CSOA (COMMUTATING SOA.) TEST CCT THAT MINIMIZES EFFECTS OF PARASITICS WHEN DETERMINING CHARACTERISTICS

CLOCK-TUNED 4TH-ORDER ELLIPTIC NOTCH FILTER USING UNIVERSAL SWITCHED-CAPACITOR FILTER IC/60HZ LOW-PASS

CHOPPER-STABILIZED AMP. WHOSE NOISE LEVEL IS MINIMIZED BY PAIR OF LOW-NOISE FET.S, PROVIDING NONINVERTING BOOTSTRAP CCT USING INEXPENSIVE N-CHANNEL POWER FET. TO IMPROVE SWITCHING-PS. EFFICIENCY

BOOSTER STAGE WITH COMPENSATION NETWORKS/CCT WITH RC. DAMPER NETWORK/CCT USING BUFFER & CURRENT CMOS. INTERFACE CCT TO DRIVE POWER MOSFET./OPEN-COLLECTOR TT. INTERFACE TO DRIVE POWER MOSFET

PHOTODETECTOR USING SILICON PHOTODIODE MODULE THAT INCORPORATES OA., WHOSE OUTPUT IS INTEGRATED

1 OF 4 PULSE (THRESHOLD) SAMPLING CCTS ON Z80 UP. INTERFACE

PHOTODIODE AMP. CCT, USING OA. WIRED AS CURRENT TO VOLTAGE CONVERTER WITH GAIN, & 3.5-DIGIT DVM.

BLOCK DIAGRAM SHOWING BASIC OPERATION OF SONY PCM-F1 DIGITAL AUDIO PROCESSOR (BBB)

FRONT END CCT OF WAVEFORM DIGITIZER (WFD), INCLUDING QUAD 8 BIT DAC., FADC. & OA. (BBB)/FADC. DRIVER

PHOTOCONDUCTIVITY DECAY MEASUREMENT SYSTEM/FAST RISE-TIME PREAMP. USING HIGH-MU PENTODES

PROCESSOR OF UP.-CONTROLLED INTERFACE THAT CONVERTS CASSETTE-DECK INTERFACE/V24 INTERFACE/C

SUPER-CATHODE DRIVEN TETRODE AMP. USING AUXILIARY WINDING INSTEAD OF TAP ON MAIN CHOKE WINDING

SUPER-CATHODE DRIVEN AMP. USING ADJUSTABLE FILAMENT CHOKE TAP POSITION TO VARY INPUT DRIVE

4-PHASE PSK. MODULATOR USING UP., 16K EPROM., DAC. & LPF., WITH SUFFICIENT QUALITY TO SEND DATA OVER

3-PHASE PHASE-REVERSAL DETECTOR

1 PHASE OF INVERTER FOR ELECTRIC VEHICLE PROPULSION VRM DRIVE/1 PHASE OF VRM INVERTER USING 2 CURRENT

EXPONENTIAL CURRENT SINK/EXPONENTIAL VCO./TRIANGLE-SQUARE WAVE LFO (LF. OSCILLATOR)/SAWTOOTH-OSCILLATOR

EXPONENTIAL DECAY FUNCTION GENERATOR, WITH RC. CCT RESET TO INITIAL CONDITION ON PULSE FROM CURRENT

EXPERIMENTAL ARRANGEMENT SHOWING HP SILICON PIN-PHOTODIODE CONNECTED TO ORTEC 120-3F CHARGE
 QRP TRANSMITTER USING TUBE CONTAINING DIODE & BEAM-POWER TETRODE, USING DIODE SECTION IN PS. &
 TYPICAL 8-BIT UP. SYSTEM USING BANK-SWITCHING TECHNIQUES/CCT TO IMPLEMENT PAGE ADDRESSING/CCT
 AMP. WITH GAIN OF 10 & INPUT IMPEDANCE OF >1MOHM, USING DIGITAL CMOS. INVERTERS, TO AMPLIFY INCOME
 CEP SYSTEM BUS LINKING COMPRESSION-EXPANSION-PROCESSOR CHIP & HOST UP. CHIP/ARBITRATION LOGIC
 INPUT & MEMORY CCT OF COCO COMPUTER DIGITAL LOGIC ANALYZER, USING 2 8-BIT BY 2048-BYTE SRAM.S/TIM
 EXPERIMENTAL SW. CONVERTER FOR FREQUENCIES BELOW 30MHZ
 CAPACITIVE DISCHARGE CCT USING 2 CAPACITOR BANKS (4 OF 200UF AT 3000V & 2 OF 12UF AT 10000V) & GRAV
 IMPROVED IR. TELESCOPE & PS., USING IMAGE CONVERSION TUBE WITH IMPROVED PHOSPHOR (PHTE7902)
 INPUT AMP. THAT CAN ACCEPT IR. OR ULTRASONIC PICKUP, FOR USE WITH RECEIVER
 QRP-15 RIT CCT/MOD. RIT-XIT CCT/KEYER USING CURTIS CHIP/OLD & NEW CCTS USING VOLTAGE REGULATORS
 3-POLE ACTIVE LOW-PASS/SLICER STAGE/LOOP & RS232, TTL., MIL188 IO. INTERFACES
 3-PARALLEL-PORT SYSTEM/TIM DAA-DTMF. (DATA ACCESS ARRANGEMENT-DTMF.) INTERFACE/8-INPUT OPTOISO
 EXPANDABLE SBC. SYSTEM/CCTS TO CONTROL CASSETTE TAPE OPERATION (3)/KEYPAD TERMINAL
 IMPROVED INTRINSICALLY SAFE PROTECTED OA. CONFIGURED AS UNITY GAIN BUFFER, USING ZENER DIODES T
 IMPEDANCE METER CONSISTING OF 10HZ SINE WAVE OSCILLATOR & 7 TO 13HZ BANDPASS FILTER/BATTERY SUP
 INPUT FILTER & ADC. CCTS/DAC. & OUTPUT STAGES/CLOCK & CONTROLLER CCTS/DELAY SWITCHING CCTS/PS.
 CAPACITOR TURN-OFF CCT/BISTABLE LATCH/AC. POWER-CONTROL CCT/FULLWAVE POWER-CONTROL CCTS (2)
 EXPERIMENTAL SELF-SENSING TEMPERATURE CONTROL SYSTEM USING COMBINED SENSOR & HEATER BASED
 INPUT BUFFER UNIT IN RECEIVING UNIT (R.U.), THAT DIRECTLY PICKS UP RECEIVED SIGNALS AT EARPHONE TER
 INPUT & OUTPUT (BBB)/PS./PROGRAMMING MODULES FOR 2716 & TMS2716 (2)/EPROM. PROGRAMMING BOX
 3 PHASE TESTER USING SMALL CURRENT THYRISTOR TO TEST RIGHT OR WRONG SUCCESSION OF 3 PHASES B
 MCP. ASSEMBLY CONSISTING OF 2 LOW-RESISTANCE MCP.S MOUNTED IN CHEVRON CONFIGURATION, INCLUDING
 INPUT TRIGGER DETECTION CCT THAT PROVIDES SIGNAL CONDITIONING FOR TRIGGER SIGNAL STORED ON 1 C
 INPUT PREAMP. IN WHICH PARAPHASE SIGNALS FROM THERMORESISTOR ARE AMPLIFIED BY LNA.S & SUBTRAC
 INPUT & OUTPUT CCTS/LIMITER CCT/PS. (PSU)
 REPEATER HAVING AUTOMATIC PHASE-CONTROL SCHEME, USING SAW. FILTER, VOLTAGE-CONTROLLED PHASE
 AMPLIFYING (SIGNAL CONDITIONING) CCT FOR SCX05DN TRANSDUCER (PIEZO-RESISTIVE PRESSURE SENSOR),
 DUPLEX FIBER-OPTIC DATA LINK TO ISOLATE & COMMUNICATE, USING IC RECEIVER & TRANSMITTER & FIBER-OP
 INPUT BUFFERS & TRIGGER LOCK OF 16-CHANNEL ANALYZER (2)/ACQUISITION SECTION (BBB)/CLOCK GENERAT
 EXPANSION BOARD INCLUDING MULTIPLE PROGRAMMABLE TIMER, 12-BIT DAC. & ADDRESS DECODING CCT/CCT
 REPLAY MODEL 1 SINGLE-MESSAGE DIGITAL VOICE RECORDER USING CONTROL-AUDIO UNIT THAT CAN ADDRES
 SUPER PAS 3 PS. FOR USE WITH DYNACO PAS VACUUM TUBE PREAMP., TO REPAIR PS. PROBLEMS & PROVIDE B
 YAPSU-2-11 PS. (P.S.U.) (PS. UNIT) TO PROVIDE CURRENTS UP TO 600MA AT VOLTAGES BETWEEN 2 & 11V, INCLU
 IMPROVED TUBE PREAMP. USING PARALLELED TRIODES AS DEMONSTRATED QUIETER INPUT STAGE
 IMPROVED COMPOSITE OA.-BASED WEIN-BRIDGE (WIEN BRIDGE) OSCILLATOR WITH AGC., WITH DECREASED ER
 VAPP GENERATION CCTS TO REGULATE FROM HIGHER VOLTAGE (3)/5V-12V PUMP USING SWITCHING REGULATO
 EEPROM. CCT WITH ADDRESS DECODED SAME AS OTHER 2K BY 8-BIT MEMORY BLOCKS, & 1-SHOT PROVIDING 1
 TYPICAL TKO (TRISTAN-KEK ONLINE) BUS PROTOCOL SECTION USING TTL. LOW-POWER SCHOTTKY CHIPS (BBB)
 IMPLEMENTATION OF TI'S SCOPE ARCHITECTURE, IN WHICH JTAG SCAN PATH ENTERS BOARD VIA SCAN PATH S
 INPUT STAGES (2)/PS./PULSE INTEGRATOR, USING VFC.
 AMP. CCT FOR LIQUID DELAY LINE OSCILLATOR, WITH GAIN OF 46DB AT CENTER FREQUENCY
 AMPEROMETRIC ELECTROCHEMICAL SO₂ (SULFUR DIOXIDE) ANALYZER INCLUDING CHOPPER-STABILIZED OA. &
 APPLICATION EXAMPLE OF TEXAS INSTRUMENTS SCOPE (SYSTEM CONTROLABILITY-OBSERVABILITY PARTITION
 APPLE ICE. CARD
 INPUT CCT TO COMPUTER LIQUID-LEVEL MONITORING SYSTEM, CONSISTING OF OA. CONFIGURED AS COMPARA
 COPROCESSOR CHIP & DRAM.S ADDED TO 80286-BASED SYSTEM
 BIPOLAR PULSE STIMULATOR USING 3-TERMINAL CONSTANT-CURRENT SOURCE/ANALOG CONSTANT-CURRENT
 POPULAR ACTIVE-FILTER CCT/ABC LPF.S (2)

APPARATUS FOR MEASUREMENT OF VELOCITY OF SOUND IN AIR, USING APPLE II, INCLUDING MICROPHONE AMP
TYPICAL UNITY-GAIN BUFFER AMP. USING OA.
SUPPLY TO CONTROL POWER IN LOW-RESISTANCE LOAD LIKE NICHROME WIRE, USING FEEDBACK FROM DIODE
AMP. FOR READOUT OF THERMOCOUPLES/VOLTAGE TO CURRENT CONVERTER (CURRENT LOOP CONVERTER) U
8-PHASE CLOCK
APPLICATION CCT FOR POWER-MOSFET. DRIVER, PROVIDING 96DB OPEN-LOOP GAIN, & DELIVERING OUTPUT SV
AMP.-BUFFER TO TRANSFORM SENSE SIGNAL INTO FORM COMPATIBLE WITH ADC., RUN IN DIFFERENTIAL MODE
EXPANSION-SLOT DATA-BUS BUFFER TO BUFFER DATA BUS & GENERATE ADDITIONAL CONTROL SIGNALS
INPUT & SCAN LOGIC (INPUT SCANNER LOGIC)
AMP.-SPLITTER CCT
UPPERCASE-TO-LOWERCASE CONVERTER FOR KEYBOARD THAT HAS UPPERCASE-ONLY OUTPUT, THAT MAKES
IMPROVED BAR-GRAPH-CONVERSION CCT USING COMPARATOR & LATCH TO REPLACE 2 DAC.S, CAPACITOR & R
INPUT CONDITIONING & DATA SYNCHRONISER/LONG DELAY & 4 PHASE CLOCK/PRE-DELAY & VARIABLE DELAY/(F
2 POLE ACTIVE LPF. USING OA., THAT IS BASIC BUILDING BLOCK OF HIGHER-ORDER LPF. DESIGNS,
IMPROVED SH. CCT THAT MUX.S OA., USING TRIPLE DPST SWITCH INSTEAD OF QUAD SWITCH (EDN901001)
9 POSITION JOYSTICK CCT DESIGNED TO WORK WITH ANY COMPUTER RUNNING Z80 WITH EXPANSION PORT
BIPOlar CONTROLLABLE CURRENT SOURCE
UPPER-ADDRESS CONTROL CCT USING DATA-TRANSFER ACKNOWLEDGE (DTACK) TIMING LOGIC, TO IMPLEMEN
2-PHASE PROM. STATE MACHINE WITH LATCH & FF. ADDED TO MAKE BETTER USE OF PROM. ADDRESS SPACE B
APPLE II GS (BBB)
EXPERIMENTAL SOLID-STATE OSCILLOSCOPE
EXPANDED TEST INPUTS FOR 4004
SUPER ESP TESTER
ALPHA-PARTICLE ENERGY SPECTROMETER INCLUDING CHARGE SENSITIVE & VOLTAGE AMP.S, COMPARATOR, S
CAPACITANCE LEVEL METER FOR CRYOGENIC LIQUIDS, USING TRANSDUCER, & MEASURING & COMPENSATING
AMP. TO SELECT PRIMARY HEATER OUTPUT & CONTROL OPERATION OF SECONDARY HEATER, USING FLUX PLA
1-PHASE ROTOR POSITION DETECTION SYSTEM USING MUTUAL IMPEDANCE VARIATION, INCLUDING BANDPASS
BIPHASE AMP. USED AS POLAR EX-OR OR EX-NOR GATE/POLAR NAND OR NOR GATE/PRECISION FULLWAVE REC
CAPACITIVE VOLTAGE DIVIDER TO REDUCE VOLTAGE OF DC. PS., USING SQUARE WAVE OSCILLATOR THAT DRIV
EXPANDED-SCALE DIRECT-READING LINEAR INDUCTANCE METER THAT, USING DVM. TO MEASURE AVERAGE VA
IMPROVED STRAY-CAPACITANCE NEUTRALISATION SYSTEM WHERE NEUTRALISATION IS MUCH LESS DEPENDEN
INPUT SECTION OF LINEAR SUMMING MODULE/OUTPUT SECTION
IMPERFECT TWIN OA. CURRENT CONVEYOR THAT HAS, HOWEVER, PROVIDED HIGHLY STABLE OSCILLATIONS
QRP TRANSMITTER CONSISTING OF CRYSTAL OSCILLATOR, 4-BIT BINARY DIVIDER, KEYING CCT, AMP., RECEIVER
AMPLITUDE CONTROL SYSTEM
INPUT UNIT/C.U. RING COUNTER/EXPONENT COMPARISON MODULE/MANTISSA ALIGNMENT & ADDITION MODULE
INPUT SECTION OF COINCIDENCE CCT WITH HIGH COUNTING RATE CAPABILITY ABLE TO DETERMINE 64 SIMULT
PIPELINED I486-STYLE COUNTER USING DISCRETE LOGIC, WITH ADDRESSES COMPUTED DURING CYCLE BEFORE
TYPICAL OFFSET NULLING SYSTEM/OA.
PIPELINE COMPRISING FFA'S (A-FF.S), FFB'S (B-FF.S), TIMER & FIFO./CCT TO GENERATE STATE CLOCK PIPELINE
AMP. PORTION OF INTERFACING ELECTRONICS, USING OA.S, WITH CAPACITOR IN PARALLEL WITH COIL TO PREVE
IMPLEMENTATION OF MOD. RESTORING BINARY SQUARE-ROOT ALGORITHM USING 11 MSI. ADDERS & 11 MUX.S,
TYPICAL SYSTEM USING INTEL 80376 FAMILY OF 32-BIT UP. COMPONENTS/PAGE-MODE DRAM. INTERFACE USING
AMP. USING OA.S, & ACTIVE LINK LED. TRANSMITTER/ACTIVE LINK PHOTODIODE RECEIVER IN WHICH LIGHT FRO
IMPROVED ADDRESS (IO.) DECODER WITH MOD.S TO ALLOW FOR JUMPER SELECTABLE ADDRESSES (PORTSWIT
2-PHASE NON-OVERLAPPING CLOCK GENERATION CCT USING MOS. HEX GATE CHIP & BUFFERS
APPLE NUBUS TEST CARD (NTC) TO FULLY EXERCISE MAC II MOTHERBOARDS DURING BURN-IN WITH BOTH SLAV
AMP. THROUGH WHICH TO READ VOLTAGE ON PICKUP COIL, INCLUDING 10HZ LPF. TO FILTER OUT 60HZ NOISE, V
INPUT CCT TO CONVERT SENSOR VOLTAGE TO AUDIO TONE/OUTPUT CCT TO CONVERT AUDIO TONE TO VOLTA

IMPROVED CCT USING INVERTER TO SINK CURRENT TO LIGHT LED. (RAEL8510)
INPUT CCT FOR CLOCKWISE-COUNTER CLOCKWISE ROTATION PULSES, USING IR. SOURCE SENSOR/UP-DOWN C
CAPACITANCE METER INCLUDING TRIGGER & TIMING MONOSTABLES, CLOCK & COUNTER-LED. DRIVER (2)/TIMER
EXPANDABLE PINEWOOD-DERBY JUDGE/DISCRETE LED. DISPLAY/TTL.-BASED PINEWOOD-DERBY JUDGE (2)/PINE
AMP.-PRESCALER-MUX. FOR 100MHZ COUNTER
APPLE II MICROCOMPUTER GAME IO. PORT WITH 4 PADDLE INPUTS, WITH CONNECTIONS TO AZIMUTHAL & ELEV
1-PIECE SIMPLE-TO-BUILD CODE-PRACTICE OSCILLATOR USING 1 IC
3 PHASE FIRING PHASE ANGLE CONTROL CCT TO PRODUCE DELAYED PULSES TO FIRE THYRISTORS, INCLUDING
IMPURITY PROFILER USING 2-FREQUENCY METHOD, USING BURR-BROWN OA. WITH HV. (+-145V OUTPUT), WIDE
CAPACITANCE TESTER (CCT WHICH WORKS BY COMPARING VALUE OF KNOWN CAPACITOR WITH ONE UNDER THE
WIPER DELAY
BIPHASIC PULSE BURST GENERATOR (NEURAL STIMULATOR) USING VFO., FIXED FREQUENCY OSCILLATOR, MON
REPEATER CONTROLLER BOARD INCLUDING HOLD-OVER TIMER (HOT) & TIME-OUT TIMER (TOT) & OPTION OF KE
EXPANDABLE KEYBOARD ENCODER & DISPLAY CCT, USEABLE WITH 5101 CMOS. MEMORY CCT (RAEL8504)
SUPER BEEP CCT FOR REPEATER, FEATURING INHIBIT FUNCTION AGAINST FLUTTERING SIGNALS, SELECTABLE
RAPIDFIRE CCT USING CMOS. OSCILLATOR-TIMER SET UP AS ASTABLE MULTIVIBRATOR ACTIVATED BY USER, TO
CAPACITANCE TRANSDUCER BASED ON TRANSFORMER RATIO ARM BRIDGE, FOR SOLIDS-FLOW MEASUREMENT
CAPACITOR CHECKER/AF. SQUARE-WAVE SIGNAL GENERATOR USING OSCILLATOR-TIMER/AC.-DC. INDICATOR/R
SUPER-BRIGHT SUBMINIATURE LED. FLASHER USING SURFACE-MOUNTABLE COMPONENTS (SMC'S), THAT CAN F
APPLE II ANALOGUE INTERFACE FOR CONVERTER/CCT TO USE A-D WITH OTHER 6502 MACHINES, WITH ADDRES
IMPACT FORCE SIGNAL PROCESSING CCT INCLUDING BAND-PASS FILTER, LPF., VOLTAGE COMPARATOR, DATA I
IMPROVED BW. CURRENT DETECTION SYSTEM COMBINED WITH SOLARTRON NETWORK ANALYSER, INCLUDING
SUPERREGENERATIVE OSCILLATOR (SRO)/FILTERS, AMP.S, RECTIFIER & OUTPUT STAGE OF AGC. LOOP (3)/STAC
IMPEDANCE MEASURING CCT TO MONITOR BEVELING, INCLUDING CHEBYSHEV LPF., IDEAL RECTIFIER, VCO., BU
AMP. USED FOR EACH CALORIMETER CHANNEL, USING BURR-BROWN IA. WITH GAIN OF 1000, LPF. WITH 2HZ CUT
CAPACITANCE-TO-FREQUENCY CONVERTER/CCT TO DELIVER PWM. OUTPUT FOR CAPACITANCE RANGE OF 0-16
BIPHASE MODULATOR
AMP. OF PROPORTIONAL CHAMBER SYSTEM, INCLUDING VIDEO AMP., FAST DIFFERENTIAL COMPARATOR & CAB
REPEATER CONTROLLER COMPUTER BOARD INCLUDING SINGLE-CHIP UP. (MICROCONTROLLER), TOUCHTONE (I
HYPERCLOCK (DIGITAL CLOCK) THAT DISPLAYS TIME IN 8 MODES, INCLUDING MICROCONTROLLER & SUPPORT C
APPLICATION-SPECIFIC PATTERN GENERATOR BASED ON 2KX8-BIT EPROM., TO PROVIDE TEST STIMULI FOR SEI
1 PROCESSING ELEMENT OF MANDELBROT ENGINE, USING SINGLE-CHIP MICROCONTROLLER (COMPUTER ON A
IMPROVED DCD (DATA CARRIER DETECTION) CCT THAT GIVES PHASE CORRELATION BASED DCD WITH "HANG" F
CAPACITIVE INTEGRATION CCT FOR MEASUREMENT OF ION CURRENT RATIOS IN ISOTOPE RATIO MS., USING AM
EXPONENTIAL GENERATOR TO GENERATE EXPONENTIAL WAVEFORMS WITH POSITIVE EXPONENT, USING DEBO
EEPROM. CCT FOR SYSTEM MONITOR, FEATURING POWER-ON-RESET-JUMP & WRITE-PROTECT, DESIGNED FOR
IMPROVED CCT THAT ENSURES THAT BATTERY-POWERED UP. TURNS ITSELF OFF, INCLUDING 5V CONVERTER, I
TYPICAL TTL. PS.
PIPELINED AUDIO DELAY SYSTEM INCLUDING ANALOGUE INPUT BOARD USING PIA.S & ADC.S, ANALOGUE OUTPUT
DSP. (DIGITIZING) CCT INCLUDING UP.-CONTROLLED 8-BIT ADC. & DIFFERENCE AMP./ANALOG INTERFACE (PROC
SMPS. THAT FITS INTO PLUGPACK TO OPERATE FROM 115VAC. OUTLET, USING SWITCHMODE IC
SUPPLY THAT ACCEPTS INPUTS FROM 19 TO 75V/SUPPLY USING PWM. CHIP/SUPPLY WITH START-UP & CURRENT
INPUT & OUTPUT CCT OF IO. CCT THAT ADDS 24 OUTPUT LINES, 16 INPUT LINES & 4 PROGRAMMABLE INTERRUPT
BIPOLAR PS. FOR BATTERY INSTRUMENT
APPLE MACINTOSH COMPUTER HARDWARE, INCLUDING UP., VERSATLE INTERFACE ADAPTER (VIA.) & SERIAL CO
TYPICAL UP. CONTROLLER (LABORATORY DATA-LOGGER CCT) WITH FULL-BOARD FUNCTIONAL TESTING INCLUD
SUPERCALAR ARCHITECTURE FOR PRIVATE ATM (ASYNCHRONOUS TRANSFER-MODE) APPLICATIONS, USING TR
VTPC. PAD ELECTRONICS CONSISTING OF PREAMP. CARD, PAD AMP.-SHAPER (PAS) CARD USING VIDEO AMP., &
BIPOLAR PS. SUITABLE FOR USE IN SYNTHESIS OR ELECTRONIC MUSIC SYSTEM, TO CONVERT 110V AC. INTO +1

AMP. WITH COMMON BASE INPUT STAGE & INPUT IMPEDANCE LOW WITH RESPECT TO WIRE'S RESISTANCE, USING
INPUT AMP. SECTION/ADC. SECTION & ITS INTERFACE USING ROCKWELL VIA.
AMP. & BRIDGE CCTS FOR TRANSDUCER WITH 2 SEMICONDUCTOR TENSOMETERS & OA.
3-PHASE INDUCTION MOTOR CURRENT SENSING CCT USING QUAD OA., & PRIMARY WINDING OF CURRENT TRANSFORMER
BIPOLAR AUTOMATIC NULLING CCT USING BCD. DAC./CCT FOR AUTOMATIC CALIBRATION OF DMM.'S RESISTANCE
EXPERIMENTAL CCT BASED ON IC CONTAINING 2 DOUBLE FILTER SECTIONS WHOSE RESPONSE CAN BE SET BY
CAPACITANCE DETECTION SYSTEM INCLUDING EXCITATION CCT (USING 3KHZ OSCILLATOR) & DETECTOR CCT (FOR
APPLICATIONS CCTS FOR MAXIM LOW-INPUT-VOLTAGE DC.-TO-DC. CONVERTERS THAT WILL START UP FROM 1.5V
IMPROVED FM. DETECTOR USING GOOD PREAMP. & CA3189 FM.-IF. SYSTEM, TO PROVIDE GOOD NOISE IMMUNITY
APPLICATION CCT FOR OUTPUT PORT OF INTERPACK 1 CONTROL & MEASUREMENT INTERFACE
IMPLANT BASEBAND SIGNAL PROCESSING STAGES/TIME WINDOW DISCRIMINATOR & FILTER/TRANSMITTER CIRCUIT
TYPICAL OPERATING CCT FOR MAXIM UP. SUPERVISORY CHIP THAT MONITORS PS. & BATTERY FUNCTIONS IN U
TYPICAL TOSHIBA LSI. TV. SYSTEM (BBB)
QRP TRANSMITTER/DIRECT-CONVERSION RECEIVER FRONT END
2-PHASE SWITCHED-CAPACITOR (SC) MODULATOR/4-PHASE SC MODULATOR/4-PHASE OFFSET-FREE SC MODULATOR
AMP.-DISCRIMINATOR BOARD FOR 8 TUBES, INCLUDING AMP.S SELECTED FOR MAX. +-5% GAIN DIFFERENCES, &
1-POLE FILTER USING ANALOG MULTIPLIER AS VOLTAGE-CONTROLLED TRANSIMPEDANCE AMP./2-POLE STATE-VARIABLE
EXPERIMENTAL SET-UP FOR PREPARATION OF IR-AIROF ELECTRODES, INCLUDING OA., TIMER-COUNTER, FUNCTION
2-POLE ACTIVE LPF. WITH CUTOFF FREQUENCY OF 0.05HZ, TO IMPROVE SNR. (REDUCE NOISE) IN DATA (DC. SIGNAL)
INPUT BUFFER, CONVERTER & DRIVER, OF INEXPENSIVE CRYOGENIC TEMPERATURE CONTROLLER, INCLUDING
AMP. ON BOARD TM990-306 SPEECH MODULE, THAT PROVIDES UP TO 2.5W TO DRIVE 8OHM SPEAKER
6-POLE ANTI-ALIASING & 3-POLE ANTI-IMAGING FILTER (LPF.) FOR DELAY LINE, USING MAXIM MONOLITHIC CONTROLLER
TYPICAL CCT FOR CMOS. FLYBACK STEP-UP (BOOST) DC.-DC. CONVERTER/CCTS FOR SWITCHED +5V USING PNP
IMPROVED LINEAR TEMPERATURE-VOLTAGE CONVERTER USING THERMISTOR
EXPERIMENTAL CCT
INPUT CAPACITANCE NEUTRALIZATION CCT
DSP. IMAGE-ENHANCEMENT SYSTEM THAT OPERATES IN REAL TIME, WHILE IMAGE IS BEING SCANNED, REMOVING
AMP. FOR STATIC CHARACTERISATION, USING VLF. TRIANGULAR WAVE/FEEDBACK AMP., INCLUDING POWER AMP.
8-POSITION, SINGLE-IC VIDEO SELECTOR & DRIVER, USING MUX.ING VIDEO AMP. TO DRIVE 75OHM CABLE/CCT USING
AMP. OF LOW-COST AMPLIFIED SPEAKER SYSTEM TO TEST AUDIO COMPONENTS OR AMPLIFY WALKMAN-TYPE SPEAKERS
CAPACITANCE ADAPTER THAT ALLOWS USE OF DVM. TO MEASURE CAPACITANCE, INCLUDING PULSE GENERATOR
CAPACITANCE-TO-VOLTAGE CONVERTER USING SYNCHRONOUS DETECTION WITH FET. SWITCHES, TO ALLOW CALIBRATION
SUPERHETERODYNE RECEIVER USING CRYSTAL FILTER, DESIGNED TO LISTEN TO NEW 10MHZ (30M) BAND
IMPEDANCE MONITORING CCT CONSISTING OF VOLTAGE-TO-CURRENT CONVERTER, OPTOCOUPLING CCT, ECG
EXPERIMENTAL CCT FOR DIGITAL Q-METER FOR MEASURING LOW Q-FACTORS AT LF.S, INCLUDING SH., PEAK DETECTOR
2 POLE RESONANT FILTER AT 1MHZ, IN CONFIGURATION OF STATE VARIABLE FILTER IMPLEMENTED WITH FEEDBACK
TYPICAL AUDIO OUTPUT STAGES IN OLDER RECEIVERS (2)
AMP. ASSEMBLY FOR INTERFACE 'MINIBEAM-50' FORCE TRANSDUCER
AMP. (OUTPUT INDICATOR CCT) TO ALLOW DISPLAY OF WAVEFORMS INSIDE SOUND PIPE ON SCREEN OF OSCILLOSCOPE
APPLICATION CCT FOR ADC. OPERATING FROM +5V SUPPLY/CCT PARALLELING 2 ADC.S, FOR SAMPLING RATES UP TO 100K
QRP TRANSMITTER & MODULATOR/SUPERHET RECEIVER INCLUDING CASCODE RF. AMP., MIXER, AMP., OSCILLATOR
TIP-&-RING SECTION (INTERFACE BETWEEN PROTOTYPING TELEPHONE & PHONE LINE)/CCT USING MUART. FOR
AMP. PORTION OF UNUSUAL SOUND-EFFECTS GADGET, USING SGS AUDIO-AMP. IC & ELECTRET MICROPHONE, TYPICAL
EXPANDABLE, FLEXIBLE DYNAMIC MEMORY SYSTEM FOR KEEN EXPERIMENTER
2-PHASE BIPOLAR STEPPER-MOTOR DRIVER/CCT FOR 0.5-WAVE DRIVE OF 3-PHASE Y-WOUND MOTOR/CCT TO DRIVE
BIPOLAR ACTIVE POTENTIOMETER CCT (MULTIPLE-FEEDBACK OA. CCT THAT PROVIDES VARIABLE RESISTANCE)
BIPOLAR STEPPER MOTOR CONTROLLER-DRIVER/CCT TO DRIVE VOICE-COIL MOTOR (LINEAR ACTUATOR)/CCT TO DRIVE
SPEECH SYNTHESIZER FOR ATARI 520ST COMPUTER, USING VOTRAX IC CONSISTING OF PHONEME CONTROLLED
CAPACITANCE METER WITH FOUR MEASURING RANGES OF 1NF, 10NF, 100NF, & 1UF FSD., USING ASTABLE MULTIVIBRATOR

APPLICATION CCT FOR 40MSPS 8-BIT VIDEO-SPEED DAC. WITH TTL.-COMPATIBLE LOGIC INPUTS, CAPABLE OF DRIVING
 IMPROVED KEYLESS LOCK CCT ELIMINATING NEED FOR COMPARATORS, USING DUAL SHIFT REGISTER (ELDE82)
 AMP. FOR EARTH INDUCTOR (COIL), TO MEASURE EARTH'S MAGNETIC FIELD/VFC. WHOSE PULSE TRAIN GENERATOR
 REPEATER OFFSET CCT USING MOTOROLA BINARY-ADDER CHIP USED IN HY-GAIN BOARD CB.-TO-10M FM. CONV
 TYPICAL CCT CONNECTION FOR GAAS. COMPARATOR, WITH ECL. OUTPUT/CONNECTION DIAGRAM FOR 50- TO 300
 DSPWM (DIGITAL SINE PWM.) MODULATOR THAT MINIMIZES GATING LOGIC SIGNAL PHASE SHIFT, USING VCO.S, 100
 AMP. METERING CCT
 APPARATUS INCLUDING HYDROGEN THYRATRON DISCHARGE CCT TO SUPPRESS OCCURRENCE OF SPARKS IN
 EXPERIMENTAL CCT TO DESCRAMBLE TRI-MODE/+12V REGULATOR CCT
 EXPERIMENTAL AMP. CCT OF GAIN-TUNED BANDPASS FILTER SECTION WITH TUNABLE CENTER FREQUENCY
 EXPANDABLE LED. ARRAY DISPLAY USING SPRAGUE LATCHES, SHOWING COLUMN ANODE CONNECTIONS & ROW
 SMPS. (SMPSU) USING CONTROL IC, MOSFET. & 2-TRANSISTOR DRIVER, WITH OUTPUT VOLTAGE OF 4.8-20V/CCT
 MCP. DETECTOR OF TOF. ION EXPERIMENT, FOR POSITIVE & NEGATIVE PARTICLES, USING 2 GALILEO 40MM MCP
 TYPICAL APPLICATION CCT FOR MOTOROLA IC THAT PROVIDES ALL SIGNAL PROCESSING FOR RGB. MONITOR T
 4-POLE COMPLEMENTARY BUTTERWORTH FILTERS/8-POLE LOW-PASS BUTTERWORTH FILTER/8-POLE HIGH-PAS
 AMPLITUDE DISCRIMINATOR WITH VARIABLE DISABLE INTERVAL, ALLOWING USE OF SPONTANEOUS SPIKE TO TR
 TYPICAL SWITCHING PS. WITH GOOD REGULATION & TRANSIENT RESPONSE & NO CORE SATURATION
 WIPER-CONTROL/COURTESY-LAMP TIMER/VOLTAGE REGULATOR/HEADLIGHT TIMER/CAR IMMOBILIZER/AUDIO O
 CAPACITANCE SPIROMETER (DETECTOR) OF LUNG PLETHYSMOGRAPH & RECORDING APPARATUS, TO MEASUR
 APPLICATION (EVALUATION) CCT FOR SINGLE CHIP PROGRAMMABLE SINE WAVE GENERATOR, INCLUDING LOGIC
 IMPROVED CONTINUITY TESTER IN WHICH PITCH OF TONE IS DEPENDENT UPON RESISTANCE UNDER TEST (ELE
 AMP. TO OPERATE WITH FAST SEMICONDUCTING BOLOMETERS, BASED ON CURRENT DETECTION OF BOLOMET
 ALPHA 87A POWER AMP. THAT PROVIDES FREQUENCY COVERAGE OF ALL AMATEUR BANDS FROM 1.8-29.7MHZ &
 IMPLANTABLE STIMULATOR USING COMPLEMENTARY ASTABLE CCT OSCILLATING AT 10HZ & PRODUCING 0.1MS
 AMP.-DISCRIMINATOR WITH RISE TIME OF ~2NS, FOR DRIFT TIME MEASUREMENT/LOW INPUT IMPEDANCE AMP. F
 IMPLANTABLE MUSCLE STIMULATOR THAT IS SWITCHED ON & OFF USING MAGNETIC REED SWITCH & BINARY CO
 IMPACT MEASUREMENT SYSTEM USING 8-BIT CMOS. MOTOROLA UP. (MPU.) CONTAINING 8-CHANNEL ADC., 8KBY
 AMPLIFIED ZENER DIODE USING PNP TRANSISTOR/AMPLIFIED ZENER DIODE USING NPN TRANSISTOR/SATURATE
 AMP. FOR APPLICATIONS WHERE LOW DISTORTION IS REQUIRED, CONSISTING OF 3 STAGE OA. WITH INVERTING
 TYPICAL APPLICATION CCT FOR LOW POWER AUDIO AMP. IC FOR TELEPHONE APPLICATIONS, WITH DIFFERENTI
 INPUT, SH. & A-D CCT, USING ADC./ANALOG DEVICES 8-BIT DAC. & OUTPUT LEVEL CCT, INCLUDING ZERO-ORDER
 AMP. WITH AGC.
 CDP1802 SYSTEM WITH EXPANDED IO. SPACE (28 LOCATIONS), USING ADDRESS LATCH & N-BIT DECODER (BBB)
 TYPICAL APPLICATION CCT FOR ANALOG DEVICES ULTRA-HIGH SPEED 8-BIT FLASH ADC. THAT ALLOWS SAMPLIN
 APPLE(R) A-D BOARD USING ADC. IC (BBB)/DAC./PULSE GENERATOR USING 2 TIMERS & COUNTER/VOLTAGE-COM
 APPARATUS FOR SPECTROELECTROCHEMISTRY WITH MICROELECTRODES USING 2-ELECTRODE CONFIGURATIO
 APPARATUS INCLUDING CURRENT FOLLOWER TO MEASURE CURRENT PASSING THROUGH ELECTROCHEMICAL
 TAPE SPEED CONTROLLER TO SYNCHRONIZE PACKAGING TAPE & LIFTING BELT SPEEDS ON SEEDLING HARVEST
 INPUT CCTS TO INTERFACE PMT. TO MUX., INCLUDING 4 AMP.S TO ISOLATE FILTERING RESISTORS FROM INPUT
 TIP POSITION-CONTROL FEEDBACK CCT THAT DRIVES Z PIEZO TO KEEP TUNNELING CURRENT CONSTANT, INCL
 TYPICAL CCT USING SGS-ATES MONOLITHIC IC HI-FI POWER AMP./DC. COUPLED CCT WITH OA. ADDED & NEGATI
 INPUT STAGE OF MUX. CARD (RECEIVER & T&H) OF VSAT (VERY SMALL ANGLE TAGGER), USING HARRIS SH. & M
 EXPONENTIAL-SMOOTHING CCT THAT GENERATES AVERAGES BASED ON ALL PRECEDING IMAGES, DE-EMPHAS
 APPARATUS TO COLLECT RESISTANCE DATA FROM ANALOG MUX. SET, TO ALLOW 8 SENSORS TO BE READ WITH
 SUPERVISORY CONTROLLER (SC) INCLUDING PROCESSOR & EEPROM./PART OF CONTROLLER, INCLUDING SRAM
 AMPLITUDE CONTROL CCT OF AUTOMATED AC. SUSCEPTIBILITY MEASURING SYSTEM, USING ANALOG MULTIPLI
 2-PHASE TYPE ANALOG SPECTRUM ANALYZER, USING 2 MULTIPLIERS, 2 SQUARERS, SUMMATION CCT & INTEGR
 BIPOTENTIOSTAT TO OPERATE DUAL ELECTRODE ELECTROCHEMICAL CELL & CALCULATE DIFFERENCE CURREN
 EXPERIMENTAL CMOS. SHIFT REGISTER MADE FROM DUAL D FF.S, WITH 2 NAND GATES CONNECTED AS BISTAB

APPARATUS FOR MEASUREMENT OF CONDUCTANCE & CAPACITANCE OVER WIDE RANGE (BBB)/CURRENT-TO-VOLTA
4-PROBE AC. CONDUCTIVITY MEASUREMENT SYSTEM TO MAKE PRECISION MEASUREMENTS AT 20 TO 200HZ US
AMP. WITH 4 DIGITALLY CONTROLLED GAINS BETWEEN 1 & 1000/LOW-NOISE DATA-ACQUISITION BLOCK
IMPROVED PROGRAMMABLE IA. (AMP.) CCT THAT OVERCOMES DAC. TOLERANCES, USING OA.S, & CURRENT DR
LAPTOP PC. THAT CONCENTRATES MAJOR FUNCTIONS IN 4 WESTERN DIGITAL CMOS. IC'S INCLUDING CORE LOG
TYPICAL TEMPERATURE-CONTROL CCT USING ANALOG DEVICES IC TEMPERATURE TRANSDUCER (SENSOR)
TYPICAL TEMPERATURE-CONTROL CCT USING 2-TERMINAL IC TEMPERATURE TRANSDUCER THAT PRODUCES O
TYPICAL TEMPERATURE CONTROL CCT USING 2-TERMINAL IC TEMPERATURE TRANSDUCER THAT PRODUCES O
EXPERIMENTAL ARRANGEMENT INCLUDING OA. IN CURRENT-MEASURING CONFIGURATION TO MONITOR CURRE
AMP. INCLUDING POWER AMP. & BRIDGE IN WHICH LOUDSPEAKER IS 1 ARM/DRIVE LIMITER & WARNING INDICATO
9-POLE CHEBYSHEV LPF. USING ACTIVE CCT TO REALIZE FREQUENCY-DEPENDENT NEGATIVE RESISTORS THAT
AMP. FOR DETECTION SENSING DEVICE, USING PHOTOTRANSISTORS & DIFFERENTIAL AMP. (OA.), OPTIC FIBERS
AMP. OF AC. MAGNETOMETER, WITH LITTLE LF. NOISE, TO AMPLIFY SENSOR COIL SIGNAL, USING OA.S/CONVER
EXPERIMENTAL COMPANDER CCT FOR HI-FI SYSTEM
IMPEDANCE BRIDGE
CAPACITANCE-MEASURING ADAPTOR FOR A FREQUENCY COUNTER
SUPERHETERODYNE AM. AVIATION RECEIVER TO TUNE 118-135MHZ BAND (VHF. RANGE), USING DBM., LINEAR IF
BIPOLAR VFC. INCLUDING +1X GAIN CONVERTER, INTEGRATOR, COMPARATOR & 1 SHOT/LOW-LEVEL COMPARA
IMPLANTABLE STIMULATOR TO PRODUCE CONTINUOUS OR INTERMITTENT PATTERNS OF INDIRECT MUSCLE ST
INPUT BUFFER, 11.5KHZ TWEETER NOTCH FILTER, DIFFRACTION EQUALIZER & RUMBLE FILTER/2-BAND, PARAME
QRP 3W VFO.-CONTROLLED CW. TRANSCEIVER (RIG) FOR 30 OR 40M BAND, INCLUDING DIRECT CONVERSION RE
AMP.-DISCRIMINATOR OF DRIFT CHAMBER, INCLUDING PULSE DIFFERENTIATOR, FAST COMPARATOR & MULTIVI
COPPER VAPOR LASER (CVL) INCLUDING CAPACITOR-TRANSFER TYPE DOUBLE THYRATRON PM. (DTPM), DISCH.
SUPPRESSED-CARRIER DOUBLE-SIDEBAND DETECTOR FOR IF. OF 455KHZ (ENHANCED VERSION OF PLL. DETEC
APPROXIMATING POLE-CANCELLING NETWORK OF COMPRESSOR, USING LOW-NOISE OA.
AMP. & INDICATOR, INCLUDING HIGH GAIN PRE-AMP., POWER AMP. & SIGNAL STRENGTH INDICATOR/PROBE (DET
2 PHASE OSCILLATOR/NIR. REFLECTANCE SOIL MOISTURE METER USING PBS DETECTORS IN BRIDGE CCTS, PRE
TYPICAL CCT USING N-CHANNEL INSULATED-GATE FET./CCT TO APPLY SIGNAL TO OUTPUT STAGE OF MULTI-ST
EXPERIMENTAL SETUP FOR FAST DATA READOUT EXPERIMENTS
AMP. OF RECEIVER THAT INCLUDES PMT. FRONT END, INCLUDING "FLAT" RESPONSE AMP. WITH BW. OF ~50MHZ
INPUT & FILTER STAGES/DISPLAY GENERATION CCT/
CAPACITOR LEAKAGE TESTER, EASY-TO-BUILD
EXPERIMENTAL BOOST CONVERTER/EXPERIMENTAL CUK CONVERTER (4TH-ORDER SYSTEM WITH 2 PAIRS OF C
AMP. CCT IN METAL RING WATER DROP SENSING CHAMBER FOR SENSING PASSAGE OF CHARGED WATER DROP
APPARATUS FOR TESTING CONDUCTOMETRIC DETECTOR, INCLUDING MEASURING AMP. WITH FEED-BACK RESI
AMP. TEST CCT FOR STATIC NONLINEARITIES/TEST CCT FOR CROSSOVER, CLIPPING & SLEWING DISTORTIONS
AMP. TO MEASURE LIGHT INTENSITY USING LIGHT-INTENSITY SENSOR (LIS) CONSISTING OF PHOTODIODE & AMP
3-PHASE, LV. WAVEFORM (SIGNAL) GENERATOR INCLUDING PHASE SHIFT, AMPLITUDE & DC. OFFSET CONTROL/
APPARATUS TO STUDY RESPIRATORY RESPONSES OF CARCINUS MAENAS TO DECLINING AMBIENT OXYGEN TE
AMPLITUDE DETECTOR TAKING SAMPLE PULSES IN EACH HALF PERIOD USING MULTIPLIER & DIFFERENTIATOR,
EXPONENTIAL GENERATOR OF LOGARITHMIC AMP., USING DUAL BI-FET. OA. & FET., TO CONVERT VOLTAGE INTO
AMP. USED IN LASER POWER METER, USING CALORIMETER SENSOR BASED ON USE OF PLATINUM RESISTORS
AMP. & ANALOG FILTER CCT (ANALOG PRE-CONDITIONING CCT), USING OA.S, TO MATCH SPECTROPHOTOMETEF
BIPOLAR RECTANGULAR IMPULSE GENERATOR CONSISTING OF FEEDER BLOCK FOR ENTIRE ASSEMBLY, MONO
1 PHASE OF INVERTER FOR ELECTRIC VEHICLE PROPULSION VRM (VARIABLE-RELUCTANCE MOTOR) DRIVE, USI
INPUT STAGE FOR IN-PHASE PART OF SIGNAL/ROM.-BASED ALGORITHMIC STATE MACHINE/CLOCK DRIVER CCTS
CAPACITANCE BRIDGE DETECTOR, SIGNAL SUMMER & PREAMP./RF.-PSD. WITH DELAY LINE & LPF.
INPUT STAGE & TRIGGER CCT/GATING TIME GENERATOR/GATED INTEGRATOR & ADC./DECISION CCT INCLUDING
CAPACITOR-FED CHOPPER TYPE PSD. TO CONVERT 16KHZ AT SIGNAL TO DC. LEVEL

6-PORT CCT CONSISTING OF BIDIRECTIONAL COUPLER FOLLOWED BY LOW POWER VECTORIAL SENSOR USING INPUT AMP. OF SMALL MAGNETIC FLUX PROBE/SELECTABLE 3RD-ORDER HIGH-PASS FILTER TO ELIMINATE 50-40 TYPICAL AUDIO POWER-AMP. CCT/CURRENT-LIMITED POWER AMP. WITH SHORT-CCT PROTECTION APPLE II-NIKON CAMERA INTERFACE IN WHICH TRANSISTORS & DIODE SIMULATE SWITCH & DIODE IN NIKON MD. CAPACITOR DISCHARGE UNIT TO REPLACE MAGNETO IGNITION IN GARDEN MACHINERY (DC. CONVERTER) INPUT SECTION OF DEVICE FOR GENERATING PROGRAMMED SEQUENCES OF VOLTAGE PULSES/OUTPUT SECTION AMP. WITH GAIN OF 3.0 INTO 50OHM/DISCRIMINATOR/OVERLAP CCT WITH DC. COUPLED START & STOP SIGNALS APPLICATION CCT INPUT BUFFER & PEAK DETECTOR, INCLUDING FULL-WAVE RECTIFIER/LOGARITHMIC CONVERTER & METER OUTPUT 2-PHASE PHONO OSCILLATOR (2)/2-PHASE SUPPLY, FILTER & OUTPUT AMP./PLL. VARIABLE FREQUENCY PS. (2)/AMP.-MUX. SMD. BOARD INCLUDING 8 LOW-NOISE FET.-INPUT CHARGE AMP.S, SHAPING AMP.S & TRACK-&-HOLD TYPICAL RIAA EQUALIZING INPUT STAGE FOR MAGNETIC CARTRIDGE, USING IC AMP. & RECTIFIER FOR INEXPENSIVE LOW-FRICTION & LOW-INERTIA DISPLACEMENT TRANSDUCER, INCLUDING AMP. CCT FOR OUTPUT VOLTAGE OF PHOTODIODE USED AS PHOTORECEIVER, THAT AMPLIFIES OUTPUT OF PHOTO CAPACITANCE-TO-FREQUENCY (C-TO-F) CONVERTER OF PC.-CONTROLLED WEATHER STATION, USING HUMIDITY ALPHA MEDITATION CCT USING TIMER (ASTABLE OSCILLATOR) WHOSE PULSE RATE SETS VISUAL FLASHING RATE AMPZILLA III SOLID STATE 200W-CHANNEL PUSH-PULL SINGLE-ENDED AUDIO POWER AMP. USING FULL-WAVE BRICKWALL CIPHER MACHINE (MIND-TEASER OR TOY) TO CIPHER (ENCRYPT) (SCRAMBLE) & DECIPHER MESSAGES, INCLUDING AMP. CCT THAT SENSES GROUND-LEAKAGE CURRENT, DEVELOPING EQUAL & OPPOSITE CURRENT THAT IS INJECTED INTO IMPACT MAP CCT CONSISTING OF PEAK DETECTOR, HIGH PASS FILTER, SCHMITT TRIGGER, FOLLOWER, MONOSTABLE AMP. WITH AC.-VOLTAGE GAIN OF 15000, USING LOW-NOISE, LOW-POWER DUAL OA., & 0.4W AUDIO IC AMP. TO DRIVE AMP. & IMPEDANCE MATCHING CCT FOR RECORDING LASER BEAM DEFLECTIONS, USING 4 SECTION DETECTOR BOARD 3-PLATE CAPACITIVE TRANSDUCER INCLUDING MATCHING CCT TO DISPLAY SIGNAL ON OSCILLOSCOPE, & SYNC DETECTOR AMP.-DISCRIMINATOR BOARD USING PLESSEY 300MHZ LNA.S, COMMON EMITTER AMP., THRESHOLD SETTING NETWORK TYPICAL HV. UNIT IMPROVED Sallen-Key LPF. USING COMPENSATED INVERTING VCVS (VOLTAGE CONTROLLED VOLTAGE SOURCE) WITH CAPACITOR CHECKER USING TIMER IN ASTABLE (FREE-RUNNING) MODE, TO MEASURE PERIOD OF OUTPUT FREQUENCY E-PROBE PREAMP. USING LOW NOISE OA., & 2 SPARK COILS IN SERIES TO IMPROVE MATCH & S-N & ENHANCE 90% EXPANDED-SCALE FAHRENHEIT THERMOMETER WITH +50F TO +80F RANGE/BAR-GRAPH TEMPERATURE DISPLAY USING DSP. USING AMD 29500 FAMILY INCLUDING 16X16-BIT MULTIPLIER, SIGNAL PROCESSOR, PIPELINE REGISTERS & SUPERVISORY CCT THAT CAN BRING LATCHED-UP MICROCONTROLLER TO NORMAL OPERATING STATE BY CYCLICALLY SUPER-SIMPLE DIODE AM. RADIO RECEIVER/AM. RADIO USING OA. MAP NETWORK RECEIVER USING OA. THAT PROVIDES DIFFERENTIAL-TO-SINGLE-ENDED CONVERSION & GAIN OF 1000 EXPANDED VOLTMETER TO EXPAND RANGE OF 0-50UA METER TO READ 10-15V, USING 8V REGULATOR AS VOLTAGE INPUT UNIT OF ALP (ADAPTIVE LATTICE PREDICTOR), INCLUDING ADC./CENTRAL PROCESSING & CONTROL UNIT USING DSP. BOARD INCLUDING CPU., IO. PORT, ADDRESS DECODER & RAM., FOR REALTIME SPECTRAL ANALYSIS USING IMPROVED TRANSISTOR CURRENT NOISE TESTER TO MEASURE TRANSISTOR BASE-CURRENT NOISE AMPLIFIED EXTENSION SPEAKER FOR SCANNER, WITH VOICE-DEACTIVATED MUTING TO ELIMINATE HISS BETWEEN AMP. TO WHICH AUDIO SIGNAL IS FED & HIGHLY AMPLIFIED TO OPERATE PIEZOELECTRIC-FILM SPEAKER, USING IMPROVED SLAVE MAINS ON-OFF CONTROL OFFERING BETTER CONTROL OF INDUCTIVE LOADS, MONITORING METER USING DSP. DEVELOPMENT SYSTEM INCLUDING CPU. (CONTROLLED VIA PC. SERIAL LINK), DAC., ADC., MEMORY & LOW VOLTAGE 3-PHASE MONITORING CCT/GATE DRIVE CCT/AUXILIARY PS. UNIT/OVERCURRENT PROTECTION CCT/CROWBAR FUSE EXPANDED SCALE VOLTMETER-CHARGER-DISCHARGER/CCT TO INTERFACE CLOCK WITH OUTPUT JACK ON BACK OF BOARD IMPROVED ZERO-CROSSING AUDIO ACTIVATED POWER SWITCH (AAPS) WITH INPUT THAT IS VIRTUAL EARTH COMMON TO EXPANDED VOLTMETER WITH 10-SEGMENT LED. READOUT, USING DOT-BAR DISPLAY DRIVER IC, 10V ZENER DIODE & BANDPASS-FILTER COMPONENTS OF SPECTRAL VOICEPRINT CCT/SCANNING & DISPLAY SECTION APPLE II-COMPATIBLE SWEET TALKER UNLIMITED-VOCABULARY SPEECH SYNTHESIZER USING VOTRAX SPEECH SYNTHESIZER PEP MEASURING ADD-IN CCT TO MEASURE PEAK OUTPUT POWER OF RF. POWER AMP. (TRANSMITTER) WHEN USED WITH IMPROVED SIDETONE OSCILLATOR FOR ICOM 730

INPUT AMP. & TIMEBASE CCT/DIGITAL DISPLAY SECTION TO COUNT PULSES/ANALOG DISPLAY USING FREQUENCY
IMPROVED PULSE DETECTOR CCT THAT PULSES YELLOW LED. TRIGGERED ON RISING & FALLING EDGES, FOR L
EMP. MONITOR & AUTOMATIC POWER-LINE DISCONNECT UNIT, TO ALERTS YOU TO ELECTRICAL-STORM ACTIVIT
TYPE A ELECTRICALLY GATED PMT./SWITCHING CCT FOR SAME, USING POWER MOSFET.S/SWITCHING CCT FOR
AMP. USING 1 CMOS. INVERTER TO GENERATE PSEUDO DC. GROUND FOR SPLIT PS. BUS & ANOTHER INVERTER
TYPICAL APPLICATION CCT USING NATIONAL SEMICONDUCTOR SWITCH-MODE VOLTAGE (STEP-DOWN) REGULA
AMP. WITH DIODE DETECTOR/REFLECTION COEFFICIENT BRIDGE/DETECTOR CCT & METER AMP./CCT USING RE
EXPANDED SCALE METER CCT
AMPS (ADVANCED MOBILE PHONE SERVICE) OR TACS (TOTAL ACCESS COMMUNICATION SYSTEM) CELLULAR RA
4-PHASE MOTOR DRIVER
IMPROVED CCT FOR VOLTAGE LEVEL INDICATION, USING COMPARATORS/SIMILAR CCT WITH COMPARATORS TO
BIPOLAR, CONSTANT CURRENT-VOLTAGE (I-V) POWER SOURCE INCLUDING SLOW INTEGRATOR, TRIANGLE WAV
APPARATUS TO DEMONSTRATE SELF-INDUCTION & MUTUAL INDUCTION, WITH WHICH BACK EMF. IS DETECTED V
AMP./SWR.-POWER DETECTION CCT/BIAS SWITCH CCT/POWER-BARGRAPH CCT
IMPROVEMENT TO CURRENT LIMITER, USING TRANSISTOR INSTEAD OF SHUNT RESISTOR, DRAWING FAR LESS C
BIPOLAR, HV. AMP.S BASED ON DAC. (2) (BBB)/UNIPOLAR, HV. AMP. BASED ON R-2R CURRENT-STEERING DAC./A
EXPANDED SCALE VOLTMETER FOR 10-15V
CAPACITIVE VOLTAGE DOUBLER
CAPACITANCE BRIDGE DETECTOR THAT DETECTS IMAGE CURRENT PRODUCED BY IONS IN RESONANCE WITH R
INPUT STAGE TO ECG. AMP. WITH DEFIBRILLATION PROTECTION/BODY POTENTIAL DRIVER (BPD) CCT TO INCRE
SUPER-CAPACITOR-POWERED LED. FLASHER CCT USING DOUBLE-LAYER CAPACITOR OF 0.1-1F/ULTRA-SIMPLE S
CAPACITANCE MEASURING CCT TO DETECT (MEASURE) STANDING SURFACE (WATER) WAVES, USING TACHOME
LEPTON CANDLE (CANDLE SUBSTITUTE) THAT FLICKERS LIKE A CANDLE WITH AIR CURRENTS, USING OA., THER
DSP.-UP. SYSTEM USING MINIMAL NUMBER OF IC'S B USING DUAL-PORT 2KX8-BIT SRAM.S FOR PROGRAM & DAT
EXPANDED-SCALE VOLTMETER WHOSE ACCURACY IS FINE TO <10V INPUT, USING ADJUSTABLE & NEGATIVE-SU
IMPROVED VOX MOBILE EXTENDER THAT PERMITS USE (VIA HANDIE-TALKIE) OF HIGHER POWER MOBILE RADIO
3-PHASE PF. CONTROLLER
AMP.-DISCRIMINATOR BOARDS USED IN LARGE AREA POSITION-SENSITIVE X-RAY DETECTOR
AMP. CCT FOR SEISMOGRAPH (VOLTAGE-TO-CURRENT CONVERTER WITH BIT OF AMPLIFICATION) USING PC.JR
3 PHASE MONITORING CCT/MOSFET. GATE DRIVE CCT/PS./OVERCURRENT PROTECTION CCT/CROWBAR PROTEC
3-PHASE MOTOR PROTECTOR USING QUAD COMPARATOR, TO INEXPENSIVELY PREVENT FAILURE (BURNOUT) O
TYPICAL AUDIO AMP./BRIDGE AUDIO-AMP.
DSP.-BASED DISK CONTROLLER CONSISTING OF HOST-CONTROLLER INTERFACE & DRIVE-CONTROLLER CCT (B
INPUT CCT OF DIGITAL DATA ACQUISITION UNIT TO RECORD ULTRASOUND VELOCITY VARIATIONS, INCLUDING V
AMP. (EXTREMELY ACCURATE ELECTRONIC THERMOMETER) FOR MEASUREMENT RANGE OF 0DEG C TO +150DE
IMPROVED POCKET STEREO (AUDIO) AMP. THAT CAN BE DRIVEN WITH LINE-LEVEL SIGNAL FROM AUXILIARY OU
AMP. & MANUAL SWITCHING CCT/ABSOLUTE VALUE CCT & POLARITY DETECTOR/GAIN RANGING CCT USING LEV
EXPERIMENTAL DIODE EMULATOR USING ULTRA-LOW-RESISTANCE MOSFET. AS OUTPUT DEVICE/THYRISTOR (S
AMP. IN PHOTOTUBE BASE ASSEMBLY OF PHOTOMETER/AMP. RECEIVING ECL. PULSES FROM PHOTOTUBE BASE
AMP. TO DRIVE SPEAKERS BETWEEN 2 & 16OHM IMPEDANCE, PROVIDING 5W OF AUDIO TO 4OHM SPEAKER, ASS
DSP. CCT FOR PHASE-SHIFT MODULATION, INCLUDING VCO. & DIGITAL COMPARATOR (BBB)/CCT BASED ON PAR
SUPERREGENERATIVE DETECTOR/SELF- & EXTERNALLY-QUENCHED SAW. STABILIZED SUPER-REGENERATIVE A
QRP TRANSMITTER CONTROL SYSTEM COMPOSED OF 2 TIMER IC'S OF WHICH 1 HANDLES SEMI-BREAK-IN TIMING
BIPOLAR-TRACKING PS. WITH ADJUSTABLE VOLTAGE OUTPUT, USING 2 REGULATORS & FEEDBACK CCT
INPUT CCT FOR WAVEGUIDE DIODE MULTIPLIER (HARMONIC GENERATOR) THAT PRODUCES HARMONICS IN 10G
IMPEDANCE-MEASURING NETWORK (IMPEDANCE BRIDGE) USING RC. BRIDGE, TO MEASURE ANTENNA (COMPLE
AMP. CONTAINING 3 SEPARATE FEEDBACK STAGES & HIGH CURRENT OUTPUT DRIVER, WITH 1ST STAGE SERVING
TYPICAL FREQUENCY DISCRIMINATOR CCT/FM. RATIO DETECTOR
IMPROVED KEYING CCT MOD. FOR "8P6 HAMCATION" RIG (QST8304)

QRP SWR. BRIDGE (INDICATOR)/QRO SWR. BRIDGE FOR HIGH POWER, USING SHORT LENGTH OF 50OHM COAXIAL
EXPERIMENTAL CCT TO TEST IF COLLECTOR-TO-EMITTER CURRENT WILL STOP FLOWING IF BASE-TO-EMITTER VOLTAGE IS
TYPICAL SCR. DIMMER OR SPEED CONTROL/SPEED OR POWER CONTROL FOR DC. LOADS
EXPANDED VOLTMETER (STATE-OF-CHARGE METER FOR LEAD-ACID & NICKEL-CAD. BATTERIES) USING ZENER DIODE, PNP
EXPLOSION CCT & ASSOCIATED ELECTRONICS (CAPACITIVE DISCHARGE CCT & SPARK-GAP TRIGGER), INCLUDING
DSP. CCT OF GAS MASS FLOW RATE METER BASED ON BERNOULLI'S EQUATION FOR SUBSONIC FLOW, WITH +/-0.1%
CAPACITANCE MULTIPLIER (RIPPLE FILTER) THAT REDUCES HUM IN HI-FI EQUIPMENT BY 80DB
RAPID NICKEL-CAD. BATTERY CHARGER THAT CAN OPERATE TRANSCEIVER & CHARGE BATTERIES AT SAME TIME
QRP OMNI BOX CONSISTING OF FIELD STRENGTH METER, DUMMY LOAD, SWR. BRIDGE, CONTINUITY TESTER & PNP
TYPICAL UJT. RELAXATION OSCILLATOR
TYPICAL BIPOLAR TRANSISTOR COMMON EMITTER AMP./TYPICAL BIPOLAR TRANSISTOR COMMON BASE AMP./BIPOLAR
AMP. CONTROL CCT/LV. PS./RF. AMP. USING EIMAC HIGH-MU POWER TRIODE THAT PROVIDES 1500W TO ANTENNA
REPLACEMENT TURN-ON REGULATOR FOR WILLIAMSON 40-40 AMP., TO REDUCE TURN-ON POP (SURGE) TO SOFTEN
INPUT & DISPLAY CCT/VALIDATION CCT/CLOCK, PARTICLE, & VALID SIGNAL COUNT DISPLAY CCT
EXPERIMENTAL CCT USING OAS
QRP TRANSMITTER/CRYSTAL OSCILLATOR AS FREQUENCY MULTIPLIER/PIERCE OSCILLATOR/COLPITTS OSCILLATOR
EXPERIMENTAL ELECTRONIC DC. TO DC. TRANSFORMER (CONVERTER)
EXPERIMENTAL TRANSISTORIZED VFO. (LC. OSCILLATOR) TO COVER NARROW BAND AROUND 1300KHZ, USED TO
AMP. INCLUDING DIODES, WHICH, WHEN RECEIVING PROVIDE DIRECT PATH FROM ANTENNA TO RECEIVER, & WHEN
IMPROVED DC. CURRENT SUPPLY FOR HIGH-VACUUM STRAIGHT THROUGH SOLENOID VALVES
IMPROVED CONSTANT CURRENT BALLAST CCT TO PROVIDE PRESET CURRENT (RESC7605)
AMP. FOR ALPHA PULSES & 1ST STAGE OF MAIN AMP./SERVO SYSTEM
SUPER SENSITIVE CAPACITIVE SENSOR BURGLAR ALARM THAT FUNCTIONS AS PERIMETER ALARM, USING WIRE
APPLE-M-1 COUPLER INTERFACE USING OPTICAL ISOLATORS TO CONVERT 60MA CURRENT LOOP TO TTL. LEVEL
QRP TRANSMITTER FOR 30M BAND, INCLUDING CRYSTAL OSCILLATOR & AMP.
IMPULSE GENERATOR USING AVALANCHING TRANSISTOR TO DRIVE SRD. INTO REVERSE CONDUCTION, INCLUDING
AMPLIFICATION SYSTEM FOR NONPERTURBING RF. E-FIELD PROBE, USING IA., FOR MEASUREMENTS IN MICROWAVE
IMPULSE EXCITATION AMP. CONSISTING OF HV. DC. POWER SOURCE, MONOSTABLE MULTIVIBRATOR, SHAPER C
QRP (1.5W) 30M TRANSMITTER CONSISTING OF SINGLE TRANSISTOR OSCILLATOR DRIVING RF. AMP. WITH 4 PARALLEL
PNP EMITTER FOLLOWER (BUFFER)/TRUE BUFFER USING NPN EMITTER FOLLOWER ON OUTPUT OF PNP FOLLOWER
SUPERFUSE (MULTIPLE FUSE ADAPTER FOR OLDER TUBE-TYPE TRANSCEIVERS) WHICH PLUGS IN BETWEEN TR
IMPROVEMENTS TO SCR. PREREGULATOR CCT (ELDE8501)
AMP. CCT TO PROVIDE SUFFICIENT GAIN TO DETECT MILLIVOLT-LEVEL AUDIO SIGNALS ON HIGH-IMPEDANCE VT
RAPID BREAK-IN SYSTEM, USING REED RELAYS & PROVIDING FULL BREAK-IN WITHOUT AFFECTING SENSITIVITY
INPUT-FILTER & OVERVOLTAGE-PROTECTION CCT/HIGH-GAIN, LOW-NOISE IA./IA. WITH IMPROVED COMMON-MOD
CAPACITOR-DISCHARGE ELECTRONIC IGNITION UNIT CONSISTING OF INVERTER DRIVEN AT 15KHZ, INCLUDING V
IMPROVEMENT (MOD.) TO AUTO-ERASE CCT FOR 5100 SERIES OSCILLOSCOPE, REPLACING 2 IC'S WITH 1 TRANS
AMP. USING 2 TRANSISTORS, THAT OPERATES WITH 10DBM (1VPK) LOW-IMPEDANCE RF. INPUT SIGNAL BEYOND
AMP. FOR LAMP & CHARGE PULSES, TO SHAPE TTL. OUTPUT FROM LAB MASTER INTO PULSE SHAPE TO TRIGGE
PNP TRANSISTOR OPERATED AS VFO., INCLUDING VARACTOR DIODE/VARACTOR-TUNED OSCILLATOR/LOW-POW
TYPICAL "MONIMATCH" SWR. BRIDGE CCT
SUPER SIMPLE KEYING MONITOR
EXPERIMENTAL BATTERY-OPERATED SCALAR NETWORK ANALYZER FOR HF. SPECTRUM
TYPICAL APPLICATION CCT FOR "INTELLIGENT" MUX.ED LCD. DISPLAY DRIVER FROM NATIONAL SEMICONDUCTOR
CAPACITIVE DISCHARGE SYSTEM (BBB)/CAPACITOR BANK CHARGING CCTS (2)/SCR. TRIGGER CCT/TRIGGER & IN
APPLIANCE CONTROLLER TO CONTROL DC. OR AC. LOADS UP TO 120V AT 2A, USING DPDT. RELAY/CCTS TO COM
APPLICATION CCT FOR DDS (DIRECT DIGITAL SYNTHESIS) IC/EVALUATION BOARD FOR PLL. IC, INCLUDING REFER
AMP. TO AMPLIFY VOLTAGE ACROSS GERMANIUM RESISTANCE THERMOMETER (GRT)/UP. BASED DAS. INCLUDING
SUPER-DUPER IF. AMP. USING 5 CERAMIC FM. IF. FILTERS FOR HIGH SELECTIVITY IN FM. TUNER

INPUT STAGES & CHROMA-VBS SEPARATION FILTER OF AUDIO-VIDEO PROCESSOR/MULTI-STANDARD DECODER
AMP. OF POSITION SIGNALS OF DETECTOR, USING LOW COST, SMALL SIZE AMP. CHIP
EXPERIMENTAL ARRANGEMENT FOR MEASUREMENT OF TIME DIFFERENCE SPECTRUM
AMP. USING OA., TO AMPLIFY OUTPUT OF PHOTODIODE, WITH GAIN OF ~15 TO PRODUCE SUITABLE INPUT INTO I
SUPPORTING CCT FOR OPTICAL PROBE CONSISTING OF OPTICAL MICROSCOPE WITH MOD. INTERNAL ILLUMINATI
SUPER-LOW-NOISE OA. CCT WITH EXTREMELY HIGH GAIN, LOW DISTORTION & SUPERB CMR., WITH LED.-TRANS
DIPMETER (DIPPER) USING SINGLE-COIL DESIGN USING FET. IN HARTLEY OSCILLATOR, FOR TROUBLESHOOTING
BIPOLAR DC.-DC. CONVERTER
IMPEDANCE ERROR DETECTOR CCT INCLUDING DELAY LINE, 2 COAXIAL LINES WOUND ON TUBES TO ACT AS DO
APPLE COMPUTER GAME-PORT CONNECTION (TIMING) CCT USING PHOTOTRANSISTOR (THAT DETECTS WHEN L
INPUT STAGE OF PREAMP. CONSISTING OF 2 FOLDED CASCODE CCTS/SUMMING AMP. WITH TRANSIMPEDANCE
AMP. USING 2ND-ORDER COMPENSATION TECHNIQUE & HAVING GAIN OF 10/CCT USING ACTIVE FEEDBACK WITH
QRP TRANSMITTER USING FET. & 2 NPN TRANSISTORS, USABLE ON 80M THROUGH 10M AMATEUR BANDS/OPTIO
APPARATUS FOR FLUCTUATION ANALYSIS, INCLUDING IMPEDANCE TRANSFORMER USING HIGH INPUT IMPEDAN
TYPICAL CLASS C AMP. (LAST STAGE OF 450MHZ RF. TRANSMITTER FOR LANDMOBILE TRUNKED SYSTEM) USING
SOPHISTICATED AFFORDABLE AUDIO FUNCTION GENERATOR WITH EXTERNAL AM. & FM., USING SINGLE-CHIP FU
3-PHASE HF. SERIES RESONANT DC. LINK CONVERTER USED AS POWER CONDITIONING SYSTEM FOR SMES/MO
SUPERVISORY EXCHANGE-TONE DETECTOR USING DTMF. FILTER TO DETECT TONE-DIALING, & HIGH-STABILITY
EXPERIMENTAL INVERTER THAT FEEDS INTO RESONANT TANK CCT SUCH AS USED FOR INDUCTION-HEATING AT
EXPERIMENTAL CCT USING SIT (STATIC INDUCTION TRANSISTOR) WITH EXTERNALLY ANTIPARALLELED DIODE
INPUT CCT OF SOLAR TRACKER, INCLUDING MUX., ADC., & SH./OUTPUT CCT OF SOLAR TRACKER, INCLUDING DA
ADPCM. SPEECH ANALYSIS & SYNTHESIS CCT FOR STORAGE & REPRODUCTION/VOICE-REPRODUCTION CCT
APPLICATION CCT USING AUDIO STEREO DAC. (CONTAINING 8-TIMES DIGITAL INTERPOLATION FILTER & DELTA-S
UPPER DATA BUS BUFFER
AMP. USING DIFFERENTIAL JFET. PAIR, 3 COMMON EMITTER (CE) STAGES & COMMON COLLECTOR/LOGIC CCT US
4-POLE LOW-PASS ELECTRONIC MUSIC FILTER (LPF.) USING PRECISION MONOLITHICS' 4-POLE VOLTAGE-CONTR
TYPICAL APPLICATION (5V DC. AT 3A TO POWER A UP.-BASED SYSTEM)
AMP. FOR 220 OR 432MHZ/AMP.S USING MMIC.S FOR 902MHZ & ABOVE (2)/2.3GHZ MICROSTRIPLINE AMP. USING 7
AMP. CONSISTING OF COMPLEMENTARY PAIR OF HIGH-SPEED POWER MOSFET.S OPERATED IN SWITCHING MO
AMP. INCLUDING PREAMP. USING DUAL-CHANNEL FET. & MAIN AMP. USING 2 OA.S
SUPPRESSED-CARRIER MODULATOR WHOSE BALANCED MODULATOR OUTPUT IS ZERO WITHOUT AF. SIGNAL, &
AMP.S WITH LOW OFFSET & DRIFT (3)/AMP. WITH PARALLEL PATHS FOR AC. & DC./38MHZ BW. AMP. WITH DIFFER
AMP. THAT CAN DRIVE 100MA CAPACITANCE OR CABLE LOADS, SUITABLE FOR USE AS ATE. PIN AMP., VIDEO AD
EXPERIMENTAL CCT FOR BISTABLE MULTIVIBRATOR/ASTABLE MULTIVIBRATOR USED AS SIMPLE BUZZER
SUPPLY INSENSITIVE CURRENT SOURCE
BIPOLAR CURRENT TRANSMITTER/CURRENT TRANSMITTER DRIVING 12-BIT DAC.S
3-PIECE STANFORD TELECOM SPREAD-SPECTRUM DEMODULATOR ASIC. CHIP SET USED IN SPREAD-SPECTRUM
SUPPLY TO PROVIDE +-12V AT 500MA EACH & 5V AT 2A FROM -48 TO -52V TELEPHONY SUPPLY, USING LT1070 IN
CAPACITANCE-MEASURING (CHARGE-BALANCING) CCT THAT USES ONLY 0.5V TEST VOLTAGE, EMPLOYING DELT
IMPLEMENTATION OF STANAG 3838-3910, USING LOW-SPEED BC-RT-MT, FIBER-OPTIC TRANSCEIVER, DATA-RETI
IMPROVED VOLTAGE-CONTROLLED CURRENT SOURCE INCLUDING BASE-CURRENT-ERROR CORRECTION CCT &
SUPERCONDUCTING MAGNET'S PS., INCLUDING MASTER UNIT, SLAVE UNIT, COIL, SHUNT & MOSFET.S
AMP., COMPARATOR & MONOSTABLE (BBB)/COINCIDENCE UNIT, PRIORITY ENCODER & TRIGGER PULSE GENERA
APPLIANCE LEAKAGE DETECTOR USING GROUND-FAULT INTERRUPTER (GFI) CONTROLLER IC, INCLUDING TORC
3-PHASE 3KW-IGBT. BASED HF. (60KHZ) RESONANT DC. LINK INVERTER OF INDUCTION MOTOR DRIVE, WITH BIDIF
TYPICAL CONFIGURATION WITH MEMORY FOR PROGRAM STORAGE, & LATCHES FOR UP TO 512 DIRECTLY ADDR
AMP. WITH (FLAT) 10DB LINEAR GAIN FROM 100 TO 1500MHZ, USING BIPOLAR TRANSISTOR & SHUNT FEEDBACK
IMPEDANCE MATCHING NETWORK FOR IMPLEMENTATION OF NOTCH REJECTION MASS FILTER, TO SUPPLY QU
INPUT (LONG TAIL PAIR DIFFERENTIAL) AMP. & TRIGGER CCT USING MONOSTABLE/AVALANCHE CHAIN/HYDROGE

IMPROVED MCA.-MICROCOMPUTER INTERFACE

4-QUADRANT PWM.-PWM. ANALOGUE MULTIPLIER USING PRECISE TRIANGULAR-WAVE GENERATORS, COMPARATOR & SEQUENCER

I-Q (INPHASE-QUADRATURE) DETECTION SYSTEM CONSISTING OF 12 BIT ADC., PROGRAMMABLE TIMER, UP., MEASUREMENT OF BIQUARTIC BANDPASS FILTER (MOD. OF CLASSIC BIQUAD CCT) USING INTEGRATORS, WITH CENTER FREQUENCY CONTROL SEQUENCE CONTROLLER USING 2 COUNTERS THAT DEFINE DEAD TIME DURATION & COUNTING TIME

SEQUENTIAL SCANNING CCT/PAUSE GENERATOR TO STOP SCANNING WHEN DATA IS RECEIVED, PRINTER IS BUSY, DEQ (DOUBLE-ENDED QUEUE) FUNCTION STATE MACHINE HARDWARE IMPLEMENTATION INCLUDING 3 SIGNETIC SEQUENCE GENERATOR FOR PERIODIC SAMPLING OF TRANSIENT PHENOMENA

LIQUID LEVEL CONTROL UNIT FOR ANEROBIC DIGESTERS, BASED ON NTC. THERMISTOR WORKING IN SELF HEATING MODE, REQUIRED LOGIC FOR 1 CHANNEL OF EVENT MEMORY IN IO. BOX OF DATA COLLECTION SYSTEM THAT INCLUDES

LIQUID-HELIUM-COOLED (4.2K) GAASFET. PREAMP. FOR USE IN STABILIZED POINT CONTACT SQUID. MAGNETOMETER, LIQUID-LEVEL MONITOR/LIGHT-SENSITIVE CCT/COMPOUND COMPARATOR/RELAXATION OSCILLATORS (2)/0-50V. 1000

SEQUENTIAL LOCK CCT WITH PROGRAMMABLE KEY WORD LENGTH FROM 1 TO 15 DIGITS, INCLUDING 2-OUT-OF-3 LOCK, LIQUID NITROGEN LEVEL DISPLAY SYSTEM TO DISPLAY LEVEL IN CONTAINER, USING RED & GREEN LED.S TO SHOW LEVEL

4-QUADRANT-MULTIPLIER-BASED CCT TO MEASURE RELATIVE PHASE OF 2 INPUTS, SHIFTING REFERENCE PHASE BY 90 DEG, 2-QUADRANT DIVIDER/SQUARE-ROOT CCT

2-QUADRANT ANALOGUE DIVIDER SYSTEM FOR ACCURATE COMPUTATION OF RATIO, WITH 3US RISE TIME, CMOS LOGIC, SEQUENCER CCT FOR SELF-START OF MOTOR-ENGINES

2-QUADRANT ANALOGUE MULTIPLIER BASED ON PWM. & SAMPLED-DATA TECHNIQUE, INCLUDING SAW-TOOTH GENERATOR, LIQUID-NITROGEN TANK SELECTOR USING SSR.S/LEVEL CONTROLLER INPUT CCT/TIME DELAY CCT/THERMISTOR

BIQUADRATIC FILTER INCLUDING INTEGRATOR & INTEGRATOR-DIFFERENTIATOR BLOCKS/FILTER DISPLAY SIGNAL, LIQUID-LEVEL INDICATOR FOR THE BLIND

SEQUENTIAL CODE CONVERTER FOR SHAFT ENCODERS

4-QUADRANT HYBRID MULTIPLIER USING QUAD-SLOPE TECHNIQUE, CONSISTING OF MULTIPLYING ADC. BASED ON ADDER, SEQUENTIAL CCT FOR MATRIX TYPE-B ENCODER SYSTEM/SEQUENTIAL CCT FOR MATRIX TYPE-B DECODER SYSTEM

LIQUID HELIUM (HE) LEVEL INDICATOR TO MONITOR LEVEL IN DEWAR, USING OA., & 220OHM CARBON COMPOSITION RESISTOR, SEQUENTIAL DTMF. DECODER

LIQUID-FLOW METER

ACQUISITION MODULE INCLUDING CONTROL UNIT, MULTIPLIER ACCUMULATOR, FIFO.S, SRAM. & VECTORED PRIORITIZER, SURPLUS LINEAR AMP.

VARIABLE-FREQUENCY QUADRATURE OSCILLATOR WITH FREQUENCY RANGE OF 5.5 TO 36KHZ, & 90DEG PHASE SHIFT, SIREN CCT

PORTION OF CCT USING 8031 MICROCONTROLLER (2)/VIDEO DISPLAY INTERFACE USING NCR CGMA (COLOR GRAPHICS) CORELESS ECL. DIFFERENCE AMP. USED AT EACH END OF DELAY LINES/DELAY LINE DISCRIMINATOR THAT FIRE

CORRECTED CCT FOR ARTICLE ENTITLED "CCT YIELDS PARALLEL-SERIAL CONVERSION", USING COUNTER PARALLEL-PORT, VERSATILE CCT FOR FREQUENCY-TO-VOLTAGE CONVERSION AT FREQUENCIES TOO LOW FOR ANALOGUE CONVERTER

NOR-GATE LOCK-DETECTION CCT/FSK. DETECTOR/FREQUENCY-TO-VOLTAGE CONVERTER

PERPETUAL-CALENDAR CCT THAT CAN BE ADDED TO ANY LED. CLOCK TO KEEP TRACK OF DAYS OF WEEK AS WELL AS MONTH, CIRCUIT CELLAR IC TESTER USABLE IN PC.-HOST, TERMINAL OR STAND-ALONE LCD. MODE, TO TEST TTL. & CMOS

CORDLESS-TELEPHONE LOCK THAT DENIES ACCESS TO HANDSET THAT SENDS WRONG ID, INCLUDING 8052AH MICROCONTROLLER, PARALLEL-PORT CCT FOR INTERPROCESSOR COMMUNICATIONS BETWEEN 8031 UP.S, GIVING FAST COMM CHANNEL

EPROM. EMULATOR INCLUDING MICROCONTROLLER (CMOS. PROCESSOR), DATA BUS BUFFER (FOR TARGET INTERRUPT), TURN-SIGNAL REMINDER USING QUAD 2-INPUT NAND SCHMITT TRIGGER, 12-STAGE RIPPLE-CARRY COUNTER-DIVIDER

HARDWARE TO MEASURE PERIOD OF 1 OR MORE INPUT PULSE TRAINS

BURGLAR ALARMS USING SWITCHES (2)/SELF-LATCHING BURGLAR ALARM/AUTO-TURN-OFF BURGLAR ALARM/PANIC BUTTON, VARIABLE CLOCK OSCILLATOR WITH PROVISION TO STOP & SINGLE-STEP PULSES

VARIABLE PIN DIODE ELL ATTENUATOR (DRIVER CCT) INCLUDING TEMPERATURE COMPENSATION TO MINIMIZE THERMAL DRIFT, VERY FAST LOW NOISE PREAMP./FAST PHOTON COUNTER INCLUDING DIFFERENTIATOR & LIMITER STAGES (4)/E

PARALLEL-EPROM. PROGRAMMER (BBB)/SAME TO PROGRAM 27256 EPROM.S UNDER UP. CONTROL (2)/CCTS TO STRAY-IMMUNE CHARGE-DISCHARGE (CAPACITANCE) TRANSDUCER CCT USING 4 CMOS. SWITCHES, AMP. & SEMI-MXR DRUM COMPUTER EXTERNAL SOUND CHIP MODULE

EPROM.-ROM. POWER-STROBING CCT TO REDUCE POWER CONSUMPTION OF CCTS BUILT AROUND SUCH PARTS

EPROM. DUPLICATOR FOR 2716'S, MEANT AS EXTENSION TO EMULATOR, TO READ & COPY 2716'S (ELWI8209)

BURGLAR ALARM

VERSATILE DIGITAL FREQUENCY DISPLAY

KARNAUGH MAP DISPLAY

PORTABLE SW. CONVERTER TO EXPAND MONOBAND RECEIVER COVERAGE & TUNE IN MORE BANDS

SERIES TUBE FLOATING DECK MODULATOR, PROGRAMMABLE FROM 0 TO 30KV WITH RISE TIME OF <10US, & USING

VARIABLE CMOS. OSCILLATOR USING TRANSFER GATE TO SWITCH RESISTORS IN & OUT, TO VARY (ALTER) CCT'S

ZERO CROSSING POWER CONTROLLER TO CONTROL AC. POWER & ELIMINATE RFI., USING CMOS. DIFF.S, MAINS

PERSONAL MESSAGE CENTER THAT FUNCTIONS AS REVERSE AUTOPATCH WHEN CONNECTED TO RADIO TRANS

VERY PRECISE VARIABLE VOLTAGE REFERENCE WITH 2 FULL SCALE RANGES OF +-10V & +-1V, INCLUDING CPU.

STRESS TESTER THAT IMPRESSES HV. SPIKES ONTO 120V AC. INPUTS OF DUT., USING HEX INVERTER THAT FOR

SSR. WITH CAPACITIVELY COUPLED DRIVE CCT THAT DRIVES N-CHANNEL MOSFET./SAME WITH TRANSISTOR AD

PARALLEL TO SERIAL SHIFT REGISTER

CAR ALARM THAT USES VOLTAGE SWING THAT OCCURS AT COURTESY LIGHT AS DOOR IS OPENED AS TRIGGER

CURRENT SENSORS POWERED FROM FIXED SUPPLIES (2)/1 METER (DVM.) AUTO-POLARITY VOLTAGE & CURRENT

SERVO TESTER TO COMPARE SERVO PERFORMANCE, INCLUDING 2MHZ CRYSTAL CONTROLLED OSCILLATOR, &

HARDWARE FOR COMPUTERISED SPEED CONTROL TO CONTROL SPEED OF SMALL DC. MOTOR, USING 4-BIT D-T

PART OF DAS. USING DATA COMPRESSION TO REDUCE MEMORY REQUIREMENT, INCLUDING INTEL UP., SYSTEM

CORRECTED MOTOR-SPEED CONTROLLER CCT INCLUDING OSCILLATOR CCT (RAEL9202)

HORIZONTAL SYNC SUPPRESSION CCT INCLUDING PICTURE-SYNC SEPARATOR (USING TTL. EXCLUSIVE-OR (XOR)

ZERO-CROSSING-SWITCHING POWER CONTROLLER THAT OPERATES OVER 2^6 AC.-POWER CYCLES, USING ZCD

CURRENT SOURCE USING WIDE-BW., UNITY-GAIN BUFFER AMP., SUITABLE FOR BEING DRIVEN IN PULSED MODE

CURRENT-CONTROLLED SWITCH WITH DUAL CURRENT LIMITS, CAPABLE OF DRIVING HOLLOW CATHODE DISCHA

CIRCUITWERKES MPC-2 FCC PART-68 TELEPHONE INTERFACE THAT OFFERS "PASS THROUGH" TYPE APPROVAL

STRAIGHTLINE PREAMP.

THRESHOLD DISCRIMINATOR TO WHICH AMPLIFIED CHARGE PULSES FROM GM-TUBE ARE APPLIED, TO PRODUCE

UART. CONNECTION BETWEEN CONTROLLER & COMPUTER/FILTER, AMP., LIMITER & DATA & CLOCK RECOVERY

VERY SIMPLE BURGLAR ALARM CCT THAT DRIVES LOUD DC. BUZZER WHEN EITHER OF ITS 2 ZONES ARE TRIGGE

"GROUNDED-GRID" LINEAR AMP. THAT WILL RUN 1000W PEP INPUT FOR SIDEBAND SERVICE & 800W FOR CW. OF

VARIABLE CCT THAT MODELS SQUARE-LOOP HYSTERESIS USING CMOS. SCHMITT TRIGGERS & OUTPUT SUMMIN

VERY SIMPLE FREQUENCY INDICATOR THAT, BY MEANS OF MULTIMETER, PERMITS MEASUREMENT OF FREQUE

PORTABLE (MOBIL) COMPUTER CONTROLLED CONE PENETROMETER INTERFACED TO IBM PC., WITH SPEED CON

CORRECTED CCT FOR ARTICLE "A FLOPPY DISK INTERFACE", INCLUDING 3 INPUT AND GATE INCORRECTLY DRA

PART OF STM. FEEDBACK CONTROL CCT, INCLUDING SUMMING AMP., ANTILOG AMP., VARIABLE GAIN LINEAR AM

LARGE CACHE MEMORY WITH ECL. SUPPORT CCT & NON-MUX.ED IO. ENHANCING ITS PERFORMANCE (BBB)

SCR. RELAXATION OSCILLATOR FEATURING PROGRAMMABILITY OF FIRING POINT

VERSATILE EPROM. EMULATOR

SCR. OVERVOLTAGE PROTECTION CCT FOR 12VDC. POWER SOURCE, INCLUDING 12V RELAY/SCR. VARIABLE DC

PARALLEL TO SERIAL CONVERTER/LINE-MIC AMP./MARKER-LINEUP OSCILLATOR/SECURITY MAT TRIGGER/SIMPL

SCR. CCT IN WHICH SCR. ACTS AS GATE FOR CURRENT THROUGH ELECTROMAGNET OF PORTABLE, CONTINUOU

HORIZONTAL DRIVE CONTROL CCT OF POWER-PER-LINE ANALYZER TO PROVIDE CONTINUOUS REAL-TIME DISPI

THRESHOLD DETECTOR FOR LIGHT- & TEMPERATURE-SENSITIVE RESISTORS/HALL EFFECT TRANSISTOR/OPTIC

HARTSHORN BRIDGE CCT USING O.A.S & KELVIN-VARLEY VOLTAGE DIVIDER/RESISTIVE BALANCE CCT/NULL-DETE

HARKNESS BATTERY-OPERATED RADIO USING 2 TYPE 22'S IN FRONT END, & 01-A AS DETECTOR VACUUM TUBE,

CURRENT INTEGRATOR (I-V CONVERTER) INCLUDING FET. INPUT TYPE AMP. WITH HIGH INPUT IMPEDANCE, & CO

SCR. PROXIMITY ALARM CCT USING METAL PLATE/SCR. POWER MONITOR CCT/SOLAR-TRIGGERED SWITCH CCT
HARD-TUBE PM. (SHORT-PULSE RADAR MODULATOR) WITH RESISTANCE LOAD, USING 2 EIMAC PARALLEL SWITCH
DARK ADAPTOMETER CONTROL CCT INCLUDING PPI., FOR USE WITH HEATH H8, 8080A SYSTEM, USING OF LED. I
SERIAL LINK CONTROLLER FOR SUMMATION DMM20 6.5-DIGIT DMM. MODULE, TO CONNECT PLD.-BASED STATE M
EPROM. PROGRAMMER TO PUT FAVORITE COLOR COMPUTER PROGRAMS INTO ROM. PACKS/PS.
EPROM. EMULATOR TO ALLOW EPROM. PROGRAMS TO BE DEVELOPED IN RAM., INCLUDING CMOS. RAM./RS-232
ERROM. PROGRAMMER TO BE DRIVEN FROM EXTERNAL COMPUTER SYSTEM/BUFFER-MEMORY SECTION OF INT
WORKSTATION USING UP., CRT. CONTROLLER & VIDEO-INTERFACE/EXTENDED-WIDTH-CHARACTER CCT/CCT FO
SERIAL-TO-PARALLEL CONVERTER BOARD
ERROR AMP. OF PID.-TYPE TEMPERATURE CONTROLLER, USING DIFFERENTIAL STAGE, CONNECTED TO RTD. (S
ARRANGEMENT TO TRANSFER DATA BETWEEN Z80 UP. IN SOFTBOX & 6502 IN PET MICROCOMPUTER VIA IEEE-48
SERIAL INTERFACE FOR APPLE II PC., USING INTEL PROGRAMMABLE COMMUNICATIONS INTERFACE, PROGRAMM
GERMANIUM BOLOMETER PREAMP. INCLUDING INPUT STAGE CONSISTING OF COOLED, TEMPERATURE-REGULA
VARIABLE-DUTY-CYCLE OSCILLATOR CCT THAT CONTROLS MINIATURE 3-WAY SOLENOID VALVE MIXER
CURRENT LIMITER FOR PRECISION VOLTAGE REGULATOR/CCT USING REGULATOR & PNP TRANSISTOR AS SERI
SERIAL BUS CONTROLLER FOR WHOLE SERIAL PARTY-LINE BUS SYSTEM/DATA SEQUENCER FOR PERIPHERAL D
VERY RELIABLE & TROUBLE FREE OSCILLATOR FOR 3RD, 5TH, 7TH & 9TH OVERTONE OPERATION, USING FET./10
DIRECT CENTER FREQUENCY DIGITAL DISPLAY CCT FOR ANY RECEIVER, USING DVM. TO DISPLAY FREQUENCY
AURORA MONITOR/PMT. & FEEDBACK LOOP/MONITORING & ALARM CCTS (2)/PS.
FIRING APPARATUS TO PROVIDE CONSTANT CURRENT PULSE WAVEFORMS, INCLUDING DELAYED DUMP CCT, C
AIR-HEATING-COOLING CONTROL CCTS REFERENCED TO PT100 TEMPERATURE SENSOR/HUMIDIFIER CONTROL
CURRENT SOURCE DRIVER OF LED., INCLUDING MONOSTABLE MULTI/PMT. BASE USING HV. P CHANNEL FET.S IN
VERY SIMPLE INTERFACES FOR APPLE II MICROCOMPUTER, TO KEY RIGS USING GRID-BLOCK OR CATHODE KEY
HARDWARE-SOFTWARE COUNTER FOR MEASURING BAR & SPACE WIDTHS IN SYSTEM-INTERRUPT APPLICATION
EPROM. PROGRAMMER THAT WILL PROGRAM 2764 & 2716 EPROM.S, READ ANY ROM., PROM. OR EPROM. & BE G
ZERO SUPPRESSION HARDWARE INCLUDING 16 BIT PATTERN REGISTER, MUX., COUNTER & FF. (BBB)
BAR CODE READER-DECODER BOARD THAT INTERFACES HP HEDS-3050 BAR CODE WAND TO TRS-80 COMPUTER
PORT BOARD DECODING SECTION/OUTPUT CONTROL SECTION/DECODED INPUT SECTION/SPRINKLER HEAD CO
HARD SECTOR-SOFT SECTOR MIXED DISK INDEX PULSE SEPARATOR TO USE HARD-SECTORED DISKETTES ON 5
PARALLEL ADC. WITH BCD. OUTPUT/DIGITAL READOUT ADDITION TO ADC.
TURNTABLE AMP. WITH PUSH-PULL OUTPUT/TOUCH SWITCH/DOOR-SLAM SWITCH/TELEPHONE RECORDER CCT/
SERVOAMP. (FEED-BACK CONTROL CCT) OF WAVE-FOLLOWING SYSTEM, TO DRIVE PEN ARM BY APPLICATION O
PORTION OF CCT FOR DISPLAY OF 2 ASCII. CHARACTERS ON DOT MATRIX DISPLAYS/DAC.S USING COUNTERS &
PART OF CCT TO MEASURE PROGRAM OR PROGRAM-SEGMENT EXECUTION TIME & AID IN DEBUGGING, BY COU
PART OF GAASFET. PREAMP. SEQUENCER, SHOWING CORRECTION(S) (BBB) (7ART9203)
VERY SIMPLE FREE-RUNNING MULTIVIBRATOR
GARAGE DOOR CONTROLLER THAT HAS 2 BINARY OUTPUTS WHICH DRIVE MOTOR/SEQUENTIAL LOCK CONTROL
SERIAL TO PARALLEL INTERFACE ADAPTOR TO ACCEPT OUTPUT FROM DIGITAL STORAGE ADAPTOR & CONVER
CURRENT GENERATOR OF OPTICAL DISPLACEMENT TRANSDUCER SYSTEM/PHOTOCELL & CURRENT-TO-VOLTA
PART OF SYSTEM INTERFACE LOGIC IMPLEMENTED WITH PAL., TO PERFORM AT-BUS 16 BIT DATA TRANSFERS T
MARKER GENERATOR THAT GENERATES SIGNALS AT PRECISE 1MHZ, 100KHZ, 50KHZ & 25KHZ INTERVALS THRO
ZERO-VOLTAGE SWITCHING CCT TO DRIVE UP TO 8 MAINS OUTLETS, FOR SWITCHING PERIPHERALS ON & OFF V
SERVO-CONTROL CCT OF FEEDBACK SYSTEM TO COMPARE BLOOD FLOW SIGNAL TO REFERENCE, USING COM
STRAIN-GAGE AMP. WHOSE OUTPUT VOLTAGE DECREASES AS RESISTANCE OF STRAIN GAGE THAT FORMS PAR
BSR X-10 COMMAND CONSOLE INCLUDING PS., TRANSMISSION CCT & LOGIC CCT/SPECIAL CONTROLLER INCLUD
NOR GATE SWITCH/NAND-GATE SWITCH
DERANDOMISER & SYNCHRONISER/PULSE DELAY CCT INCLUDING COUNTER, SHIFT REGISTER & COUNT-TO-PUL
DERBY-WINNER INDICATOR USING IR. EMITTERS & SENSORS TO DETECT CAR CROSSING FINISH LINE (TO DETE
PARALLEL-TO-SERIAL CONVERTER/CCT TO DELIVER VIDEO TO TV., USING VIDEO COMBINER & SYNC DELAY CCT

Sheet1

PARALLEL EXPANDER USING 2 FF.S TO READ IN DATA 8 BITS AT A TIME, INCLUDING DECODING CCT THAT SENDS
HARDWARE RECOVERY LOGIC CCT (HRLC) FOR UP. AFTER POWER FAILURE OR TRANSIENT FAULT, THAT GENER
SORT CELL USING GATED MAGNITUDE COMPARATOR TO COMPARE 2 PIECES OF DATA & CROSSBAR SWITCH TO
SERVOAMP. ELECTRONICS INCLUDING CONDUCTIVITY PROBE, WHEATSTONE BRIDGE, 3-STAGE LPF., & MOTOR I
ERROR-DETECTING CCT OF SRAM. TESTER, CONSISTING OF 800KHZ CLOCK, COUNTERS, PATTERN GENERATOR
TARGET RELEASING ELECTRONICS
MORSE CODE OUTBOARD ACTIVE FILTER
CURRENT TO VOLTAGE CONVERTER/SPECTROMETER AMP./COMPUTER INTERFACE INCLUDING SIGNAL CONDITI
CORRECTED CCT OF STUN-GUN (RAEL8609)
FIRING CCT FOR RECTIFICATION FOR 5 PULSES PER HALF-CYCLE OF SUPPLY VOLTAGE, INCLUDING ZCD., COMP
PARALLEL PRINTER ADAPTER TO INSTALL IN RADIO SHACK COCO COMPUTER, USING 8-BIT LATCH, DUAL 2-TO-4
CORRELATOR ACQUISITION BOARD INCLUDING INPUT GATE, PROGRAMMABLE CLOCK GENERATOR, 16 BIT COUN
VERSATILE CW. SHAPER
VARIATION ON COMMON LED. FLASHER IN WHICH AMOUNT OF LIGHT AVAILABLE IN ROOM CONTROLS FLASHER
SCR. & TIMER CCT
AURAL VCO. THAT PROVIDES RELATIVE METERING (RF. SNIFFER TO PRODUCE TONE RELATIVE TO FIELD STRE
PARALLEL-TO-SERIAL INTERFACES BETWEEN MICROCOMPUTER & EEPROM. (3)/CCT TO FORM BIDIRECTIONAL-S
WIRING HARNESS TESTING CCT THAT DETECTS OPEN CCTS, SHORT CCTS & CROSSED WIRES
VERSATILE LOGIC PULSER FOR USE IN CONJUNCTION WITH LOGIC PROBE, COMPATIBLE WITH CMOS. & TTL. DEV
PORTABLE ELECTRONIC PEST REPELLER USING DUAL-TIMER CHIP AS SWEEP-FREQUENCY OSCILLATOR INCLUD
HARDWARE BIOFEEDBACK INTERFACE TO MONITOR GALVANIC SKIN RESISTANCE FOR TRS MODEL I OR III COMF
CAR DOOR LIGHT ON-TIME EXTENDER, USEFUL IN ALARM SYSTEMS, PROCESS CONTROLS & AUTOMATIC MACHI
SIREN FOR BURGLAR-ALARM SYSTEM
CAR LIGHTS-ON WARNING CCT/CONTINUITY TESTER/COURTESY LIGHT CCT/SIGNAL INJECTOR/COIN TOSSER (2)
DARKROOM TIMER USING OSCILLATOR-TIMER, TRANSISTORS, LED. & BUZZER THAT BEEPS AT PRESET INTERVA
CHRISTMAS-TREE LIGHT TESTER BASED ON OSCILLATOR-TIMER (WIRED FOR ASTABLE OPERATION) THAT PROD
STROBE MOD. INCLUDING TIMER & SPECTRONICS PHOTON INTERRUPTER (PHOTOINTERRUPTER) MODULE
X-RAY ALIGNMENT MONITOR USING TIMER & TRANSDUCER BASED ON PHOTORESISTOR, TO ALIGN DIFFRACTOM
HARTSHORN INDUCTION BRIDGE OF MOVING-SAMPLE SUSCEPTOMETER TO MEASURE MAGNETIC SUSCEPTIBL
HORIZONTAL & VERTICAL SYNC GENERATORS/CCT THAT CUTS DOWN COMPOSITE SYNC AT OUTPUT OF SCHMIT
CARRIAGE CONTROL CCT OF FRINGE-COUNTING INTERFEROMETER, TO CONTROL CARRIAGE MOVEMENT & FRIN
CORRECTED CCT FOR MUSICAL RINGER (HAEL8402#)
AIR CONDITIONER COMPRESSOR GUARD
STRAIN-GAUGE BRIDGE & AMP. CCT USING ONLY CMOS. IC'S & LOW ON DUTY CYCLE, TO CUT CURRENT CONSUM
CORRECTED CCT FOR ARTICLE ENTITLED "ELECTRONIC KNIGHTHOOD" (RAEL8804)
BURGLAR ALARM FOR YOUR CAR
STROBOSCOPE
CORRECTED CCT OF RF. PROBE MOD. TO FUNCTION AT UHF. (MIRF8603)
VERSATILE PULSE GENERATOR THAT GENERATES WIDE RANGE OF PULSE WAVEFORMS FOR USE WITH DIGITAL
VERSATILE, LOW-COST LOGIC PROBE
CORRECTED CCTS FOR ARTICLE ENTITLED "USE THYRISTOR TO CONTROL 555 TIMER", INCLUDING USE OF OPTO
CORRECTION TO MACRO SCRUBBER, TO DISALLOW MACRO VISION PULSES FROM PASSING DUE TO 14US WINDO
FIRE ALARM MASTER UNIT USING TIMER & CMOS. HEX INVERTER/CCT USING RELAY, TO ADD TO DRIVE OTHER O
PART OF HORIZONTAL CCT OF SCOPE, USING 3 DECADE COUNTERS/INCOMPLETE OSCILLOSCOPE INCLUDING T
EPROM.-BASED LINEARIZATION CCT TO LINEARIZE RESPONSE OF ORTHOGONAL DIPOLE ELECTRIC FIELD PROBI
FERROUS METAL DETECTOR/HALL EFFECT SWITCH/CURRENT AMP./AC. POWER CONTROL
SERIES DRIVEN TRANSMITTER/SHUNT DRIVEN TRANSMITTER/TT. COMPATIBLE SNAP-IN FIBRE OPTIC LINK/CMOS
PORTION OF KENWOOD SM-220 STATION MONITOR SCOPE/CCT SHOWING SIMPLE MOD. TO INSTALL TR. RELAY,
PERIPHERAL BOARD USING UART. THAT ACCEPTS DATA FROM TELETYPE CONVERTER, & VIA. THAT GENERATES

CART SPEED CONTROL & TIMER-STOP CCT

CARRIER OPERATED RELAY (COR)

VARIABLE-SPEED DRIVE CCT (TIMER CCT) FOR RUSTRAK CHART RECORDERS, IN WHICH POTENTIOMETER & CAPACITOR GENERATOR USING 2 TIMERS, TO TEST IN-38 COURSE INDICATORS USED IN NAVIGATION SYSTEM IN CESSNA FORTH-BASED MICROCONTROLLER BOARD INCLUDING CPU., RAM., ROM. & RS-232C INTERFACE/-5V PS. FOR 148 PORTION OF AMRAD STATION FOR SPREAD-SPECTRUM TRANSMISSIONS (FREQUENCY-HOPPING), INCLUDING BUZZER DIRECT LV. CORONA CALIBRATOR THAT PRODUCES SIMULATED CORONA PULSE, USING 1-SHOT MULTIVIBRATOR MARGINAL OSCILLATOR/AUTOMATIC LEVEL CONTROL CCT/FREQUENCY-TO-VOLTAGE CONVERTER/MOTOR CONTROL STRAIN-GAUGE SIMULATOR TO TEST STRAIN-GAUGE AMP.S, USING DIGITALLY CONTROLLED POTENTIOMETER TO EPROM. ERASER USING LOW-PRESSURE, MERCURY-VAPOR 6W UV. LAMP (TUBE), BALLAST & FLUORESCENT LAMP HARDWARE INTERRUPT SWITCH THAT CONNECTS TO NMI. PIN ON UP.

FORTH COMPUTER (BBB)/CPU. SECTION INCLUDING PROCESSOR WITH GATES FOR TIMING SIGNALS (2)/MEMORY VARIABLE-FREQUENCY PULSE GENERATOR WITH FREQUENCY RANGE OF 2HZ TO >50KHZ/PROXIMITY DETECTOR MORSE TRANSMIT CCT WITH INPUT FROM VIC-20 OR C-64 USER IO. PORT/MORSE RECEIVE CCT USING TONE-DECODE PARALLEL-TO-SERIAL CONVERTER

PART OF INTERFACE BOARD FOR PHASE CONTROL OF PTS-300 DIGITAL FREQUENCY SYNTHESIZERS, USING 1-CURRENT INRUSH-CURRENT LIMITER TO PROTECT TUBES OF LINEAR AMP./SAME FOR AMP. WIRED FOR 234V EPROM.-BASED TV. SYNC SIGNAL GENERATOR INCLUDING 4MHZ CRYSTAL OSCILLATOR, BINARY HORIZONTAL, VERTICAL WORLD'S CHEAPEST IC TEST PROBE

PERSONAL SECURITY ALARM THAT SOUNDS BUZZER (AUDIBLE ALERT) WHEN IT DETECTS INTRUSIONS FOR INVERTER DIRECTIONAL COUPLER CCT THAT, WHEN INSERTED BETWEEN HEAD & PREAMP., INJECTS SMALL DC. CURRENT CORRECTED SCHEMATIC DIAGRAM OF CRYSTAL DRIVER CCT (RESC8903)

PART OF TDR., INCLUDING MICROCONTROLLER, DAC. & POWER CONTROL CCT/TOUCH SCREEN INTERFACE (2)/MULTI-VERSATILE, RUGGED & PRACTICALLY INDESTRUCTIBLE COMPACT 5-20V REGULATED DC. PS.

PART OF MINIMAL 68000 UP. BASED MICROCOMPUTER/CCT TO TURN MINIMAL MICROCOMPUTER INTO GENERAL PURPOSE SERIES-REGULATED PS. TO PROVIDE +-12V WITHIN 10% AT 500MA & +5V WITHIN 5% AT 300MA, FOR VOICE SYNTHESIS EARLY-RECOGNITION CCT TO GENERATE EARLY INTERRUPT-ACKNOWLEDGE SIGNAL (INTA) FOR Z80 UP. WHEN USED WITH VCR. ADD-ON COLOR PROCESSOR TO CREATE FADES, REDUCE NOISE & CORRECT COLOR ERRORS IN VIDEO RECORDING

VERSATILE DISPLAY CONTROLLER THAT MAKES HIGH-RESOLUTION COLOUR GRAPHICS WITH UP TO 640 BY 512 PIXELS TARGET BOARD USING MOTOROLA EMBEDDED UP. (2)/INTERFACE BOARD INCLUDING DAC., ADC. & SPEPPING MOTOR DARKROOM TIMER USING SINGLE-CHIP MICROCOMPUTER (PROCESSOR) CONTAINING RAM. & EPROM., INCLUDING HARDWARE FOR SELF-TUNING REGULATOR (STR), USING TRANSPUTER DEVELOPMENT SYSTEM (TDS), INCLUDING MARCONI INSTRUMENTS 2965 RADIO TEST SET MULTIPLE PROCESSORS INCLUDING 2 UP.S, 3 MICROCONTROLLER

'FREE-RUNNING' CCT THAT FORCES BYTE 7F ONTO DATA BUS WHEN SWITCH IS CLOSED, USING CPU. (UP.)/DATA BUS SERIAL-PARALLEL BOARD OF PERIPHERAL PROCESSOR, FEATURING 1 RS-232 PORT & 4 8-BIT TTL. PARALLEL PORT SERIAL CRATE BUFFER MODULE/12-BIT DAC. MODULE INCLUDING OPTOCOUPLEDERS/300V HV. PS. WITH CURRENT LIMITING HARDWARE LAYOUT OF OPTICAL SENSING SYSTEM USING CCD., INCLUDING ADC. BOARD INCLUDING 12 BIT ADC

FORCE COMPUTERS CPU-80 BOARD THAT INTERFACES THROUGH 100MBYTE-S M BUS TO 88000-BASED DYADIC MICROPROCESSOR HARDWARE CONFIGURATION OF SCANNING SYSTEM

VARIABLE FREQUENCY OSCILLATOR (VFO.)

PART OF TTL. DIVIDER USING DECADE COUNTER IC'S, WITH OUTPUTS OF 1MHZ, 100KHZ & 10KHZ WITH INPUT FROM MEMORY CARD TO SPEED UP IBM PC. WITH 16-BIT COPROCESSING POWER, USING 512K BYTES OF DRAM. & INTERFACE TO SERIAL SCROLLING TOUCHTONE DECODER TO DISPLAY UP TO 16 INCOMING TOUCHTONE DIGITS BEGINNING AT RIGHT

SCRATCH FILTER/RUMBLE FILTER

VERY-LOW-DROPOUT REGULATOR FOR BATTERIES WHOSE OUTPUT VOLTAGE DROOPS UNDER LOAD, USING MICROPROCESSOR PARTICAL POSITION MONITOR CCT (LOG RATIO AMP.) TO PROCESS SIGNAL IMBALANCE CAUSED BY VERTICAL MOUNTING CAR BODYWORK CHECKER

VARIABLE VOLTAGE REFERENCE SOURCE WHICH, WHEN ADDED TO KEITHLEY 610C ELECTROMETER, ENABLES MEASUREMENT

MARGINAL OSCILLATOR WITH RF. LEVEL DETECTOR & RF. OUTPUT AMP./CCTS TO PRODUCE CONTROL VOLTAGE
 ZERO OFFSET COMPENSATION CCT FOR 'PITRAN' PTM2 TRANSISTOR, & ACTIVE FILTER & PREAMP./PEAK DETEC
 GYRATOR PCM. LPF. (PRECISE ACTIVE RC. FILTER) CONSISTING OF 5 OA.S, 18 RESISTORS & 6 CAPACITORS/SFG
 VARIABLE ATTENUATOR IN WHICH CURRENT LEVEL CAN BE SET BY COMPUTER-CONTROLLED DAC./RELAY DRIV
 ZERO-REFERENCED DC. VOLTAGE FOLLOWER/CONSTANT-CURRENT GENERATOR
 CURRENT REGULATED HV. PS. FOR 30W DUAL SECTION CW. CO₂ LASER SYSTEM, INCLUDING STABILIZATION CO
 PERSONAL RADIATION MONITOR THAT USES CADMIUM-TELLURIDE DETECTOR TO PROVIDE INDICATION OF RAD
 VARIABLE GAIN STAGE OF SELF OSCILLATING ZEROPHASE NONCONTACT THICKNESS GAUGE FOR NONFERROU
 WIRELESS REMOTE CCT/REMOTE CONTROL DECODING CCT/VIDEO BUFFER/AUDIO BUFFER
 CURRENT PUMP ON LAST STAGE OF VOLTAGE-CLAMP APPARATUS, TO OBTAIN VOLTAGE-TO-CURRENT CONVER
 WIRING DIAGRAM OF ION SOURCE, INCLUDING OA.S, WELL REGULATED HEATER & CATHODE PS.S & 3 STAGE KE
 SERIAL INTERFACE BETWEEN UP. & ANALOG CONTROL ELEMENTS SUCH AS CHART RECORDERS & SERVOS
 PARTIAL SCHEMATIC OF PS-5 5A PORTABLE PS. WITH ADDED CROWBAR CCT (QST8306)
 SERVOAMP. USING STEREO AUDIO AMP. CHIP CONTAINING 2 DC. POWER AMP.S, ABLE TO SUPPLY >1A TO SERV
 TORQUE-MOTOR DRIVER USING 2 IMPROVED-HOWLAND CCTS IN BRIDGE CONFIGURATION/TEST CCT FOR "INTE
 PARTITIONED VIDEO DIGITAL DECODER USING DMSD (DIGITAL MULTISTANDARD DECODER) PAL-NTSC. DECODE
 ZERO CROSSING SWITCH
 CURRENT INVERSION TYPE OF NEGATIVE IMPEDANCE CONVERTER (I-NIC.) USING MIXED PNP-NPN TRANSLINEAR
 CURRENT MONITOR SECTION OF POTENTIOSTAT/PS./OUTPUT STAGE & PROGRAMMING VOLTAGE SECTION/PS. P
 CURRENT-TO-FREQUENCY CONVERTER COVERING RANGE FROM 3×10^{-10} A TO 3×10^{-5} A OF INPUT CURRENT, FO
 VARIABLE-RATE LINEAR TEMPERATURE CONTROLLER TO CONTROL 5KW FURNACE, USING DIGITAL ELECTRONIC
 HARMONIC LOCKING CCT USING COMMUTATIVE FILTER WITH PRE & POST-FILTERS INSERTED INTO SIGNAL PATH
 SERIAL-PORT SURGE PROTECTOR THAT PROVIDES SERIAL-PORT GROUND ISOLATION & SURGE PROTECTION, T
 CURRENT-CONTROLLED MULTIVIBRATOR USING OTA. IC'S, WITH LINEAR CONTROL OF OSCILLATION FREQUENC
 BURGLAR ALARM THAT CAN BE DEACTIVATED (DISARMED) BY PRESSING CORRECT 7-DIGIT SEQUENCE ON MOM
 VERTICAL FAST & SLOW FEEDBACK CCTS INCLUDING CURRENT REGULATORS THAT GOVERN COIL CURRENT (2)
 ICR. FET. PREAMP. WHOSE FRONT END USES DUAL JFET.S TO INSURE EQUAL GAIN FOR EACH HALF OF DIFFERE
 SERVO LOOP CCT FOR CAVITY STABILISATION OF FAR IR. HCN LASER OPERATING AT 337UM
 CORRECTED CCT SHOWING CONNECTIONS TO FAIRCHILD 78S40 SWITCHING REGULATOR (BYTE8111)
 NARROW BANDPASS FILTER NETWORK IN COMPARATOR CCT, FOR DISTANCE PROTECTION SYSTEM, WITH 50HZ
 VARIABLE GAIN PREAMP. FOR CAMBRIDGE BOREHOLE GEOPHONE, CONTROLLED BY LOGIC CCT TO ADJUST GA
 VERY SIMPLE LOW-COST 1-TUBE 2-TO-5W 40M CW. TRANSMITTER (RIG)/300VDC. PS./CCT SHOWING HOW USE OF
 DIRECT-CONVERSION DOUBLE-BALANCED PRODUCT DETECTOR USING FAST-RESPONDING HOT-CARRIER DIOD
 CURRENT AMP. USING FUJITSU'S MB43400 LINEAR ARRAY CONFIGURED AS 4 AMP.S (QUAD AMP.) IN 14 PIN SOT P
 CURRENT STEP-UP DC.-DC. CONVERTER/VOLTAGE STEP-UP DC.-DC. CONVERTER
 VERY FAST CACHE USING 25NS SRAM.S, WITH TAG FIELD CONSISTING OF RAM. ACCESSED BY ADDRESS & CON
 EPROM. BURNER FOR 68705 MICROCONTROLLER, IN WHICH COUNTER DECODES SEQUENTIAL MEMORY LOCATI
 EPROM. PROGRAMMER (PROM. BURNER) FOR 2716'S, FOR USE WITH DEVICE DRIVER ROUTINE
 CURRENT TO FREQUENCY CONVERTER IN 10^{-8} TO 10^{-6} A RANGE/CURRENT INTEGRATOR USING 3.5 DIGIT ADC.
 CORRECTED PACKETMAC MODEM CCT DIAGRAM SHOWING CHANGES TO TXD & RXD WIRING, PIN NUMBERS ON
 VARIANT OF LONG-TAILED TRANSISTOR PAIR CCT THAT MAINTAINS GOOD AMPLITUDE CONTROL WITHOUT BOTT
 VARIABLE-BW. MOD. CCT TO PROVIDE BW. IF., USING MIXER & FILTER BOARD
 2-RANGE CAPACITANCE CHECKER/CAPACITANCE TESTER/2-RANGE SWITCHING ARRANGEMENT TO BE USED WI
 SERIES TANK VCO. WITH SINE WAVE OUTPUT, USING SERIES LC. CCT CONSISTING OF TUNABLE INDUCTOR & CA
 TARDINESS ALARM THAT MOUNTS INSIDE RADIATION MONITOR & TRIGGERS AUDIBLE ALARM AT END OF 194-DA
 PARALLEL-BUS HAYES-TYPE SMART MODEM USING SIERRA MODEM IC & CMOS. CONTROLLER CHIP/STAND-ALON
 SERIAL PERIPHERAL INTERFACE (SPI) CCT INCLUDING UP. (CPU.), ADC., RAM., VCO., LCD. & LED. DRIVERS, & SEI
 CURRENT SWITCH & TRIANGLE-SQUARE-WAVE GENERATOR/SINE SHAPER & OUTPUT AMP./SWEEP GENERATOR
 PART OF INTEGRATIVE ANALOG FEEDBACK CONTROL CCT OF STM. CONTROL & DATA ACQUISITION CCT, USING

STROBE (PS.) CCT TO SUPPLY FLASH AT REPETITION RATES FROM 0 TO 10HZ/STEPPER MOTOR DRIVER TO ALLOW DIRECT-READING DIGITAL THERMOMETER WITH DIODE SENSOR & 3.5-DIGIT ADC. FOR -199 TO +199DEG LORAN-C FRONT END (RF. ENVELOPE DETECTOR)/SIMPLE GRI PULSE GENERATOR TO STOP LORAN SIGNALS ON SERIAL INTERFACE OF PT-68K COMPUTER, CONSISTING OF 4 PORTS, USING DUART.S/PC.-COMPATIBLE KEYBOARD GERMANIUM DIODE DETECTOR STAGE USING CRYSTAL SET CCT/INTERMEDIATE AMPLIFICATION STAGE/OUTPUT STROBE/SLAVE-FLASH TRIGGER/SEQUENTIAL FLASH-TRIGGER TO CONTROL TO 5 FLASH UNITS/FLASH-TRIGGER ZERO VOLTAGE SWITCHING 25A SSR./CCTS USING OPTO-ISOLATOR WITH TRIAC & 2 SCR.S (2)/SEQUENCER USING PARTIAL CCT OF MOTOR-CONTROLLER BOARD INCLUDING, DAC., VELOCITY-FEEDBACK LOOPS & PWM.S, TO CONTROL PART OF RTC-HC11 COMPUTER-CONTROLLER, SHOWING PROCESSOR (MICROCONTROLLER), BUFFERS & SERIAL CORRECTED SCHEMATIC OF 2-TONE GENERATOR THAT GENERATES SINGLE TONES OF 697 OR 1477HZ BY USING A PERFECT-STEP GENERATOR FOR CHECKING OSCILLOSCOPE/SETTLING-TIME TEST FIXTURE WITH AUTOZERO FEATURE PARTIAL CCT OF INTERMEDIATE POWER AMP. & FINAL POWER AMP. OF 27.1MHZ RF. GENERATOR, SHOWING MOORE HARTLEY OSCILLATOR PROVIDING SOURCE OF ACCURATE RF. ENERGY FOR REPAIR & ALIGNMENT OF RADIO EQUIPMENT HARDWARE CYCLE COUNTER THAT CONNECTS TO PIA. (BBB)

SCR. PHASE-FIRED HEATER CONTROLLER CCT TO REGULATE POWER SUPPLIED TO HEATING ELEMENT, BY VARIATION OF ICR. OSCILLATOR (AMP. USING PRINCIPLE OF CASCADING TRANSCONDUCTANCE & TRANSIMPEDANCE STAGES), CIRCULATING PUMP CONTROL TO DRIVE MAGNETIC SOLENOID COIL THAT OPERATES PISTON CONSISTING OF TWO VERY WIDE RANGE CRVCO (CONSTANT REACTANCE VCO.) WITH FREQUENCY & AMPLITUDE STABILITY, TUNING IN A VARIABLE-GAIN CURRENT-VOLTAGE CONVERTER USING +-2.5V SIGNAL FROM COMPUTER TO VARY CURRENT SUPPLY PERIPHERAL-INTERFACE CCT THAT ALLOWS SLOW FF. TO WORK WITH FAST UP./SIMILAR CCT USING SLOW DUAL PERIPHERAL TO ALLOW HOLD FUNCTION ON ANY TOUCH-TONE PHONE & HAS PROVISIONS FOR MUSIC DURING EARLY-MINUS-LATE CODE MODULATOR USING ECL. DEVICES, TO DRIVE MIXERS AT HIGH DATA RATES WHEN ADDED 'CROWBAR' PROTECTION CCT THAT WILL SENSE VOLTAGE RISE & BLOW FUSE BEFORE DAMAGE OCCURS TO RIG CAR IGNITION SYSTEM

VERNIER COUNTER INCLUDING COINCIDENCE DETECTOR/ZCD. INCLUDING PULSE SHAPER VARIABLE-NOTCH FILTER FOR RECEIVERS

PERSONAL MICROWAVE COMMUNICATIONS SYSTEM/VIDEO RECEIVER/VIDEO TRANSMITTER

SERVO LOOP TO TEST FLASH ADC.S, USING COMPARATOR & CURRENT SOURCE/CCT TO LOAD BINARY REFERENCE VERTICAL DRIFT CHAMBER (VDC) LNA.-LEADING EDGE (TIMING) DISCRIMINATOR CCT, SET AT 1 MV TO REDUCE SERIAL LINK BETWEEN MICROCOMPUTER & DAC./TONE-GENERATOR CCT USING VCO.S/REMOTE-CONTROL CCT PARASITIC DC. PS. CCT THAT TURNS ON INCANDESCENT LAMP AT FULL BRIGHTNESS FOR PRESET PERIOD OF TIME VARIABLE-LOAD BOX-POWER-TRANSISTOR TESTER TO CHECK REGULATION & SET CURRENT LIMITS OF DC. PS. CURRENT-TO-VOLTAGE CONVERTER & VOLTAGE AMP. TO MEASURE SENSITIVITY OF PHOTOEMISSION PLATE-TYPE STRAIN GAGE BRIDGE SIGNAL CONDITIONER & ADC. INTERFACE (AMPLIFICATION CCT WHOSE OUTPUT IS DIGITIZED) CAR ALARM THAT BECOMES EFFECTIVE 3MIN AFTER LEAVING CAR & ALLOWS ~15S TO DISABLE IT ON RE-ENTERING SERIAL TRAM (TRANSPUTER MODULE) USING MOTOROLA 8-BIT MICROCONTROLLER TO INTERFACE BETWEEN TWO PARTIAL CCT OF CRYSTAL OSCILLATOR IN HEATHKIT DX-60B TRANSMITTER (RIG), SHOWING SLUG-TUNED COIL PORTABLE MULTICHANNEL DATA LOGGER BASED ON PORTABLE COMPUTER

SERIAL & PARALLEL TRANSPUTER (IO.) INTERFACES TO ENABLE TRANSPUTERS TO COMMUNICATE WITH PERIPHERAL BIRD-FEEDER MONITOR/EAR PROTECTOR (PEAK AUDIO-DETECTOR-SHUTDOWN CCT)/VARIABLE-FREQUENCY AUDIO VARIABLE PULSE WIDTH MONOSTABLE USING NOVEL POTENTIOMETER METHOD FOR TIMING

KERNEL SECTION OF SIMPLE, LOW-COST LF. FILTER (LFF) TO GET RID OF RUMBLE & ACOUSTIC FEEDBACK WITH PORTION OF T1004 DIGITAL LOGIC IC TESTER & IDENTIFIER CAPABLE OF TESTING 7400, 5400, & 4000 SERIES IC'S BURGLAR ALARM USING RELAYS THAT ELIMINATE SEMICONDUCTOR FAILURES IN THE ALARM-ACTIVE MODE, WITH CURRENT DIGITIZER TO INTEGRATE PULSE CURRENT FROM FARADAY CUP, INCLUDING ANALOG INTEGRATOR, CURRENT INTEGRATOR TO MEASURE CHARGE, USING LOW-INPUT-BIAS OA., INCLUDING EXTRA FEEDBACK LOOP CURRENT PULSE GENERATING CCT/FRONT END SIGNAL CONDITIONING CCT & DIGITAL INTERFACE, CONSISTING OF VARIABLE-GAIN 8-BIT ADC.S TO MEASURE ANALOG SIGNALS, INCLUDING DUAL DAC. & OA. THAT PROVIDE REFERENCE PORTABLE UP.-BASED DAS. INCLUDING 8-BIT ADC. (2)/PARALLEL INTERFACING CCTS FOR DATA TRANSFER BETWEEN

VARIABLE PHASE COUNTDOWN CCT

PORTABLE DIGITAL THERMOMETER THAT MEASURES TEMPERATURES FROM -350DEG TO +400DEG C, USING THE CORRECTED PARTIAL CCT OF PC.-BASED 810MHZ SPECTRUM ANALYZER, SHOWING WHERE DAC. OUTPUT GOES TO CURRENT SOURCE & REFERENCE CCT, INCLUDING TWIN-TEE FILTER/TUNED AMP. & PSD., INCLUDING ANALOG D.C. CURRENT-TO-VOLTAGE CONVERTER TO TRANSFORM OUTPUT OF PMT. TO VOLTAGE, & AMP. TO BOOST SIGNAL TO CAR CARD WHICH, WHEN INSTALLED IN IBM PC. OR CLONE, ALLOWS DIGITIZATION, STORAGE ON DISK, EDITING & PLAYBACK CURRENT SOURCE FOR ALGAAS. LASER DIODE, TO SUPPLY UP TO 100MA CONSTANT CURRENT PLUS UP TO 20MVA VARIABLE BRIGHTNESS CONTROL USING OSCILLATOR CONTROLLED BY ANTILOGARITHMICALLY CONFIGURED CURRENT CORRECTED CCT USING TEMPERATURE TRANSDUCERS, 1 OF 8 MUX., VFC. & MICRO-CONTROLLER (BBB) (ELEN8) CAR RADIO USING VOLTAGE REGULATOR WITH WATCHDOG FUNCTION INCLUDING MICROCONTROLLER, RAM., R.F. CHROMEL-CONSTANTAN (TYPE-E) THERMOCOUPLE-LINEARIZATION CCT CONSISTING OF COLD-JUNCTION COMPENSATION PART OF SIGNETICS VIDEO ENCODER & DECODER, USING ANALOG INTERFACE CHIPS SURROUNDING DIGITAL FILTER WIRE GAUGE CCT (CCT WHOSE PROBE CURRENT IS PROPORTIONAL TO ITS IMMERSION DEPTH)

STRAIN GAUGE BRIDGE & SIGNAL PROCESSING CCT, USING ANALOG DEVICES IA. & BURR BROWN VFC. TO GENERATE STRAIN GAUGE BRIDGE & MEASURING CCT, USING ARRAY OF METAL THIN FILM STRAIN GAUGE RESISTANCES & VARIAN E-LINE PREAMP. FOR BRIDGE WITH BOTH ABSORPTION & DISPERSION REFERENCE ARMS

PORTION OF HD64180 (ZILOG Z80180) PROCESSOR BOARD, SHOWING CPU. & EPROM. (BBB)

VARIABLE-FREQUENCY CLOCK/PRECISION 6-DIGIT VOLTMETER/DIGITALLY CONTROLLED FREQUENCY SYNTHESIZER CURRENT-TO-VOLTAGE CONVERTER & AMP. OF FAST BACKGROUND CORRECTION SYSTEM/ADDRESS & DATA BUS VARIATION OF JUNG-WURCER RIAA PHONO PREAMP./CORRECTED VERSION OF JUNG-WURCER PREAMP./UPDATE VERY LOW-COST RECORDER INTERFACE THAT GENERATES VOLTAGE PROPORTIONAL TO NUMBER OF TIPS OF RECORD MIRROR-DRIVE GENERATOR CCT THAT GENERATES SQUARE-WAVE SIGNAL & PERIODIC RAMP/CCT FOR SIGNAL GENERATOR SERIAL ASCII.-BAUDOT CMOS. CHARACTER GENERATOR TO TEST PRINTER OR VIDEO TERMINAL/RS-232 INTERFACE VERSATILE BATTERY CHARGER THAT HANDLES FROM 1 TO 6 AA CELLS AT CHARGE RATE OF 50MA, USING VOLTAGE DMR 100 3-DIGIT DIGITAL DB (DECIBEL) METER USING COMPRESSOR LOOP CONSISTING OF RMS. CCT & VCA. (DUAL) SERIAL-PARALLEL DAC. BOARD USING ANALOG DEVICES 14BIT DAC. WITH 76 TO 80DB SNR., INTERFACED TO ADDRESS PERIOD-TO-VOLTAGE CONVERTER NEEDING ONLY 3 PERIODS OF INPUT SIGNAL TO DEVELOP STABLE OUTPUT VOLTAGE SERIAL-PORT PORTION OF INTERFACE/SERIAL-PORT ADC. INCLUDING BAUD RATE GENERATOR (2)/PARALLEL-PORT NARROW BAND FM. DISCRIMINATOR TO DETECT MINUTE FREQUENCY DEVIATIONS IN PZT.S, INCLUDING Q MULTIPLE SPRAY-CHARGE DETECTOR & BUFFER AMP. CCT, TO DETECT FALLING OF CHARGED-PARTICLE, SPRAY-CLOUD PHOTO VARIABLE WAVEFORM GENERATOR USING INTEGRATOR, COMPARATOR & SH. AMP., & SYSTEM TIMING CCT/SIGNAL STROBE DRIVER CCT IN RASTER SCAN SYSTEM, USING DAC.S/CCT USING HDG-SERIES DAC.S WITH TTL. INPUTS VERY FAST PEAK DETECTION & ADC. SYSTEM USING 8-BIT PEAK DIGITIZER WITH TIMING & INPUT CCTS, INCLUDING CORRECTED CCT FOR TRUE RMS. CONVERTER FOR DMM. (RAEL8812)

CURRENT-TO-VOLTAGE AMP.-SWITCH MODULE/COCKCROFT-WALTON (CW) BASE FOR PMT., COMPRISING CHAIN OF STRAIN GAUGE AMP. THAT OVERCOMES PROBLEM OF CMR. BY REMOVING COMMON MODE VOLTAGES

CURRENT BOOSTER/LIMITER/INSTRUMENTATION DIFFERENTIAL AMP./COMPUTER-CONTROLLED POTENTIOSTAT CURRENT-LOOP CCT/ISOLATED DATA CONVERTER/DIGITAL-OUTPUT TRANSDUCER CCT/TEMPERATURE MONITOR PERIODIC BATTERY LV. DETECTOR (TESTER) USING CMOS. SCHMITT TRIGGER & CAPACITOR THAT ACTS LIKE 1-10 CORRECTED CCT USING LOW POWER IC'S FOR RF. DATA COMMUNICATION, WITH FSK. & ASK. OUTPUTS (MADE8) CAR RADIO PREAMP. WHOSE VOLUME-BALANCE CONTROL CONSISTS ENTIRELY OF LINEAR OA. STAGES/HI-FI STEREO FORWARD TRACKING CHAMBER (FTC) DAS. FOR 1 ANODE WIRE (BBB)/AMP.-SHAPER-DISCRIMINATOR (ASD)

DIRECT CONVERSION RADIO RECEIVER FOR 160-20M, INCLUDING AUDIO AMP. CONFIGURED AS 200 TIMES GAIN. VERY SIMPLE SPEECH ACTIVITY DETECTOR CONSISTING OF CLASS-A AMP. & MONOSTABLE MULTIVIBRATOR

CAR-CLOCK REJUVENATOR

VCR. SYNC STABILIZER

CURRENT CONTROLLED STIMULATOR FOR FES-INDUCED WALKING, INCLUDING TIMING SECTION DERIVED FROM WIRE TENSION TESTER TO DETECT & MEASURE RESONANT FREQUENCY OF WIRES IN VARIOUS TYPES OF CHAMBERS HARTLEY OSCILLATOR/BUTLER OVERTONE & COLPITTS CRYSTAL OSCILLATORS (2)/FREQUENCY DOUBLER/40M

PORTION OF DAS. FOR INITIALIZATION OF SHIFT REGISTER USED IN SEQUENCING OF HOLD COMMANDS, INCLUDING FERRORESONANT AC. VOLTAGE REGULATOR TO SMOOTH OUT POWER-LINE VOLTAGE VARIATIONS & PROTECT CARRIER-CURRENT TRANSMITTER USING EXISTING AC. LINES IN HOME AS TRANSMISSION MEDIUM, & USING AM MERCURY SWITCH ALARM INCLUDING BUZZER, BASED ON SIMPLE TIMING CCT, USING 3-TERMINAL SHORTING P NMR. ELECTRONICS INCLUDING RF. TUNED CCT CONSISTING OF 2 FET.S IN PARALLEL THAT CONSTITUTE VOLTA MORSE-RTTY. DIGITAL DETECTOR THAT LETS COMPUTER DECYPHER CW. & RTTY. SIGNALS, INCLUDING FRONT PART OF HYBRID CCT OF DETECTOR MODULE, INCLUDING WIDEBAND DIFFERENTIAL VOLTAGE AMP. WITH GAIN DIRECT-CONVERSION RECEIVER USING IC CONTAINING WILSON TRANSCONDUCTANCE CELL CONNECTED AS DC CURRENT DUMPING AMP. INCLUDING RESISTANCE BOX TO BALANCE BRIDGE FOR MINIMUM HARMONIC DISTORT CORRECTED CCT FOR ARTICLE ENTITLED "RECONSTRUCT MISSING SYNC PULSES FOR VCR.", WITH COMPOSITE WIRELESS ANTI-BURGLARY SYSTEM/2-TONE AUDIO OSCILLATOR/AMP. NARROWBAND PREAMP. USING COMMON-EMITTER CONFIGURATION, FOR VHF. & MICROWAVE IF. BANDS/WIDEBAND NORMALIZER CCT TO NORMALIZE LASER COMPONENTS DIRECT COUPLED SYMMETRICAL MEDIUM-POWER (60W) AF. AMP. THAT DRIVES LOADS DOWN TO 20OHM WITH VE NMR. BRIDGE/BRIDGE LEAKAGE RF. AMP./RF. OSCILLATOR USING DBM./SUPER REGENERATIVE OSCILLATOR (SR BURGLAR-ALARM-CONTROL CCT PROVIDING ENTRY & EXIT DELAY & LATCHING ACTION/INTRUSION ALARM/NOISE STRAY-IMMUNE CAPACITANCE MEASURING INSTRUMENT BASED ON CHARGE TRANSFER PRINCIPLE, WITH PROOC SERVO-CONTROLLED MOSFET. POWER AMP. INCLUDING BIFET. OR BIPOLAR OA./DRIVER CCT WITH SOURCE FOR TURBIDITY METER USING IR. LED. AS LIGHT SOURCE, IR.-SENSITIVE PHOTOTRANSISTOR AS DETECTOR, & OA. TO VCR.-TV. AUTO-SWITCH TO TURN ON TV. WHEN VCR. IS TURNED ON, INCLUDING SIGNAL DETECTOR-TRIGGER CO WIRE DRIVER USING TRANSISTOR DRIVEN BY 10V OUTPUT OF PULSE GENERATOR/SENSOR CCT (DETECTOR SY CURRENT-SOURCE LOADED CCT USING VACUUM TUBES/CCT SHOWING CHANGES TO VACUUM TUBE PRE-PREAI DIRECT CONVERSION RECEIVER THAT WORKS ON 20M (14MHZ) AMATEUR RADIO BAND, INCLUDING MIXER, OSCI NARROW BAND, LNA. USING MICROWAVE GAASFET., WITH FREQUENCY RANGE OF 3.7-4.2GHZ, GAIN OF >10DB & VERY SIMPLE, VERY INEXPENSIVE NOISE SUPPRESSOR TO CONDITION HV. SOURCE (PS.) TO REDUCE RIPPLE & CURRENT-TO-VOLTAGE CONVERTER CONSISTING OF OA. & PRECISION HIGH M-OHM RESISTOR, IN NEGATIVE FE FARMER-BALDWIN SUB-STANDARD X-RAY DOSEMETER (DOSE INTEGRATOR) INCLUDING DC.-DC. FLYBACK SWIT PARASITIC COUPLINGS SENSITIVE WIDE-BAND HF. AMP. CURRENT SWITCH FORMED BY POWER FET. & CURRENT SENSOR, PLACED IN SERIES WITH EACH LOAD IN FAULT DIRECT-COUPLED SOLID-STATE TESLA COIL WHOSE SECONDARY APPEARS LIKE SERIES RLC. CCT WHEN DRIVE STRAIN-GAUGE DC. AMP. WITH AUTOMATIC ZERO BALANCE & COMPENSATION PATH/POLARITY-PROGRAMMABLE EARTH-LINE CURRENT-LEAKAGE DETECTOR HAVING NO PHYSICAL CONTACT WITH AC. LINES, USING HALL-EFFE FORWARD CONVERTER PS. (SMPS.) INCLUDING POWER MOSFET. SWITCH, PWM. & NONLINEAR CORE, THAT PRO VERY FAST-LOW-DRIFT POSITIVE VOLTAGE PEAK DETECTOR CCT (AMP. & 3-STAGE PEAK DETECTOR) INCLUDING SERVO 100 INPUT STAGE CONVERTED TO DC. OPERATION, USING DUAL TRANSISTORS/DC 100 DRIVER CCT OF D SURFACE DIELECTRIC PROBE (SENSOR) OF AUTOMATIC EQUIPMENT BASED ON MEASUREMENT OF REAL PART CURRENT AMP. (CURRENT-TO-VOLTAGE CONVERTER) FOR VIBRATING CAPACITIVE PROBE USED IN CONTACT PO CURRENT-CURRENT CONVERSION TYPE PREAMP. USING IC CONSISTING OF CHARGE AMP. & EMITTER FOLLOVE VERY FAST RESPONSE PEAK DETECTOR USING PLL. & ANALOGUE DIVIDER, INCLUDING LINEAR PHASE DETECTO CURRENT AMP. CONSISTING OF CURRENT-TO-VOLTAGE CONVERTER, VOLTAGE AMP. & BUFFER AMP., WITH FEE NMR. DUPLEXER USING 2 MERRIMAC QUADRATURE STRIPLINE (90DEG) (MULTI-OCTAVE) COUPLERS (HYBRIDS) (SERIAL SERVO CONTROLLER THAT ACCEPTS RS-232 SERIAL DATA & OUTPUTS PWM. SIGNALS TO CONTROL 8 SE PARASITIC SIGNALLER THAT MAKES DOORBELL CCT DO DOUBLE-DUTY AS ANNUNCIATOR & COMMUNICATIONS S EPROM. SPEED READER-COMPARATOR TO CHECK 16K TO 512K EPROM.S FOR COMPLETE ERASURE, & COMPAR CORRECTED CCT DIAGRAM FOR "SOLID STATE WIPER CONTROL" CONSTRUCTION ARTICLE (RAEL9004) FORWARD OR REVERSE MOTOR CONTROLLER REQUIRING ONLY AC. SUPPLY, WITH POLARITY OF INPUT SIGNAL PARASITIC-FREE SCF (SWITCHED-CAPACITOR FILTER) USING LEAPFROG DESIGN, USING CAPACITORS, OA.S & A PARTIAL SCHEMATIC OF FT-101 TRANSCEIVER, SHOWING MOD.S TO ALLOW TRANSMISSION ON 30M BAND PORTABLE HV. PERSONAL-PROTECTION APPLIANCE USING REGENERATIVE AMP.-OSCILLATOR COUPLED TO ENI

STRAIGHTFORWARD LV. CURRENT-LIMITED OUTPUT SUPPLY TO POWER OLD MODEL 15 TELEPRINTER
SCR. PREREGULATOR TO KEEP FILTER CAPACITOR VOLTAGE IN VARIABLE PS. A FEW VOLTS ABOVE OUTPUT
VARACTOR-DIODE CCT USED TO TUNE OLD WW 2 RADIO REMOTELY
SCR. BURGLAR ALARM/SCR. BURGLAR ALARM CCT USING CLOSED DETECTION LOOP/2-CHANNEL STEREO LIGHT
VERY LOW CUTOFF AC.-COUPLED AMP. WITH INDEPENDENTLY ADJUSTABLE GAIN & INPUT RESISTANCE, & NEGATIVE
DIRECT-DIGITAL FREQUENCY SYNTHESIS SYSTEM INCLUDING PHASE-ANGLE GENERATOR (24-BIT ADDER), SINE WAVE
CORRELATION CANCELLATION LOOP (CCL) MODULE OF CROSS-BUS CANCELLATION SYSTEM, INCLUDING WEIGHTED
L-R MATRIX PLUS DELAY, USING DELAY LINE & ANOTHER AMP. (IMPROVED MADSEN) (AUAM8403#)
VARIABLE SENSITIVITY INPUT STAGE FOR AN AUDIO MIXER
SCRATCH & RUMBLE FILTER
VERY SIMPLE GENERAL-PURPOSE VOLTAGE-CONTROLLED PHASE SHIFTER (VCPS), THAT CAN BE LINEARLY VOLTAGE
LARGE SIGNAL CCT MODEL OF HITACHI INDEX-GUIDED GAAS.-ALGAAS. SEMICONDUCTOR LASER
VARIABLE NOTCH FILTER IN WHICH SERIES TUNED CCT WITH LOW Q IS CONTINUOUSLY ADJUSTABLE BETWEEN
PART OF IMPEDANCE PLETHYSMOGRAPH, TO ACHIEVE CURRENT SOURCE ISOLATION/BUFFER TO IMPROVE INPUT
VARIABLE PS. CONSISTING OF SYMMETRICAL DESIGN BASED ON SERIES REGULATORS & ERRORS AMP.S/CCT TO
EPROM. PROGRAMMER (BBB)/RELAY & DC.-TO-DC. CONVERTER
CURRENT REGULATING CCT/PROTECTION CCT DESIGNED TO SHUT OFF HV. PS.
VARIABLE GAIN INPUT CCT/SWITCHED GAIN INPUT CCT/PAN + LEVEL CCT/LEVEL ONLY CCT/MIX + FILTER CCT
CORRECTION CCT TO REMOVE OFFSET, INCLUDING PRECISION RECTIFIER, PEAK HOLD, REFERENCE AMP., SUMMING
FORCE TRANSDUCER USING RESISTIVE STRAIN GAUGES IN WHEATSTONE BRIDGE CCT, INCLUDING VOLTAGE COMPENSATION
PORTION OF CCT CONCERNING ALPHA-MEDITATION GOGGLE STORY, WITH CORRECTION (RAEL8904)
VERY SIMPLE & RELIABLE HAND-HELD BATTERY-POWERED TESLAMETER USING HALL SENSOR CHIP AS PROBE, FOR
CAR AM. RADIO STEREO RECEIVER (TUNER) WITH NOISE BLANKING THAT VIRTUALLY ELIMINATES NATURAL & MAN-MADE
SERVO-50 (HIGH-CURRENT POWER AMP. RATED AT 50W INTO 8OHM) EB-691-125 DRIVER BOARD/EB-391-109 OR EB-391-109
VARIABLE-ATTENUATOR DESCRAMBLER/VARIABLE-GAIN DESCRABLERS (2)/CCT TO RECONSTRUCT MISSING SIGNALS
CURRENT MIRROR/LEVEL TRANSLATOR USING CURRENT MIRROR/ADJUSTABLE VOLTAGE, ADJUSTABLE-CURRENT MIRROR
SERIES-SHUNT PIN DIODE SWITCH USING UNITRODE PIN DIODES, FOR USE AS TR. RELAY FOR SWITCHING RF., VOLTAGE
EARLY FM. RECEIVER CCT INCLUDING TUNER USING SELF-OSCILLATING PENTODE MIXER, DESCRIBED BY L. HANSEN
SCRATCH FILTER/FUNCTION GENERATOR/CENTRAL IMAGE CANCELER/BATTERY MONITOR/AUDIO MILLIVOLT METER
VARIABLE (0-250V) 100MA REGULATED HV. DC. PS. THAT IS SHORT-CCT PROTECTED, & HAS OUTPUT IMPEDANCE
VARIABLE-VOLTAGE PS. USING HO POWER PACK & VOLTAGE REGULATOR IC
CURRENT SENSOR CCT USING 5MOHM, LOW INDUCTANCE, COAXIAL SHUNT TO PROVIDE VOLTAGE PROPORTION
STRAW CHAMBER FRONT END INCLUDING PREAMP.-DISCRIMINATOR/TDC. CHANNEL INCLUDING CURRENT SWITCH
PART OF TRANSPUTER LINK INTERFACE TO GENERATE HARDWARE INTERRUPTS IN HOST PC./CCT FOR ADDRESS
VCR. JUNK BOX, 12.6VDC. 1A (~12W) REGULATED PS. USING VCR. POWER TRANSFORMER, FULL-WAVE BRIDGE RECTIFIER
EARTHQUAKE DETECTOR-RECORDER TRIGGERED BY "SWAYING PENDULUM", MAKING STRETCHED-OUT PULSE
ZERO-CROSSING TRIGGERING (ZCD.) CCT CONSISTING OF QUAD VOLTAGE COMPARATOR, 3 TIMER CHIPS (WITH
VERY SIMPLE PL ("PRIVATE LISTENING") TONE GENERATOR TO WORK THROUGH PL OPERATING REPEATER BY PULSE
CURRENT TO VOLTAGE CONVERTER & INVERTER GAIN STAGE, INCLUDING SILICON PN JUNCTION OF TRANSISTOR
VARIABLE VOLTAGE REGULATOR & AUDIO AMP. THAT REPLACE BEL XKR-IX MICRO-EYE SUPERHETERODYNE RADIO
FURNACE CONTROLLER (FUEL MISER) USING OSCILLATOR-TIMER, DECADE COUNTER-DIVIDER, NOR GATES, OPTO-COUPLER
HARTLEY OSCILLATOR FUNCTIONING AS VCO./REST OF FM. TRANSDUCER FOLLOWING VCO.
CURRENT SOURCE WITH GOOD CMRR. PERFORMANCE, USING 2 O.A.S IN FOLLOWER CONFIGURATION
SWR. METER THAT MEASURES SWR. WITHOUT INTERRUPTING SSB. TRANSMISSION OR RECALIBRATING
CORRECTED CCT OF SPEAKER AMP. FOR HAND-HELD TRANSCEIVERS (QST8901)
CORRECTED CCT SHOWING DUAL 1-SHOT WITH TIMING CCTS (QEX8704)/IMPROVED CCT USING 17-STAGE OSCILLATOR
FIREFLY USING TIMER, 4 IR. PHOTOTRANSISTORS, 4 IR. LED.S (THAT SEND LIGHT TO OTHER FIREFLIES, FOR SYNCHRONIZATION)
VERY BASIC RHYTHM BOX FOR MUSICAL PRACTICE & IMPROVISATION, INCLUDING TUNING OSCILLATOR, COMPASS
BAR-GRAPH POWER METER CCT/CLIPPING INDICATOR CCT/PS.

PORTABLE DIGITAL INTEGRATOR FOR MEASUREMENT OF ELECTROMYOGRAPHIC ACTIVITY IN NATURAL ENVIRONMENT
VARIABLE SPEED MAGNETIC STIRRER USING DIGITAL CCT TO GENERATE 2 STEPPED FUNCTIONS APPROXIMATELY
PYROELECTRIC DETECTOR INTERFACE (PEAK DETECTION) CCT FOR 1 SENSOR ELEMENT, INCLUDING OA., & FET
VERSATILE, INEXPENSIVE ALARM DEVICE THAT DETECTS LIGHT CHANGES IN ITS FIELD OF VIEW
TERMINAL FOR ISDN.S S INTERFACE
SERIES-PASS REGULATOR THAT ELECTRONICALLY SWITCHES FROM FULL-WAVE BRIDGE TO FULL-WAVE CENTER
CAR-POWER ADAPTER USING 1A ADJUSTABLE-VOLTAGE REGULATOR, TO POWER DEVICES REQUIRING DC. VOL
VERSATILE 2-TONE AUDIO GENERATOR
VARIABLE-DUTY-CYCLE PULSE GENERATOR USING UJT. OSCILLATOR (SAWTOOTH GENERATOR), PEAK DETECTOR
VARIABLE-FREQUENCY, AUDIO BANDPASS FILTER USING 2 OA.S IN CASCADE/SAME, INCLUDING POWER AMP. & I
CURRENT SOURCE BASED ON VOLTAGE REFERENCE/REFERENCE CCT OPERATING ON 5V RAIL/CURRENT REFERE
VARIABLE-FREQUENCY GENERATOR SUPPLYING PROGRAMMABLE OUTPUT FREQUENCIES (BBB)/CCT FOR WIND
BAR GRAPH CCT TO DISPLAY 0V TO 5V SIGNAL, USING PARALLEL LED. ARRANGEMENT/LOW POWER 0V-5V BAR G
BURGLAR ALARM USING OSCILLATOR-TIMER/LIGHTS-ON REMINDER/AUTO ALARM WITH VARIABLE EXIT DELAY/TI
STROBE CCT USING TRIGGER TRANSFORMER, XENON FLASH LAMP, SCR., NEON LAMP & OPTOISOLATOR/PS./CO
SERVO-MOTOR CONTROL SYSTEM (SERVO MECHANISM & ACTUATING CCT) USING OA.S & POSITIONAL FEEDBACK
SCR. POWER CCT INCLUDING SUPPLY VOLTAGE SENSOR/CONTROL CCT (3)/CCT TO GENERATE VCONT SIGNAL
MORSE READOUT (DISPLAY) FOR DIGITAL DIAL, FOR VISUALLY HANDICAPPED (SIGHTLESS) RADIO AMATEURS
VERY SENSITIVE LF. OR HF. FIELD-STRENGTH METER
ERROR-PROOF LAMP DRIVER USING 3-TERMINAL VOLTAGE REGULATOR CONFIGURED AS CURRENT SINK
SURFACE-REFLECTIVITY METER THAT DETERMINES SUITABILITY OF SURFACE AS BAR-CODE MEDIUM AT 700NM
CAR CLOCK PS. (12V TO 5V DC.-DC. CONVERTER)
CAR BATTERY-DRAIN INDICATOR (VISUAL-AUDIBLE MONITORING SYSTEM) USING DISPLAY DRIVER & QUAD OA. IC
CURRENT SOURCE HAVING OUTPUT WITH RESISTOR-PROGRAMMABLE TC. IN RANGE OF -1.1 TO +0.3% PER DEG
VARIABLE-VOLTAGE CURRENT-LIMITED BENCH TOP PS. PROVIDING VOLTAGE BETWEEN 3 & 30V AT UP TO 1A, US
BARGRAPH VOLTMETER TO KEEP TABS ON CAR'S CHARGING SYSTEM, & WARN ABOUT IMPENDING BATTERY FA
CORDLESS TELEPHONE LINK (INTERFACE) USING TIMER CHIP FOR VOX CONTROL, & OA. AS DUPLEXER TO RECE
POR'S WITH SWITCHING HYSTERESIS (2)/POWER-ON RESET CCT (POR) THAT ELIMINATES UNDEFINED RESET PU
CURRENT LIMITER USING DUAL COMPARATOR & PASS TRANSISTOR, THAT DISSIPATES LITTLE POWER IN NORMA
SERIAL-TO-PARALLEL CONVERTER TO ALLOW IBM PC.'S SERIAL PORT TO CONTROL LOW-SPEED PROCESSES RE
DIRECT CONVERSION (DC) RECEIVER INCLUDING RF. AMP., PRODUCT DETECTOR, LO. BUFFER, AF. AMP.S & 450H
VARIABLE PHASE SHIFTER FOR OPERATION AT 10.7MHZ USED AS 2ND IF. IN TRANSPONDER, USING QUADRATUR
VARIABLE VOLTAGE REGULATOR (VVR) THAT PERMITS ADJUSTMENT OF FIXED DC. PS. BETWEEN 1.2 & 37V DC. A
BURST GENERATOR IN WHICH 1ST TIMER GENERATES SHORT PULSES THAT GATE 2ND HF. OSCILLATOR ON & O
PERSONAL CASSETTE AMP. USING POWER AMP. IC THAT DELIVERS ~2W INTO 8OHM SPEAKER, TO ADD SPEAKER
CURVATURE-CORRECTED PLATINUM THERMOMETER USING IA. WITH EXTRA OA.S THAT GIVE KELVIN SENSING IN
PARALLEL-TO-RS232-C CONVERTER TO CONVERT PARALLEL 8-BIT DATA AT INPUTS OF UART. TO SERIAL DATA F
CORRECTED CCT SHOWING HOW PHOTODIODE & RESISTOR SHOULD BE CONNECTED (CICE9210)
DIRECT-CONVERSION RECEIVER (DCR) CCT USING PASSIVE DBM. TO WHICH RF. & LO. SIGNALS ARE APPLIED/SI
PERIODIC POWER-UP CCT USING TIMER TO PERIODICALLY POWER UP UP. WHICH CHECKS SYSTEMS'S STATUS,
HARDWARE FOR ACOUSTIC TRANSPONDER TO MEASURE DISTANCES UNDER WATER, INCLUDING HARDWARE FO
HARDWARE-REFRESHED 256KBYTE DRAM. BOARD FOR 68000 UP. BASED SYSTEM, INCLUDING CONTROLLER, INT
VARIABLE-OUTPUT (ADJUSTABLE) PS. USING 3-TERMINAL ADJUSTABLE POWER REGULATOR & VOLTAGE-DIVIDE
CHRONOTRON (COSMIC RAY TRIGGER) CCT CONSISTING OF 2 FAST ECL. COMPARATORS, 2 DIFFERENTIATION C
SERVO SYSTEM THAT ALLOWS CONTINUOUS SPEED ADJUSTMENT OF ELECTRICALLY GOVERNED MOTOR, INCLU
VARIABLE REGULATED PS. WITH 1.2V-28V DC. OUTPUT, CONSISTING OF UNREGULATED SUPPLY, ADJUSTABLE R
PARALLEL INTERFACE (BBB)/SERIAL INTERFACE/CCT USING UP. IN DUAL-SLOPE CONVERTER LOOP (BBB)
BARGRAPH "DARK METER" (LIGHT METER) USING SMC'S (SURFACE-MOUNT COMPONENTS), USING QUAD COMPA
HARMONIC GENERATOR (FREQUENCY MULTIPLIER) CONSISTING OF 2 COMPARATORS & SUMMING AMP., TO EXT

EPROM. EMULATOR (PORTABLE RAM.-FAKER)

VERY SIMPLE CCT TO INTERFACE COMPUTER WITH TRANSMITTER, TO KEY SOLID-STATE TRANSMITTER OR RELAY
VARIABLE CLASS POWER AMP. IN WHICH BIAS CURRENT IS DERIVED FROM VOLTAGE DROP ACROSS PURE RESISTOR

SERIES-PASS ZENER-BASED REGULATOR/OA.-BASED REGULATOR/3-TERMINAL REGULATOR CCTS (14)

SERVO AMP. THAT DRIVES VOICE COIL, USING 2 OPTO-INTERRUPTERS & QUAD OA.S, INCLUDING BUFFERS, DIFFERENTIAL
SCR. CONTROLLER, PULSE FORMATION & FIRING CCTS, INCLUDING QUAD OA. & UJT./CYCLE-COUNTING BISTABLE

SCRATCH FILTER/RUMBLE FILTER/ACTIVE TONE-CONTROL CCT/NAB TAPE PLAYBACK AMP./RIAA PHONO PRE-AMPLIFIER

MARX GENERATOR/DIODE SHARPENER

WORKING TRANSISTOR CCT

MARGINAL OSCILLATOR WITH BARELY ENOUGH POSITIVE FEEDBACK SO THAT SMALL ABSORPTION OF ENERGY

SCREEN CONTROLLER THAT CONVERTS BINARY X & Y DATA FROM MAT-385 UP. DEVELOPMENT KIT INTO DEFLECTOR

WIRING DIAGRAM FOR CHASSIS-MOUNTED COMPONENTS OF PICTURE PHONE/PS. FOR EWP130A TELEPHONE C

HARTLEY OSCILLATOR/SIMPLE POSITION TRANSDUCER BASED ON VARIATION OF 112KHZ HARTLEY OSCILLATOR

CAR DC. ADAPTER WITH OUTPUT OF 9V, 7.5V OR 6V, USING TRANSISTOR & ZENER DIODE, FOR USE WITH PORTABLE

CORRECTED SCHEMATIC FOR MICRO ATV. TRANSMITTER, SHOWING NEW LOCATION OF RESISTOR IN VIDEO CL

PARTIAL CCT OF CB. BOARD/CCT OF AREA INVOLVED FOR HIGHER DRIVE LEVEL MOD./PLL. LOCK INDICATOR

CURRENT PULSER TO GENERATE PULSED MAGNETIC FIELD GRADIENTS, INCLUDING GRADIENT TRIMMING CCT T

CORRECTED CCT DIAGRAM OF FET. AMP. FOR 60KHZ FERRITE ROD ANTENNA

CURRENT-REGULATED PS. TO PROVIDE 50US 50A PULSE THROUGH 0.4OHM LOAD, INCLUDING FEEDBACK CCT, D

CURRENT LIMITED EMERGENCY ION VACUUM PUMP SUPPLY (HV. DC. GENERATOR) TO SUPPLY ~100UA AT 3.0KV

WIRE CHAMBER ELECTRONICS CONSISTING OF AMP. WITH ADJUSTABLE THRESHOLD FOLLOWED BY 1 SHOT SHA

CURRENT SOURCE USING IA., TO DRIVE GROUNDED LOAD & DERIVE REFERENCE FROM GROUNDED SOURCE/DU

VERY SIMPLE & INEXPENSIVE MICROPHONE EQUALIZER

CARRIER GENERATOR/BALANCED MODULATOR, IF. FILTER & POST-FILTER IF. AMPLIFIER/SPEECH AMP.

SCRATCH FILTER'S PS. & DETECTOR REFERENCE

CURRENT MIRROR CCT PROVIDING EXAMPLE OF SIGNAL-INDUCED DISSIPATION/PUSH-PULL (COMPLEMENTARY)

CAR RADIO CONVERTER TO LISTEN TO SW. BC. STATIONS, CONVERTING SW. BANDS TO AM. BC. FREQUENCIES,

MARX PULSE GENERATORS (2)/MARX GENERATOR USING OPTOCOUPLED/CCT FOR PULSE STRETCHING

SSR. THAT OFFERS ZERO-VOLTAGE TURN-ON FOR POWER CONTROL SYSTEMS WHERE IT IS NECESSARY TO SW

VARIABLE VOLTAGE-CONTROL CCT (PS.)/ULTRA SIMPLE BC.-BAND SUPER-REGENERATIVE RECEIVERS (2)

HARDWARE MOD.S FOR XL-100

VERY SIMPLE CAPACITANCE MULTIPLIER TO HELP FILTER DC. PS. RIPPLE, IN PARALLEL WITH FILTER CAPACITOR

LARGE, ESSENTIALLY NOISELESS, DC. VOLTAGE SOURCE TO APPLY TO CAPACITIVE SAMPLE FOR ELECTRICAL T

UNREGULATED HV. E-GUN PS. CAPABLE OF SUPPLYING 50MA, WITH OVERLOAD PROTECTION, TO OPERATE ELE

PORTABLE 12V DC. PS. THAT CAN OPERATE INDEPENDENT OF, OR IN CONJUNCTION WITH 117V AC. WALL PLUG,

CORRECTED CCT FOR TELEPHONE LINE TESTER (RAEL8604)

CORRECTION TO PART 3 OF N6GN'S ARTICLE (HARA8810)

CURRENT AMP. TO AMPLIFY PULSES OBTAINED THROUGH BALANCE TO UNBALANCE TRANSFORMER COUPLED T

PARTIAL SCHEMATIC OF LINEAR, SELF-CALIBRATING OHMMETER SHOWING MOD.S (QST8309)

CAR RADIO LATCH

CARRIER-OPERATED RELAY CCT FOR INTERFACING DRAKE TR-22C & HEATH HA-201 AMP.

PARTIAL SCHEMATIC OF SONY ICF-7600 RECEIVER/SIMPLE BFO.S (2)/MFJ-40T QRP TRANSMITTER/MFJ-40V

WIRELESS IDLE TACHOMETER THAT ELIMINATES RISK OF DAMAGE TO ELECTRONIC AUTOMOBILE IGNITION SYS

HARMONIC GENERATOR THAT WILL PRODUCE HARMONICS UP TO 150MHZ FROM 1000HZ INPUT SIGNAL

SWR. SENSOR

MARKER PROCESSOR FOR SWEEP MEASUREMENTS, PRODUCING RECTANGULAR MARKS (BURSTS OF PULSES)

VARIABLE-SHIFT TU./CABINET WIRING

EARTH FAULT MONITORING CCT USING PAIR OF OPTOELECTRONIC RELAYS IN SERIES IN POWER LINE WITH LED

NMR. PROBE FOR USE AT LF.S WITH DAMPING CCT/ACTIVE DAMPING CCT USING QUARTER WAVE NETWORK & D

VARIABLE-GAIN AMP. USING MATCHED DUAL-FET., WITH COMPENSATION FOR SIGNAL DISTORTION CAUSED BY H
 CURRENT-TO-VOLTAGE (TRANSRESISTANCE) AMP. WHOSE INPUT CAN BE FLOATED UP TO +2000V, FOR MEASUR
 EARTH TUNER TO PROVIDE GOOD RETURN TO EARTH & REDUCE INTERFERENCE, CONSISTING OF RF. CURRENT
 VARIABLE CRYSTAL OSCILLATOR (VXO) INCLUDING COIL (INDUCTOR) IN SERIES WITH CRYSTAL TO GIVE CRYSTA
 2-RANGE INDUCTANCE CHECKER/3RD-OVERTONE OSCILLATOR FOR CHECKING 0.1 TO 1.0UH/LOW-RANGE OSCIL
 PARTIAL RECEIVER CCT SHOWING HOW TERMINATIONS ARE CHANGED TO ACHIEVE PROPER FILTER SHAPES, IN
 FOR STRAIN GAGES, USING QUARTER-BRIDGE COMPLETION UNIT & IA./OSCILLOSCOPE TRIGGER & LINE DRIVER
 PARTIAL CCT OF RADIO SHACK WEATHER RADIO (RECEIVER), SHOWING JUMPER MOD. REQUIRED FOR 2M (144M
 FIRING CCT FOR FAST-CLOSING, ALL METAL, UHV-COMPATIBLE VALVE, USING SCR., 16800UF CAPACITOR BANK &
 CURRENT-TO-VOLTAGE CONVERTER & CATHODE HEATING CCT, INCLUDING IA., & LOW-HIGH PASS FILTER OPTIC
 VARIABLE MOTOR SPEED CONTROL THAT TURNS SINGLE SPEED ELECTRIC DRILL INTO VARIABLE SPEED DRILL,
 SERIAL PORT PROTECTOR CCT USING ZENER DIODES & GAS DISCHARGE TUBE, TO PROTECT REMOTE TERMINA
 WARNING CCT THAT DETERMINES CHARGE STATUS OF AUTO'S BATTERY & WARNS OF POTENTIAL FAILURE
 PORTABLE PS. USING 7.2V NICD. BATTERY PACK, TO SUPPLY SINUSOIDAL OSCILLATOR & AMP.(S), FOR USE WITH
 CURRENT SOURCE USING TRANSISTOR, MOD. FOR 20MA CURRENT LOOP OPERATION BY INCREASING EMITTER
 'ARCADE' GAME THAT YOU CAN CARRY IN YOUR POCKET & REQUIRES NO SPECIAL DISPLAYS AS CUES ARE SOU
 VERY SIMPLE DOUBLE ALARM TO PRODUCE SIREN-TYPE SOUND OR BEEPING TONE/CCT TO PRODUCE SOUNDS
 DIRECT-READING TRANSISTOR HIFE TESTER USING CMOS. OR BIFET. OA. OPEN LOOP, & LED.S, WITH RANGES O
 VERY SIMPLE AMP./RELATIVELY SIMPLE AUDIO SINEWAVE OSCILLATOR CCT
 BURGLAR OUTWITTER (CONTROLLER CCT) THAT CONTROLS LIVING ROOM, HALLWAY & BATHROOM LIGHTS
 DIRECTIONAL SWR. METER THAT IS FREQUENCY SENSITIVE/BRUENE RF. BRIDGE FOR VHF. (VHF. SWR.-POWER M
 VARIATION OF FAX-MODEM PROTECTOR FOR TELEPHONE LINE CONNECTIONS BETWEEN PC. & LARGER DISTAN
 TURN-OFF DELAY CCTS REQUIRING POWER TRANSFORMER & NONE (2)/TV.-STEREO CONTROLLER TO TURN 2 AC
 SSR. CCT USING TRIAC-OUTPUT OPTOISOLATOR & TRIAC/CCT FOR USE BETWEEN SSR. & DRIVE CCT, USING TRA
 SCRAMBLER-DESCRAMBLER IC & PERIPHERAL COMPONENTS (BBB)/TVS250 TELEPHONE-VOICE SCRAMBLER TO
 UART. CCT TO CONVERT SERIAL DATA FOR USE BY PARALLEL DEVICES WITH CENTRONICS PORT, INCLUDING DA
 ERROR TRANSMITTER/ERROR RECEIVER/FIBER-OPTIC FEEDBACK TRANSMITTER & RECEIVER (2)/LASER DIODE D
 NARROW-BAND 25W VHF. POWER AMP. FOR 2M OR 220MHZ, CAPABLE OF 25 TO 30W OF RF. OUTPUT/KEYING INV
 CURRENT TO VOLTAGE (I-V) CONVERTER CARD INCLUDING BIFET. INPUT AMP., VERY LOW OFFSET AMP., WITH G
 CURRENT-TO-VOLTAGE CONVERTER USING OA. WITH LOW INPUT BIAS CURRENT/ROOM TEMPERATURE TEST CO
 PERIODIC DIFFERENTIAL DETECTOR (PDD) (OPTICAL) VELOCIMETER CONSISTING OF DETECTOR HOUSING & SIG
 "FRONT-END" CCT USED IN ROCKWELL-COLLINS KWM-380 TRANSCEIVER
 NERVE STIMULATOR CCT, INCLUDING HV. SUPPLY & PULSE-GENERATION & PULSE-SHAPING SECTIONS/SIGNAL P
 CORRECTION TO CCT FOUND IN ARTICLE ENTITLED "PROFESSIONAL QUALITY DTMF. DECODER AND SELCALL SY
 CURRENT-LIMITING CCT THAT USES POWER FET. TO LIMIT LOAD CURRENT, & BIPOLAR TRANSISTORS TO SIMUL
 VERY ACCURATE REAL-TIME ANGLE MONITORING SYSTEM ELECTRONICS
 CURRENT-SENSITIVE PREAMP. OF READOUT ELECTRONICS/MAIN AMP. INCLUDING DISCRIMINATOR, PULSE WIDT
 WIRE POSITION DETECTOR USING PHOTODETECTOR (PD), LOW-DRIFT LOW-NOISE FET. OA.S & ANALOG DIVIDER
 PORTABLE TOUCH-TONE, TELEPHONE DIALER TO PROVIDE EASY & INEXPENSIVE ACCESS TO SERVICE REQUIR
 PURE RESISTOR CHAIN TYPE PMT. BASE WITH CHAIN CURRENT OF ~1.52MA AT -2000V/ZENER DIODE TYPE PMT.
 HARMLESS INSECT-LIKE GADGET
 CURRENT-TO-VOLTAGE PREAMP. USED BY SFOV (SMALL-FIELD-OF-VIEW) DETECTOR, USING BURR-BROWN LOW
 VERY COMPACT MOBILE TRANSCEIVER THAT COVERS 430 TO 440MHZ (BBB)
 CURRENT (BIPOlar REFERENCE) SOURCE WITH CONTINUOUS CONTROL OF MAGNITUDE & POLARITY OF ITS AM
 CURRENT-FEEDBACK AMP. USING OA., WITH BOOSTED BW. RESULTING FROM ADDITIONAL CAPACITOR ACROSS
 CURRENT-TO-VOLTAGE CONVERTER USING OA., TO AMPLIFY CHANGES IN CONDUCTIVE-INK RESISTANCES CRE
 APRIL FOOL CCT USING PHOTOTRANSISTOR
 VERY LOW-NOISE FET. CASCODE INPUT PREAMP. USING TOSHIBA N CHANNEL JFET., WITH VOLTAGE NOISE OF <
 BORBELY DC 100A AMP./REGULATED PS. FOR AMP., USING P-CHANNEL & N-CHANNEL FET.S, & EMPLOYING SERI

CURRENT PREAMP. (LOW NOISE CURRENT AMP. USING OA. WITH JFET. INPUT) TO AMPLIFY LOW-LEVEL PHOTOC
CURRENT-TO-VOLTAGE CONVERTER/PHOTODIODE AMP./CCTS USING MATCHED DIODES TO REDUCE OFFSET &
CURRENT PUMP CCT (VOLTAGE-CONTROLLED CURRENT SOURCE) USING OA., WHOSE CURRENT-SENSE RESIST
INRUSH-CURRENT LIMITER TO PROTECT SENSITIVE ELECTRONICS, INCLUDING PS., TIMER CCT, RELAY & NTC. TH
OVRO (OWENS VALLEY RADIO OBSERVATORY) DIGITIZER USING FAST PLESSEY SAMPLING COMPARATOR CCT &
CURRENT-TO-VOLTAGE CONVERTER BASED ON BURR BROWN LOW-NOISE OA., USED AS PREAMP. TO CONVERT
CURRENT DRIVER (CONSTANT CURRENT SUPPLY) THAT SUPPLIES 0-150MA, STABLE TO +-1UA/TEMPERATURE C
VERY LOW-LEAKAGE AUTO-POWER-OFF CCT FOR BATTERY-POWERED UP., USING 3-TERMINAL MICROPOWER R
CURRENT-SENSING CYCLER TO DECREASE REAGANT-CONSUMPTION RATE OF CONTINUOUS-FLOW ANALYZERS
NIR. DRIVER CCT FOR 30MW SHARP LASER DIODE EXCITATION SOURCE, THAT MAINTAINS CONSTANT OUTPUT P
CURRENT-DRIVEN SYNCHRONOUS REGULATED CLASS D RECTIFIER USING CONTROLLABLE SWITCH CONSISTIN
NARROW-BANDED STABLE ANTENNA-MOUNTED PREAMP.
CURRENT AMP.S OF SPEED CONTROL SYSTEM FOR BATTERY-ELECTRIC PASSENGER HAULING LOCOMOTIVES, U
CIRCULAR-SWEEP CONVERTER FOR FASCINATING OSCILLOSCOPE DISPLAYS/WAVEFORM GENERATOR/DUAL PS
NORMALLY ON GAIN SWITCH FOR PMT.S WITH SWITCHING TIMES OF <50NS
BAR GRAPH DISPLAY DRIVER
TERMINAL BASED ON CRT9028 CRT. CONTROLLER & 8051 MICROCOMPUTER, CONSISTING OF ONLY 7 IC'S
CURRENT-MODE CONVERTER (SWITCHING PS.) USING UNITRODE CONTROLLER IC CONTAINING ERROR AMP., CO
TERMINATING NETWORK FOR QUARTZ CRYSTAL OSCILLATOR WHOSE FUNDAMENTAL RESONANCE IS AT 842.913
CORRECTED CCT OF POWER BLOCK TO PROTECT EQUIPMENT, USING MOV.S (PE9202)
VARIABLE-FREQUENCY OSCILLATOR (VFO.) DESIGNED TO MATE WITH TUNA-TIN 2 TRANSMITTER
PART OF IBM SERIAL-PARALLEL IO. INTERFACE BOARD THAT PROVIDES 8 BITS OF PARALLEL DATA COMMUNICA
VERY WIDE BW. SHORT DIPOLE ANTENNA USING FET.S (FET. AMP.) WITH BW. EXCEEDING 200HZ-1000MHZ, FOR B
"FRONT END" (RF. UNIT)/100W POWER AMP./SWITCHING-TYPE PS.
PART OF REFERENCE OSCILLATOR FOR SYNTHESIZER IN COBRA 146GTL CB. RADIO, USING VARACTOR DIODE/M
SCR. (THYRISTOR) SWITCH FOR MODULATOR, TO DISCHARGE PULSE-FORMING NETWORK (PFN) CHARGED AT 40
WIRING FOR HANDSCANNER THAT TAKES DIGITAL TV. PICTURES OF HAND, & IDENTIFIES PERSON IN FEW SECON
PORTION OF CONDITIONING CCT TO FILTER & ADJUST AMPLITUDE/LATCHING CCT TO HOLD ADC. OUTPUT UNTIL
HARDWARE INTERFACE TO CD. PLAYER, USING DSP. CHIP TO YIELD 10-CHANNEL ALL-DIGITAL GRAPHIC-EQUALIZ
DIRECTION-SENSING CCT THAT SWITCHES REPEATER IN DIRECTION THAT DATA IS BEING TRANSMITTED, TO EX
HARTLEY-TYPE OSCILLATOR CCT WITH BUFFER STAGE/FREQUENCY COUNTER CCT USING IC FREQUENCY COUN
PERSONAL MESSAGE (SOLID-STATE) RECORDER USING SINGLE-CHIP CMOS. VOICE MESSAGING SYSTEM TO SA
DIRECT DIGITAL SYNTHESIZER FOR PC. PARALLEL PORT, FOR USE AS BUILDING BLOCK TO ADD DIGITAL TUNING
STROBOSCOPIC PULSE GENERATOR USING DUAL MONOSTABLE MULTIVIBRATOR, USABLE WITH ELECTRO-OPTI
VERY SIMPLE ALARM DEVICE FOR USE IN WIDE RANGE OF CHEMICAL REACTIONS, USING CDS PHOTOCONDUCT
PART OF BURGLAR ALARM CCT USING PRESSURE SENSOR CONSISTING OF CONDUCTIVE FOAM USED TO PROTI
CURRENT PULSE GENERATOR USING POWER FET.S FOR SWITCHES, FOR PULSES OF BOTH POLARITIES/GATE D
VARIABLE-FREQUENCY FILTER IN WHICH THUMBWHEEL SWITCH DETERMINES RESPONSE
PARTIAL SCHEMATIC OF "FRONT END" OF IC-751 HF. TRANSCEIVER
HORIZONTAL DEFLECTION CCT/HORIZONTAL OSCILLATOR & DRIVER
VARIABLE GAIN 160M PREAMP. WITH TUNED INPUT & OUTPUT & GAIN OF 27DB TYPICAL, USING 2 HIGH Q TUNED
CORDLESS DC. TEST LIGHT CONSISTING OF N-CHANNEL T-MOSFET., LAMP, 2 "AAA" CELL BATTERIES & 2 RESIST
VARIABLE POWER CONTROLLER OF VARIABLE INTENSITY VIEWING BOX FOR MAMMOGRAPHY, USING SCR. POW
HORIZONTAL DEFLECTION CCT USING NIC., IN NHK 12PS-71 STUDIO PLUMBICON COLOR TV. CAMERA
PART OF DEMONSTRATION USING RADIO, LED., 2 AA BATTERIES, SILICON SOLAR CELL & AMP.-SPEAKER, TO DEM
FERROUS LOCATOR (STUD FINDER)
PARTIAL CCT OF RADIO EQUIPPED WITH AUTOMATIC VOLUME CONTROL (AVC) THAT ADJUSTS GAIN OF RADIO TO
PARTIAL SCHEMATIC OF COUNTER UNIT SHOWING ADDITIONAL COMPONENTS
NARROWBAND 10KHZ ACTIVE FILTER NETWORK FOR USE IN LOW-POWER LIGHTNING FLASH COUNTERS (LFC'S)

CORRECT VERSION OF CCT FOR ELECTRONIC THERMOMETER WITH 10MV PER DEGREE F OUTPUT, USING TYPE VARIABLE-GAIN (12 TO 50DB), TRANSFORMER-COUPLED MICROPHONE PREAMP. USING LOW-INPUT-NOISE AUDIO PARTIAL SCHEMATIC SHOWING CORRECTIONS TO CCT IN ARTICLE "HV. AMP. DRIVES TRANSDUCERS", INCLUDING STRAIN-GAUGE-BRIDGE CONDITIONER/THERMOMETER/NICD.-BATTERY CHARGER/DEAD-BAND CCT TO DRIVE SE CURRENT CHARGED TRANSMISSION LINE (CCTL) USING N-CHANNEL ENHANCEMENT-MODE MOSFET. AS OPENING CAR DIRECTION INDICATOR WARNING CCT TO MAKE SURE YOU CANCEL EVERY TIME, WITH DASHBOARD LIGHT MARCONI AD2 AIRCRAFT (AIRBORNE) RADIOTELEPHONE-RECEIVER USING SMALL TRANSMITTING VALVES AS PO CURRENT SWITCH/FILTER AMP./PREAMP./AF. SPIN ECHO PULSE GENERATOR PART OF ORIGINAL THERMOMETER CCT THAT CONVERTS TEMPERATURE TO FREQUENCY, WITH ANALOG MUX. / VERY STABLE 21MHZ CRYOGENIC TUNNEL DIODE OSCILLATOR NOT LOCKED TO A CRYSTAL IN NMR. SPECTROM HARTLEY CCT (REPLICA OF 1927 FIXED-FREQUENCY 14MHZ SINGLE-TUBE TRANSMITTER) WIRELESS VIDEO CAMERA LINK/TV. TRANSMITTER/RF.-PROBE FOR USE WITH VOM OR DVM. NARROW-RANGE SWEEP GENERATOR, USING LF. 10.05MHZ CRYSTAL OSCILLATOR & BALANCED MODULATOR VARACTOR-TUNED PHASE SHIFTER CCT DRIVEN BY PLL. PHASE DETECTOR OUTPUT/VARACTOR-TUNED LC. RES NARROWBAND CASCADED AMP./BROADBAND AMP. PORTABLE DIGITAL THERMOMETER USING THERMOCOUPLE, DVM. CHIP, LCD. & SINGLE-CHIP THERMOMETER AM SCRAMBLER THAT SPLITS VOICE SPECTRUM INTO HIGH & LOW BANDS & INVERTS THEM ABOUT THEIR CENTRES SERVO CCT TO CONTROL DC. OFFSET IN SONY CDP-520ES, THAT WILL NULL OFFSET VOLTAGES UP TO 300MV, V EARLY VERSION OF GRID DIP METER COVERING FREQUENCY RANGE OF 200 TO 550M (OSCILLATOR DESCRIBED SERIAL-TO-PARALLEL CONVERTER (INTERFACE) CURRENT LIMITING CCT USING DIODE, TO PROVIDE PROTECTION OF STRIP FROM DAMAGE BY MICRO-DISCHARGE SERIAL-PORT EPROM. PROGRAMMER/DATA-RATE GENERATOR/PS./25V-21V PROGRAMMABLE VPP SUPPLY FOR PERIODIC ERROR CORRECTION (PEC) CCT INCLUDING UART., ADC., CRYSTAL OSCILLATOR, VCO. & MUX. (3)/CON SERIAL TO PARALLEL CONVERTER (INTERFACE) TO ALLOW SERIAL OUTPUT OF COMPUTER TO COMMUNICATE V PARALLEL-TO-SERIAL ADAPTER TO USE PARALLEL (CENTRONICS) PORT FOR SERIAL DEVICES, USING UART. TO SERIAL INTERFACE BETWEEN REMOTE PDP 11-45 COMPUTER & BIOMATION 8100 TRANSIENT (WAVEFORM) RECO DISPLAY DRIVERS (BBB)/CMOS. MEMORY INTERFACE/POWER-ON RESET & POWER-FAIL DETECTION CCTS EASY-TO-USE INSTRUMENT FOR MEASURING FREQUENCY RESPONSE OF AUDIO EQUIPMENT VISUAL LED. GUITAR-MUSICAL INSTRUMENT TUNER TO COVER WIDE RANGE OF CRYSTAL CONTROLLED REFERE CUSTOM DECODER FOR BIT BLOCK TRANSFER, THAT DECODES INPUT COUNTER & ACTIVATES 1 OF 8 OUTPUT S FAST-SLOW COINCIDENCE CCT USING ECL., WITH TTL. & FAST NIM INPUTS, & BUS DRIVER WITH FAST NIM OUTPUT SYSTEM TO PROCESS INSTRUCTIONS BETWEEN EEPROM. STORE COMMANDS/SYSTEM WITH NOVRA.M.S/(BBB) PASSIVE MERCURY LAMP CONTROL (REGULATING) CCT/ACTIVE LAMP CONTROL CCT USING NEGATIVE FEEDBACK SYSTEM CONTAINING CP-M-86 OS., USING INTEL'S 80150 WITH 8086-88 UP. (BBB) INSTRUCTION SET DECODING & STARTUP-RESTART LOGIC FOR 100MHZ PULSE PROGRAMMER (PROGRAMMABLE 2-STAGE PREAMP. WITH VOLTAGE GAIN OF 800/SIGNAL PROCESSING CCT WHOSE OUTPUT TO DVM. IS PROPORT 2-STAGE DIGITALLY CONTROLLED AMP. WITH ACCURATE LOGARITHMIC GAIN STEPS & DYNAMIC RANGE OF 63DB MASTER CONTROLLER/IR. TRANSMITTER/IR. RECEIVER/TTL. TO RS232 TRANSMITTER & RS232 TO TTL. RECEIVER LASER-TUBE PS. CONSISTING OF CMOS.-BASED OSCILLATOR THAT PULSES HV. STEP-UP AUTO-TRANSFORMER FASTBUS SLAVE INTERFACE USING 2 SEMI-CUSTOM IC'S, REQUIRING MINIMAL KNOWLEDGE OF FASTBUS PROTO 1-SHOT THAT CAN PRODUCE UNDESIRABLE RESULTS IF IT IS RETRIGGERED DURING TIMING CYCLE, USING 2 2-IF SYSTEM HARDWARE INCLUDING SINGLE-CHIP COMPUTER, PROGRAM MEMORY (EPROM.), ADC., IO. EXTENDED I TESTER TO PERFORM CHECK OF OA. BY INDICATING NORMAL, OPEN, OR SHORT-CIRCUITED TEST EXAMPLE - CPU. SECTION SYSTEM BOARD OF IBM PC., INCLUDING PROCESSOR, ROM. & READ-WRITE MEMORY (RAM.) SUBSYSTEMS, &INT FAST BUFFER MEMORY & DMA. CONTROLLER FOR ETHERNET/SERIAL BACKPLANE/MANCHESTER CODE CONVER BASIC MEMORY-MANAGEMENT (BANK-SWITCHING) CCT USING CMOS. DATA SELECTOR & 4-BIT LATCH, FOR MEM FAST PULSE DISCRIMINATOR TO ELIMINATE SPURIOUS & WIDE SIGNAL SPIKES, & LOW NOISE LEVELS (THERMAL SYSTEM CONTROLLER UNIT CONSISTING OF INTEL UP., CMOS. RAM., USART., EPROM.S & IO., ADDRESS DECODE

AFSK. & INTERFACE SECTION OF MORSE-RTTY. DETECTOR, THAT PLUGS INTO IBM PC.-COMPATIBLE SERIAL PORT
HCS (HOME CONTROL SYSTEM) II EXPANSION MODULE CONSISTING OF COMM-LINK BASED ON 8031 CONTROLLED
BUS BUFFER CCTS (BBB)/CCT USING CARD ADDRESS DECODERS, TO DETERMINE IO. ADDRESSES OF DEVICES &
FAST-STARTING GATED OSCILLATOR THAT ALWAYS PASSES AN INTEGRAL NUMBER OF PULSES
TESTER THAT DETERMINES WHETHER 2716 EPROM. IS PROGRAMMED OR ERASED & DISPLAYS DATA & LOCATION
SYSTEM 29, BUILT FOR MICROPROGRAMMABLE BIT-SLICE COMPONENTS, RUNNING UNDER MOS. UP. (BBB)
LASER POSITION SENSOR CCT (DEFLECTION MEASUREMENT SYSTEM) WITH 20NS RISE TIME & 1.25MV-UM SENSITIVE
TESTER USING SINGLE-CHIP UC TO DISPLAY PRESENT & LAST NIBBLE OF DATA THAT USER SELECTS, TO TEST M
MCS-4 MICROCOMPUTER SYSTEM INCLUDING CPU. (MICROPROGRAMMABLE COMPUTER), CONTROL MEMORY, D
CASSETTE RECORDER CONTROLLER CCT TO ALLOW ONE TO RECORD SOUND EFFECTS & CONTROL PULSES ON
DISTRIBUTED, ANALOGUE-DIGITAL DATA ACQUISITION CONTROLLER WITH 16 CHANNELS OF ANALOGUE & 16 CH
DAS. HARDWARE INCLUDING ADC., DAC., INTERFACE CCT TO IEEE 488 GPIB. ON HP9000, IO. PORTS & CPU. (UP.)
BASIC BUZZER CCT/GATED 2KHZ BUZZER CCT/WARBLE-TONE ALARM THAT SOUNDS LIKE POLICE CAR SIREN
BASIC TIMING CCT USING SCHMITT TRIGGERS
BASIC MULTIMETER (DMM.) CCTS USING 3.5-DIGIT ADC. (2)/THERMOMETER/SCALING CCT/AC. CONVERTER/OHMS
INSTRUMENT CAPABLE OF MEASURING CAPACITORS IN RANGE 1UF TO 100000UF
Q-SPOILER USING LARGE (~15MOHM) RESISTOR TO PROVIDE CALIBRATION LOADING OF MARGINAL OSCILLATOR
SYSTEM ELECTRONICS USING PHOTOELECTRIC LEVEL SENSING MODULE & INTERFACE MODULE FOR RADIO SH
DISCRIMINATOR THAT RECOVERS TIMING INFORMATION IN SLOW-RISING INPUT PULSE, PRODUCING "TIMING ED
DISPLACEMENT DETECTOR CCT FOR PULSE DETECTION, USING OPTO COUPLER (LIGHT DETECTOR), SCHMIDT T
EASY-TO-USE CAPACITANCE METER TO CHECK (TEST) CAPACITOR VALUES FROM 100PF TO 1000UF, USING OSC
BASIC DMM. USING 3.5-DIGIT LCD. ADC./CCT TO INCREASE RANGE BY FACTOR OF 10/PC.-BASED VOLTAGE, RESIS
2-STAGE MARX GENERATOR USING THYRATRON-SPARK GAP SWITCH IN TRIGGER STAGE, TO PULSE HIGH-PRES
RESISTANCE (R) MULTIPLIER THAT SWITCHES DISCHARGE CURRENT ON & OFF IN CR CCT, TO GET LONG RC. TIM
2-STAGE DETECTOR-DRIVEN CCT FOR HIGH-POWER LIMITING AT X-BAND, USING SCHOTTKY & LIMITER DIODES
EASY-TO-BUILD CCT TO PROVIDE POWER-LINE PROTECTION FOR PC., USING EMI.-RF. FILTER & MOV. TO CLIP TR
BUS-ORIENTED READOUT CONTROLLER USING TRANSPUTER AS DMA. DEVICE & CRATE PROCESSOR, WITH DAT
MOSSBAUER SPECTROMETER BOARD CONSISTING OF TRANSPUTER, COUNT COLLECTION ELECTRONICS, INTERF
EISA SYSTEM ARCHITECTURE USING INTEL 82350DT EISABUS CHIPSET (6 CHIPS TO ALLOW VARIETY OF PROCES
DDS (DIRECT DIGITAL SYNTHESIS) VFO. BOARD OF TW-1 DDS TRANSMITTER, INCLUDING DDS CHIP & DAC./DIODE
DISSOLVED OXYGEN MONITOR WITH HIGH-INPUT IMPEDANCE RELAY-COMPARATOR, TO TRIGGER ALARM IF OXY
RESISTOR-LOADED SINGLE-TUBE AMP./TTSA-SRPP (2 TUBE SERIES AMP.-SRPP)/RESISTOR-LOADED TUBE AMP. F
DAS. BOARD
SYSTEM TO CHARGE 150MHZ OSCILLATOR & PROVIDE RELIABLE TRIGGER, INCLUDING DIODES TO PREVENT OS
EASY-TO-BUILD SPEECH SYNTHESIZER (IDEAL FREQUENCY READOUT FOR THE VISUALLY IMPAIRED RADIO AMATEUR)
MASTER MODULE (PROCESSOR) THAT DISTRIBUTES WAVEFORM PARAMETERS TO SLAVES/SLAVE MODULE (VARIABLE
BUS-HOLD CONFIGURATION USING OCTAL TRANSPARENT CMOS. LATCH, TO KEEP INPUTS FROM FLOATING WHILE
DISK INTERFACE INTERFACING SIGNALS TO FLOPPY-DISK DRIVE, INCLUDING PIA. (WITH INTERFACE TO Z80 UP.),
SUSPENSION CONTROLLER CCT INCLUDING PRECISION VOLTAGE REFERENCE, GAIN STAGES, INTEGRATOR, MIXER
TRS-80 MELODY SYNTHESIZER TO GENERATE TUNES OR CHIMES UNDER SOFTWARE, USING MELODY SYNTHESIZER
QRS DETECTOR & NOISE INTEGRATOR, TO IDENTIFY FALSE QRS DETECTIONS SO THAT IT CAN DISABLE ALARMS
DISTRIBUTION CARD USING PROGRAMMABLE INTERFACE CONTROLLER (PPI.), TO CONTROL INTERFACE TO HOST
POSITION CONTROL FOR AUTOMOBILE HEADLIGHTS THAT CAN BE USED FOR POSITIONING HEAVY BEAM ANTENNA
SYSTEM BUILT AROUND TEXT COPROCESSOR & VIDEO INTERFACE CONTROLLER, MATED WITH HOST PROCESSOR
BASE CCT FOR 2.5 & 3IN HAMAMATSU PMT.S
SYSTEM FOR VERTICAL AUTOMATIC POSITIONING
RESISTOR CHAIN & ELECTRONICS FOR RCA 12-STAGE PMT.
PASSIVE QUENCH CCT USING RCA APD.
BASE WIRING FOR RCA GAAS. PHOTOCATHODE TYPE PMT., & PREAMP. USING VIDEO AMP., FOR USE IN LUMINES

TEST CCT TO OBTAIN GAIN CURVE FOR PMT./PHOTOMULTIPLIER GATING CCT APPLIED TO RCA PMT. DYNODE CH
PASSIVE QUENCHING CCT FOR TRIGGERED AVALANCHE OPERATION OF RCA APD., INCLUDING BALLAST RESIST
COST-EFFECTIVE FLOATING 15V DC. PS. WITH +-2500V OF ISOLATION, USING 500KHZ 2-INVERTER OSCILLATOR, F
EASY-TO-BUILD ANEMOMETER THAT PROVIDES CURRENT WINDSPEED & DIGITAL READING OF HIGHEST GUST M
3-SECTION (3-POLE) RC. ACTIVE AUDIO CW. FILTER USING OA.S & POLARIZED TANTALUM OR ELECTROLYTIC CAP
BASIC UNITY-GAIN STATE-VARIABLE FILTER/600HZ NOTCH FILTER WITH Q OF 100
SYSTEM TO EVALUATE HEARING QUALITIES OF ENCLOSURES, USING IMPULSE RESPONSE TO EVALUATE SOUND
BASIC OA. FUNCTION BLOCK TO PERFORM MULTIPLICATION & DIVISION (VARIABLE RESISTOR MULTIPLIER)/ANAL
TESTER CONSISTING OF CONSTANT-CURRENT RING-OF-2 CCT, ZENER DIODES & FF.S, USING 3 LED.S TO INDICA
SYSTEM TO ALLOW RAPID MEASUREMENTS OF CELL VOLUME TO BE ACQUIRED BY MICROCOMPUTER, USING OU
TRS-80 COMPUTER-RTTY. INTERFACE TO ENABLE RECEPTION BY GATING SIGNAL ONTO MEMORY BUS UNDER C
DISPLAY CCT OF LOGIC ANALYZER, USING BUFFERS TO DRIVE LED.S TO DISPLAY ADDRESS & DATA LINES/MATC
RESCUE KEY ADDED CCT TO GET BACK TO DEBUGGER PROMPT WITHOUT RESET, REBOOT, DISK SELECT, USER
FAST, FLEXIBLE 8-BIT CONVERTER WITH OPERATION SWITCHABLE FOR A-D OR D-A MODES, WITH CONVERSION
EASY-TO-BUILD DIGITAL FREQUENCY COUNTER WITH GATING TIMES GENERATED BY CRYSTAL CLOCK/PS.
BASIC DIGITAL FREQUENCY-DOUBLER/CONSTANT DUTY CYCLE FREQUENCY-DOUBLER
SYSTEM CONTROLLER FOR VME BUS, PROVIDING SYSTEM RESET, 16MHZ CLOCK & SINGLE-LEVEL BUS ARBITER
EASY TO BUILD 3 OCTAVE MUSICAL INSTRUMENT WITH SUSTAINED & PERCUSSIVE KEYING MODES, USING MUX.
SYSTEM TO MEASURE ACTIVE & REACTIVE POWER DIGITALLY USING SH., ANALOGUE MULTIPLIER & VFC.
INSTRUMENT TO MEASURE COERCIVITY, RETENTIVITY & SATURATION MAGNETISATION OF CONDUCTING SOFT M
RESONATOR & COUNTING CCT, INCLUDING VOLTAGE REGULATOR, QUARTZ RESONATOR, GATE & COUNTER, TO
BASIC 2-INVERTER SCHMITT TRIGGER/OSCILLATOR TO PROVIDE PULSES/THRESHOLD BUFFER FOR PHOTOTRAN
BASIC VOLTAGE REGULATOR/DUAL-POLARITY, OA. BASED REGULATOR/CCT USING SERIES-PASS OPERATION/NE
DISCRETE DRIVER CCT (POWER BOOSTER) THAT ALLOWS 3-STATE GATE TO EASILY DRIVE 50OHM LOADS TO SE
SYSTEM CLOCK CCT/MEMORY & BUFFERS/SELECTION LOGIC CCT FOR 3-UP. SYSTEM/CONTENTION LOGIC CCT T
TESTER TO TEST MULTI-CONDUCTOR CABLE ASSEMBLIES, USING 2 OA.S CONFIGURED AS WINDOW COMPARATO
POST (DIAGNOSTIC) CARD TO MONITOR & DISPLAY COMPUTER-GENERATED TEST CODES, LOCATING SOURCE C
LASER POWER METER USING SOLAR CELL DETECTOR/POWER METER WITH SENSITIVITIES FROM 1V TO 1000V P
BUS ARBITRATION LOGIC FOR MASTER-SLAVE COMMUNICATION USING STD BUS, WITH COMMON (GLOBAL) RAM
HISTORY RECORDER TO AID UP. TROUBLESHOOTING BY TRACING EXECUTION (FLOW) OF MICROCODE WITH LES
LASER PULSE TRIGGERING CCT WITH VARIABLE PULSE DURATION, TO GENERATE SQUARE LIGHT TRIGGERING I
EASY-TO-BUILD, LOW-COST SOURCE FOR SSTV. IMAGES
BASIC OA. CURRENT AMP. FOR PHOTODIODE/SAME WITH BOOTSTRAP ARRANGEMENT TO CURE PROBLEMS OF I
FASTBUS SLAVE INTERFACE FOR SIMULATION & TESTING, SHOWING CONNECTIONS TO SEGMENT TIMERS & ADI
MASTER UNIT OF COMPUTER CONTROLLED PULSER SYSTEM/FAN-OUT UNIT/SLAVE UNIT (BOX) (3)/SLAVE CARD I
LASER INTERLOCK CCT THAT TRIPS LASER PS. & TRIGGERS AUDIO ALARM IF ANY 1 ENCLOSURE IS IN INCORREC
R-S FF. WITH SCHMITT TRIGGER, USING TTL. GATES, INCLUDING SI DIODE NETWORK/TEMPORARY (MONOSTABL
DISPLAY SYSTEM THAT SWITCHES ON LAMP WHEN CLOCK PULSE COINCIDES WITH DARK STATE OF PHOTODIOD
INSTRUMENTATION
ABSORBING GAME TO CHALLENGE THE SENSES/PS.
BUS ARBITRATION LOGIC FOR UP TO 8 DEVICES/STAND-ALONE DSP. (CRISP) SYSTEM WITH DMA. CONTROLLER/(
RESONANT AMP. FOR SPECTRUM ANALYSIS, WITH WITH HIGHER HARMONICS OF SQUARE WAVES CAN BE EMPH
FAST VOLTAGE COMPARATOR-PULSE SELECTION CCT TO CARRY OUT TIME SEQUENCING OF EVENTS, INCLUDING
FUSIBLE-LINK PROM. PROGRAMMER FOR USE WITH ANY TYPE OF COMPUTER
DISCRIMINATOR TO DETERMINE IF SIGNAL IS GREATER THAN, EQUAL TO, OR LESS THAN DESIGNATED FREQUEN
AOS (ACOUSTO-OPTIC RF. SPECTROMETER) SYSTEM CLOCK GENERATOR WITH OUTPUTS TO RETICON PHOTOD
DESIGN-CHANGE TO EPROM. PROGRAMMER, ALLOWING COPYING TO DIFFERENT ADDRESS & CHANGING OF BY
2-STAGE ACTIVE FILTER THAT PASSES 800HZ SIGNAL, WITH BW. OF ~100HZ & CLOSE TO UNITY GAIN AT BANDPA
TEST CCT FOR CERAMIC FILTER/10.7MHZ CERAMIC OSCILLATOR

1-SHOT CCT TO GENERATE PULSE IN INTERRUPT EXPERIMENT IN WHICH COMPUTER JUMPS TO SERVICE ROUTINE
SYSTEM USED FOR DC. DETECTION & FOR AC. DETECTION IN CONJUNCTION WITH LOCK-IN AMP.
3-STATE BUFFER DEMONSTRATOR/3-STATE BUS DEMONSTRATOR
EASILY MOD. CCT TO FORCE Z80 UP. TO BEGIN EXECUTION AT HEXADECIMAL PAGE F0, CHARACTER 00, INSTEAD
PUSHBUTTON-ACTUATED CCT TO LATCH ANY OUTPUT LINE EXCLUSIVELY, OR RETAIN PREVIOUS SELECTIONS &
RESOURCE ALLOCATION CCT FOR BUFFER & MUX. CONTROLLER BETWEEN 1 CONTROLLER & 1 RESOURCE, INCL
7-STAGE PN (PSEUDO NOISE) GENERATOR INCLUDING 2 SHIFT REGISTERS & 2 NAND GATES, USING FEEDBACK I
DISCRETE EQUIVALENT OF WSI PSD3XXL LV. (3V) SINGLE-CHIP FIELD-PROGRAMMABLE MICROCONTROLLER PEP
TMS34010 PC.-COMPATIBLE INTERFACE FOR 1024-HORIZONTAL BY 756-VERTICAL 8-BIT-PER-PIXEL DISPLAY (BBB)
CASSETTE MECHANISM CONTROL LOGIC USING A KEYBOARD ENCODER
ABSOLUTE-VALUE AMP.
FAST & RELIABLE PHOTODETECTOR USING PHOTOTRANSISTOR, GATES & RESISTOR, PROVIDING ANALOG OR D
RESET CCT TO RESET INTERNAL REGISTERS OF MASTER DSP. & ALLOW IT TO LOAD BOOTSTRAP PROGRAM DURI
ALS VERSION OF PPI., WITH LESS PROPAGATION DELAY, GREATER NOISE IMMUNITY, & GREATER SOURCE & SIN
2-STAGE COUNTER USING SINGLE 74LS76, WITH 74LS132 PROVIDING CLOCK PULSES/DEBOUNCED SWITCH CLOC
BASIC FEEDBACK LOOP
SYSTEM USING HALL VOLTAGE WAFER, DIFF. AMP., ADA CONVERTER, RAM. PACK & ZX 81 MICROCOMPUTER
AFSK. TRANSMITTER/AFSK. DEMODULATOR/PTT. CONTROLLER CCT
SYSTEM TO OCCLUDE AIRWAY FOR 0.12S BY ACTIVATION OF SOLENOID VALVE TO SAMPLE SUBATMOSPHERIC P
CUSTOM INTERFACE BOARD BETWEEN EXPANSION BUS OF SLAVE COMPUTER & PARALLEL INTERFACE BUS OF
TRS-80 BUS BUFFER & OUTPUT-PORT EXPANSION CCT (INTERFACE CARD), TO PREVENT LOADING DOWN COMPU
BASIC CHROMA GENERATING CCT IN APPLE II COMPUTER (BBB)
MASTER CONTROL CARD OF CYANCE BUS-EXPANSION SYSTEM/SLAVE CONTROL CARD/DATA MASTER CARD US
50S TIMER/2-RANGE RELAY-OUTPUT TIMER/DELAYED-TURN-OFF SWITCH FOR HEADLIGHTS/ADD-ON PULSE GEN
30S EXIT DELAY FOR 6V ALARM SYSTEM
SYSTEM-ORIENTED ADC. THAT CAN RESOLVE 8 TO 14 BITS/8-CHANNEL DAS.
RESUME-AFTER-TRANSMIT SCANNER FOR PACKET RADIO STATION, USING TIMER CCT, TO LET ICOM IC-27A RES
RESET & 'WATCHDOG' TIMER FOR UP. CONTROL SYSTEM WHERE PROCESSOR FAILURE MUST BE DETECTED BE
TESTER TO DETERMINE WHETHER DIODE IS FUNCTIONING PROPERLY OR SHORTED, OPEN, OR REVERSED
EASY TO USE DEVICE TO PROTECT VIDEO RECORDER (VCR.) FROM THEFT, USING POSITION SENSOR (TILT SWIT
EBS (EMERGENCY BC. SYSTEM) RECEIVER THAT COVERS STANDARD BC. BAND BETWEEN 525 & 1650KHZ, USING
EASY-TO-BUILD SELF-COMPLETING DOT-DASH ELECTRONIC KEYS USING TTL. DIGITAL IC'S & ASTABLE OSCILLA
CASCADE FILTER USING SWITCHED-CAPACITOR IC/SINUSOIDAL OSCILLATOR USING NARROW-BW. FILTER, & DIO
DISPLAY PORTION OF RATE-MULTIPLIER DEMONSTRATION CCT
EASY TO BUILD, SIMPLE DOORBELL CCT THAT, WHEN ACTIVATED, WILL EMIT LOUD, PULSATING SOUND
1-SHOT THAT IS RESETABLE BY GROUNDING PIN 4/FUNCTION GENERATOR USING TIMER IC
DESTROYER WHOOPER USING OSCILLATOR-TIMERS/POWER TIMER/MIXER USING BIFET. OA./LINE-HUM TOUCH S
RESPIRATORY CONTROLLER USING 2 SIGNETICS TIMERS TO GENERATE RESPIRATORY RATE & INSPIRATORY SI
PUSH-PULL SERIES FEED HARTLEY OSCILLATOR CCT USED IN 1933 1750KHZ TRANSMITTER, USING TRIODE TUBE
CUSTOM-CHARACTER GENERATOR TO DRIVE 4 COMMON-CATHODE 7-SEGMENT LED. DIGITS & DISPLAY ALL HEX
DISPLACEMENT TRANSDUCER USING EMITTER-DETECTOR & FET.-INPUT OA.S
FAST IONIZATION GAUGE (FIG) USING BURR-BROWN OA. CONNECTED AS ELECTROMETER WITH VOLTAGE GAIN
FUSE FAIL INDICATOR
TESTER FOR DIGITAL LSI. CHIPS, HOLDING AS MANY AS 2048 TEST VECTORS & CAPABLE OF TESTING UP TO 63 I
BUS-ANALYZER CCT, SHOWING BUFFERING OF SCSI. CONTROL SIGNALS FROM SCSI. CONTROLLER (BBB)/CCT TO
RESISTOR CHAIN USED WITH HAMAMATSU PMT.
LASER TRIGGERING CCT/VERY SIMPLE & INEXPENSIVE LINE-SYNCHRONIZED OSCILLATOR USING SCHMIDT TRIG
1 SECTION OF DIGITAL BUFFER AMP. OF COMPUTER INTERFACE FOR CLINAC-18 LINEAR ACCELERATOR, INCLUD
TESLA-COIL DRIVER USING TONE DECODER, HEXFET. & TRANSFORMER/SOLID-STATE DRIVER USING AUTO IGNIT

TEST FIXTURE TO EVALUATE HV. CAPACITORS AT RATED VOLTAGES UP TO 20KV, INCLUDING BERTAN HIGH VOL
BASIC DECODER USING IC TONE DECODER DRIVING LED./1 OF 2 TD-1 TONE DECODERS USED IN HF. PACKET TU
DISCRIMINATOR TO MAKE ACOUSTIC EMISSION STUDIES POSSIBLE IN SEVERE NOISE ENVIRONMENTS/ADDITION
EASY-TO-BUILD, & EASY-TO-USE TESTER (CHECKER) TO TEST SCR.S, TRIACS, LED.S & DIODES, WITH LED. TO MO
OBSTACLE-AVOIDING STEPPER-MOTOR ROBOT USING SINGLE-CHIP MICROCONTROLLER & HV., HIGH-CURRENT
FAST DOUBLE PULSER USING PLANAR TRIODE (SMALL RUGGED MICROWAVE TUBE) TO PROVIDE REPETITIVE HI
SYSTEM USING Z8108 8-BIT UP. THAT MAY BE DESIGNED INTO EXISTING SYSTEM USING Z80 (BBB)
MASTER VCO. CONTROL CCT OF PHASE-LOCKED VFO. THAT FORMS PART OF DUAL-BAND MULTI-MODE VHF. TRA
DISCHARGE CCT CONSISTING OF DC. SUSTAINER, & VOLUME & PLASMA ELECTRODE PULSERS, INCLUDING THYR
EASY-TO-BUILD 5V PS. INCLUDING VOLTAGE REGULATOR, FULL-WAVE BRIDGE RECTIFIER & TRANSFORMER, FOR
BASIC 5V REGULATOR
BASE CCTS FOR PMT.S IN ELECTRONICS FOR DATA ACQUISITION IN MULTIWIRED CHAMBER (MWC) SYSTEM
BASIC 1802 MULTIPROCESSING SYSTEM USING INDEPENDENT SUBSYSTEM BUS SWITCHING, INCLUDING 2KBYTE
SYSTEM BUILT AROUND 68000 OR 68010 CPU. & 673103 DRAM. CONTROLLER, ABLE TO RUN AT 10MHZ & ADDRESS
SYSTEM BUS FOR MODELS I & III (BBB)/GPIO BOARD USING INTEL PPI. CHIP AS 24-LINE CONTROLLER/LED. DRIVE
BASIC REGULATED PS. DELIVERING 12V AT NOMINAL LOAD CURRENT OF 50MA, USING REGULATOR
MASTER CONTROLLER OF MUX. EMULATOR SYSTEM TO CONTROL EXTERIOR LIGHTS & WINDSHIELD WIPER & W
MASTER MODULE CONSISTING OF 68K20FPI (68020 FASTBUS PROCESSOR INTERFACE) USING 32-BIT UP. (MPU.),
MUSIC-ON-HOLD ADAPTER USING CALIFORNIA MICRO DEVICES TOUCH-TONE RECEIVER (DECODER), TO PROVIDE
SYSTEM CONFIGURATION FOR EPSON PX-8 LAPSIZE COMPUTER (5LB PORTABLE) WITH ROM.-BASED WORDSTAR
ANSWER-ORIGINATE MODEM INCLUDING MOTOROLA MODEM IC & TRANSMIT & RECEIVE FILTERS TO INTERFACE
RESET CCT FOR UP.-MICROCONTROLLER, INCLUDING LATCH, WITH RESET TRIGGER PROVIDED BY POWER RAIL
EISA-BASED SYSTEM USING INTEL 82350 MOTHERBOARD CHIP SET, ENABLING EISA- OR ISA-COMPATIBLE CARDS
TEST PHOTOMULTIPLIER BASE CCT SHOWING PMT. DYNODE POTENTIAL DISTRIBUTION & GATE CCT THAT SWITC
SYSTEM WITH 33MHZ INTEL I860 PROCESSOR INTERFACE TO DRAM. MAIN MEMORY, INCLUDING EDC (ERROR-DE
BASIC IC VOLTAGE REGULATOR CCT BASED ON 3-TERMINAL IC REGULATOR DEVICE
TEST FIXTURE TO PERFORM ALL AMP. TESTS INCLUDING CMRR., PSRR, INPUT OFFSET VOLTAGE (VOS), INPUT E
DISPLACEMENT MEASURING SYSTEM
BASEBAND CCT USING QUADRATURE DETECTOR/AFC. LOOP CCT/SUBCARRIER SOUND DETECTOR/CCT FOR VID
2 SINGLE-ENDED INVERTERS OPERATING IN PUSH-PULL MODE/TRIGGER-PULSE GENERATOR & REGULATOR FOR
BASE LINE GENERATOR OF DETECTION ELECTRONICS TO DETERMINE DISPLACEMENT OF LVDT., INCLUDING CO
TRS-80 AC. CONTROL BOARD
POSITIVE VOLTAGE REGULATOR (PS.) THAT MAINTAINS 5V REGULATION WITH INPUTS AS LOW AS 5.02V, USING M
MESFET. AMP.
MOSFET. TEST CCT COMPRISING 2 OTA.S IN PARALLEL, WITH AMP. BIAS CURRENT ESTABLISHED FROM COLLEC
MOSFET. VOLTMETER USING OA. WITH GATE-PROTECTED MOSFET. DEVIVE IN INPUT STAGE, & INPUT IMPEDANC
INSTRUMENT-QUALITY SINE-WAVE OSCILLATOR DERIVED FROM STATE-VARIABLE ACTIVE FILTER, USING DAC. &
SYSTEM USING DUAL AUDIO OR LOW-NOISE OA., IN WHICH 1 OA. IS USED AS CHIP-HEATING SYSTEM TO REDUCE
TEST CCT FOR MEASURING SETTLLING TIME OF DAC.S, USING MONOLITHIC COMPARATOR IN TIME-WINDOW SCHI
RASTER CCT ENABLING 31 ANALOGUE SIGNALS TO BE DISPLAYED ON ANALOGUE STORAGE OSCILLOSCOPE OR
SYSTEM BUILT AROUND IAPX 186 & CONTROLLER CHIP (BBB)/INTERFACE BETWEEN CONTROLLER & IAPX 186 (BB
DISTANCE-MEASURING CCT USING PULSE REFLECTION METER METHOD, THAT COUNTS NUMBER OF PULSES BE
TISSUE PERFUSION ANALYZER THAT DIRECTS IR. LIGHT SOURCE INTO TISSUE & DETECTS REFLECTED LIGHT AS
HYSTERESIS NEURAL CELL IMPLEMENTATION USING OTA.S, INCLUDING LINEARIZED OTA. USING LINEARIZING DI
MOSFET.-BASED ROBINSON OSCILLATOR (NMR. DETECTOR) WITH EXCELLENT SENSITIVITY & CAPABLE OF OPER
DISCRIMINATOR COMPOSED OF SAW. DEVICE WITH 2 OUTPUT TRANSDUCERS & DIFFERENTIAL AMP., USING 3 IN
ABSOLUTE-VALUE AMP. MADE UP OF SUMMER & PRECISION RECTIFIER WHICH LIMITS FREQUENCY RESPONSE
FAST, 2-CHANNEL ADC. WITH CONNECTIONS TO DRV 11B DMA. COMPUTER INTERFACE
FAST PULSE AMP. FOR SPECTROSCOPY AT GOOD ENERGY RESOLUTION, PERFORMING DIFFERENTIATION & AC

LASER MODULATOR USING PENTODE IN SERIES WITH LASER TUBE, MODULATING HV. TO VARY BRIGHTNESS/LASER
 FAST CHARGER & REGULATOR FOR TEMPO S-1 TRANSCEIVER, TO POWER EQUIPMENT IN RECEIVE & TRANSMIT
 INSTRUMENTATIONAL AMP. FOR THERMOCOUPLES/HEATER CONTROL UNIT/SH. AMP./SQUARE-WAVE GENERATOR
 FUSE TESTER TO CHECK CONDITION OF FUSES, USING 2 O.A.S AS COMPARATORS, & 2 LED.S THAT SIGNIFY BLOWN
 CASSETTE TAPE-DECK MOTOR-SPEED CALIBRATOR (FREQUENCY-TO-VOLTAGE CONVERTER)
 VPS (VIDEO PROGRAMMING SYSTEM) DECODER USING DATA LINE SLICER & DATA LINE DECODER (BBB)/ALTERNATE
 TEST CCT FOR SA3000 UP. OPERATING IN SELF-TEST MODE TO TOGGLE SERIAL OUTPUT DATA LINE, FOR IC IRRADIATION
 TESTBED CCT TO OPERATE MAXIM 8-BIT ADC. (THAT SAMPLES 8 INPUT CHANNELS SIMULTANEOUSLY) IN HARD-WARE
 DOSIMETER (ANALOG INTEGRATOR) TO MEASURE INTEGRATED FLUX DURING IRRADIATION, CONSISTING OF DIFFERENTIAL
 DISTRIBUTION AMP. TO DRIVE SEVERAL VIDEO CABLES/EMITTER-FOLLOWER TO BOOST OUTPUT DRIVE/CMOS-INPUT
 TEST AMP. CONSISTING OF TRANSCONDUCTANCE AMP. (OTA.) & O.A., WITH MODULATING CAPABILITY TO CANCEL
 TESTER THAT WORKS WITH VARIETY OF CRYSTALS & CERAMIC RESONATORS OVER 40KHZ TO 20MHZ RANGE, USING
 FAST CURRENT-TO-VOLTAGE CONVERTER
 INSTRUMENT TO SIMULTANEOUSLY MEASURE INDUCTANCE OF FERRITE CORE COILS FROM 200 TO 400UH & Q VALUE
 SBS (SILICON BILATERAL SWITCH) FULL-RANGE LAMP DIMMER (HYSTERESIS-FREE POWER CONTROLLER) USING
 EASY-TO-BUILD CCT TO DESCRAMBLE GATED-PULSE SIGNALS
 UPSTREAM MODEM (2)/DOWNSTREAM MODEM (2)/1.5MBIT RF. MODEM THAT RECEIVES & TRANSMITS AT 102MHZ
 TEST SETUP TO MEASURE SETTLING TIME (BBB)/CCT SHOWING HIGHLY STABLE REFERENCE VOLTAGE FOR DAC
 RISC. MACHINE BASED ON CPU. THAT PROVIDES 17MIPS, 6MFLOPS INTEGER FLOATING POINT, SUPPORTED BY 256K
 1-SHOT CCT THAT RESETS SYSTEM AT POWER-UP & GENERATES DEBOUNCED RESET SIGNAL WHEN PUSHBUTTON
 MOSFET. DRIVE CCT/VARIABLE-PULSE-WIDTH DRIVE-CCT/MARK-SPACE RATIO DRIVE-CCT/VCO./SYNCHRONIZATION
 TEST DVM. CONSTRUCTED FROM INTERSIL EVALUATION KIT FOR DUAL-RAMP ADC., INCLUDING LCD., BUFFER FOR
 DISCRIMINATOR OF SAMPLED SINGLE-PHOTON DETECTOR, INCLUDING LOWER & UPPER LEVEL DISCRIMINATION
 DESCRAMBLER THAT DECODES SCRAMBLED SIGNAL BY RESTORING HORIZONTAL-BLANKING PULSE TO PROPER
 DISTRIBUTED ROBOTIC CONTROL SYSTEM USING 4 MICROCONTROLLER DEVICES, TO MONITOR ANALOG INPUTS
 FAST BIPOLAR-PROCESS MDAC. CCT WITH INPUTS COMPATIBLE WITH MECL. 10000 SERIES LOGIC
 1 SIDE OF S2 AUDIO COMMUNICATION LINK/ADC. EVALUATION CCT/EPROM. LOADING CCT
 DAS. USING 5.000V REFERENCE & 14-BIT ADC./CCT USING ADC.'S OVERRANGE OUTPUT TO CONTROL GAIN OF PREAMP
 FAST-RISETIME 1MHZ PULSE (SQUAREWAVE) GENERATOR USING MOTOROLA TTL. VCO., FOR TDR. WORK
 TEST BOX TO MEASURE VALUE OF POLARIZED ELECTROLYTIC CAPACITORS & DETECT LEAKAGE, INCLUDING LEAKAGE
 RDS DECODER USING UP. TO DECODE DEMODULATED RADIO DATA SYSTEM (RDS) SIGNAL & DISPLAY RESULT ON
 BASE DRIVE CCT/TRANSFORMER GATE DRIVE CCT INCLUDING 2MHZ OSCILLATOR/INVERTER LEG DRIVE WITH COIL
 SYSTEM CAPABLE OF EXECUTING ALL CREEM (COMBINATION ROM. ELECTRICALLY ERASABLE MEMORY) MODES
 BASIC CLASS B AMP. WITHOUT AMPLIFIED DIODE/CLASS B AMP. WITH LOW CROSSOVER DISTORTION/5MA CURRENT
 PASSIVE NOISE-LIMITER CCT CONTAINING SERIES THRESHOLD & SHUNT NOISE LIMITERS, USING 2 GERMANIUM
 SYSTEM FOR AUTOMATICALLY WATERING GARDEN OR GREENHOUSE, INCLUDING PROBE TO DETECT SOIL CONDUCTIVITY
 BUS ORIENTED SWITCHED MEMORY DECODING CCT FOR SYSTEMS EQUIPPED WITH 8-BIT MC6800 MPU., FOR DECODE
 DISCHARGE CCT FOR ALL-GLASS VACUUM-INSULATED LIQUID-NITROGEN COOLED CO LASER TUBE
 FAST PHOTODETECTOR & LEADING-EDGE TUNNEL DIODE DISCRIMINATOR CCT/STOP RATE REDUCTION CCT
 PASSBAND TUNING SYSTEM/IF.-AF. BOARD/RF. MIXER/AF.-TYPE SPEECH PROCESSOR
 FAST, SIMPLE & FLEXIBLE ALU. TO PROVIDE ARITHMETIC & LOGICAL OPERATIONS ON 2 16-BIT DATA FIELDS, COMPARISON
 EASY-TO-BUILD, SWITCHLESS BIDIRECTIONAL INTERCOM USING DUAL O.A. TO AMPLIFY & INVERT, & POWER AMP
 DAS./PROGRAM VOLTAGE SELECTOR TO ALLOW MICROCOMPUTER TO PROGRAM ITSELF (BBB)
 ACSSB. LEVEL 1 RX ADAPTER FOR OSCAR 10 USE, OFFERING COMPRESSION & EQUALIZATION DURING TRANSMISSION
 BASIC CLASS B POWER AMP. (PA) WITH REDUCED CROSSOVER DISTORTION, TO DEMONSTRATE OPERATION WITH
 CVSDM. (MCVSD) CODER CCT USING SYLLABIC FILTER THAT GENERATES 175HZ ENVELOPE OF SPEECH SIGNAL,
 DSSS (DIRECT-SEQUENCE SPREAD SPECTRUM) TRANSMITTER & RECEIVER STAGES, INCLUDING PSEUDO-RANDOM
 DISCRETE O.A. OFFERING UP TO 500VPK OUTPUT SWING, FAST SLEWING & LARGE BW.
 DOSIMETER TO MEASURE X & GAMMA-RAYS USING CYLINDRICAL ELECTRET IONIZATION CHAMBER, INCLUDING

GAS AMPZILLA GRANDSON AMP.

SCSI. PORTION OF COMM180 SCSI. BOARD, USING SCSI. CHIP TO INTERFACE SB180 SBC. XBUS TO SCSI. BUS (BY TEST SET TO DETECT PHASE ERRORS FROM QUADRATURE, USING BIFET. OA.S/WIDEBAND AF. QUADRATURE NE RESISTIVE VOLTAGE DIVIDER FOR BASE OF RCA PMT./PHOTOTUBE SIGNAL AMP. USING 3 STAGES OF DIFFEREN FAST SWITCHING GATE USING SWITCHING TRANSISTOR WITH DIODE ADDED ACROSS ITS BASE-COLLECTOR JUNCT FAST HV. SWITCH BASED ON 10 POWER MOSFET.S IN SERIES, CAPABLE OF SWITCHING 8KV TO GROUND WITH F TEST CCTS FOR CODEC-FILTER COMBO IC'S, THAT CAN BE EXCITED BY CCT (USING 16R6 PAL.) THAT OUTPUTS 8 FAST TIMING SIGNAL SORTER THAT SORTS SEQUENCE OF FAST TIMING SIGNALS FROM 1 SOURCE TO SERIES O INSTRUMENT THAT PROVIDES BINARY LED. READOUT OF 1ST OR LAST 10 BITS OF RS-232 STREAM OF ASCII. DAT LASER-DIODE DRIVER CCT/APD. CCT TO DETECT & AMPLIFY LIGHT PULSE FROM STROBE LINK DUST DEPOSITION MONITOR INCLUDING PHOTODIODE AMP., LIGHT COMPENSATOR (2)/CCT TO MEASURE RATIO TEST CCT IN WHICH BUS-INTERFACE (SCOPE OCTAL) DEVICES PARTITION ADDRESS & DATA BUSES TO FACILITA FAST LOW COST ECL. DIFFERENTIAL MUX. (BUS SWITCH) (BS) USING 2 STROBED 16-BIT LATCHES TO CAPTURE & DISTRIBUTED REALTIME MULTITASKING SYSTEM NODE CONSISTING OF UP. & NETWORK INTERFACE UNIT CONN ABSOLUTE-VALUE METER USING BALANCED MODULATOR-DEMODULATOR IN ABSOLUTE-VALUE VOLTAGE-TO-CU RMS.-TO-DC. CONVERTER/LOW-COST TRUE-RMS. METER USING ANALOG DEVICES IC FOR IMPLICIT RMS.-TO-DC. FAST (NTSC. TV.-RATE) HISTOGRAM EQUALIZATION PROCESSOR USING TABLE LOOK-UP METHOD, USING UP., AD 2-STAGE 3456MHZ LINEAR AMP./BIAS SOURCES FOR AMP. (2)/X3 MULTIPLIER TO 3312 OR 3456MHZ/PIN DIODE RF RESPIRATORY PHASE ANALYZER INCLUDING INPUT BUFFER, LPF., DIFFERENTIATOR, AMP., INVERTER, COMPARA UNSTABLE FLOW AMP. (FEEDBACK CCT) BETWEEN PRESSURE GAUGE & MOTOR OF PUMP, TO REDUCE VARIATI DISH CONTROLLER CCT FOR USE WITH PC.-COMPATIBLE, USING ADC. TO READ X- & Y-AXIS VOLTAGES & RF. SIG 2-STAGE PEAK DETECTOR-MEMORY SYSTEM CONSISTING OF FAST DIODE-CAPACITOR-TYPE PEAK DETECTOR F DISK CONTROLLER BOARD, ON WHICH HDC9244 CONTROLS TRANSFER OF DATA BETWEEN DISK DRIVES & MEMO TEST (NON-LINEARITY CORRECTION) (GREY LEVEL LINEARISING) CCT USING MULTIPLIERS & OA.S, TO LINEARISE FAST, SILICON, PHOTODIODE QUADRANT DETECTOR (POSITION-SENSING PHOTODIODES) WITH DIFFERENTIAL A RESONATOR DRIVE & SIGNAL PROCESSING ELECTRONICS (CAPACITIVE THICKNESS DETECTOR USING BACK DIC TEST CCT FOR ANALOG DEVICES LOG-DAC DAC. THAT ACCEPTS 6 BIT DIGITAL INPUT & CONTROLS AUDIO SIGNA FAST-RESPONSE THERMOMETER INCLUDING THERMOCOUPLE, & COLD-JUNCTION ELECTRONIC REFERENCE (TH TEST CCT TO EVALUATE B-SERIES COS-MOS. DEVICES/CCTS TO EVALUATE SIGNAL & GROUND LINE NOISE IMMU SYSTEM USING CRT.-FLAT-PANEL VGA CONTROLLER CHIP SET (BBB)/CCT USING CHIP SET, TO SUPPORT IBM PS EASY-TO-BUILD TELEPHONE ACCESSORY THAT ALLOWS YOU TO RECEIVE ONLY CALLS YOU WANT TO RECEIVE LASER POWER TRANSDUCER PEAK DETECTOR CCT INCLUDING OA. & SH. CCT/DATA ACQUISITION TRIGGER SIG TESTER USING PLL., TO MEASURE CAPACITOR'S RELATIVE VALUE, INDICATING WITH 3 LED.S WHETHER VALUE IS ABSOLUTE-VALUE CCT USING COMPRESSED AMP. (PREAMP.) TO ADD 26DB TO OVERALL DYNAMIC RANGE BY AM 3-STAGE PREAMP., GAIN-SWITCHABLE FROM 100 TO 10000/BIQUAD BANDPASS FILTERS/RMS.-TO-DC. CONVERTE TESTER THAT INSTANTLY INDICATES WHETHER CLOCKS ARE IN SYNC, OUT OF SYNC, OR SLIPPING, BUILT ON RS FAST LOW NOISE PREAMP. CCT/FAST PULSE SHAPING CCT WITH 2 PULSE SHORTENING CCTS, POLE-ZERO CANC FAST (HIGH SPEED) PULSE AMP. WITH SMALL (<=50NS) DEAD TIME, TO MINIMIZE EFFECT THAT OCCURS WHEN F RESISTANCE METER FOR MEASURING RESISTANCE OF MICROPIPETTE ELECTRODES FROM 100KOHM TO 1GOHM FAST & INEXPENSIVE 10-BIT ADC. FOR APPLE II, INCLUDING INPUT SECTION, 3-STATE-OUTPUT LATCH DEVICES & VISION SENSOR INTERFACE USING 9 PHOTOCELLS & ADC. WITH 16-CHANNEL ANALOG MUX., FOR CONNECTION TEST CCT FOR 4-QUADRANT MULTIPLIER THAT GIVES OUTPUT PROPORTIONAL TO PRODUCT OF 2 ANALOG INPU RESISTANCE COMPARATOR FOR OPERATION OF 120OHM MANGANIN PRESSURE TRANSDUCER DISTRIBUTED TEMPERATURE-MONITORING CCT/DIFFERENTIAL-TEMPERATURE CCT/COLD-JUNCTION COMPENSA DOSEMETER THAT COMBINES FEATURES OF MOSFET. ELECTROMETER & AUTOMATIC TOWNSEND BALANCE WIT LASER SYNCHRONIZATION CCT FOR OPTICAL SUM OR DIFFERENCE FREQUENCY GENERATION SYSTEMS NTSC.-TO-RGB. CONVERTER (BBB)/CONVERTER USING NTSC. TO RGB. DECODER & VIDEO SYNC SEPARATOR TO FAST IMPURITY IMAGING SYSTEM ELECTRONICS INCLUDING CHAIN TO AMPLIFY & DIGITIZE OUTPUT FROM PHO 2-STAGE COPPER-CONSTANTAN THERMOCOUPLE AMP. OF TEMPERATURE MEASUREMENT & CONTROL APPARA

LASER CONTROL UNIT/SINE-WAVE GENERATOR CCT FOR LEFT CHANNEL/COMPRESSOR CCT/FREQUENCY COM
 BASIC GATE & OUTPUT HOOKUP FOR UDN-3611M/DRIVER DEMONSTRATOR CCT
 BASE-DRIVE CCT TO MEASURE SWITCHING-SPEED PARAMETERS, THAT ALLOWS ONE TO APPLY ANY DESIRED L
 BASIC MOMOCHROME X-TERMINAL CONTROLLER BOARD USING DOCTOR DESIGN ASIC. CONTROLLER CHIP, REC
 RMS. AUDIO-VOLTMETER CCT FOR T.H.D. MEASUREMENT, ALLOWING LINEAR & LOGARITHMIC MEASUREMENTS
 TEST CCT FOR FLASH X-RAY (FXR) LATCH-UP THRESHOLD MEASUREMENTS ON CMOS. IC
 WESTERN DIGITALS'S WD7000-MSC MICRO CHANNEL-TO-SCSI. CONTROLLER WITH 10MBYTE-S TRANSFER RATE,
 COS-MOS. SWITCH USING SIGN-OPERATED SWITCHES & MUX.S
 RMS.-TO-DC. CONVERTER CONNECTED FOR TRUE RMS./CCT USING CONVERTER WITH POWER-DOWN CONTROL
 6-STAGE HALF-WAVE CASCADE HV. VOLTAGE MULTIPLIER THAT REACHES 5000V IN ~500S/INTERFACE BETWEEN
 QPS ("QUASI-PARALLEL SYSTEM") WITH AUTO-RANGING, TO MEASURE DC. CURRENTS FROM 10^{-12} TO 10^{-6} A/AU
 RMS.-CONVERTER-IA. CCT USING DUAL-FET. INPUT OA. AS DIFFERENTIAL PREAMP./FUNCTION GENERATOR USIN
 2-STAGE 1.4-1.7GHZ (1400-1700MHZ) RF. TRANSISTOR AMP. WITH GAIN OF 22DB, NF. OF 2.3DB, & VSWR. OF 1.6:1
 2 STAGE AMP. TO OPERATE OVER 50-350MHZ COMMUNICATION BAND, INCLUDING 50OHM LOW PASS-HIGH PASS
 POSITIVE & NEGATIVE HALF-WAVE-RECTIFIER CCTS (4)/ABSOLUTE-VALUE CCT/WINDOW DETECTOR/INTRUSION I
 TEST CCT USING BIPOLAR IC THAT PERFORMS ALL SPEECH & LINE INTERFACE FUNCTIONS REQUIRED IN FULLY
 MASTHEAD (RF.) AMP. OF ANTENNA BOOSTER WITH ~20DB GAIN OVER RANGE COVERING VHF. FM. RADIO & UHF
 FAST CAPACITANCE METER USING PLL., FOR MEASUREMENT OF FAST CAPACITANCE TRANSIENTS, USING 16MH
 FAST, ACCURATE, NOT TOO FANCY DIGITAL CAPACITANCE METER
 1 SECTION OF 60MHZ VHF. RF. PHASE SHIFTER USING STANDARD DIFFERENTIAL AMP. TECHNIQUE, INCLUDING V
 2-STAGE LOW-NOISE GAASFET. MICROWAVE AMP. (LNA.) USING SINGLE BIAS SUPPLY
 FAST TRIGGER LOGIC THAT PERMITS TO EXCLUDE & REQUIRE INDIVIDUAL PLANES & TO DECIDE MINIMUM NUME
 TESLA COIL PRIMARY DRIVER INCLUDING TIMER, & 2 DUAL BOSFET. UNITS IN PARALLEL TO REPLACE SPARK GA
 SYSTEM USING CMOS. IC INCLUDING LOGIC & PWM. CHIP OUTPUTS, TO CONTROL 3-PHASE BRUSHLESS MOTOR
 DISCRIMINATOR USING BUCKET-BRIGADE DELAY DEVICE, THAT REPRODUCES ACTION POTENTIALS FALLING WI
 MOSART INTERFACE TO IBM PC.
 MASS RATIO CONTROL UNIT (MRCU) THAT OPERATES IN CONJUNCTION WITH QUADRUPOLE MS.
 INSTANTANEOUSLY ADAPTIVE DELTA SIGMA MODULATOR IN WHICH PULSE AMPLITUDE IS INCREASED OR DECR
 EMS SR-1 SERVO REVERSER TO REVERSE TRANSMITTER CHANNEL, TO BE PLUGGED IN BETWEEN RECEIVER &
 VISITEL (BLACK & WHITE SSTV. TRANSCEIVER) TO TRANSCEIVER INTERFACE INCLUDING AUDIO COUPLING CCT
 PASSIVE REMOTE CONTROL FOR AUTOMOTIVE USE, INVOLVING STEERING-WHEEL-MOUNTED CCT, USING LOAD
 TEST CCT TO EASILY GENERATE GROUP DELAYS OF VARIOUS SHAPES & MAGNITUDES WHILE KEEPING RESPON
 GAS SAMPLER FOR AUTOMATIC PERIODIC SAMPLING OF GAS STREAM FOR INJECTION INTO FLAME IONISATION
 LASER DELAY TRIGGER (LDT) THAT SYNCHRONIZES NARROW PULSING LASER WITH 94HZ POLARIZATION MODUL
 EASILY ADJUSTED SWITCHED-CAPACITOR 60HZ HUM FILTER (NOTCH FILTER) USING NATIONAL SEMICONDUCTOR
 5-SECTION SWITCHED RF. ATTENUATOR NETWORK USING T-NETWORK SWITCHING, EACH SECTION OF WHICH U
 2 STAGE AMP. OF READ OUT CHAIN (PREAMP.) (2)/GENERAL PURPOSE SHAPER THAT ACCEPTS EITHER POLARIT
 TEST FIXTURE TO EVALUATE DIELECTRIC ABSORPTION AT LOW SPEEDS/CCT TO SEQUENCE ABSORPTION TEST
 FAST PREAMP. WHICH USUALLY WORKS IN VACUUM OR IN GAS AT LOW PRESSURE, MOUNTED ON CATHODE PR
 TEST CCT FOR NATIONAL SEMICONDUCTOR JFET.-INPUT OA. WITH 10MV MAX OFFSET VOLTAGE, 600PA MAX INP
 BASELINE RESTORER USING LOW NOISE JFET. INPUT OA. AS FEEDBACK AMP., & MONOSTABLE MULTIVIBRATOR
 4-STAGE & 8-STAGE BUTTERWORTH LPF.S/SCF (SWITCHED CAPACITOR FILTER) TONE PROCESSOR/3-STAGE CH
 TESTING SYSTEM FOR 7-SEGMENT MICROSTRIP DETECTORS, WITH EACH SEGMENT CONNECTED TO OA., TO ME
 TEST OSCILLATOR FOR METER/SUMMING AMP./HALF OF 8TH-ORDER BUTTERWORTH LPF. (3)/4TH-ORDER BP FILT
 LASER-DIODE DRIVING CCT INCLUDING AC. & DC. DRIVE CCTS/2-STAGE DIFFERENTIAL GAIN COMPENSATION CCT
 TISSUE REFLECTANCE OXIMETER INCLUDING PULSE GENERATOR, TIMING CCTS, LED. DRIVER, PHOTODIODE, PH
 DOSEMETER INCLUDING PHOTODIODE DETECTOR, CURRENT TO VOLTAGE CONVERTER, SH. CCT, DIFFERENCE
 BASELINE STABILIZER CCT TO COMPENSATE FOR SLOWLY DRIFTING BASELINE WITHOUT DISTORTING SIGNAL
 FAST, ACCURATE VFC. & F-V CONVERTER (2)/CCT TO MEASURE SETTLING TIME/FAST-ACTING PEAK DETECTOR/F

FASTBUS TTL.-BASED CABLE SEGMENT EXTENDER INCLUDING CABLE SEGMENT DRIVERS (CSD'S) (BBB)/DESKEW
 FAST CHARGE INTEGRATING & SHAPING CCT (FCISC), INCLUDING VOLTAGE-TO-CURRENT CONVERTER, EMITTER
 TESTING SYSTEM FOR SILICON MICROSTRIP DETECTORS WITH 512 STRIPS, WITH STRIPS CONNECTED TO OA. O
 MOSFET.-GTO. CASCODE CCT WITH LARGE-AREA MOSFET. CONNECTED IN SERIES WITH SIEMENS 900A-2500V G
 PUSH-PULL BRIDGE CCT FOR BIDIRECTIONAL MOTOR DRIVE/SERVO-LOOP CCT TO CONTROL SHAFT'S ANGULAR
 TEST CCT FOR LOW-INDUCTANCE, HIGH-CURRENT TESTS TO TEST TURN-OFF GAIN & TIME OF GTO./CCT FOR HIGH
 GAS DETECTOR CCT USING FIGARO SEMICONDUCTOR GAS SENSOR, THAT MONITORS AIR FOR INDICATION OF C
 TGS (TOGIC GAS SENSOR) SENSOR CCT USING FIGARO SENSOR, INTERFACED DIRECTLY TO GAMEPORT OF CO
 PUSH-PULL SWITCHING POWER AMP. SUITABLE AS AUDIO AMP. OR SERVO DRIVER FOR DC. MOTORS, BASED ON
 POSITION MOTOR DRIVE CCT USING PWM., TO ADJUST ANGULAR DISPLACEMENT BETWEEN 2 STATORS BY CON
 SYSTEM TO TEST 16KX1 SRAM.'S SENSITIVITIES TO TOTAL DOSE, & DOSE RATE UPSET LEVELS, SURVIVABILITY I
 FAST, 100MHZ, FET. INPUT, VOLTAGE FOLLOWER USED AS DIFFERENTIAL AMP.
 SYSTEM FOR RECORDING OF PHYSIOLOGICAL SIGNALS ON UNMOD. DOMESTIC VCR., CONSISTING OF RECORDING
 TEST CCT FOR GAASFET. AMP. (COLPITTS OSCILLATOR)/VIDEO DIODE RECEIVER (AMP. WITH 60DB GAIN)/AGC. C
 BASIC-SUM AMP. CONSISTING OF LINEAR-SUM PART & BUFFER AMP. PART, HAVING GOOD LINEARITY WITH WIDE
 FAST, LOW-DRIFT, LOW-CURRENT INTEGRATOR USING ACTIVE FEEDBACK FOR RESET, WITH SENSITIVITY OF 200
 FAST IONIZATION GAUGE CCT, SHOWING GAUGE & AMP. USING NATIONAL SEMICONDUCTOR OA. WITH HIGH SLE
 FAST, SMALL-SIGNAL RECTIFIER USING OA. (CONFIGURED AS INVERTER), COMPARATOR & SWITCH, WITH BW. OF
 FAST, AC.-COUPLED WIDEBAND OA. CCT (PREAMP.) WITH 15NS RISE TIME & VOLTAGE GAIN OF 2/2-STAGE SLOW
 FAST CURRENT (TRANSCONDUCTANCE) AMP. (PULSE PREAMP.) WITH 10^6 V-A GAIN, SWITCH SELECTABLE TIME
 QRS PEAK DETECTOR WITH RESOLUTION OF BETTER THAN 250US/CCT SHOWING INTERFACING OF PEAK DETEC
 SCSI.-TO-SMD. CCT USING SEQUENCER TO HANDLE UP. ACCESS & MUX.ED DATA (2)/DISK CONTROLLER CONNEC
 ABSOLUTE VALUE CCT (FULL-WAVE RECTIFIER) USING CONDITIONAL INVERTER , WITH 20KHZ BW.
 HOST UP. BOARD CARRYING 2 3-STATE TRANSCEIVERS, BUFFERS, & CONTROL REGISTER THAT DETERMINES SY
 ASSE (ALL-SOLID-STATE EXCITER) CCT FOR LASER HEAD USING 25 THYRISTOR STACK/THYRISTOR STACK TRIGG
 BASIC LEVEL GAUGES/HEAD UNIT
 SCSI.-TO-ESDI CONTROLLER
 INSTRUMENT FOR MEASUREMENT OF HIGH AC. IMPEDANCE, INCLUDING VOLTAGE FOLLOWER, CURRENT-VOLTA
 7 SEGMENT DC. MUX.ING PLASMA DISPLAY INCLUDING ANODE DRIVER, CONVERTER FOR ANODE DRIVER CURRE
 CASSETTE LEVEL INDICATOR TO ADJUST LEVEL OF RECORDER WHEN LOADING PROGRAMS INTO MICROCOMPU
 RESTORED SWTP'S (SOUTHWEST TECHNICAL PRODUCTS') MONOPHONIC 210-A "TIGERSAURUS HIGH-POWERED
 BASIC BEGINNER'S HAM (AMATEUR-RADIO) HF. RECEIVER USING DIRECT CONVERSION/CRYSTAL CONTROLLED C
 2-STAGE LOW-NOISE GAASFET. PREAMP.
 MOSFET. TRIGGER CCT USED TO TRIGGER GROUNDED GRID THYRATRONS IN NITROGEN LASERS/FET. DRIVE CO
 LASER RECEIVER (LASER LISTENER DEMODULATOR) WITH EXTREMELY HIGH GAIN, TO BUG ROOM USING LASER
 RESIDUE AMP. THAT SUBTRACTS & AMPLIFIES SIGNALS FROM TRACK-&-HOLD AMP. & DAC., USING LOW-POWER,
 FAST PREAMP. TO WHICH CHARGE SIGNAL FROM SILICON PHOTODIODE IS FED/POSTAMP. TO AMPLIFY PREAMP
 INSTRUMENT TO MEASURE CAPACITORS & INDUCTORS AT OPERATING FREQUENCY, CONSISTING OF CONSTAN
 BASIC 10-ELEMENT LED. BARGRAPH READOUT/BARGRAPH FLASHING CCT
 TESTER CONSISTING OF OSCILLATOR THAT GENERATES 1KHZ TEST SIGNAL & DETECTOR THAT AMPLIFIES DETE
 DISPLAY CONSISTING OF 10 RED LED.S DRIVEN BY LINEAR BAR-GRAPH IC & TRIANGLE WAVE GENERATOR
 FAST LINEAR GATE, & FAST STRETCHER TO PROCESS SHORT SIGNALS, USING AMP., MOSFET.S, & LOGIC CCT US
 8-STAGE SUCCESSIVE DETECTION LOGARITHMIC IF. STRIP WITH INPUT DYNAMIC RANGE ≥ 80 DB, CENTER FREQ
 TEST CCT TO EVALUATE SIEMENS OPTOCOUPLER OPERATING IN POSITIVE UNIPOLAR PHOTOVOLTAIC MODE/BIF
 TEST SETUP THAT INCLUDES OA.S IN PRECISION PLL. TO MEASURE NOISE CONTRIBUTION OF PHASE COMPARA
 BASS-SUMMING AMP./DYNAMIC SEPARATION INDICATOR
 RESONANT-MODE OFF-LINE HALF-BRIDGE-CONFIGURED PS. USING QUASIRESONANT CONVERTER TOPOLOGY, V
 POSITION DETECTION CCT CONSISTING OF HALL-CELL WITH LINEAR AMPLIFYING CCT, TO DETECT LINEAR CHAN
 TEST CCT USING AUTOMOTIVE LIQUID-LEVEL DETECTOR WITH POP CAN FULL OF TAP WATER/CCT SHOWING DE

TEST CCT FOR MEASURING SETTLING TIME OF OA.S, THAT REFERS OA. OUTPUT'S SETTLING WAVEFORM TO GR RISC. COMPUTER FORMING FULL 32-BIT MICROCOMPUTER SYSTEM THAT PERFORMS IN 3-TO-4MIPS RANGE, USI VISIBLE LED.-ALERT CCT TO WARN WHEN FLUID LEVEL IS LOW/OPTIONAL TONE ALERT/CCT TO EXAMINE OPERA FAST RESPONSE LPF. WITH EXTRA TRANSMISSION ZERO INTRODUCED TO STOPBAND, & SETTLING TIME TO 0.1% LASER RECEIVE SYSTEM (RECEIVER CCT) USING OPTODETECTOR (PIN DIODE DETECTOR) & AUDIO AMP. CCT WI TEST CCT FOR MEASURING OPEN-LOOP GAIN DIRECTLY, USING BUFFERS TO BUFFER DIFFERENTIAL INPUTS FR 2-SENSOR MONITOR TO CONTROL PUMP SUCH THAT IT IS NOT SWITCHED ON UNTIL TEMPERATURE OF COLLEC BASIC SOLAR RADIOMETER CCT USING OA., & SILICON PHOTODIODE (SOLAR CELL) AS LIGHT DETECTOR/ADJUST BASIC TREBLE & BASS EQUALIZER CCT INCLUDING OPTIONAL BUFFER/ACTIVE VERSION OF VARIABLE SLOPE M- CASSETTE TAPE PLAYER MEMORY KEYER CONSISTING OF LIMITER, PEAK DETECTOR, LPF. & SLICER, TO USE CV RESPIRATORY GATING DEVICE INCLUDING PRESSURE SENSOR (TRANSDUCER) TO WHICH PRESSURE RISE & FA SYSTEM INCLUDING CONTROL UNIT, UP. & MEMORY SPACE, INTELLIGENT ADC. UNIT & DISPLAY (BBB)

TEST CCT

LASER PS.

3-STAGE CHEBYSHEV FILTER WITH 0.5DB PASSBAND RIPPLE, 250KHZ CENTER FREQUENCY, 50KHZ 3DB BW., & G RESISTIVE INPUT, LOW NOISE, NONINVERTING DIFFERENTIATOR CONSISTING OF ACTIVE INTEGRATOR & SUMME ZCS (ZERO-CURRENT-SWITCHED) BUCK QRC (QYASI-RESONANT CONVERTER) WITH MULTI-LOOP CONTROL, INCI MOSSBAUER INTERFACE FOR DAS. BUILT AROUND APPLE II MICROCOMPUTER, INCLUDING WAVEFORM GENERA INSTRUMENT TO MEASURE CAPACITANCE, FREQUENCY, RPM. & MORE, USING FREQUENCY-TO-VOLTAGE CONVE MESFET. MIC. OSCILLATOR, WITH GATE-RESONATED, COMMON DRAIN TOPOLOGY & WIDE TUNING RANGE/OSCIL SYSTEM 12 INCLUDING VIEWDATA & TELETEXT ACQUISITION/XM-12 (TELETEXT SYSTEM USING 4 CHIPS)/VDP12-8 DISPLAY DRIVER FOR MUX.ED DISPLAY, USING LOGARITHMIC BARGRAPH DRIVER/PSU & CLOCK CCTS/INPUT AM RESOLUTION ENHANCER THAT INCREASES ADC.'S RESOLUTION & LINEARITY 16-FOLD, MAKING USE OF ADC.'S R INSTRUMENT TO TEST (CHECK) CONCENTRATION OF ALCOHOL IN PERSON'S BLOOD STREAM BY ANALYZING EXI FAST CARD TO CONVERT IBM PC. AT OR COMPATIBLE INTO FDDI (FIBER DISTRIBUTED DATA INTERFACE) NODE, TEST FIXTURE TO OBSERVE TRANSFER FUNCTION ERROR OF LOGARITHMIC AMP. IN REAL TIME, ALLOWING TES FAST CONSTANT FRACTION TRIGGER USING SCHMITT TRIGGER CCT, WITH HIGH RESOLUTION, LOW POWER CO BASIC COMPARATOR CCT/SINGLE-ENDED COMPARATOR CCT/WINDOW DETECTOR/OUT-OF-WINDOW COMPARAT TMS9995-BASED SYSTEM WITH MEMORY MAPPER (BBB)/Z80-BASED SYSTEM WITH MEMORY MAPPER (BBB)/TMS VISUAL PS. MONITOR USING TRICOLOR LED. DISPLAY TO INDICATE (SHOW) IF OUTPUT VOLTAGE IS ABOVE, BELC RESISTIVE DIVIDER FOR PHOTOMULTIPLIER (PM), WITH VOLTAGE OF ~0.50KV FROM PHOTOCATHODE TO 1ST DY MUSIC BOX DOORBELL THAT PLAYS PROGRAMMED TUNES, CONSISTING OF MELODY SYNTHESIZER, OPTOCOUP POSITIVE & NEGATIVE ADJUSTABLE REGULATORS WITH PROGRAMMING RESISTORS (2)/ADJUSTABLE, DUAL-OUT MUSICAL INSTRUMENT USING LOW RF. OSCILLATOR THAT PRODUCES VARIATION IN RF. OUTPUT AS WAND IS MO DISCRETE HIGH-SPEED TTL. PROCESSOR DEVELOPED FOR DIGIPOLY 8-NOTE POLYPHONIC MUSICAL INSTRUME BASIC TIMERS USING PRECISION TIMER IC (2)

DISCRIMINATOR TO PROVIDE 1 COUNT PULSE FOR EACH LEVEL OF DISCRIMINATION THAT SIGNAL SURPASSES, EASILY TUNABLE LOUDNESS CONTROL USING CAPACITANCE MULTIPLIER, ACHIEVING WIDE VARIETY OF LOUDN 2-STATE LEVEL DETECTOR WITH HYSTERESIS, TO VERIFY OUTPUT LEVELS OF DIGITAL BOARDS TO GREATER AC LASER INTENSITY (POWER) MONITOR CCT & TIME BASE PULSE GENERATOR OF TIME-RESOLVED FLUORESCENC DISTORTION OR FUZZ UNIT TO MAKE SOUND OF MUSICAL INSTRUMENT MORE INTERESTING BY ADDING HARMO CASSETTE INTERFACE CONSISTING OF RS-232-TO-MANCHESTER CONVERTER & MANCHESTER-TO-RS-232 CONV TMS32010 UP. CARD INCLUDING DUAL-PORT RAM.S, INTERRUPT FF., ADDRESS DECODER & AND-OR GATES (BBB TEST CCT TO CHECK REMAINING CHARGE (LIFE) IN BATTERY, WITH CHARGE BEING PROPORTIONAL TO TIME LEI FAST, THERMALLY STABLE BIPOLAR PULSE AMP.

FAST IA.

INSTRUMENT TO INDICATE AIRWAY OBSTRUCTION, USING THERMISTOR PROBES (SENSOR), IA., DIFFERENTIATO DISPLAY ADAPTOR TO INTEGRATE OUTPUT OF PURITAN-BENNETT IR. CO2 ANALYZER INTO DISPLAY OF VIVATEK FAST PREAMP. FOR LOW BACKGROUND IR. DETECTORS, PROVIDING BACKGROUND LIMITED PERFORMANCE FO

BASE STATION CCT TO DETECT & DEMODULATE REFLECTED SIGNAL/FIELD STATION CCT TO MODULATE TRANSMISSION
QRS DETECTOR INCLUDING INPUT FILTER, ANALOG DIFFERENTIATOR, & ADAPTIVE THRESHOLD DETECTOR INCLUDING
MOSPA (MOS. PREAMP.) DUAL-MONO PS. USING REGULATORS, WITH OUTPUTS OF +25V @35MA & @33MA & +-15V
BUS INTERFACE USING GPIB. ADAPTER (GPIBA) & LINE BUFFERS, TO INTERFACE (CONNECT) MPU. (UP.) TO IEEE
POSITION SENSOR CCT BASED ON FILM STRIP WHOSE OPACITY VARIES LINEARLY ALONG ITS LENGTH, USING OPTICAL
FAST INVERTER AMP./CONTROL FOR HV. SWITCH/12-BIT DAC./170MHZ CLOCK OSCILLATOR
4-SPEED AUTOMATIC FAN CONTROL THAT CONTROLS FAN SPEED IN PROPORTION TO HEATSINK TEMPERATURE
BISTABLE (RS FF.) BUILT AROUND OA., WITH RESET & SET INPUTS, IN WHICH HIGH PULSE ON SET INPUT WILL DRIVE
TEST CCT TO DETERMINE VOLTAGE RATIO FOR ACCURATELY DETERMINING CABLE (TRANSMISSION LINE) ATTENUATION
DISCRIMINATOR & GATE-GENERATING CCT, INCLUDING VOLTAGE COMPARATOR & ECL.-TO-TTL. CONVERTER
SYSTEM'S DIGITAL PHASE SHIFTER-FM., TO SPLIT RF. SIGNAL INTO QUADRATURE PHASE VECTORS, AMPLITUDE
DAS. MOTHERBOARD INCLUDING UART. & BAUD RATE GENERATOR/8 BIT DAC. BOARD (BBB)/RELAY BOARD USING
DAS. INCLUDING MUX. (MPX), SH. AMP., ADC., 4-BIT BINARY ADDERS, 2-INPUT AND GATES, SHIFT REGISTERS (SR)
DISCRETE-IC 34HR CLOCK, USING TTL. IC'S & LED. LAMPS TO INDICATE HOURS, MINUTES & SECONDS
PUSH-PUSH FREQUENCY DOUBLER (7-14MHZ)/CW. BREAK-IN DELAY CCT
TEST EQUIPMENT FOR MAKING ANTENNA-PATTERN MEASUREMENTS WITH A SAMPLING DIODE
TEST CCT TO DETERMINE HOW SOFT-FERRITE MATERIALS REACT IN PULSE APPLICATIONS, WITH PULSE GENERATOR
TEST CCT TO BE CONNECTED BY TERMINALS TO 4 CORES AT 1 END OF 2 PAIR OR QUAD TELECOMMUNICATIONS CABLE
DISCRIMINATOR TO DETECT RELATIVE PHASE BETWEEN VOLTAGE & CURRENT WAVES IN RF. TRANSMISSION LINE
SYSTEM INTERFACE USING DUAL 8-BIT ADC.-DAC., CONNECTED TO UP. DATA BUS VIA 8-BIT IO. LATCHES, & USING
EASY-TO-BUILD 40M MILLIWATT RIG (TRANSMITTER) THAT RUNS 500MW INPUT, USING TRANSISTOR THAT KEYS CARRIER
BASIC UNIT OF MODULAR ELECTRONIC SYSTEM, CONSISTING OF NPN TRANSISTOR WITH 3 INPUTS, COMPRISING
BASE DRIVE CCT FOR DARLINGTON POWER TRANSISTOR, USING CAPACITOR TO SPEED UP TURN-ON, & TRANSISTOR
TRS-80 AUDIO METERING BOX THAT SAMPLES, RECTIFIES & FILTERS PULSES WHEN YOU LOAD OR CSAVE TAPE
SYSTEM USING 6MHZ Z80-B UP. & 5MHZ FLY-BY DMA. CONTROLLER, WITH FULL SCSI. CAPABILITY
TEST CCT FOR MOS. INVESTIGATION, SHOWING VMOS. AS DUT./TEST CCT FOR BIPOLAR OA. IN SIMPLE CCT GIVING
SYSTEM FOR MEASUREMENT OF FREQUENCY DEPENDENCE OF INDUCTANCE & RESISTANCE OF PULSED FIELD
DISCRETE INVERTER CONSISTING OF CURRENT MIRRORS
TEST CCT FOR TUNER IC THAT PERFORMS MIXER OSCILLATOR & IF. AMP. FUNCTIONS IN TV. TUNERS OVER VHF
TEST FIXTURE SUITABLE FOR CHECKING TRAP RESONANCE WITH STATION TRANSMITTER
RESISTIVE POWER BRIDGE WITH SWR. FUNCTION, FOR MEASURING TRANSMITTER OUTPUT POWER
DAS./PROGRAMMABLE ATTENUATOR/IA.
TEST PROBE USING DC. BIASING BY NICD. BATTERIES (2)/TEST PROBE USING OPTICALLY POWERED DC. BIASING
POSITION-ENCODING CCT/SIGNAL CONDITIONER/DIGITAL THERMOMETER/AM. RADIO TRANSMITTER/FM. TRANSMITTER
TEST SET TO EVALUATE CRYSTALS USED IN FILTERS/CRYSTAL OSCILLATOR FOR CRYSTAL FREQUENCY MATCHING
DISCRETE-COMPONENT NAND GATE
2-STAGE AUDIO AMP./DOUBLY BALANCED MIXER (PRODUCT DETECTOR)/CRYSTAL OSCILLATOR/VFO. BUFFER-AMPLIFIER
VISUAL TELEPHONE OFF-HOOK INDICATOR
RESET CCT FOR 8048 SERIES SINGLE-CHIP UP.S//IMPROVED RESET CCT TO RESPOND TO BRIEF OR SHALLOW SLOPE
DISPLAY CCT TO INDICATE WHEN 3000A CURRENT FLOWS IN WELDING GUN, WITH ONSET OF CURRENT INDUCING
CASCADED VOLTAGE DOUBLER USING DIODES RATED AT 1KV PIV/25-STAGE VOLTAGE DOUBLER THAT GENERATES
BASIC TRANSMITTER RF. STRIP SHOWING VARIOUS TEST POINTS
TESLA COIL, SIMPLE
2-STAGE AMP./2ND MIXER OF RECEIVER CHAIN/IF. SECTION/SINGLE-LOOP SYNTHESIZER SYNCHRONIZING 66MHZ
DISPLAY CARD TO DISPLAY UP TO 2048 DATA POINTS STORED IN NASCOM 2 MICROCOMPUTER ONTO OSCILLOSCOPE
TEST CCT TO DEMONSTRATE BEAT-FREQUENCY MEASUREMENTS, USING 8-BIT CMOS. FLASH ADC.
4-STAGE MINIATURE VOLTAGE MULTIPLIER/MINIATURE DC.-DC. UPCONVERTER CCT
BASIC MIDI. CCT
EASILY BUILT (SIMPLE) LONG-WAVE CONVERTER WHOSE OUTPUT IS IN RANGE OF 7.0 TO 7.5MHZ, INCLUDING INVERTER

BASIC CCT FOR IC DESIGNED FOR LONG-TIME APPLICATIONS/INTERVAL TIMER TO PROVIDE DELAYS OF 1 TO 11M
PASSIVE, UNTUNED FIELD-STRENGTH METER TO HOME-IN ON INTERFERENCE SOURCES UP TO ~40MHZ, INCLUD
Q-SPOILER CCT FOR CALIBRATING SENSITIVITY OF ICR. MARGINAL OSCILLATOR OVER RANGE 100-1000KHZ, USI
PUSH-PUSH MOSFET. DOUBLER (FREQUENCY DOUBLER)
BASIC DIODE NOISE GENERATOR/TRANSISTOR NOISE GENERATOR/PINK NOISE GENERATOR USING DIGITAL NO
CASCADED FILTER SYSTEM (BBB)/PARTIAL CCT OF SB-104A IF.-AUDIO BOARD SHOWING MOD.S TO IMPROVE STF
LASER DIODE CURRENT SUPPLY/AMP. CONSISTING OF LOW-NOISE AC.-PREAMP. & TI INTEGRATED VIDEO AMP.,
MOSFET. CURRENT-BOOSTED AMP.
MOSFET. AMP. WITH LARGE BW. & LOW NF., USING DUAL GATE MOSFET., TO AMPLIFY TRANSIENT PHOTOCURRE
TEST-&-DRIVE CCT FOR GTO. THYRISTORS, THAT SUPPLIES TURN-ON & TURN-OFF CURRENT PULSES SEQUENTI
EASY-TO-BUILD SWR. METER TO PROVIDE INDICATION OF DEGREE OF MISMATCH BETWEEN TRANSMITTER & AN
BASE DRIVE CCT FOR EACH MJ10009 TRANSISTOR OF 3-PHASE AC.-TO-DC. POWER TRANSISTOR CONVERTER, U
3-STATE (3-LEVEL) PULSE GENERATOR EASILY PROGRAMMED TO GENERATE TTL.-COMPATIBLE POSITIVE, NEGA
FAST BIPOLAR SHAPING AMP. (SHAPER) CONSISTING OF 2 DIFFERENTIATION & 4 INTEGRATION STAGES, OBTAIN
DISCRETE VCXO THAT PROVIDES CRYSTAL "PULLABILITY", & FREQUENCY DOUBLER, FOR HIGH-SPEED MODEMS
ACSSB. TXCO. CCT THAT COVERS 145.960 TO 145.976MHZ
BASEBAND TEST SIGNAL GENERATOR THAT PROVIDES NOVEL & SIMPLE METHOD OF GENERATING PERIODIC WA
FAST HIGH-CURRENT DRIVER CCT THAT DOES NOT SACRIFICE SPEED WHEN CURRENT CAPABILITY IS INCREASE
FUSE-CONDITION INDICATOR USING FLASHING NEON LAMP TO WARN OF BLOWN FUSE & CONNECTED MAINS VO
BASEMENT FLOOD ALARM
LASER DIODE SWITCHING SOURCE (TRANSISTOR CCT) TO PROVIDE PULSES AS SHORT AS 10NS AT REPETITION
MUSIC BOX CW.-TO-TELEGRAPH CONVERTER
INSTANT REPEATER CONTROL FOR KENWOOD EQUIPMENT USING 4 PIN TONE ACCESS PLUG
BASEMENT FLOOD ALARM FOR PEOPLE WHO HAVE LEAKY BASEMENTS, TO GIVE EARLY WARNING OF RISING WA
DISCRETE SUMMING-AMP. CCT THAT DOESN'T SUFFER FROM FALL-OFF IN GAIN WITH INCREASES IN FREQUENC
BASIC DIODE RF. DETECTOR USING MICROAMMETER/MORE VERSATILE RF. DETECTOR INCLUDING SELECTOR S
FUSIBLE-LINK PROM. PROGRAMMER, ADDRESSED BY BINARY COUNTER INCREMENTED BY PUSH BUTTON, USING
TESTING CCT THAT SOUNDS ALARM (BUZZER) WHEN IT DETECTS STEADY SHORT CCT OR MOMENTARY OPEN C
TESTING CCT TO DETERMINE IF THERE ARE WIRING ERRORS IN RS232 COMPUTER-TERMINAL CABLES OR THEIR
TEST CCT USING GERMANIUM DIODE & LV. (1.5V) SUPPLY, TO FIND SHORT CCTS & OPEN CCTS IN CABLES & PCB
LASER-PHOTODIODE ASSEMBLY SIMULATOR
ADSR (ATTACK-DELAY-SUSTAIN-RELEASE) WAVEFORM GENERATOR WHOSE "VARIABLES" ARE INDEPENDENTLY
EASY-TO-BUILD SOUND GENERATOR DESIGN CONSOLE USING SOUND-GENERATOR IC
SYSTEM CONSISTING OF DC. REGULATOR & LINEAR CURRENT PULSER TO PRODUCE PROGRAMMABLE CURREN
MASTER TRIGGER CCT FOR X-RAY CAMERA, IN WHICH 1 INPUT TRIGGER YIELDS 5 FRONT MCP. TRIGGERS/PULS
3-SEGMENT PIECEWISE-LINEAR CURRENT-CONTROLLED NEGATIVE RESISTOR USED IN "DEVIL'S STAIRCASE" NO
MOSFET. SOURCE FOLLOWER WITH RESONANCE CCT TUNED USING REVERSE BIASED GAAS.(P) LED., TO TRANS
EASY-TO-CONSTRUCT CONTROLLER FOR HOT-WIRE STYROFOAM CUTTER FOR MODELLING
TEST OSCILLATOR
LASER MODULATOR (TRANSMITTER) USING NEC MASTER-SLAVE GAAS. IC FF., NEC LASER DRIVER IC & AT&T LAS
2-STAGE LOW NOISE CURRENT TO VOLTAGE PREAMP. WITH GAIN FROM 20NA INPUT CURRENT TO 5V OUTPUT V
TEST BED ALLOWING CONTROL OF ADDRESS & DATA LINES, TO FULLY TEST SCSI. INTERFACE CHIP'S FEATURES
CASSETTE-SERIAL INTERFACE/FLOPPY-DISK CONTROLLER/PARALLEL PRINTER INTERFACE USING VIA./ADC./CCT
TEST INSTRUMENT FOR MEASURING INDUCTANCE & RELATIVE Q (INDUCTANCE METER)
BASIC MODE V.21-V.22-BELL 212A MODEM USING MP212A PLUS CHIP SET WITH 103-V.21 CAPABILITY, DTMF. & PIL
BASELINE RESTORER PREAMP. OF ANALOG SIGNAL PROCESSING SECTION, CONSISTING OF HIGH PASS FILTER
DAS. USING ANALOG MUX., SH., COUNTER, & ADC. (BBB)/IA. WITH DIFFERENTIAL INPUT
BASIC PUSH-PULL AMP. TO OBTAIN FULL VOLTAGE SWING OF SAWTOOTH/TIME BASE CCT/OUTPUT STAGE TO LO
TEST CCT FOR 2 STAGE SEMICUSTOM ASIC. PREAMP. (BIPOLAR TRANSIMPEDANCE AMP.) THAT CONVERTS IMPU

FAST, CLOSED-LOOP UNITY GAIN, LOW-OUTPUT IMPEDANCE BUFFER WITH 16-BIT PRECISION & OUTPUT IMPEDANCE
BASIC SENSOR CCT/BRAINS OF MICROMOUSE CONSISTING OF MICROCONTROLLER & RAM./MOTOR CONTROL CCT
FAST PROGRAMMABLE-GAIN AMP. WITH 200MHZ BW., USING SWITCHED-INPUT OA./VIDEO RECEIVER NOISE BLANKING
PASSIVE FRONT-END CCT THAT PROVIDES IMPEDANCE MATCHING BETWEEN DRIFT TUBES & OUTPUT CABLES/D
TEST RECEIVER USING FREQUENCY DOWNCONVERTER, & RF. INPUT & IF. OUTPUT AMP.S, WITH EXTERNAL LO.S
FAST-TIMING & CHARGE-SENSITIVE PREAMP. USING CHARGE SENSITIVE IC TO GET ENERGY SIGNAL, & FET. & FA
TESTER THAT, WHEN USED WITH MULTIMETER, READS ZENER VOLTAGE UP TO 60V & ALSO TESTS LED.S
MOSFET. GATE DRIVER OF SINGLE SWITCH DUAL OUTPUT DC.-DC. CONVERTER, INCLUDING OPTOCOUPLER THA
POSITION SENSOR TO MEASURE DIFFERENCE IN CURRENTS PRODUCED BY 2 PHOTODIODES/CONCENTRATION
3-STAGE VALVE TYPE TRANSMITTER USED BY AMATEUR OPERATORS FROM 1930'S, INCLUDING OSCILLATOR & S
INSTRUMENT-COMPUTER INTERFACE TO MATCH INSTRUMENT SIGNAL TO REQUIREMENTS OF COMPUTER ADC.,
2-STAGE GERMANIUM DETECTOR AMP. USING LOW-NOISE OA.S, INCLUDING TRANSCONDUCTANCE AMP., & VOLT
FAST HV. SWITCH TO RAMP PMT. HV. SUPPLY/PHOTOTUBE BASE FOR PHOTOMULTIPLIER/P-N PHOTODIODE CCT
FAST INPUT PREAMP./DISCRIMINATOR USING ECL. COMPARATORS/TAC./TAC. OUTPUT BUFFER USING HIGH-SPEE
2 SPECTROSCOPY AMP.S INCLUDING POLE-ZERO CANCELLATION, GAIN, PULSE-FORM FILTER, & FINE GAIN & BU
DISPLAY CONTROLLER USING 14 IC'S TO DISPLAY ALPHANUMERIC CHARACTERS ON CRT. DISPLAY, ACCEPTING
TEST SET-UP TO PERFORM HIGH-SPEED TEST PROCEDURES ON TRIQUINT SEMICONDUCTOR GAAS. PIN DRIVER
2 STAGE 14W, 900MHZ-950MHZ AMP. USING INEXPENSIVE 800MHZ 3W & 15W TRANSISTORS, WITH GAIN OF 14.5DB
2-STAGE RF. AMP. WHOSE OUTPUT AMP. WORKS INTO 50OHM LOAD, OPERATING AT 90MHZ WITH POWER GAIN C
PUSH-PULL AMP. THAT PROVIDES 150W AT 400MHZ USING MOSFET. WITH TYPICAL POWER GAIN OF 14DB & DRA
2-STAGE (DRIVER & FINAL) CLASS-C 435MHZ 45W UHF. RF. AMP., WITH <2W INPUT, USING STRIPLINE & COMPRES
UPS. (POWER INVERTER) (BACKUP AC. PS. TO BE USED IN CASE OF POWER FAILURE) THAT OPERATES FROM 12V
MOSFET. DRIVING CCT/PWM. BUFFER CONTROL/CURRENT CONTROL CCT/FREQUENCY LOCK CCT/OVER-CURREN
2 STAGE VOLTAGE MULTIPLYING UV. LAMP TRIGGER CCT USING HV., TO SUPPLY HV. PULSE TO START LAMP, US
FAST SWITCHING CCT TO PULSE DEFLECTION PLATE VOLTAGE TO 0, IN ORDER TO SEND BURST OF IONS THROU
TEST CCT FOR POWER MOSFET. SEU (SINGLE-EVENT UPSET) BURNOUT TESTS/CCT TO SHOW EFFECT OF GATE
MOSFET. PULSER CONSISTING OF POWER MOSFET. DRIVEN BY AVALANCHE TRANSISTOR, TO GENERATE PULSE
2-STAGE ZERO-CURRENT SWITCHING QUASIRESONANT CONVERTOR (ZCS-QRC) CONSISTING OF BUCK TYPE FU
MUSIC SYNTHESIZER THAT PLAYS 256-NOTE PASSAGE INCLUDING 4096 VARIATIONS, USING PROGRAMMABLE TI
3-STAGE HV. BIPOLAR PULSE GENERATOR FOR TESTING OF SEMICONDUCTOR DEVICES/TRANSISTOR GATE DRIV
ZVS (ZERO VOLTAGE SWITCHING) PWM. RESONANT CONVERTER THAT PROVIDES 28V OUTPUT VOLTAGE WITH 2
MOSFET. BRIDGE AMP. SUITABLE FOR OPERATION FROM 12V CAR BATTERY, & CAPABLE OF PROVIDING 12W INT
MASTHEAD AMP. USING MICROWAVE TRANSISTORS, TO UPGRADE SIGNAL TO NOISE OF VHF.-UHF. TV. & RADIO I
NRS (NONLINEAR RESONANT-SWITCH) POWER SWITCH OF BOOST CONVERTER
PUSH-PULL POWER CONVERTER CCT USING MOSFET.S, TO CONVERT DC. POWER TO AC. & BACK TO DC. FOR SU
MUSICAL TONE SEQUENCE GENERATOR USING VCO. & PROGRAMMABLE TIMER/SIMPLE IR. TONE TRANSMISSIO
EASY-TO-BUILD DIGITAL DWELL-TACHOMETER
MOSFET. GATE DRIVE CCT INCORPORATING NATIONAL SEMICONDUCTOR DRIVER IC WITH RISE TIME OF 15NS, W
BUS TERMINATION FOR TRAPEZOIDAL BUS TRANSCEIVER USING HIGH SPEED LINEAR CCT WITH ONCHIP CAPAC
BUS ACCESS UNIT (BAU) OF NETWORK PORT, THAT EXECUTES ARBITRATION ALGORITHM, & GENERATES & SYN
EASY-TO-BUILD AUDIO AMP. WITH APPLICATIONS FROM AUDIO AMPLIFICATION TO TROUBLESHOOTING
CASCODE CCT USING JFET. CASCODED WITH BIPOLAR TRANSISTOR, INCLUDING 1.5V BATTERY TO BIAS CASCOD
MOSFET. GATE-CHARGE FACTOR TEST CCT
SYSTEM INCLUDING CPU. (UP.) WITH 32-BIT REGISTERS & DATA PATHS, SEPARATE MMU (MEMORY-MANAGEMENT)
DISTRIBUTED PS. THAT PROVIDES UP TO 8 CHANNELS OF ISOLATED POWER SYSTEM/RIGHT LEG DRIVEN ECG. A
MUSIC-SYNTHESIZING CCTS USING MELODY SYNTHESIZER, TO DRIVE 8OHM SPEAKER OR PIEZO-ELECTRIC TRANSDUCER
DISPLAY SECTION OF CONTROL UNIT
AFSK. MODULATOR FOR USE WITH TELEFAX MACHINE
EASY-TO-BUILD FLOOD ALARM

MUSIC-ON-HOLD BOX USING SINGLE-MELODY CHIP, 2 TRANSISTORS (INCLUDING N-CHANNEL MOSFET.) THAT CO
SYSTEM DESIGNED AROUND NS16000 UP. FAMILY, USING FLOATING-POINT SLAVE THAT PERFORMS 32-BIT FLOA
FAST, PRECISION FULL-WAVE RECTIFIER USING TRANSISTORS IN COMMON-EMITTER AMP. & COMMON-BASE CO
FAST NEGATIVE PULSE AMP. WITH OUTPUT VARIABLE FROM 0 TO -200V/INTERFACE FOR PROGRAMMBLE TIME D
MOSFET. AUDIO POWER AMP./BIPOLAR POWER AMP. USING MOSFET.S/QUASI-COMPLEMENTARY AMP./HIGH-QUA
QRS FILTER & R-WAVE DETECTOR, CONSISTING OF ANTIALIASING, LOW-PASS, HIGH-PASS & CLOCK RESIDUE FIL
TESTING CCT OF POWER SIT (STATIC INDUCTION TRANSISTOR), INCLUDING HF. SHUNTS
MUSCLE STIMULATOR USED TO DELIVER ELECTRICAL STIMULATION, ACTING AS INTERFACE BETWEEN COMPUT
TEST CCT INCLUDING DC.-DC. CONVERTER BASED ON POWER DARLINGTON TRANSISTOR, & BASE DRIVER, FITT
LASER DIODE INTRACAVITY SPECTROPHOTOMETER INCLUDING VARIABLE PS., DVM., LASER DIODE & DRIVE CCT
TEST CCT FOR AVALANCHE TRANSISTOR/DELAY-LINE PULSE GENERATORS (2)/HIGH-CURRENT PULSE GENERAT
POSITIVE OUTPUT VIRTUAL GROUND SENSING CCT/CCT USING CURRENT MODE CONTROLLER FOR 1-TRANSISTO
BASIC POWER-INVERTER CCT BASED ON CLASS E AMP. USING GTO. WITH ANTI-PARALLEL DIODE AS SWITCH/TY
RMS.-DC. CONVERTER/THERMAL-RESISTANCE TESTER/SERVOAMP. CCT/BUFFER CCTS (3)/AGC. CCT (RF. LEVEL
PUSH-PULL ATF CCT/SINGLE-ENDED AATF (AMP. WITH AUTOTRANSFORMER FEEDBACK) CCT/AATF WITH POSITIV
TEST CCT USING SWITCHED-CAPACITOR, 5TH-ORDER LPF. IC, WITH 1KHZ CUTOFF FREQUENCY/CCT TO REMOVE
POSITIVE BOOST SWITCHER WITH 12V IN & 24V OUT/POSITIVE TO NEGATIVE BUCK-BOOST CONVERTER WITH +12
RESONATOR CONTROLLER
TEST CCT
FAST, BALANCED SCHMITT TRIGGER
BASIC FLYBACK SUPPLY THAT CONVERTS 5V INPUT TO 12V OUTPUT/FLYBACK SUPPLY FOR TELECOMMUNICATIO
MOSFET.-GATE DRIVER IN WHICH POWER MOSFET. IS CONTROLLED BY TRANSFORMER-ISOLATED 1MHZ CARRIE
POSITIVE BUCK-BOOST CONVERTER (15 TO 35V TO 28V) USING LINEAR TECHNOLOGY SWITCHING REGULATOR/C
TEST CCT USING BRIDGE-TYPE NETWORK & FALSE-SUMMING-NODE TECHNIQUE TO MEASURE AMP. SETTLING T
BASIC 1553B CONFIGURATION
3-STATE INVERTER CCT WITH 2 SERIES-CONNECTED RTD'S (RESONANT TUNNELLING DIODES)/3-STATE 2 INPUT
SYSTEM USING AVP-1000 VIDEO CODEC (CODER-DECODER) CHIP SET INCLUDING CONTROLLER IC, DECODER CH
TEST CCT TO ACCURATELY MEASURE SWITCHING TIME OF POWER MOSFET., INCLUDING MERCURY REED RELAY
BASIC FET. 300W BROADBAND 3-30MHZ LINEAR AMP./OUTPUT STAGE OF 146MHZ 300W AMP.
TEST FIXTURES USING VMOS. FET. (MOSFET.), FOR 100MHZ & 175MHZ CLASS C OPERATION, WITH GAIN OF 17DB
TEST CCT USING ECL. CLOCK OSCILLATOR THAT FEATURES UHF./ECL. CRYSTAL OSCILLATORS USING PLUS & M
DISCHARGE CCT THAT IS RUN AT 8KHZ WITH SUPPLY VOLTAGE OF 7KV, USING THYRATRON
TEST CCT CONSISTING OF PRIMARY CHARGING CCT, 1:12 STEP-UP TRANSFORMER & OUTPUT CCT CONTAINING
TEST CCT USING MICROTRANSMITTER COMPRISING SAW. RESONATOR, OSCILLATOR ACTIVE COMPONENTS, KE
DISK CONTROLLER BASED ON BIT-STREAM MANAGEMENT CHIPS
DISPLAY MODULE FOR HOME COMPUTER TO PROVIDE VIDEOTEXT DISPLAY, WITH RGB. & TV. SYNC VIDEO OUTP
DISCHARGE EXCITATION (HIGH REPETITION RATE THYRATRON PULSER PRE-IONIZATION) SYSTEM TO GENERATE
Q-SWITCHING CCT
TRS-80 PORT DECODER/CCT TO CONTROL 2 RELAYS UNDER PROGRAM CONTROL/SERIAL-COMMUNICATION INTE
MUSICAL TELEPHONE RINGER THAT LETS TELEPHONE PLAY ANY 1 OF 26 POPULAR TUNES
MUSICAL DOORBELL CCT USING MELODY-SYNTHESIZER CHIP THAT IS PROGRAMMED TO PLAY 25 MELODIES & 3
LASER DISCHARGE CCT INCLUDING UV. PREIONIZATION, CONSISTING OF LC. INVERSION GENERATOR, USING TH
CCTS USING CLAMPING COMPARATORS, TO GENERATE CONTROL SIGNALS FOR MUX.S & MOS. ANALOG SWITCH
CCT CONSISTING OF TRANZORB TRANSIENT SUPPRESSORS & PTC. RESISTORS ADDED TO RS-232C PORT, TO PR
AUTHOR'S VERSION OF K-111 POWER PACK USING TUBE HOOKED UP AS FULL-WAVE RECTIFIER, TO POWER PIL
CCT TO GENERATE RESET PULSE WHEN CCT IS POWERED UP, ON DEMAND BY EXTERNAL CCT OR BY PRESSING
CCT TO PROGRAM 2732 EPROM. AS 2 SEPARATE 2K-BYTE SEGMENTS
INTERFACE BETWEEN 8088 UP. OPERATING IN MINIMUM MODE, & 16KBIT EEPROM.
CCT USING UP., TO MONITOR WHEEL MOTION ON VEHICLES WITH ELECTRIC WHEEL MOTORS

CCT USING 8031 THAT HAS 8KBYTES OF EXTERNAL MEMORY, USING ONLY 13 ADDRESS LINES, WITH A13, A14, & A15. CCT INCLUDING GLUE LOGIC TO INTERFACE MICROCONTROLLER (UC) TO DUAL-PORT RAM., TO ALLOW UC TO REPROGRAM CCT TO ADAPT 16-BIT-BUS INTEL 80386SX UP. TO IBM PC.-AT CHIP SETS, USING PAL. DEVICE & OCTAL LATCHES TO ADAPT CCT TO COMPUTE CHECKSUM BYTES FOR FASTER DATA TRANSFER, USING PLA. (BBB)

CCT USED FOR SIGNAL ANALYSIS TO ACHIEVE ESTIMATION OF MEAN & FLUCTUATING VELOCITIES IN LIQUID METALS. CCT TO GENERATE PRECISION RAMP & TRIANGULAR WAVEFORMS WITH LOW OFFSET & OFFSET DRIFT, USING INTEL 8031. CCT SHOWING SIGNALS GENERATED BY 8088 CPU., 8284 CLOCK GENERATOR & 8288 BUS CONTROLLER (BBB)

CCT TO ALLOW CPU. (UP.) TO OPERATE WITH ITS RAM.'S INITIAL ADDRESS AT 0000\HEX, USING SHIFT REGISTER TO ADAPT CCT TO PRODUCE PULSE DELAY UP TO MAXIMUM OF NEARLY WHOLE PERIOD OF INPUT WAVEFORM, USING QUADRANT DRIVER INTEL UP. BASED THERMAL PREDICTION DEVICE FOR INDUCTION MOTORS, INCLUDING ADC., TIMER, ROM. & KEYBOARD. CCT USING CURRENT FOLLOWER & RESETTABLE ANALOG INTEGRATOR USING OA. & BILATERAL SWITCH, FOR NUCLEAR MEASUREMENTS. CCT USING ANALOGUE SWITCH IC THAT DERIVES +5V FOR VDD & -5V FOR VSS SUPPLIES NEEDED FOR SWITCHING. CCT FOR INTERFACE TO CONNECT BUBBLE-MEMORY CONTROLLER WITH UP./POWER-FAIL CCT TO MONITOR 12 & 5V SUPPLIES. CCT ALLOWING ENCODER FOR 4X4-MATRIX KEYBOARD TO DETECT WHICH KEY IN 4X8 MATRIX HAS BEEN PRESSED. WATT-HOUR METER CONSISTING OF 3 PHASE ELECTRIC MULTIPLIER (PULSE WIDTH-PULSE HEIGHT MODULATOR) & 3 DIGIT DISPLAY. CCT USING STANDARD MICROSYSTEMS 24-PIN ARCNET CONTROLLER CHIP INTERFACED WITH INTEL 8051 UP. (P) CCT SHOWING INTERFACING OF PROGRAMMABLE COUNTERS WITH 8085 UP. KIT (BBB)

INTERFACE CCT THAT CONNECTS MICROCOMPUTER DEVELOPMENT BOARD TO IC UNDER TEST (ICUT), FOR STATEMENT OF WORK. CCT TO ADAPT 8080A UP. TO MEET SPECIFICATIONS OF MICROBUS/CCT TO MAKE ADC. COMPATIBLE WITH MICROCOMPUTER. CCT FOR INTERFACING SERIAL-TO-PARALLEL CONVERTER WITH MICROCOMPUTER, INCLUDING IO. PORTS & CPU. BUS. INTEL 8085-A MICROCOMPUTER SYSTEM INCLUDING, UP., 2KB EPROM., 2KB ROM. HOLDING MONITOR & APPLICATIONS. INTEL UP. BASED MICROCOMPUTER UNIT WITH SERIAL IO. INTERFACE, INCLUDING PPI.S, ROM., RWM, 8 BIT REGISTER. AUTOMATIC SCANNING ARRANGEMENT FOR STUDY OF ELECTROMIGRATION IN THIN FILMS, INCLUDING CPU., IO. PORTS, & MEMORY. PETROL PUMP SYSTEM USING MCS48 SERIES SINGLE COMPONENT MICROCOMPUTER PROVIDING 8-BIT CPU., MEMORY, & DISPLAY. INTEL UP. CONTROLLED STEPPER MOTOR DRIVEN X-Y STAGE SCANNING SYSTEM INCLUDING CPU., RAM.-PORTS, & DISPLAY. INTERFACE FOR VOLTAGE MONITORING BY UP. OR ANALOGUE VOLTMETER TO INDICATE RMS. OR DC., WITH AUTOMATIC RANGE. CCT TO ADD VIDEO-SYNC SEPARATOR & DELAYED-TRIGGER CAPABILITY TO OSCILLOSCOPE. CCT SHOWING DATA BUS LINES (BBB)

CCT TO HANDLE 4 DIGITS WITH ENCODER CCT/DIGIT SELECTOR & 4-DIGIT LED. DISPLAY CONNECTED TO BCD. KEYBOARD. CCT TO GENERATE WAIT STATES FOR 8085A UP., USING DUAL D FF./CCT TO GENERATE VARIABLE NUMBER OF WAIT STATES. CCT OF PULSE DRIVER, CONDUCTANCE CELL & AMP. FOR VOLTAGE PULSE MODE, USING FAST, HIGH-OUTPUT-CAPABILITY. CCT THAT PROVIDES ALTERNATIVE TO BCD. (THUMB-WHEEL) SWITCH, USING 12-POSITION ROTARY SWITCH, CMOS. CCT THAT CAN BE USED AS A FREQUENCY MULTIPLIER WITH UP TO 500KHZ INPUT

CCT USING 8086, 8087, & 8088/CCT USING 8086, 8087 & 8288/(BBB)

CCT TO HELP REDUCE HAND FATIGUE & DISCOMFORT WHEN USING COMPUTER JOYSTICKS OR GAME PADDLES. CCT FOR CONTROL FUNCTIONS, USING AIM 65, USING BCD.-DECIMAL DECODER, ALLOWING UP TO 10 OPERATIONS. CCT THAT MULTIPLIES BY 1000, TO COUNT FREQUENCIES FROM 350 TO 800HZ WITH RESOLUTION OF 0.5HZ

CCT FOR 1 CHANNEL OF TOUCH-SWITCH (CAPACITIVELY COUPLED OSCILLATOR & LEVEL DETECTOR), SENSITIVE TO TOUCH. CCT TO PRODUCE 82S DELAY USING COUNTER TO COUNT MAINS PULSES, & LATCH

CCT SHOWING INTEL'S 2-CHIP IAPX 86-30 (88-30) OS. PROCESSOR CONTAINING UP. & FIRMWARE IC CONTAINING UP. CCT TO MULTIPLY FREQUENCY BY 10, INCLUDING INPUT AMP.-BUFFER, RESET PULSE SHAPER, COUNTER, INTELLIGENT. CCT FOR MEASUREMENT OF MEMBRANE CAPACITANCE & CONDUCTANCE, USING TELEDYNE PHILBRICK OA.S, W/INTEGRATED. OPTICAL TRIGGER CCT IN WHICH BREAKING 1 OF 2 LIGHT BEAMS STARTS CLOCK & NEXT BREAK STOPS CLOCK, CCT SHOWING PRINTED CCT BUG FOUND IN DATA RATE SELECTION SWITCH SECTION, IN TESTING OUT PROCESSOR. MATCHED PAIR FET. & IC OA./UNITY GAIN HIGH INPUT IMPEDANCE AMP. TO BE ATTACHED BETWEEN ELECTRODE & MEASUREMENT. CCT USING SYSTEM MEMORY & ADDRESS CONTROLLER TO INTERFACE UP.S & PC.-AT BUS/SIMILAR CCT FOR LOGGING. CCT THAT GIVES OUTPUT FREQUENCY 600 TIMES INPUT FREQUENCY FOR LF. INPUTS, WITH FACTOR SET BY 3 DIGIT. DATA LOGGER INCLUDING MICROCONTROLLER, LATCH, MEMORY, RESET CCT, ADC., RTC. & RS-232 INTERFACE/PC. CCT SHOWING MAJOR SIGNAL PATHS USED BY SIGNAL ACQUISITION ROUTINES, INCLUDING LABMASTER BOARD

CCT USING B SERIES CMOS. GATE AS RECEIVER FOR RS-232C DATA-LINK SIGNALS, EXPLOITING GATE'S INPUT-F
ARTERIAL PHOTO PULSE DETECTOR SYSTEM CONSISTING OF TRANSDUCER, ANALAGUE SWITCH, 3KHZ PULSE C
CCT FOR SETUP TO MEASURE CMR. OF HIGH-SPEED DIFFERENTIAL ECL. LINE RECEIVER THAT CAN BE USED AS
INTERFACE THAT, WITH BASIC PROGRAM, ALLOWS COMMODORE 64 (C-64) HOME COMPUTER TO SERVE AS DATA
CCT SHOWING APU (ARITHMETIC PROCESSING UNIT) INTERFACED TO INTEL HOST UP./MULTIMICROPROCESSOR
CCT TO GENERATE 5V PULSE TRAIN OF PRF UP TO 2KHZ WITH MARK-SPACE RATIO ADJUSTABLE IN 0.0001 STEP
CCT SHOWING 1 OF 8 IDENTICAL TRANSISTOR AMP. STAGES
CCT THAT DELIVERS PENETRATING HARMLESS HV. ELECTRIC SHOCK TO INTRUDING ANIMALS
INTEGRATING RATIOMETER INCLUDING NUMERATOR & DENOMINATOR CCTS USING IA.S & ABSOLUTE VALUE CC
CCT TO TRANSLATE LF. DIGITAL SIGNALS TO HIGHER FREQUENCY (F\IN X 3600), WITH MULTIPLICATION FACTOR
CCT TO REPLACE AMP.'S 4-WAY SWITCHES TO CHANGE INPUT SOURCE TO AMP., USING CMOS. ANALOGUE SWIT
CCT THAT ADDS WINDOW (WHOSE SIZE IS DETERMINED BY AMOUNT OF DITHER SIGNAL MAY HAVE & STILL BE V
2-TUBE SW. RECEIVER/TRANSMITTER (MODULATED OSCILLATOR) PROVIDING 15W CARRIER, WITH PASSABLE ST
CCT USING CMOS. SCHMITT-TRIGGER GATE TO GENERATE "WATCHDOG RESET" FUNCTION FOR UP./SUPERVISOR
AUTODIALER USING DIGITAL TONE GENERATOR CHIP
CCT TO GENERATE 31-BIT MAXIMAL-LENGTH CODE, USING HIGH-SPEED GAAS.-BASED SHIFT REGISTER OPERAT
CCT TO PROVIDE BREAK-BEFORE-MAKE CHARACTERISTIC NECESSARY TO MAKE SWITCHED CAPACITOR FILTER
CCT TO PRODUCE EERIE SOUNDS THAT LEND CHILLING EFFECT TO HORROR MOVIES, USING PLL., & HF. OSCILL
CCT TO GENERATE X 1ST-LEVEL TRIGGER DECISION IN PARTITION X MODULE, USING ECL. AND FOR INPUTS/2ND
CCT TO FORCE 8080A UP. (CPU.) TO ENTER ADJUSTABLE WAIT STATE WHEN ADDRESSING SLOW MEMORIES, BY
CCT USING COMMON RS-232 DRIVER AS LEVEL SHIFTER BETWEEN 5V LOGIC & DARLINGTON-PAIR DRIVER REFER
DATA LOGGER CONSISTING OF MICROCONTROLLER, ADC. & BATTERY-BACKED RTC./PIT./VERY LOW POWER FIX
CCT CONSISTING OF TIMER WITH RANGE OF <1S TO SEVERAL 10'S OF HOURS, & THYRISTOR-BASED INTERFACE
AUTOMATIC PORCH-LIGHT CONTROL CCT THAT HOLDS TRIAC ON UNTIL DIVIDER COUNTS NUMBER OF 60HZ POW
CCT THAT ALLOWS 1 ACTUATOR TO EXECUTE 1 REVOLUTION OF GEARHEAD MOTOR'S OUTPUT SHAFT WHEN PC
CCT THAT SENSES TNC. SIGNALS, USING INFORMATION TO ADJUST POWER OUTPUT OF TRANSMITTER, FOR USE
CCT TO DEBOUNCE SWITCH & TRANSFORM MOMENTARY SWITCH INTO ALTERNATE ACTION SWITCH, USING CMOS
CCT THAT GIVES 4017 RESET OPERATION THAT IS SYNCHRONOUS & LOCKED TO INPUT CLOCK
CCT OFFERING INDEPENDENT CONTROL OF INITIAL DELAY & PULSE RATE FOR 'RAPID FIRE' FACILITY ON JOYSTI
CCT CONTROLLED BY LDR. TO LIGHT HOUSE NUMBER USING SOLAR-CELL ARRAY
CCT USING PAL. & PIC., TO TRANSFORM 10 OTHERWISE INVALID OP CODES INTO USEFUL INTERRUPTS FOR 8085
CCT TO OPERATE FIGARO LOW LEVEL CARBON MONOXIDE (CO) SENSOR (MONITORING CCT)
CCT TO CONTROL CURRENT SUPPLIED TO SOLDERING TRANSFORMER, & DURATION OF CURRENT, IN NUMBER C
CCT TO DEMONSTRATE USE OF ELECTRONICALLY LATCHED SWITCHING OF 8 SIGNALS
CCT USING 3 4-BIT MUX.S TO ADD DRAM.-REFRESH CAPABILITY TO 8051 UC SYSTEM, EXPANDING DATA-CODE M
CCT TO MONITOR 6 INCOMING TELEPHONE LINES, DETECT BELL-RINGING VOLTAGES >3V AC. ON ANY LINE, ILLU
DETECTOR CCT FOR PYROMETER CHANNEL, USING HP PIN SILICON PHOTODIODE REVERSE BIASED AT 10V & SE
LATCHING TOUCH SWITCH/CCTS TO DIGITALLY CONTROL RESISTANCE, CAPACITANCE, OA. GAIN, TIMER FREQUE
CCT TO TEST MEMORIES, CONSISTING OF CPU. WITH MEMORY CAPACITY OF 20KBYTE EPROM. & 8KBYTE RAM.,
AUTOMATIC SIGNAL SELECTOR THAT FINDS OUT MAXIMUM OR MINIMUM AMONG 3 INPUTS & TAKES IT AS OUTPU
CCT TO INTERFACE UP. WITH SYNCHRONOUS PERIPHERAL CHIP/HALF-DUPLEX SERIAL COMMUNICATION INTERP
CCT TO COUNT TO 1-DIGIT NUMBER & HALT/CCT TO COUNT TO 25 (BBB)/CAR-BATTERY VOLTAGE CHECKER/CCT
CCT TO CONTROL & SUSTAIN OSCILLATORY MOTION IN PENDULUM, USING HALL-EFFECT SENSORS TO DETECT
CCT USING 4 XNOR GATES, THAT DOUBLES FREQUENCY OF SIGNAL APPLIED TO IT, GENERATING PULSE FOR EV
CCT THAT USES TELEPHONE BELL SIGNAL TO ACTUATE RC. OSCILLATOR (BASED ON SCHMITT TRIGGER) THAT D
CCT USING PLL., WHOSE VCO. BASE FREQUENCY IS SET AT 504KHZ (HORIZONTAL SCAN RATE (15750HZ) MULTIP
CCT SHOWING HOW 1 8-BIT PORT DRIVES 5 DISPLAYS, EACH WITH ARBITRARY NUMBER OF DIGITS (BBB)
CCT TO MEASURE DIRECTLY MAXIMUM POWER OUTPUT FROM SOLAR CELL & VOLTAGE AT WHICH IT IS OBTAIN
CCT TO PRODUCE PULSE OF EQUAL WIDTH TO GIVEN PULSE, BUT DELAYED SO AS TO COMMENCE IMMEDIATELY

CCT TO MEASURE CONTRACTION TIME IN MUSCLE MECHANICS, INCLUDING TRIGGER CCT, DETECTOR CCT CON
CCT USING BILATERAL SWITCH, TO DETERMINE WHETHER 2 SINE WAVES ARE IN QUADRATURE, GENERATING D
INTERFACE HARDWARE FOR AUTOMATIC DIGITAL IC TESTER, TO TEST IC HAVING 24 PINS OR LESS, INCLUDING C
CCT TO IMPROVE PERFORMANCE OF CASCADED FIFO.S/CCTS SHOWING COMPUTER TO PERIPHERAL PATH OF I
OPTO-ISOLATOR CCTS OF CCT SHOWING CONTROL & DATA LINES BETWEEN COUNTER, UP. & TELETYPE PRINTE
MOTHERBOARD OF ORIGINAL IBM PC., INCLUDING MAIN PROCESSOR, ROM., RAM., ADDRESS & DATA BUFFERS, I
CCT USING 8031 MICROCONTROLLER THAT EXECUTES PROGRAM STORED IN EPROM., INCLUDING OCTAL LATCH
CCT THAT ALLOWS ADDITION OF ANOTHER, REMOTE KEYBOARD TO COMPUTER, USING TRIPLE CMOS. SPDT. SV
CCT SHOWING TRANSDUCER-PET INTERFACING/TRANSDUCER-PET INTERFACE/CCTS SHOWING MOD.S (2)
CCT TO CONTROL ROUTING OF IO. READ & WRITE SIGNALS TO PREVENT BUS CONTENTION (BBB)
CCT USING FREQUENCY DIVIDERS & WEIGHTED RESISTOR NETWORK TO GENERATE SINE & COSINE WAVEFORM
CCT TO DIVIDE PULSE TRAIN BY NON-INTEGGER VALUE, WHERE PERIOD OF INPUT PULSES IS UNEVEN
CCT THAT PUTS 80C48 UP. INTO ITS LOW-POWER STANDBY MODE IN ORDERLY MANNER
CUTE CCT OF 2 BLINKING LED.S
CCT TO CONTROL VALVE TO ENABLE ENTRY OF PRESSURED AIR INTO CYLINDER OF PRESS/HALL EFFECT SWITC
CCT TO DIVIDE CLOCK SIGNAL BY 1 OR 2, USING DIODE & RESISTOR TO ELIMINATE GATES/DIVIDER CCTS WITH F
CCT OF CPU. WITH ITS NUMERIC & IO. COPROCESSORS & LANGUAGE COPROCESSOR (BBB)
CCT THAT PROVIDES BETWEEN 1 & 16 PULSES FOR EACH SLOT PASSING SENSORS, DEPENDING ON DISC'S SPE
CCT TO ADD LIGHTING EFFECT (CHASE LIGHTS) TO DISPLAY PHOTOS IN FLICKERING FRAME, USING HEX INVERT
CCT SHOWING MOD. TO UP. SYSTEM'S CS. CCT, TO ALLOW 80C32 UP. TO ACCESS BASIC INTERPRETER IN EPRO
INTERFACE CCTS OF SINGLE CHIP COMPUTER, INCLUDING ADC., EPROM. & SERIAL DISPLAY CCT (BBB)/CONTRO
CCT SHOWING BASIC OPERATION OF SPARK-EROSION CUTTER/SERVO SYSTEM TO CONTROL ELECTRIC MOTOR
CCT TO DRIVE DRAM.S, USING 3-STATEABLE LATCH FOR ADDRESS BUS & 3-STATEABLE TRANSCEIVER FOR DAT
DATA ACQUISITION MODULE OF DAS. TO MONITOR CATTLE TEMPERATURES FOR PERIODS OF 7 TO 14 DAYS, US
CCT ALLOWING WORKING OF "2M" TRANSCEIVER TO BE RESTRICTED BETWEEN 2 PRESET VALUES CORRESPON
GATED WIDE-RANGE VCO./GATED "RING-OF-3" ASTABLE/SEMI-LATCHING ("NOISELESS") ASTABLE/OSCILLATOR
CCT TO REDUCE CLOCK FREQUENCY OF UP. & REDUCE RADIATED NOISE DURING RF. MEASUREMENTS (BBB)
CCT THAT PROVIDES ELECTRONIC CONTROL FOR ORDINARY DOOR CHIME
CCT THAT LETS YOU KNOW IF UNAUTHORIZED PERSON HAS USED ANY LINE-POWERED ELECTRICAL MACHINE
CCT FOR TESTING SIMPLER CMOS. IC'S IN UP TO 16-PIN PACKAGES
CCT CORRECTION TO ARTICLE CONCERNING LATCHING CONTINUITY TESTER (RAEL8611)
CCT TO PRODUCE 1KHZ TONE & LIGHT LED. WHEN PHOTOGATE BEAM IS INTERRUPTED, USING CMOS. QUAD NAND
CCT TO PROVIDE PROGRAMMABLE, PSEUDORANDOM LIGHTING, TO DETER BURGLARS (BBB)/PS., & COUNTER &
1-TRANSISTOR CONVERTER STAGE INCLUDING PIERCE OSCILLATOR & MIXER/1-MOSFET. CONVERTER INCLUDIN
CCT FOR TEMPERATURE MEASURING (SENSING) SETUP, INCLUDING AMP. & 4-WIRE PROBE IN "BROKEN" BRIDGE
CCT CONTAINING 14-STAGE BINARY SCALER & OSCILLATOR, TO TEST CRYSTAL ACOUSTICALLY BY SCALING ITS
CCT CONTAINING OSCILLATOR THAT CHOPS DRIVE TO RELAY WHEN RELAY IS SOLIDLY ON, REDUCING HOLDING
CCT TO ELIMINATE THUMBWHEEL RANGE SWITCHING IN UP CONVERTING RECEIVER (QST8112)
CCT TO SYNCHRONIZE RESET WITH APPEARANCE OF M1 SIGNAL, & ALLOW RESET DONE BY MANUAL SWITCH OF
RATIO TRANSFORMER BRIDGE (CAPACITANCE BRIDGE CCT) INCLUDING NULL DETECTOR/INTEGRATOR & HV. AM
CCT TO CONTROL REVERSIBLE MOTOR, USING MONOSTABLE MULTIVIBRATOR, HEX NONINVERTING BUFFER, QU
CCT SHOWING ELECTRICAL COMPONENTS OF ROBOTIC DEVICE FOR AUTOMATIC MONITORING OF ANALYSIS PR
CCT TO SWITCH 3 GROUPS OF LAMPS, INCLUDING AUTOMATIC-MANUAL CONTROL CCT (USING OPTOISOLATORS
CCT TO ACTIVATE NITINOL WIRE, USING QUAD NAND GATE CONFIGURED AS SQUAREWAVE GENERATOR, & MOS
CCT RELATING TO MEMORY MANAGEMENT
CCT TO HAVE UP. SHUT ITSELF DOWN & REMAIN SO EVEN WHEN SUPPLY VOLTAGE GOES LOW
CCT SHOWING LINEAR OPERATION OF 4007 MOSFET./CCT SHOWING LINEAR OPERATION OF INVERTER
CCT TO DELETE SEQUENCE OF WHOLE OR HALF CYCLES FROM LINE VOLTAGE, ACCORDING TO 7-CYCLE PATTE
CCT TO TRANSLATE LF. DIGITAL SIGNALS TO HIGHER FREQUENCY (MULTIPLY FREQUENCY FROM 8 TO 1000 TIME

CCT TO PROVIDE SERIAL-OUTPUT PULSE TRAIN IN WHICH NUMBER OF PULSES EQUALS VALUE OF 8-BIT WORD
CCT TO COMPARE 2 PULSE WIDTHS, USING INVERTER, DUAL D FF. & PROGRAMMABLE UP-DOWN COUNTER, GIVING
CCT TO PROCESS SIGNALS FROM 2 PHOTOMULTIPLIERS (PM'S) OF SONGA, TO PUT SIGNALS FROM 2 PM'S IN AN
INTERFEROMETER PLATE SEPARATION SERVOCONTROL SYSTEM IN WHICH OPTICAL PLATE SEPARATION TRACKING
CCT USING BUFFERED LED.S AS OUTPUT INDICATORS/2-PHASE CLOCK (OSCILLATOR)/CCT TO DEBOUNCE 4 SWITCHES
CCT WITH FIXED GAIN OF 8, THAT AMPLIFIES DC. SIGNAL USING ANALOG SWITCHES & CHARGE-STORAGE (FLYING CAPACITOR)
CCT USING BINARY COUNTER WHOSE CLOCK INPUT IS FED WITH 504KHZ SIGNAL, & GATES TO DECODE COUNT
RETRIGGERABLE MONOSTABLE MULTIVIBRATOR/TTL.-COMPATIBLE ASTABLE USING BIPOLAR CRYSTAL OSCILLATOR
CCT THAT PRODUCES EITHER SINGLE PULSE, OR STRING OF PULSES IF SWITCH CLOSED FOR 10 CLOCK PULSES
INTERFACE WITH CRT.
CCT TO COLOR AUDIO COMING FROM AUDIO SYSTEM, WITH TREMOLO PRODUCED BY VARYING GAIN OF AMP., &
CCT USING PPI. CHIP TO STOP 82C85RH'S INTERNAL OSCILLATOR, TO FORCE 80C86RH UP. INTO LOW-POWER MODE
BATTERY POWERED SELF-CONTAINED KEYS WITH HIGH DEGREE OF ISOLATION BETWEEN TRANSMITTER KEYS
CCT USING TTL. LATCHES TO DEMUX. ADDRESS FROM BUS/CCT USING 7-SEGMENT DISPLAYS TO FOLLOW ADDRESS
CCT USING UP. FOR ON-BOARD PROCESSING FOR DISK CONTROLLER/CCT SHOWING SECTOR BUFFER/CCT SHOWING
CCT TO DEMONSTRATE NATURE OF INSTABILITIES IN TERMS OF MATHEMATICAL EQUATIONS & PROPRIOCEPTIVE
CCT THAT CAUSES ALARM (AUDIBLE WARNING DEVICE) TO GO OFF IF CONTINUITY OF LOOP CREATED BY WIRE
CCT FOR EXPERIMENTERS WITH P.R.B.S. GENERATORS, TO EVALUATE POSSIBLE FEEDBACK CONFIGURATIONS,
CCT TO DRIVE SMALL STEPPING MOTOR AT CONSTANT, ACCURATE SPEED, FORMING PART OF DRIVE PLATFORM
CCT SHOWING INTRA-BOARD CONNECTION OF HATHI-2 TRANSPUTER SYSTEM, INCLUDING 4 TRANSPUTERS, COORDINATING
LATCHING CONTINUITY TESTER THAT DETECTS INTERMITTENT & STEADY STATE OPENS & SHORTS
CCT FOR COMBINATION LOCK THAT USES POTENTIOMETER TO ENTER 4-DIGIT CODE (EXPANDABLE TO 8)
CCT THAT CONTROLS DC. MOTOR SPEED BY VARYING OSCILLATOR DUTY CYCLE
CCT WITH 3 4017'S ARRANGED TO SEQUENCE IN TURN & PROVIDE UP TO 25 OUTPUTS WITH MINIMUM GATING
CCT TO PROVIDE MICRO WITH 8 BIT SWITCH-EXTERNAL SIGNAL INPUT PORT
INTERFACE LOGIC/SINGLE WAIT STATE GENERATOR/INTERRUPT ACKNOWLEDGE CCT
LITTLE TRANSISTOR TESTER, WITH FEATURES LIKE COMMERCIAL MODELS
CCT USED TO SEQUENCE BINARY INFORMATION FROM KEYBOARD ENCODER
AUTOMATIC GARAGE-DOOR CLOSER
CCT USING INTEL UP. TO CONTROL PERIPHERAL ELECTRONICS & MAKE COMPUTATIONS, & TRANSCEIVER IC'S TO
CCT TO DETERMINE RATIO OF 2 FREQUENCIES, USING EQUALITY DETECTOR COMPRISING MANUAL SWITCHES &
CCT CONSISTING OF INTERCONNECTIONS & MOD.S TO ALLOW WB2OSZ TALKING FREQUENCY DISPLAY TO BE USED
INTERFACE CONSISTING OF INTEL PPI.S (PROGRAMMABLE IO. CHIPS) & TRISTATE BUFFERS, TO CONNECT DEVELOPER
CCT SHOWING DATA FLOW IN BLOCK BUFFER, INCLUDING MUX. LATCH, GATED LATCHES & 256X22 BIT RAM. (BATTERY
CCT USING SERIAL-TO-PARALLEL REGISTER LINKED TO SINGLE-CHIP UP.'S INTERNAL UART., ALLOWING SOFTWARE
CCT USING CHIP SET INCLUDING PAGE-INTERLEAVED MEMORY CONTROLLER, TO SPEED UP PC. AT MOTHERBOARD
CCT USING FET. O.A.S, TO EXTEND OPERATING CAPABILITIES OF SENSITIVITY & ZERO SHIFT CONTROLS OF STAN
CCT THAT ALLOWS MOMENTARY-ACTION, PUSH TO MAKE SWITCHES TO BE USED IN GANGED, LATCHING MODE
INTEL SDK-86 EVALUATION BOARD (SINGLE-BOARD, 8086-BASED COMPUTER) INCLUDING 16-BIT UP., PROGRAMMABLE
RATE-MULTIPLIER CCT USING SCHMITT TRIGGER AS OSCILLATOR WHOSE PULSES ARE COUNTED BY DECADE COUNTER
CCT TO GENERATE DTMF. TONES UNDER KEYBOARD OR PROGRAM CONTROL VIA DATA LINES FROM PARALLEL
DATALOG-R I SBC. CONSISTING OF MICROCONTROLLER WITH SIMPLE EXPANSION HEADER, INCLUDING RS-232-C
CCT TO DRIVE SMALL DC. MOTOR OVER WIDE RANGE OF SPEEDS WITHOUT STALLING BY CONTROLLING DUTY CYCLE
CCT TO PROTECT MOTOR BY MONITORING ITS SPEED (WITH AID OF REFLECTION SENSOR) & SWITCHING OFF MOTOR
CCT USING TRANSCEIVER CHIP TO INTERFACE 8031 MICROCONTROLLER'S SERIAL PORT TO RS-485 NETWORK/HUB
BATTERY WATCHDOG THAT TURNS ON CHARGER WHEN BATTERY VOLTAGE DROPS BELOW 11V & TURNS IT OFF
INTERFACE CCT FOR FREE-FALL TIMER, TO MEASURE ACCELERATION OF GRAVITY/INTERFACE CCT FOR TIMING
CCT THAT ALLOWS 1 SIMPLEX AUTOPATCH TO BE SHARED BY UP TO 16 UHF. TRANSCEIVERS, USING DTMF. DECODE
CCT TO ATTACH TIMER TO BATTERY-POWERED RADIO SO POWER WILL BE SHUT OFF AT CERTAIN TIME

CCT IN APPARATUS FOR DEMONSTRATING FLUCTUATIONS IN LIGHT BEAMS
CCT USED TO REDUCE OUTPUT OF FREE-RUNNING PHOTODIODE ARRAY TO SERIES OF "SNAPSHOTS" AT VARYING
CCT TO MUX. 4 Y SIGNAL CHANNELS INTO 1 SINGLE-CHANNEL OSCILLOSCOPE INPUT FOR SIMULTANEOUS DISPLAY
CCT THAT WILL NOT WORK RELIABLY WITH 80C521 PROCESSOR ALTHOUGH IT WILL WORK RELIABLY WITH HP IC
MONOSTABLE MULTIVIBRATOR/SIMPLE OSCILLATOR/CMOS. VCO./VFO. USING CMOS. PLL./CRYSTAL OSCILLATOR
CCTS USING CMOS. TO DEBOUNCE MECHANICAL SWITCH (3)
BATTERY-OPERATED ACCUMULATOR CCT TO COUNT CONTACT CLOSURES FOR HOST UP. THAT MUST POWER DOWN
AUTOMATIC KEYBOARD REPEAT/CONTACT DEBOUNCER/DIGITAL SINE-WAVE GENERATOR
CCT TO ADD VARIABLE CHARACTER SPACING TO K2BLA UNBUFFERED KEYBOARD
CCT USING SINGLE CMOS. IC TO ADD REPEAT FUNCTION TO ANY KEYBOARD BASED ON 2376 CONTROLLER
CCT USING NAND GATES TO DECODE 4 KEYS/DELAY CCT/KEYBOARD ENCODER USING DIODES/CCT USING PRIOR
CCT TO DETERMINE VARIATION IN MAXIMUM INPUT CLOCK FREQUENCY FOR RELIABLE OPERATION OF PIGGYBACK
DATA COLLECTION SYSTEM OF CONTRAPTION (GALILEO) THAT TEACHES BASICS OF ACCELERATION OF GRAVITY
CCT FOR MULTIPLE CONTESTANTS IN QUIZ PUSHING BUTTONS TO ENGAGE LAMP
CCT USING 3.5-DIGIT ADC., TO DIRECTLY MEASURE LENGTH OF TELECOMMUNICATION CABLES OF VARIOUS GAUGES
CCT THAT AVOIDS TIME LAG & UNNECESSARY VOLTAGE DROP & RESUMES OPERATES BY ITSELF AS SOON AS SIGNAL
INTERFACE CCT BETWEEN MX300-S RADIO & NASA HEADSET & TAPE RECORDER
CCT USING SRAM. IC, WITH 1 BANK OF SWITCHES TO SET ADDRESS TO BE OPERATED UPON, & ANOTHER TO SET
CCT USING 8 BIT VIDEO-SPEED FLASH ADC., DEMONSTRATING NON LINEAR RESPONSE/SAME DEMONSTRATING
EXTREMELY SIMPLE 4-ELEMENT 3RD-ORDER AUTONOMOUS CCT THAT EXHIBITS TORUS BREAKDOWN PHENOMENON
MOTION SENSOR CCT USING MINIATURE 4.5HZ VERTICAL GEOPHONE, FULL WAVE RECTIFIER & COMPARATOR, TO
INTERFACE TO CONVERT SERIAL SUBCODE DATA FROM PIONEER PD6010 DISC PLAYER TO FEED INTO UP.
DETECTOR CONSISTING OF SENSOR HEAD WITH AUDIBLE WARNING & PLATE-LIFTING FACILITIES, FOR USE IN CONTACT
CCT TO TRANSFER SERIAL DATA TO UP TO 3 REMOTE DAC.S USING 1 UART./SERIAL INTERFACE PERMITTING ADDRESS
CCT TO MAINTAIN SENSOR (SUBSTRATE) AT PROGRAMMABLE CONSTANT TEMPERATURE/ORGANIC FILM CONDUCTIVITY
AUTOMATIC POWER CONTROL CCT OF PLASMA-THERM HFP 5000D 5KW 27.12MHZ RF. ICP. POWER SYSTEM (PS.)
CCT TO PROVIDE THERMISTOR LINEARISATION, USING DC. BRIDGE CCT, COMPARATOR & MONOSTABLE MULTIVIBRATOR
CCT THAT ENSURE THAT SMALL LAMP COMES ON WHEN POWER FAILS
INTERFACE TO ADAPT GENERAL RADIO 1531-P2 FLASH DELAY TRIGGER TO OTHER FLASH UNITS, USING SCR., TO
CCT TO MAINTAIN SENSOR AT PROGRAMMABLE CONSTANT TEMPERATURE/TEMPERATURE CONTROL RESISTOR
CCT FOR ELECTRONICALLY OPERATING A SECURITY LOCK
CCT FOR 1 CHANNEL, USING ECL. PRESCALER IC'S (COUNTERS), FOR TIRUS (TIME INTERVAL READOUT USING SERIAL
CCT FOR DATA INPUT, INCLUDING INTEGRATOR, SH. & ADC./INPUT CONTROLLERS (2)/CCT USING PROGRAMMABLE
CCT USING O.A.S, TO IMPLEMENT CAPACITANCE MEASURING TECHNIQUE IN WHICH PHASE SHIFT BETWEEN VOLTAGE
AUTOMATIC AUDIO-OVERLOAD-SPEAKER-PROTECTION CCT TO PUT UPPER LIMIT ON DECIBEL LEVEL OF SYSTEM
CCT SHOWING 8 LOW-COST 1024X1 RAM.S & 2 TRANSMISSION GATE PACKAGES
CCT OF SILICON PHOTODIODE READOUT, EMPLOYING CHARGE-SENSITIVE PREAMP. & SHAPING AMP. WITH SHAPING
CCT FOR ENERGY CONTROL/CCT FOR ENERGY CONTROL, WITH ISOLATION & BETWEEN CONTROL-SIGNAL CCTS
CCT USING 3 MOV.S & 2 SMALL CHOKES ON HOT & NEUTRAL LEADS, TO PROTECT SYSTEM FROM VOLTAGE SPIKES
INTERFACE UNIT BASED ON ZCD. USING COMPARATOR, & VOLTAGE CONVERTER, FOR FREQUENCY MEASUREMENT
CCT TO ADD 1K BYTES OF PROGRAMMABLE MEMORY (EXPANSION MEMORY) TO SDK-85 COMPUTER BOARD (BBI-85)
CCT OF PULSED, MULTIFREQUENCY PHOTOPLETHYSMOGRAPH USING 3 LED.S/SH. AMP. ASSOCIATED WITH EACH
CCT WITH UNFILTERED VEL VOLTAGE IN, & FILTERED VELOCITY OUT
CCT SHOWING ELECTRICAL CONNECTIONS FOR LINEAR OUTPUT RATIO-METRIC HALL-EFFECT TRANSDUCER/MONOSTABLE
PMT. VOLTAGE DIVIDER FOR HAMAMATSU PMT. TO DETECT SCINTILLATIONS, & BUFFER PREAMP. TO WHICH SIGNAL
DETECTOR ELECTRONICS INCLUDING CHARGE-SENSITIVE PREAMP. USING O.A., & O.A. TO PROVIDE ADDITIONAL CHANNELS
CCT USING CMOS. RAM. TO LOAD SYSTEM STATUS INFORMATION IN 8085 SYSTEM IN EVENT OF POWER OUTAGE
CCT TO COMPRESS DATA IN NMR. IMAGING SYSTEM FROM 8 BITS TO 4 BITS, TO PRESENT IT TO DISPLAY SYSTEM
AUTOMATIC INITIATOR FOR MICROWAVE INDUCED PLASMAS, USING BENDIX POWER METER, TO MAINTAIN CONTACT

CCT TO MEASURE INCREMENTAL & ACCUMULATED CHARGE IN INCREMENTS OF 0.001 COULOMB TO TOTAL CHARGE
DETECTION SYSTEM USING 2 PHOTODIODES, WITH STAGES TO LINEARLY CONVERT ENERGY OF LIGHT PULSES
INTERFACE BETWEEN PHOTOMULTIPLIER SYSTEM & COMMODORE 64 USER PORT, INCLUDING PULSE RATE METER
CCT FOR MEASURING PHASE ANGLES/CCT THAT PASSES PULSES CORRESPONDING TO ANGLES OF 15DEG & LESS
AUTOMATIC POWER-UP-POWER-DOWN CCT TO SWITCH ON PREAMP. &, AFTER SET DELAY, SWITCH ON POWER
CCT THAT INTERFACES PERSONAL COMPUTER (PC.) WITH TEST INSTRUMENTS HAVING BCD.-ONLY OUTPUTS
CCT USING 1-SHOTS & OPTOISOLATORS, TO LET 4-20MA CURRENT LOOP CONTROL ISOLATED SCR. DRIVE, TO CONTROL
PMT. BASE ABLE TO SUPPLY HIGH CURRENTS AT ANODE OUTPUT WITHOUT DEGRADATION OF PMT. GAIN, FOR PULSE
CCT OF PHOTODIODE, 2.5KV PS. & ANALOGUE PHOTODIODE INTEGRATOR UNIT
CCT USING FET. WITH BN GATE INSULATOR
BATTERY-POWERED LUMINANCE METER INCLUDING PHOTOVOLTAIC AMP., RMS. TO DC. CONVERTER, LCD. PANEL
CCT SHOWING HAMAMATSU STREAK-CAMERA TUBE & PERIPHERAL ELECTRONICS/STREAK CAMERA INPUT TRIGGER
4-TERMINAL AC. RESISTANCE MEASURING SYSTEM INCLUDING CURRENT SOURCE, VOLTAGE DETECTOR & FULL
AUTO TURN-OFF UNIT/ALARM-CALL GENERATOR/TOUCH ALARM/'PROXIMITY' ALARM/VIBRATION-ALARM/'FLOOD' /
ULTRA-SENSITIVE PORTABLE GAS LEAK METER (DETECTOR)
RATEMETER WITH DEAD-TIME CORRECTION
CCT TO TRIGGER ELECTRIC CLOCK, WITH 600HZ SOUND CONTROLLING LOGIC GATES
INTERFACE CCT TO CONNECT TTL. COMPATIBLE CCT WITH RS-232
AUTO-LOAD BOARD (INTERFACE BOARD THAT AUTOMATICALLY LOADS 2K PROGRAM INTO CASSETTE-BASED MEMORY
CCT FOR AUTOMATIC BATTERY BACKUP OF 5101 CMOS. MEMORY, & TO PUT IT IN STANDBY MODE
RATEMETER TO GIVE DIRECT READING OF PULSE RATE OF LF. SIGNALS, WITH LINEAR OUTPUT VERSUS PULSE RATE
MOTOR CONTROLLER USING SERVOAMP., UTILIZING PRINCIPLE OF SUBTRACTING ERROR TERM FROM MOTOR VOLTAGE
BATTERY-POWERED HIGH OUTPUT VOLTAGE-CONTROLLED CURRENT SUPPLY TO PRODUCE 1000A OUTPUT CURRENT
INTERFACE FOR MOSSBAUER EQUIPMENT, CONSISTING OF 8 BIT BINARY SCALER, CONNECTED TO IO. LINES OF
GATING & INTEGRATOR CCT ADDED TO RENCO PREG-ALERT THAT PERFORMS ULTRASONIC SAMPLING, INCLUDING
INTERFACE FOR ANALOGUE MUX.ING USING 12-BIT INTERSIL ADC./SAME USING 10-BIT ADC., WITH GREATER SPEED
CCT THAT CHECKS AMPLITUDE & DURATION OF DATA PULSE TO WITHIN PRESET LIMITS BEFORE VALIDATING IT
CCT TO REALIZE LARGE TIME CONSTANT, WITH NEGATIVE RESISTANCE/CCT TO REALIZE SMALL TIME CONSTANT
CCT USING PRECISION FLOW MEASUREMENT DEVICE (MICROTHERMAL CONDUCTIVITY CELL) WIRED AS WHEATSTONE
CCT FOR ANALOGUE MUX.ING WITH CBM 3032 (PET) COMPUTER, USING INTERSIL 12-BIT ADC./DIGITAL MUX. SYSTEM
CCT USING 1-CHIP TUNER IC (IN QIP-64 PACKAGE) CONTAINING FM. TUNER'S FREQUENCY MIXER, LO., IF. AMP. &
CCT TO LINEARIZE PT-PTRH THERMOCOUPLE RESPONSE USING NON-LINEAR ADC. OF TRANSDUCER RESPONSE
DDT-51 IBM PC.-BASED 8031-8051 DEVELOPMENT SYSTEM/EPROM. PROGRAMMER SUBSYSTEM & BIDIRECTIONAL
CATHODE FOLLOWER, TO COUPLE HIGH IMPEDANCE OF RECEIVER DISCRIMINATOR TO TRANSMITTER
CCT SHOWING ADDITION OF IO. WRITE DETECTION LINES & IRQ HARDWARE TO 8250 SERIAL PORT CHIP
CCT SHOWING ADDITION OF SERIAL (RS-232C) PORT HARDWARE INTERFACE TO PC.
INTERFACE CCT WITH WHICH VERY FAST DATA SIGNALS ON DATA BUS CAN BE LATCHED & SENT TO IO. DEVICES
CCT SHOWING 5 PORT EXPANDERS USED BY 8748 CONTROLLER, 1 SERVING AS INPUT TO PROCESSOR, OTHERS AS
AUTODIALER (AUTOMATIC DIALER) USING 32X8 PROM., ENCODER, DUAL 4-BIT BINARY COUNTER, TIMER & GATES
CCT TO SUPPLEMENT EXISTING 5V PS. BY UP TO 5A, BY ADDING DC.-DC. CONVERTER & OA.
CCT TO TRANSFER DATA BETWEEN 8255 PARALLEL IO. DEVICE & S100 BUS
CCT USING PIC. & GATES TO PROVIDE VECTORED-PRIORITY INTERRUPT STRUCTURE FOR Z80-BASED UP. SYSTEM
CCT TO IMPROVE SYSTEM PERFORMANCE DURING DATA TRANSFER, IMPLEMENTING CYCLE STEALING, ALLOWING
INTERFACE THAT CAN BE USED BETWEEN ANY MORSE CODE GENERATOR THAT PRODUCES AUDIO & ANY TRANSMITTER
FET. PREAMP. FOR MOVING COIL CARTRIDGE, USING SILICONIX JFET.S IN SRPP (SHUNT REGULATED PUSH-PULL)
CCT TO IMPLEMENT FIR. FILTER, USING SINGLE-PORT 16-BIT MULTIPLIER-ACCUMULATOR CAPABLE OF 85NS CLOCK
INTEL MAGNETICS' 128K-BYTE BUBBLE-MEMORY PRTOTYPE KIT (BBB)/S-100 INTERFACE & CLOCK CCT FOR BPK T
CCT CONTAINING INDIVIDUAL GATES & COMPLETE CHIPS
CCT TO ADD XICOR EEPROM. TO TRS-80 COMPUTER

CCT USING 386SX UP. WITH AT-COMPATIBLE CHIP SET INCLUDING INTEGRATED SYSTEM INTERFACE/CCT USING INTERFACE CCT OF DAS., FOR DATA ACQUISITION (TRANSFER) & INSTRUMENT CONTROL, THAT COUPLES UP. BA
CCTS SHOWING CONNECTION OF SOLID-STATE DETECTOR, SCINTILLATION COUNTER & X-RAY PROPORTIONAL C
CCT USING PARITY CHECKER THAT, WHEN BIT OF INPUT DATA CHANGES, SIGNALS CHANGE TO PPI. WHICH LATC
CCT TO AUTOMATICALLY CONVERT INCOMING MORSE CODE TO VISUAL ALPHANUMERIC DISPLAY, FOR AMATEUR
MOTOR CONTROLLER FOR DC. BRUSH-TYPE TORQUE MOTORS, INCLUDING OPTICAL ENCODER, PHASE COMPAR
CCT TO ABSORB BRAKING ENERGY WHEN DECELERATING SERVOMOTOR BECOMES GENERATOR, CHARGING FI
CCT TO INTEGRATE FLAT-PANEL VGA CONTROLLER INTO LAPTOP SYSTEM, INCLUDING A FEW OCTAL BUS-TRAN
MOTOR-DRIVEN FIELD SWEEP CONTROL & X-Y RECORDER DRIVE, CONSISTING OF LINEAR RAMP CCT & CCT THA
INTERFACE USING PPI. CONTROLLED BY UP. TO HANDLE DATA TRANSFER, WITH IBM PC. TESTING DIRECTION BY
CCT SHOWING INTERCONNECTIONS OF INTEL USART., USED AS PERIPHERAL DEVICE FOR SERIAL DATA TRANSM
CCT USING SHARP SSR. CONTAINING OPTOCOUPLER, ZERO-CROSSING SWITCH & POWER TRIAC, FOR USE WITH
CCT THAT DETECTS RELATIONSHIP OF ANALOG AMPLITUDE TO REFERENCE VOLTAGE DIGITALLY (RATIO METER
MIT 3 MARK II HARD TUBE MODULATOR (HTM)/LV. PS. & DRIVER AMP. STAGE/SWITCH TUBE SECTION, HV. PS. SEC
CCT USING PRIORITY INTERRUPT CONTROLLER WITH SHIFT REGISTER & IO. PORT ADDED, TO USE WITH Z80 UP.
INTERFACE CCTS FOR SERIAL & PARALLEL IO. PORTS, INCLUDING USART.S/SYSTEM-BOARD POWER CONNECTIO
RTTY. OSCILLOSCOPE MONITOR
CCT USING SERIAL INTERFACE CHIP PROVIDING PATH FROM LAN. CONTROLLER TO TRANSCEIVER/ETHERNET W
CCT TO MONITOR VOLTAGE OF BACK-UP BATTERY, USING PROGRAMMABLE VOLTAGE-LEVEL DETECTOR IC, CM
CCT TO ADD 3 8-BIT PARALLEL PORTS FOR IO. EXPERIMENTS WITH PC. EXPANSION BUS/HIGH-CURRENT OUTPUT
CCT TO GENERATE EXTRA BIT NEEDED BY 64K DRAM. WHEN MEMORY IS DIRECTED BY 8202A RAM. CONTROLLED
CCT USING 2 QUAD OA.S & 4 RESISTORS TO ACHIEVE FULL-DUPLEX COMMUNICATION OVER SINGLE WIRE
CCT FOR UPGRADING JEDEC MEMORY BOARD
CCT TO DEMONSTRATE FOURIER ANALYSIS & SYNTHESIS, CONSISTING OF ACTIVE FILTERS IN PARALLEL, INCLU
POTENTIOSTAT CONTROLLER WAVEFORM GENERATION CCT USING MEMORY COUPLED TO DAC./MEASUREMENT
CCT OF BOARD FOR IBM PC. OR COMPATIBLE MICROCOMPUTER THAT CONTROLS EXTERNAL VIDEO RECORDER
CCT USING PPI. TO CONTROL IR. TRANSMITTER DRIVEN BY REMOTE-CONTROL ENCODER/SAME USING IR. RECE
CCT USING SINGLE-CHIP UP. TO CONTROL RESOLVER'S PHASE IN 4US INCREMENTS WITH AID OF EXTERNAL PR
OUTPUT CCT TO DRIVE 2 INDEPENDENT STEPPER MOTORS, WITH INPUT FROM CONTROLLER CCT THAT CONTR
CCT USING AMI TELEPHONE-RINGER IC THAT CAN BE POWERED OFF PHONE LINE, THAT DRIVES SMALL SPEAKE
CCT THAT GENERATES CLOCK FREQUENCIES IN BINARY VALUES, WHICH ARE SYNCHRONIZED WITH REFERENC
CCT TO DISABLE EEPROM. CONTROL LINES OR NOVDRAM. STORE-BAR & NV-BAR LINES DURING SUPPLY TRANSIT
4-TUBE, 5-BAND REGENERATIVE RECEIVER THAT OPERATES FROM AC. POWER LINE, COVERING 500-14.2M (600K
CCT SHOWING IO. BUS PIN ASSIGNMENTS/IO. BUS INTERFACE
CCT SHOWING CONNECTION OF TALKER-LISTENER, GPIB. CONTROLLER & DMA. CONTROLLER TO GPIB. & UP. SY
CCT USING CHIPS & TECHNOLOGIES' CS8245 VGA GRAPHICS CHIPSET FOR PC., INCLUDING VGA CONTROLLER, E
CCT TO INTERFACE 8-BIT MEMORY-MAPPED PERIPHERALS LIKE FLOPPY-DISK CONTROLLER TO TMS9900 PROCE
RATIO CCT THAT DIVIDES SPECIFIC IONS BY TOTAL IONS, FOR CORRECTION OF SPECIFIC ION CHANGES, USING
CCT USING 8KX8-BIT SRAM. (THAT FUNCTIONS AS CIRCULAR BUFFER) TO PROVIDE VARIABLE DELAY INTERVAL F
DETECTOR ELECTRONICS USING FAST DETECTOR CHIP CONTAINING PHOTODIODE & TRANSIMPEDANCE PREAM
CCT SHOWING LOCAL BUS CONNECTING 8086 CPU., 64 KBYTES ROM., 256 KBYTES RAM. & SERIAL IO. LINES (BBB
OPTICAL INTERRUPTER
INTERRUPT CONTROLLER BOARD USING PIC./RESET CCT FOR INTERRUPT CONTROLLER
CCT USING LABEN 5242 PREAMP., SHOWING INPUT INTEGRATION STAGE, POLE ZERO NETWORK & OUTPUT BUFF
INTEL CHIP SET TO SUPPORT EISA, INCLUDING EISA BUS CONTROLLER, INTEGRATED SYSTEM PERIPHERAL & BU
CCT SHOWING ORGANIZATION OF CONTROL-STATUS-DATA LINES FOR CONTROL OF DIGITAL CARTRIDGE DRIVE
OPTICALLY ISOLATED SWITCH TO SWITCH ON MAINS TO NON-INDUCTIVE APPLIANCES, EVEN IN DAMP CONDITIO
CCT USING PHOTON COUPLED INTERRUPTER MODULE TO STUDY RATE OF DECAY OF DIFFERENT HARMONICS C
CCT USED FOR FEEDBACK CONTROL OF ELECTRODE, CONSISTING OF WHEATSTONE BRIDGE, BRIDGE DETECTO

INTERFACE CCT THAT ADAPTS DIGITAL POTENTIOMETERS FOR INTERACTIVE POSITIONING OF SERVOMOTORS, CCT SHOWING PIN DEFINITIONS FOR CROSS-WIRED RS232 INTERFACE CABLES USING TYPE D DATAPHONE CONN. CCT USING INTEL'S EISA CHIP SET, LINKED TO EISA ADD-IN CARD VIA BUS MASTER INTERFACE CONTROLLER (BI) INTERFACE USING INTEL PPI., CONSISTING OF IBM PC. CONNECTIONS & FUNCTION ADDRESSING, 8 DATA INPUT, CCT USING TELEFUNKEN NICD. BATTERY CHARGER IC CONTAINING FACILITIES FOR GENTLE CHARGING & MONI CCT FOR COMBINING 2 IDENTICAL BUT INDEPENDENTLY DEMODULATED DATA STREAMS FOR DISPLAY OR PROC CCT FOR AUTOMATIC RECORDING OF RESISTIVITY AS FUNCTION OF TEMPERATURE, INCLUDING PPI. CHIPS, 12-B INTERFACE OF PRESSURE SENSOR TO 16-BIT UP., INCLUDING DISTANCE & LIQUID LEVEL SENSOR SIGNALS, MO CCT USING MICRO CHANNEL HARD DISK CONTROLLER IC TO FOR INTERFACING & FORMATTING, & DATA SEPARA MOTHERBOARD WITH EXTENDED INDUSTRY STANDARD ARCHITECTURE EXPANSION SLOTS & HOST CPU. BUS, U CCT TO ADD PASSWORD BOOT PROTECTION TO ANY PC. WITH EMPTY 8-BIT EXPANSION SLOT, USING BATTERY-BIT MAP IMPLEMENTATION & VIDEORAM. ADDRESS MUX.ING, FOR GRAPHICS & ALPHANUMERICS VLSI. CO-PROC CCT FOR MICHELSON SPECTROMETER, INCLUDING DC. AMP., TELEDYNE PHILBRICK LOG AMP., BUFFER AMP., RA CCT USING LED.S TO DISPLAY RAPID CHANGES IN VOLTAGE, USING QUAD COMPARATOR & DC. AMP. TO INCREA WATTMETER THAT PRODUCES SIGNAL PROPORTIONAL TO AVERAGE PWM. POWER OF BATTERY, INCLUDING MU CCTS TO INTERFACE MOS. FIFO. SERIAL MEMORY TO COMPUTER OR OTHER DIGITAL SYSTEM, USING SHIFT REG INTEGRATOR

CCT SHOWING PHOTODIODE & 1ST STAGE OF LOW-NOISE CHARGE AMP. IMPLEMENTED WITH SURFACE MOUNT CCT SHOWING CONNECTION OF 2-CHIP SLIC. CHIP SET THAT ADAPTS TO DIFFERENT LINE LENGTHS, INCLUDING CCT TO DEVELOP TTL. OUTPUT LEVELS FROM RADIO SHACK TRS-80(R) MICROCOMPUTER CASSETTE-OUTPUT P CCT TO EVALUATE UA9708 6-CHANNEL ADC., PROVIDING CONTROL & TIMING SIGNALS & LED. DISPLAY CCT USING BANDSPLIT FILTER TO DETECT TELEPHONE SYSTEM SUPERVISORY TONES, SUCH AS BUSY & RINGIN INTERFACE TO TURN LINE PRINTER INTO IEEE 488 BUS-COMPATIBLE INSTRUMENT, WITH BUFFERING PROVIDED CCT USING PROM. TO DETERMINE & DISPLAY WIND-CHILL TEMPERATURE USING AIR TEMPERATURE & WIND-SPE BIT'S FLOATING-POINT CHIP SET THAT COMPLETES EACH OPERATION INITIATED IN CYCLE IN SAME CYCLE (BBB) CCT FOR 2 COMPONENT EXPONENTIAL DECAY APPARATUS, INCLUDING RC. DECAY CCT, BUFFERS USING HIGH I CCT USING CDS PHOTOCELL & COMPARATOR WINDOW DETECTOR, TO DETECT RED PAINTED SECTION ON BRIG CCT TO ENABLE USE OF PROGRAMMABLE-GAIN AMP. IN AUTO-GAIN MODE, USING OA.S AS VOLTAGE COMPARAT ACTIVE-MODE FAST QUENCH (QUENCH-ACTIVE RESET) CCT FOR WHICH DELTA-V CAN BE AS HIGH AS 20V & WHO CCT TO MULTIPLY WIDTH OF INCOMING PULSES BY FACTOR GREATER OR LESS THAN UNITY, USING SAWTOOTH CCT USING SCSI. CHIP & IO. PROCESSOR TO CREATE INTELLIGENT IO. CHANNEL SYSTEM (BBB) CCT OF COMBINED DIFFERENTIAL AMP. & CFD. BASED ON FAST COMPARATOR WITH GOOD SLEWING CHARACTE CCT USING TTL./COMPLEX SEQUENTIAL TTL. CCT USING COUNTER WHOSE OUTPUT IS DECODED TO SET & RESE CCT USING MULLARD ARGON GAS FILLED TRIODE TUBE TO OBTAIN CURRENT-VOLTAGE CURVE OF INITIATION & CCT SHOWING MOS. FIFO. PARALLEL STACKING TO ACCOMMODATE 8-BIT CHARACTER/CCT SHOWING FIFO. REG CCT SHOWING RESISTOR (RESISTANCE) NETWORK & HV. PS. CONNECTIONS FOR PMT.

CCT TO GET 2 DIFFERENT DTMF. DECODER IC'S TALKING TO ONE ANOTHER, FOR REMOTE-CONTROL SYSTEM GATE (10US-PULSE) CCT TRIGGERED BY 8V PULSE, WITH 40-140V OUTPUT PULSE COUPLED TO 1ST, 2ND, 3RD & CCT USING BURR-BROWN 30MHZ WIDEBAND (BROADBAND) BUFFER AMP., TO PROVIDE DRIVE FOR SWEEP GENE DETECTOR-PREAMP. CCTS WITH 3MHZ & 10MHZ BW. & 40X & 100X AMPLIFICATION, USING JUDSON IR. IN-AS DETI PMT. PS. DRIVE CCT/CCT USING PMT., WITH VOLTAGE DIVIDER MADE UP OF SERIES STRING OF RESISTORS ACR MOTOR SPEED CONTROL CCT WITH TACHOMETER OUTPUT/CONNECTIONS OF U3620 CHIP USING HALL-EFFECT AUTOMATICALLY SYNCHRONIZED RAMP ADC. AT 500KHZ SAWTOOTH WAVE & DIGITIZATION FREQUENCIES, THAT CCT FOR MEASUREMENT & CONTROL OF HUMIDITY IN THE TEMPERATURE RANGE OF 0-31DEG C CCT FOR AUTOMATIC CURRENT REGULATION WITH PROPORTIONAL, DERIVATIVE, & INTEGRAL ACTION, USING O CCT USING PROGRAMMABLE LIQUID LEVEL ALARM IC, DESIGNED TO DIRECTLY DRIVE 300MA ALARM LOAD CCT USING 3 GREEN LED.S & 1 RED LED. TO INDICATE LEVEL OF VARYING INPUT SIGNAL INTERFACE TO ADD COLOR GRAPHICS (BBB)/COLOR VIDEO DISPLAY PROCESSOR & MEMORY CCT/PS. CCT FOR SIGNAL AMPLIFICATION & RECTIFICATION

CCT TO PROVIDE RTTY. TEST MESSAGE DATA (RY), USING 3 OUTPUTS FROM CLOCKED 4-BIT COUNTER TO FEED
 CCT USING OA. TO AMPLIFY RECEIVER'S SIGNAL, & SCHMITT INVERTOR TO REMOVE NOISE & DIGITIZE SIGNAL, V
 CCT WITH ROW ADDRESS STROBE SIGNAL DRIVING LARGE ARRAY OF DRAM., WITH REQUESTS FOR MEMORY AC
 MUTUAL INDUCTANCE BRIDGE INCLUDING INVERTER, PHASE SPLITTER, AMP., VOLTAGE DIVIDER & ADDER, TO M
 2 TRANSISTOR BEACON TRANSMITTER FOR 2M (144MHZ), INCLUDING VARIABLE OSC. KEYER, DIODE TRIPLER & C
 AUTOMATIC NOISE MUTING CCT OPERATED BY IF. OUTPUT SIGNAL STRENGTH/THERMAL CORRECTION CCT USIN
 CCT TO INTERFACE COMPUTER TO AUDIO OUTPUT OF HAM RECEIVER, WITH TTL. OUTPUT, INCLUDING LIMITER,
 CCT TO SUPPORT 32-BIT TEXAS INSTRUMENTS ALU. (BBB)
 DATA READY FLAG (DRF) CCT TO DISCARD ERRORS PRODUCED AS RESULT OF DIFFERENT CONVERSION TIMES
 CCT TO SELECT DRAM. BANKS/TIMING CCT TO CREATE CLOCK EDGES, INCLUDING ANALOG DELAY LINE (BBB)/DI
 CCT TO GENERATE -5V OUTPUT FROM 7 TO 18V INPUT, USING VMOSFET. (VMOS. POWER FET.), WITH CMOS. SCH
 CCT SHOWING 2 68000 UP.S SHARING 1 MAIN MEMORY/CONTROLLER USED WITH 8085 SYSTEM/(BBB)
 CCT TO GENERATE DIGITAL SIGNAL PROPORTIONAL TO PHASE DIFFERENCE BETWEEN 2 ANALOGUE FREQUENC
 CCT TO FORCE Z80 UP. STARTING ADDRESS TO ANY OF 256 MEMORY PAGES, USING 3-STATE MUX.S TO PASS AD
 INTERFACE CCT THAT ALLOWS 5.25IN DISK DRIVE TO BE CONNECTED IN PLACE OF 2ND 3.5IN DRIVE ON IBM PS-2
 CCT USING HALF OF MONOFLOP, USED IN MOD. OF TRS-80, FOR ITS USE WITH ASL-MONITOR WITH >22MHZ BW.,
 CCT USING CMOS. SRAM. WITH LOW STAND-BY CURRENT REQUIREMENTS, TO MAKE CARTRIDGES FOR C64 OR C
 EXTENSION BOARD FOR 80C32 SBC., INCLUDING MIDI. INPUT, MIDI. OUTPUT, OPTOCOUPLER, DAC., COMPARATO
 CCT THAT ADAPTS TMS4500 DRAM. CONTROLLER FOR INTERFACING RAM. TO 68008 PROCESSOR IN QL COMPUT
 CCT TO IMPLEMENT MEMORY PAGING ON UP., INCREASING UP.'S PHYSICAL ADDRESS SPACE, ALLOWING PAGIN
 CCT OF USER-GRAPHIC MOD. TO GIVE OWNERS OF SINCLAIR ZX81 COMPUTERS WITH 16K RAM. PACKS FACILITY
 CCT SHOWING HOW ADDRESS BUS IS MUX.ED FOR USE BY 4116 DRAM.S & THAT MEMORY-CONTROL SIGNALS AF
 CCT USED FOR DYNAMIC MONITORING OF PARTICLE CONCENTRATION IN POWDER-AIR DISPERSIONS
 CCT TO SOLVE PROBLEM OF SANYO'S DISK DRIVE INDICATOR LIGHTS REMAINING ON AFTER BEING SELECTED
 CCT SHOWING REMEDY FOR RTC.-TIMING PROBLEMS ON HIGHER-SPEED SYSTEMS, USING Z80 & MM58167A RTC
 CCT TO PREVENT LOSS OF DATA WHEN CMOS. RAM. IS SWITCHED FROM NORMAL OPERATION TO STAND-BY MO
 OPTICAL SHAFT ENCODER INTERFACE
 CCT USING VOLTAGE REGULATOR FOR DEMANDING APPLICATIONS/MONOLITHIC POWER SWITCHING REGULATO
 CCT TO MEASURE SINE WAVE PHASE DIFFERENCE BETWEEN 0 & +-180DEG WITH LEAD-LAG INDICATION, WITH LI
 CCT FOR ACOUSTIC IMPEDANCE MEASUREMENT, INCLUDING WIEN BRIDGE OSCILLATOR, TRANSDUCER-EAR PIE
 CCT TO DISPLAY MILES PER GALLON, INCLUDING SIGNAL CONDITIONERS & COUNTERS/ISOLATOR-PULSE CONDI
 CCT FOR 1 CYCLE OF TIMING CONTROL MODULE (TCM) TO GENERATE TIMING SIGNALS TO GATE DATA TO COMP
 CCT TO PROVIDE RANDOM PULSE TRAIN WITH MODULATED MEAN RATE, BASED ON CONTROLLING PASSAGE OF
 CCT USING 3-PART HORIZONTAL-VERTICAL PHASE-LOCK (251.744KHZ OSCILLATOR), COUNT-DOWN & REGULATO
 CCT TO HANDLE AS MANY AS 8 VECTORED INTERRUPTS IN Z80-BASED SYSTEM WITHOUT REQUIRING Z80-PERIP
 ACTIVE FILTER USING OA. (AMP. WHOSE GAIN VARIES WITH FREQUENCY OF INPUT, USING CAPACITORS AS EXT
 CCT THAT RESPONDS TO LOSS OF CLOCK A SIGNAL BY SWITCHING TO CLOCK B WITHIN 1 CLOCK CYCLE, TO PR
 DETECTOR & COUNTER CCT, USING SLOTTED SWITCH, SCHMITT NOR GAR & 2 BINARY COUNTERS, WITH BINARY
 INTERFACE CCT FOR 256K-BYTE RAM., TO USE IF PART NUMBER ON VIDEO CONTROLLER IS CO21697/SAME, TO U
 CCT THAT OUTPUTS ANALOG SIGNAL PROPORTIONAL TO AMOUNT OF DATA IN FIFO. BUFFER, USING UP-DOWN C
 EHT. (HV.) AMP. & ERROR AMP. (INTEGRATOR) THAT COMPLETE SERVO-LOOP OF CAPACITANCE-STABILISED SEF
 CCT INTERFACING PC. ADD-IN TRANSPUTER-BASED B004 BOARD WITH PHOTON CORRELATOR & THERMOMETER
 CCT INCLUDING OPTOCOUPLER WITH SCHMIDT TRIGGER TO PRODUCE TTL. PULSE FOR EACH DROP, & INTERFA
 CCT TO CONVERT DVM. TO PEAK READING METER, USING 4 BIT LATCHES & 4 BIT COMPARATORS, DESIGNED TO
 CCT TO MEASURE PHASE RELATIONSHIP BETWEEN 2 SIGNALS OF EQUAL OR SAME FREQUENCY, INCLUDING WA
 CCT FOR COUPLING TEXAS INSTRUMENTS SILICON PHOTOTRANSISTOR (PHOTOPROBE) TO MONITOR NIR. EMIS
 CCT TO MEASURE ITT MCP. (IMAGE INTENSIFIER) CURRENT GAIN, INCLUDING HV. SUPPLY, HV. PROBE, DMM., DV
 CCT USING TRANSFORMER WHOSE PRIMARY & SECONDARY COILS CAN ROTATE WITH RESPECT TO ONE ANOTH
 CCTS TO INTERFACE PHOTOTRANSISTOR & COMPARATOR (OR OA.) TO LOGIC (2)/CCT TO DRIVE SWITCHING TRA

INTERFACE BETWEEN PC. & DMM., USING 3 CHIPS THAT BUFFER OUTPUTS FROM ADC. & REQUIRE SO LITTLE PO
 CCT CONSISTING OF DIFFERENTIAL AMP. THAT AMPLIFIES INDUCTION VOLTAGES, & OA. SCHMITT TRIGGER
 CCT TO ADD TO ICOM R-7000 RECEIVER, TO PROVIDE DELAYED STOP SIGNAL AFTER RECEIVED SIGNAL DROPS
 2-TONE GENERATOR USING ~700HZ & ~2000HZ RC. PHASE SHIFT OSCILLATORS/741 OSCILLATOR THAT CAN BE U
 INTERFACE FOR DATA FROM DIGITISING COMPUTER & BUS CONTROL LOGIC/TEMPLATE PARAMETER VALUE LOA
 CCT SHOWING REAL TIME DATA COLLECTION KEYPAD & ITS COMPONENTS INCLUDING NAND GATE, THAT IS COM
 OPTICAL BUBBLE DETECTOR INCLUDING RED LED. DRIVER, HEAD MODULE (INCLUDING OPTICAL SENSOR USING
 ASTABLE MULTIVIBRATOR DRIVER CONSISTING OF 2 O.A.S, TO PROVIDE STABLE & SYMMETRICAL DRIVE, FOR US
 CCT FOR CONSTRUCTION OF SWITCHING-TYPE DOUBLE-VALUED CHARACTERISTIC BY MEANS OF UP., USING MF
 CCT USED TO REVEAL RESONANT STRUCTURE IN JOSEPHSON TUNNEL JUNCTION (SWEPT CONSTANT-CURRENT
 CCT TO CONVERT OUTPUT FROM COLOR COMPUTER INTO FORM SUITABLE FOR MONITOR
 CCT SHOWING DATA PATH ORGANIZATION OF MACROLOGIC DEMONSTRATOR II (BBB)
 CCT SHOWING HOW MULTIPLE SIGNALS CAN BE PROCESSED SIMULTANEOUSLY BY INCORPORATING MICROPRO
 CCT FOR 0-120DEG FIRING ANGLE POWER CONTROL & SHUT-DOWN CAPABILITY/PHASE-CROSSING DETECTOR C
 CCT FOR ADDRESSING SEVERAL INTERFACES CONNECTED TO A BUS
 RATEMETER CCT TO COUNT NUMBER OF ACTION POTENTIALS IN SUCCESSIVE EPOCHS, USING MICROCOMPUTE
 INTERFACING CCT (FREQUENCY DETECTOR) FOR DETECTION OF DCC OUTPUT FREQUENCY
 INTERFACE FOR SOLENOID CONTROL (SOLENOID CONTROLLER) TO CONVERT LOGIC SIGNALS FROM MICROCOM
 CCT TO INTERFACE VIC-20 COMPUTER WITH TAPE RECORDER, USING SCHMITT TRIGGER TO CONVERT IRREGUL
 INTERFACE FOR USE WITH PET MICROCOMPUTER, USING OCTAL INTERFACE REGISTERS & DECODER CHIP/CCT
 CCT THAT ADAPTS TO ANY VOLTMETER OR MULTIMETER TO MEASURE CURRENTS IN MICROAMP RANGE, PROVI
 INTERFACE BOARD INCLUDING UP. COMPATIBLE 8-BIT ADC., SH., TIMER & MERCURY-WETTED RELAYS (BBB)
 CCT TO INTERFACE MICROCOMPUTER WITH SPECTROPHOTOMETER, THERMOMETER, PLOTTER & CASSETTE RE
 INTERFACE CONTAINING HARDWARE FUNCTIONS NEEDED FOR DATA TRANSFER, INCLUDING PARALLEL TO SERI
 CCT TO GENERATE WAVEFORMS APPLIED TO REFERENCE INPUT OF PHASE-LOCK (LOCK-IN) AMP., RETARDING C
 CCTS TO CONTROL & MONITOR WEIGHING OPERATIONS, INCLUDING IR. PHOTOCELL & TRANSISTOR-RELAY COM
 AUTOMATIC ROCKET LAUNCH CONTROLLER (COUNTDOWN TIMER) INCLUDING PULSE GENERATOR, PRESETTAB
 CCT TO INTERFACE BETWEEN BECKMAN 25 SPECTROPHOTOMETER & SOL-20 MICROCOMPUTER, INCLUDING OC
 CCT USING MOMENTARY ACTION PUSH-BUTTONS IN CONJUNCTION WITH ELECTRONIC INTERLOCK, IN WHICH ON
 EXTREMELY LOW POWER LED. FLASHER WITH AVERAGE CURRENT DRAIN OF <10UA, USING LF. (2MIN) OSCILLAT
 CCT TO INDICATE CAPACITY OF NICD. RECHARGEABLE BATTERIES IN TERMS OF PERCENTAGE OF NORMAL CAP
 CCT TO RAISE DETECTED HEARTBEAT SIGNAL TO LOGIC LEVELS, USING IR. DETECTOR TO DETECT CHANGE IN I
 CCT THAT OPERATES FROM 1.5V CELL & PRODUCES +1.5V OUTPUT, USING TRIPLE, 2-CHANNEL ANALOG MUX. C
 CCT SHOWING TRANSCEIVERS DRIVING & RECEIVING SIGNALS ON SPLIT-TERMINATED BACKPLANE
 CCT REALISING ANY POSSIBLE MATRIX/CCT USING 1 MUX./CCT WITH ROM. CONTAINING PROBABILITY MATRIX
 INTERFACE CCT BETWEEN UP. & LCD. DISPLAY, USING PROCESSOR TIME IN LIEU OF HARDWARE (BBB)
 CCT TO DISPLAY DIGITAL WAVEFORMS, USING 2 ROWS OF LED.S/CCT TO DISPLAY ANALOG WAVEFORMS ON X-Y
 CCT OF NONLINEAR SHUNT CONDUCTANCE (CCT TO APPROXIMATE SYMMETRIC CUBIC NONLINEARITY)
 CCT TO AMPLIFY INDUCED EMF. FROM VELOCITY TRANSDUCER/TEMPERATURE CONTROLLER/CCT TO MEASURE
 CCT SHOWING INTERFACING OF APPLE II COMPUTER TO 6520 PIA./CCT WITH DECODER ADDED TO ADDRESS MO
 DATA MUX. INTERFACE CCT TO ADD DUAL TRACE & DELAYED SWEEP TO OSCILLOSCOPE, USING CHOPPING/CLO
 CCT SHOWING HOW BINARY DATA CAN BE DISPLAYED ON 2 7-SEGMENT LED. DISPLAYS/CCT SHOWING ADC. & D
 CCT USING 4 2-INPUT NAND GATES
 INTERFACE CCT WITH BUS CONNECTIONS FOR 4 POPULAR HOME COMPUTERS: APPLE II, COCO (TRS-80 COLOR
 CCT THAT CONVERTS INCREMENTAL SHAFT ENCODER'S PHOTSENSOR OUTPUTS TO BIDIRECTIONAL TACHOMI
 CCT USABLE AS INVERTER OR BUFFER THAT REJECTS SWITCHING TRANSIENTS, WITH NPN TRANSISTOR ATTAC
 DETECTOR TIMING CCT INCLUDING DISCRIMINATOR & TAC., CONSISTING OF COUNTERS, BUFFERS, 12US GATE &
 CCT USING OA. CONNECTED AS INVERTER, WITH OUTPUT FORCED TO WORK IN CLASS A MODE, TO DRIVE LOW I
 CCT USING EXTERNAL 8MHZ OSCILLATOR & FF. TO GENERATE STROBE TIMING TO INTERFACE CDP1855C MULTIF

CCT USING FILTER & DETECTION IC AS HIGH SAMPLING RATE 2ND ORDER IIR. FILTER/CCT USING FAD AS HIGH-C
 CCT THAT OPERATES WITH FAST ADC. IN MINICOMPUTER TO PRODUCE 16 TIMES HIGHER SAMPLING RATES FOR
 CCT SHOWING PARALLEL PRINTER-PORT MOD. TO PROVIDE BI-DIRECTIONAL COMMUNICATION TO IBM PC.S THA
 CCT SHOWING MOD.S TO HEATHKIT ET-3400A UP. TRAINER USING 6808 UP. & RAM., TO DOUBLE MEMORY CAPAC
 CCT TO IMPLEMENT NONLINEAR ELEMENT (NEGATIVE CONDUCTANCE) OF CCT THAT EXHIBITS DOUBLE SCROL
 CCT USING MONOSTABLE MULTIVIBRATOR WIRED IN LEADING-EDGE TRIGGER, RETRIGGERABLE MODE, TO PRE
 CCT THAT CAN PROVIDE 50% OUTPUT DUTY CYCLE IN WIDE INPUT FREQUENCY RANGE, USING 12BIT BINARY DC
 CCT TO MEASURE BATTERY'S INTERNAL RESISTANCE USING MULTIMETER'S 200MV AC. RANGE BY DRAWING CO
 CCT TO CONVERT COMPUTER'S PARALLEL-PORT CARD FOR BIDIRECTIONAL OPERATION, REPLACING OCTAL LA
 CCT THAT PROVIDES 1 SWEEP PER TRIGGER, FOR Z-AXIS OSCILLOSCOPE (Z-AXIS BLANKING CCT)
 1-TOUCH DIODE TESTER THAT IDENTIFIES GOOD-BAD DIODES, & TELLS WHICH END IS ANODE-CATHODE
 CCT THAT CAN INITIATE SINGLE PULSE OR PULSE TRAIN, DEPENDING ON LENGTH OF TIME SWITCH IS HELD (BB
 1-TO-4-WAY TELEPHONE EXCHANGE THAT PREVENTS >1 SET OPERATING AT ONCE TO PREVENT OVERLOADING
 MATH SLAVE PROCESSOR
 INTERFACE CCT FOR STEP SEQUENCE GENERATION FOR 4 PHASE STEPPING MOTOR, TO CONTROL SPEED & DI
 CCT FOR PHASE-ANGLE MEASUREMENT CONSISTING OF PULSE FORMING CCT (PFC), RS-FF., AMP. & CLIPPER, B
 CCT TO GIVE 1S MARK ON INSPIRATORY & EXPIRATORY PHASES OF FLOW-VOLUME LOOPS, GIVING FORCED INS
 CCT TO BEEP IF NO PULSE HAPPENS ON DATA ACCEPTED LINE WITHIN SET PERIOD AFTER PULSE ON DATA REA
 CCT USING PULSE GENERATORS AT NEGATIVE ZERO CROSSINGS OF INPUTS, & ADDER, FOR STUDY OF PHASOP
 CCT TO OVERCOME PROBLEM OF USING PIC.S WITH 8085 UP., WITH D-TYPE LATCH & BUFFER (BBB)
 CCT FOR FEEDBACK SETUP, INCLUDING PHOTOELECTRIC CELL/IRIS-MODELS OF EYE, WITH OUTPUT VOLTAGE C
 AUTOMATIC SQUELCH CCT TO PREVENT HIGH-LEVEL SIGNALS FROM REACHING AUDIO MONITOR USED IN INTRA
 CCT THAT REQUIRES THAT CODE BE ENTERED ON KEYBOARD WITHIN TIME LIMIT BEFORE CAR CAN BE STARTED
 INTELLIGENT INTERFACES IEEE488 (GPIB.) INTERFACE FOR BBC ACORN MICROCOMPUTER, USING LSI. GPIB. AD
 CCT TO MONITOR REPOLARIZATION PHASE OF CARDIAC ACTION POTENTIAL & COMPARE MEMBRANE POTENTIAL
 CCT THAT INCREASES MAXIMUM CLOCK FREQUENCY OF VARIABLE-MODULO COUNTER BY GENERATING BORRO
 POTENTIOSTAT TO CONTROL ELECTROCHEMICAL MODULATOR (CELL POTENTIAL) USING COMPUTER & TECMAR
 CCT USING 3-STATE 8-TO-1 SELECTOR WITH POWER-ON CONTROL, WHICH, WITH SOFTWARE, PROVIDES EFFICIE
 CCT TO ACOUSTICALLY TRIGGER ELECTRONIC FLASH, USING SCR., OA., PZT. & ELECTRONIC STROBE
 CCT ANALOG FOR JOSEPHSON JUNCTION/CCT TO GENERATE SIN THETA VOLTAGE/VCO./INVERTER/CCT ANALOC
 CCT TO DIFFERENTIATE SIGNAL, WITH OUTPUT FROM 1ST DIFFERENTIATOR PROPORTIONAL TO VELOCITY, & 2N
 INTERFACE CCT TO CONNECT AIRPAX 82424 STEPPER MOTOR TO GAME PORT CONNECTORS OF APPLE COMPU
 CCT SHOWING CORRECTION TO "8052AH-BASIC MICRO PROJECT CONTROLLER" (QEX8810)
 CCT TO TIME PRECISE NUMBER OF MINUTES, WITH REQUIRED COUNT SET UP ON COMPLEMENTED-OUTPUT BCD
 CCT TO GENERATE OUTPUT PULSE, CONSISTING OF SECTION OF ICOM-215 2M FM.-VHF. TRANSCEIVER & MOD.S
 OUTPUT (DATACOM) PORT LOGIC WITH CORRECTIONS (INCLUDING D FF.) TO FIX GATING PROBLEM/STATE MACH
 1 TRIANGLE-WAVE GENERATOR OF ELECTRONIC ORGAN WITH PIPE ORGAN SOUND, INCLUDING ULTRASONIC GE
 MOTOR DRIVER (INTERFACE) USING OUTPUTS FROM APPLE, DARLINGTON TRANSISTORS, & OPEN-COLLECTOR I
 CCT FOR VISCOMETER, FOR USE WITH ORDINARY COUNTER-TIMER, USING LAMPS & LIGHT-ACTIVATED SWITCHE
 INTERFACE (DRIVER) FOR HAYDON STEPPER MOTOR, USING MICROCOMPUTER CONTROL TO STEP, INCLUDING
 CCT TO DOUBLE FREQUENCY OF INPUT SQUARE WAVE, INCLUDING 2 DIFFERENTIATORS THAT CONVERT INPUT
 INTERRUPT CONTROLLER (HANDLING LOGIC) CCT TO HANDLE INTERRUPTS ARISING DURING PWM. WAVEFORM
 CCT FOR SLOW (~5S) SCANNING OF EMISSIVE PROBE, TO BIAS PROBE FILAMENT THROUGH PLASMA POTENTIAL
 CCT TO ALLOW BASELINE OF RECORDER TO BE SET TO ANY PH VALUE FROM 5 TO 9 & FULL SCALE READING TO
 CCT TO PULSE PARALLEL-PLATE MASS GATE, WHICH, DURING TRANSMIT GATE, PULSES FROM HIGH TO GROUND
 CCT SHOWING 1ST 2 STAGES OF BUFFER TREE USING HEX INVERTERS & 50KHZ OSCILLATOR, THAT MULTIPLIES
 JITTER-FREE CCT FOR RECODING DIGITAL DATA ON AUDIO CASSETTE TAPES, PROVIDING DEMODULATED OUTP
 CCT TO TRANSFER DATA FROM 1 OF 8 SIGNAL SOURCES TO THEIR RESPECTIVE RAM.S/CCT FOR COMPLEX FFT.
 DATA-LINE DEGLITCHER TO ENHANCE NOISE IMMUNITY, FOR FAST DATA TRANSMISSION & LOW BIT ERROR RATE

CCT USING A 7401 OPEN-COLLECTOR 2-INPUT NAND IC AS A NAND/LOGIC CCT
CCT USING BCD. COUNTER TO SUPPLY INPUTS TO DAC./RESISTOR LADDER DAC./IMPROVED DAC./DRIVER TO AD
1 TO 7.5MHZ DIGITALLY SYNTHESIZED VFO.
INTEGRATED DATA SYSTEMS IP-225 DOT MATRIX PRINTER INTERFACE CCT FOR TRS-80 MODEL I LINE-PRINTER P
CCT TO CONNECT TO AUDIO OUTPUT JACK OF VOLUNTEER DIRE DEPARTMENT MONITOR, TO TURN ON LIGHT IN
CCT THAT CLAMPS EARTH OF DAC. TO SIGNAL GROUND DURING CONVERSION PERIOD TO DEGLITCH DAC., INCL
CCT TO RECONSTRUCT PORTS 3 & 4 OF 8096 MICROCONTROLLER, USING 2 PLD.S (BBB)
CCT OF RECORDING SPECTROPHOTOMETER TO DETERMINE IDENTITY & BEHAVIOR OF SUBSTANCES, USING PH
CCT USED TO DETECT & INITIATE HEAT PULSES
CCT TO GENERATE HORIZONTAL CURSOR OF VARIABLE LENGTH, THAT MAY BE MOVED UP & DOWN SCREEN OF
CCT TO DELAY POSITIVE DIGITAL TRANSITIONS APPLIED AT START INPUT, WITH DELAY TIME PROGRAMMABLE T
CCT FOR SWITCH DEBOUNCE USING BOTH HALVES OF DUAL 4 STAGE COUNTER TO ACHIEVE LONG DELAY, INCF
CCT TO PERFORM BIPOLAR LOGARITHMIC CONVERSION, USING OA. AS BUFFER, 2 COMPARATORS, 2 SH. IC'S & 2
CCT TO DETECT FREQUENCY VARIATION ABOVE OR BELOW PRE-SET LIMITS, USING BINARY COUNTER, RETRIGG
CCT SHOWING MOD.S TO TELE-GUARD SECURITY DEVICE TO PREVENT UNAUTHORIZED USE OF YOUR TELEPHO
CCT TO INTERFACE HC TO TTL./CCTS TO INTERFACE HC WITH CMOS. (2)/CCT USING HC OUTPUT TO DRIVE REL
CCT TO SENSE 8 LOGIC LINES & "WAKE-UP" UP.-BASED DEVICE VIA INTERRUPT LINE TO ACT ON CHANGED COND
CCT SHOWING OPERATIONAL UNITS FOR VENDING MACHINE, TO CONTROL COIN RECEIVER, COIN CHANGER & P
CCT USING SIMPLE TTL. LOGIC GATES, TO DEMONSTRATE BOOLEAN EXPRESSIONS & LOGIC TRUTH TABLES
CCT TO HELP LEARN ABOUT D-TYPE FF. OPERATION/CCT TO TURN D-TYPE FF. INTO T-TYPE FF./CCT USING J-K F
CCT USING BCD. TO 7-SEGMENT COMMON-CATHODE DECODER-DRIVER TO DRIVE 7-SEGMENT LED. DISPLAY, WI
CCT INCLUDING LIGHT-ACTIVATED SWITCH, FOR CONNECTION TO COCO (COLOR COMPUTER), USING PHOTO TR
CCT USING DECADE (DIVIDE-BY-10) COUNTER CONFIGURED FOR BCD. OPERATION, INCLUDING BCD. TO 7-SEGM
CCT CONTAINING VARIABLE NEGATIVE RESISTANCE & VARIABLE SUPPLY FOR DC. MOTOR, INCLUDING POTENTI
CCT THAT DIGITALLY COMPARES OUTPUT FROM LIGHT SENSOR TO PRE-SET BINARY VALUE, USING 4-BIT MAGN
INTERFACE BOARDS TO INTEGRATE EXTENDED MEMORY UNIT & A-D ACQUISITION SYSTEM, FOR SIGNAL ACQUIS
CCT TO GENERATE & CONTROL PRIMARY CURRENT WAVEFORM IN INDUCTIVE TRANSFER TESTS/CCT TO GENER
CCT USING 2 LOW-RESOLUTION (8-BIT) ADC.S TO PERFORM FUNCTION OF 1 HIGH-RESOLUTION (16-BIT) ADC., IN
CCT TO TRANSFER PARALLEL DATA FROM UNIT USING NO UP. TO RS232 PORT OF PC. IN SERIAL MODE, USING U
SATURATE DRIVER THAT DRIVES Y-JUNCTION TOROID ALONG HYSTERESIS CURVE FROM 1 SATURATED STATE T
EXTREMELY SIMPLE COMPOSITE-VIDEO GENERATOR THAT OPERATES FROM 4-BIT 14MHZ TTL. & TTL. COMPOSIT
CCT TO ESTIMATE BW. & NEP. PER UNIT BW. OF PHOTODETECTOR WITH FET. AMP., INCLUDING GREEN LED. (2)
CCT USING SCHMITT TRIGGER INVEERTER, WITH NARROW, NEGATIVE-GOING OUTPUT PULSE WHOSE WIDTH DE
CCT FOR DRIVING-DECODING LCD.S WITH MUX.ED BCD. INFORMATION
CCT THAT MAKES IT POSSIBLE TO SWITCH BETWEEN 2 VOLUME SETTINGS WITHOUT TWIDDLING VOLUME CONT
CCT FOR MODERN DIGITAL CLOCKS TO GIVE APPEARANCE OF HAVING PENDULUM THAT SWINGS BACK & FORTH
CCT TO ENSURE PROPER MICROPHONE PHASING OR POLARITY, AS WELL AS DRIVERS IN SPEAKER SYSTEM & C
CCT THAT DELIVERS TRIGGER PULSE WHEN MICRPROCESSOR ADDRESS BUS MATCHES SETTING ON SWITCHES
INTERRUPT-DRIVEN CENTRONICS INTERFACE
CCT TO DEVELOP S-100 SIGNALS FROM Z80 UP./LOW-COST 64K-BYTE DYNAMIC MEMORY BOARD
CCT TO GENERATE MAINS FREQUENCY SQUARE-WAVE WITH 1:1 DUTY CYCLE FROM PS.
CCT ALLOWING CENTRONICS PARALLEL PRINTER PORT TO BE ADAPTED FOR RS232 SERIAL DATA OUTPUT, USIN
CCT TO CONTROL PIONEER VP-1000 LASERDISC PLAYER FROM EXTERNAL COMPUTER/SIMPLER CCT FOR CONT
CCT TO DEBOUNCE NC. CONTACT OF PUSHBUTTON SWITCH, USING FF., SUITABLE FOR USE WITH MANUAL-INTE
INTERFACE TO PROVIDE TRUE RS-232 AT USER PORT OF COMMODORE 64 COMPUTER, USING QUAD LINE DRIVE
CCT USING SILTRONICS' SWITCHING REGULATOR CHIP WITH STARTUP CCT, OPERATING AT VOLTAGES AS LOW
CCT SHOWING 146818 INTERFACED WITH Z80 BUS, INCLUDING BATTERY MAINTAINED SUPPLY
CCT. TO ADAPT CMOS. RTC. CONTAINING TIME & DATE DATA, ALARM REGISTERS & RAM., FOR USE WITH 6800, 68
CCT TO SELECT AMONG MEMORY DEVICES WITH FLIP OF SWITCH, WHEN INTRODUCING NEW MEMORIES INTO U

CCTS TO MAKE GOOD USE OF SPARE D OR JK FF.S, BY USING PRESET CLEAR INPUTS, TO SERVE AS SIMPLE INVO
 OCTAL IO. MODULE TO ALLOW INTERFACING OF SYSTEM TO OUTSIDE WORLD, WITH DIP. SWITCH TO ALLOW CHA
 INTERFACE & CONTROL SECTIONS OF GPIB. COMBINER TO CONNECT UP TO 6 STANDARD GPIB. CONTROLLERS
 AUTOMATIC INSTALL-&FORGET PRINTER MUX. TO ALLOW 2 COMPUTERS TO SHARE SINGLE PRINTER WITH PAR
 INTERFACE CCT TO CONVERT HP1610A LOGIC ANALYZER'S NEGATIVE-TRUE LOGIC TO POSITIVE-TRUE FORM, AL
 CCT TO ALLOW 1 PERIPHERAL TO SERVE 2 COMPUTERS ON 1ST-COME, 1ST-SERVED BASIS, USING RS FF. AS AR
 MOTOR-DIRECTION INDICATOR/SEQUENTIAL LED. FLASHER USING UP-DOWN COUNTER TO DRIVE 4-TO-16-LINE D
 INTERFACE TO TEST CABLE CONTINUITY/RELAY-TEST INTERFACE (2)/HIGH SPEED 1-SHOT RIPPLE COUNTER USI
 CCT PROVIDING GATED OUTPUT FOR 2 MILLITIMERS, FOR ACCURATE TIMING TO WITHIN 3MS, FOR SPEED (VELO
 CCT SHOWING BASING FOR ITT GRID GATEABLE (GRID-GATED) PHOTOMULTIPLIER (GGPM), USING FLOATING PH
 CCT TO KEEP TRACK OF IO. OPERATIONS, PROVIDING REAL-TIME INDICATION ON 3-DIGIT HEX DISPLAY & LED., C
 DITHERING CCT INCLUDING PINK-NOISE GENERATOR & AUDIO-AMP.-NOISE-AMP.-MIXER CCT, TO GIVE DIGITIZED
 CCT TO INTERFACE SCSI. TO GENERIC BUS WITH 8 DATA LINES & 8 ADDRESS LINES/SCSI. TEST BOX TO TESTIN
 CCT THAT PROVIDES PULSE WHEN ANY PRESELECTED ASCII. CODE IS DETECTED, USING DIP. SWITCHES TO IND
 CCT OF 128K, 512, 512KE, & MAC PLUS COMPUTER VERSIONS, USING COLBY CMPC-101 POWER & SIGNAL INTERF
 CCT TO ACHIEVE >360DEG OF ADJUSTABLE PHASE DELAY, BY CASCADING 2 MONOSTABLE MULTIVIBRATORS
 CCT WITH DIGITAL LINE CARD CONTROLLER HANDLING 16 LINES AT HIGH SPEED IN 8-LINE PARALLEL DATA BUS
 CCT FOR DECODING 16 ADDRESSES PER PORT, TO CONVERT MP-B2 TO 6809 CPU. (BBB)/EXTENDED ADDRESSIN
 CCT TO PROGRAM MONOLITHIC MEMORIES 63XX-SERIES PROM.S SUCH AS 6349
 CCT USING SERIAL INPUT-OUTPUT LINES OF 8085 TO ADD MULTIPLE INPUT CHANNELS TO SYSTEM
 CCT TO COUNT, OVER FIXED PERIOD OF TIME, NUMBER OF PULSES FROM SEVERAL INSTRUMENTS & LOG RESU
 CCT TO GENERATE & CONTROL CLOCK SIGNALS FOR 8-BIT UP./CCT TO IMPLEMENT BUS ARBITER (BBB)
 CCT TO REALIZE RATEMETER FUNCTIONS UNDER M6800 UP. SYSTEM, INCLUDING BINARY COUNTER & PERIPHER
 CCT TO PRODUCE 20NS PULSE, 1 PART OF WHICH TRIGGERS HORIZONTAL SWEEP OF FAST OSCILLOSCOPE, & C
 CCT TO AUTOMATICALLY REPEAT CHARACTER BY HOLDING KEY, THAT CAN BE ADDED TO ANY COMPUTER KEYE
 CCT TO TEST EEPOT (DIGITAL POTENTIOMETER) USABLE AS REMOTELY CONTROLLED VOLUME CONTROL THAT
 CCT TO PROTECT ANALOGUE INPUT OF ADC. IC, USING 2 COMPARATORS TO TRIGGER VOLTAGE CLAMPING DIO
 CCT TO DOUBLE FREQUENCY OF SQUARE WAVE APPLIED TO INPUT, USING TTL. QUAD NAND GATE & INPUT DIF
 CCT AT FIELD LOCATION, FOR MULTIDROP ARRANGEMENT ENABLING CPU. SYSTEM TO MONITOR UP TO 255 1-BI
 BYTE-WIDE CMOS.-RAM. BOARD (BBB)/CCT TO PROVIDE BATTERY BACKUP FOR SYSTEM'S CMOS. RAM.S/SIMPLE
 CCT USING D FF. FOR EACH LANE, TO CONTROL LED. TO JUDGE CONTESTANTS IN PINEWOOD DERBY/TRANSIST
 CCTS ASSOCIATED WITH SPEECH PROCESSOR CHIP (DIGITAL SPEECH SYNTHESIZER) (2)/CCTS ASSOCIATED WI
 CCT USING OA., TO IMPLEMENT R\HI ELEMENT OF RELAXATION OSCILLATORS CONTAINING HYSTERESIS RESIST
 ACTIVE VOLTAGE CONTROLLED ALL-PASS CCT USING SINGLE OA. & FET., USING GROUNDED RESISTORS FOR IN
 CCT USED IN COLOR FILM PROCESSING ANALYZER, USING DUAL OA. & LDR. (CDS PHOTOCONDUCTIVE CELL) TH
 CCT USING TTL. IC TO DRIVE LED. DISPLAY DEVICE WITH CURRENT LIMITING (DROPPING) RESISTOR
 DATA SUBSYSTEM OF COINCIDENCE & MULTISPECTRA SCALING SYSTEM/STATUS SUBSYSTEM INCLUDING MISSI
 CCT TO GENERATE FIXED PATTERN OF PULSES WITH CONTROLLABLE FREQUENCY & DUTY CYCLE, INCLUDING F
 CCT SHOWING SWITCHING MECHANISM OF POWER SWITCHING USED IN NMR. EXPERIMENTS, INCLUDING MIXER
 INTERFACE BETWEEN PAR OMA (OPTICAL MCA.) & PULSED SOURCE, THAT CONVERTS ANALYZER INTO FULLY S
 CCT WHICH, IN CONJUNCTION WITH DVM. (DMM.), GIVES STABLE & ACCURATE DIGITAL READING OF FREQUENCY
 CCT FOR IMPEDANCE MATCHING BETWEEN METRABYTE PI02 IO. CARD OF OMA (OPTICAL MCA.) & QUANTEL YG5
 CCT THAT CONNECTS INTO TRANSMISSION LINE, MONITORS OUTPUT SIGNAL, & FLASHES WARNING LAMP WHEN
 AUTOMATED TESTER FOR DIGITAL IC'S WITH UP TO 16 PINS USING S-100 MICROCOMPUTER SYSTEM AS HOST
 CCT FOR USE OF ORDINARY AUDIO CASSETTE RECORDER WITH COMMODORE 4 OR VIC-20 COMPUTER
 CCT THAT WILL ENCODE FULL SIZE COMPUTER KEYBOARD INTO ASCII. OR ANY OTHER CODE THE USER REQUIR
 CCT IN WHICH 4-BIT COMPARATOR COMPARES 2 SIGNED BINARY NUMBERS & STORES HIGHER ONE (BBB)
 CCT OF CONTROL LOGIC FOR DETECTION OF ODD FIELD-EVEN FIELD
 CCT USED AS PLL. 'LOCK' INDICATOR

DATA SEPARATOR CCT FOR MODEL I COMPUTER, THAT SEPARATES CLOCK & DATA INPUTS
MOTOR-CONTROLLER CCT (BBB)/COMPUTER INTERFACE FOR ROBOT ARM
CCT TO DECODE ADDRESS BUS OF COLOR COMPUTER TO ADD 64K RAM./CCT USING ROM. SOCKET TO ADD MEM
CCT SHOWING MRDY SYNCHRONIZATION ON MC6809 MICROCOMPUTER (UP.)
CCT USED TO PRODUCE POSITION MODULATED SCAN OF ELECTRON BEAM OF SEM., WITHOUT MOD. OF BEAM C
CCT TO AID DIRECT MEASUREMENT OF MAJORITY CARRIER CAPTURE CROSS SECTIONS OF IMPURITY LEVELS
CCT USING DIGITAL PULSEWIDTH GENERATOR, INCLUDING AMP. FOR LINEAR TRAJECTORY/CCT USING ANALOG
CCTS TO SHOW INFLUENCE OF FINITE VALUE OF GAIN-BW. PRODUCT (GB) ON MODE OVERLAP RANGE
CCT FOR TESTING PARALLEL IO. & ADDRESSING CAPABILITIES OF COMM-80, INCLUDING BEEPER CCT TO TEST A
CCT USED AS SIGNAL MODIFIER, INCLUDING RC. OSCILLATOR & ENVELOPE DETECTOR, WITH CAPACITANCE TAK
CCT TO TURN RECORDED SQUAREWAVE SIGNAL BACK INTO ONE THAT COMMODORE PC.S CAN USE, USING ALM
INTERFACE CCT TO CONNECT YAESU FRG-7 TO C-64 (COMMODORE 64) COMPUTER, COUPLING TO RECEIVER'S V
INTERFACE CCT BETWEEN GATED INTEGRATOR & METRABYTE ADC. BOARD, THAT CONNECTS TIMING SIGNALS
CCT FOR ASK. & PSK. OPERATIONS, USING OA. & TRANSISTOR/CCT TO GENERATE DM. SIGNAL
CCT TO GENERATE SIGNALS REPRESENTING BINARY DATA, USING TTL. CHIPS INCLUDING BINARY COUNTER, MU
CCT TO INTERFACE MICROCOMPUTER USING F8 UP. COMPONENTS WITH DATALAB DL905 TRANSIENT RECORDE
DATA CCT OF DIGITAL EVENTS (PULSE) ANALYZER, INCLUDING EVENT-INTERVAL COUNTER (EIC), LATCH, ALU. &
OPTOELECTRONIC CUT-OFF DEVICE TO MONITOR PROGRESS OF COLORED INDICATOR DYE & TERMINATE ELEC
CCT SHOWING EXTERNAL RESISTORS ON PROGRAMMING TERMINAL OF KEPCO OPS 1000B HV. PS., & MANY OF I
DETECTOR & ENCODER CCTS, INCLUDING SCHMITT TRIGGERS TO SHAPE PULSES & DRIVE INTERFACE/DATA BU
CCT TO TRANSFORM CHANGE OF SIGN OF THERMOELECTRIC POWER PRODUCED BY APPARATUS TO SHOW MA
INTERFACE BETWEEN COMPUTER & WIRELESS REMOTE CONTROL, USING 40KHZ TRANSDUCER, FOR COMMUNIC
CCT BASED ON 4-BIT COUNTER INCREMENTED BY IN INSTRUCTION, DRIVING 4-BIT COMPARATOR, TO GENERATE
CCT FOR SWITCH-MODE DRIVING OF BJT.S, WITH DYNAMIC SELF-GENERATION OF NEGATIVE BIAS/DRIVER USING
ULTRASOUND TIME MARKER GENERATOR THAT GENERATES PULSES SEPARATED BY INTERVALS CORRESPOND
CCT TO REDUCE SEPARATELY EXCITED 3KW DC. GENERATOR'S UNWANTED OUTPUT VOLTAGE DUE TO RESIDUA
CCT TO ADD EPROM. TO FIRMWARE DEVELOPMENT BOARD, USING BUFFERS & DECODER/CCT SHOWING CHANG
CCT FOR FACILITATING MONITORING OF ROTOR RPM. & DIRECTION
CCT TO GENERATE POSITIVE 3KV LINEAR RAMP AT ADJUSTABLE SLOPES/BASE LINE RESTORER TO ELIMINATE C
CCT TO POWER-PULSE WINDINGS OF 3-PHASE STEPPING MOTOR AT LOW DUTY CYCLE TO CUT INTERNAL DISSIP
CCT USING TTL. CHIP & RC. NETWORK TO INTERFACE SINGER HSP-30 LINE OF CHARACTER PRINTERS TO COMPI
ACTIVE TUNABLE NOTCH FILTER
POTENTIOSTAT INCLUDING CURRENT-TO-VOLTAGE CONVERTER
INTERFACE CCT TO ALLOW DEVICES OF 6800 FAMILY TO OPERATE WITH ASYNCHRONOUS 68008 UP.
CCT TO EXTEND PLL. VCO.S FREQUENCY RANGE BY FACTOR OF 50 BY CONNECTION OF NONLINEAR LOAD
AUTO-POWER ADAPTOR CCT/BATTERY CHARGER/FADE-OUT (AUDIO FADER) CCT/WHITE NOISE GENERATOR/DO
INTERFACE CONTROL UNIT (ICU) USING HALL-EFFECT SWITCHES/IR. TRANSMITTER USING MODULATOR/IR. RECE
CCT USING FF. & 2 1-SHOTS (DUAL MONOSTABLE MULTIVIBRATORS), TO DELAY PULSE TRAIN & INDEPENDENTLY
CCT THAT PRODUCES OUTPUT WITH DIGITALLY CONTROLLED 0.1 TO 99.9% DUTY CYCLE, USING 3 UP-DOWN CO
CCT TO ALLOW SIMPLE CONTROL OF 4-PHASE BIDIRECTIONAL STEPPER MOTORS, USING MODULO-4 BINARY UP
CCT USING MODIFIER APPROACH THAT REORGANIZES BIT SEQUENCE/ACCUMULATOR CCT THAT ACCUMULATES
CCT TO GAIN NONINTERACTIVE CONTROL OF FREQUENCY & DUTY CYCLE OF PULSE TRAIN, WITH FREQUENCY C
CCT USING 4 IC'S, TO INTERFACE 16-BIT UP. SUCH AS NS32016 WITH S-100 (IEEE-696) BUS (BBB)
CCT USING ELECTRONIC-ORGAN IC COMPRISING PHASE-MODULATOR SECTION/FREQUENCY MULTIPLIER TO MU
CCT USING MONOSTABLE MULTIVIBRATORS THAT PREVENT (ELIMINATE) CONTENTION FOR BUS BY 3-STATE DR
CCT USING HEX SCHMITT TRIGGER IN RC. OSCILLATOR RUNNING AT A FEW KILOHERTZ, ALLOWING SINGLE 1.2 T
LPT(N): (PRINTER PORT) INTERFACE TO PC. BUS & 25-WAY CONNECTOR/BIDIRECTIONAL INTERFACE TO PROVIDE
CCT TO PROVIDE CONSTANT EMF. TO CASSETTE TAPE PLAYER CAPSTAN MOTOR, TO REPLACE MOTOR REGULA
CCT TO SIGNAL (WARN) WHEN COUNTING RATE FROM RADIATION DETECTOR (COUNTER) STRAYS OUTSIDE PRE

CCT THAT SYNTHESIZES ALL FRACTIONAL T1 CLOCK FREQUENCIES USED IN PRIVATE NETWORKS, USING 9-STATE
CCT THAT IMPLEMENTS SYNCHRONISATION BETWEEN DMA. CONTROLLER & MAIN MEMORY, TO INCREASE TRANSMISSION
CCT TO GENERATE 3-LEVEL SINE WAVE APPROXIMATION WITH CYCLE OF 8 SUB-INTERVALS, INCLUDING 2 DIVISIONS
ULTRA-SIMPLE HIGH-GAIN PHOTOPHONE RECEIVER USING SILICON SOLAR CELL & AUDIO AMP.
CCT THAT USES PROM. TO CONVERT BINARY CODE FOR HEXADECIMAL DISPLAY ON 7-SEGMENT DISPLAY
CCT TO GATE OUTPUT OF PHOTOMULTIPLIER, TO EXTRACT ONLY SIGNAL PORTION OF INTEREST FOR PROCESSING
CCT USING 2-STEP PROCEDURE TO COMPARE 2 NUMBERS & FIND INTERMEDIATE RESULT BEFORE FINAL ANSWER
CCT USING 2 DISCRETE LED.S (RED & GREEN) IN TRANSLUCENT CAN, THAT ALLOWS 6 STATES TO BE INDICATED
CCT USING OPTOISOLATORS TO INTERFACE APPLE IIE COMPUTER GAME PORT SOCKET TO SONAR RANGING MODULE
CCT TO PROVIDE SYSTEM RESET REQUIRED TO RESET HARDWARE COUNTERS & TO PROVIDE PULSE TO COMPARATOR
CCTS USING 2 LED.S & GATES (RED & GREEN) TO IDENTIFY 7 OR 8 3-BIT LOGIC STATES, BY LED.S BEING FULLY LIGHTED
CCT TO INTERFACE 1218 SOLID STATE DETECTOR CONTROLLER TO MINC-DEC LAB-23 MICROCOMPUTER VIA PARALLEL
LATCHING WATER SENSOR USING WHEATSTONE BRIDGE & AMP./PS./BACK-UP ALARM/ON-OFF SWITCH/PHONE EXTENSION
CCT TO TEST MAJOR FUNCTIONS ON 5.25IN MINI-FLOPPY DISC DRIVE WITHOUT AID OF COMPUTER, INCLUDING ADDRESS
CCT TO DELIBERATELY SPOIL SOME CHARACTERISTICS OF 741 IC AMP. IN CONTROLLED WAY, INCLUDING DIFFERENTIAL
CCT ACTIVATED BY FOOT PEDAL WHOSE TRAVEL REPRESENTS +2.7 TO -2.7V DC. SIGNAL TO MOTOR AMP., INCLUDING
CCT TO SEPARATE TRANSMIT & RECEIVE SPEECH COMPONENTS OF BIDIRECTIONAL TELEPHONE-LINE SIGNAL, INCLUDING
0 TO 10MIN PROGRAMMABLE TIMER TO CONTROL EXPOSURE TIMES IN PRINTED CCT PROCESS, USING PRESETTABLE
CCT THAT, WHEN TRIGGERED, AUTOMATICALLY PRODUCES REQUIRED NUMBER (2 TO 256) OF PULSES AT THE OUTPUT
CCT COMBINING CRYSTAL-CONTROLLED OSCILLATOR WITH EXTERNAL FREQUENCY SOURCE, TO AVERT PROBLEMS
CCT TO MEASURE TIME INTERVAL BETWEEN 2 SUCCESSIVE PULSE EDGES DIRECTLY & DISPLAY RESULT DIGITALLY
CCT TO PROVIDE SOFTWARE CONTROLLED MODULATION/CCT TO PROVIDE SOFTWARE CONTROLLED ATTENUATION
INTERFACE DESIGNED TO MEASURE INTERVALS BETWEEN NEURAL IMPULSES, CONFIGURED FOR HEALTH H8 COMPUTER
CCT FOR ALPHANUMERICAL SYMBOLS SHADING IN TV. BY SIMULTANEOUS GENERATION OF MORE LINE TV. SIGNALS
CCT TO CONTROL SOLENOID VALVES IN APPARATUS FOR FILTRATION MEASUREMENT (BBB)
EXTERNAL DATA SEPARATOR CCT WITH POWER-ON RESET FEATURE, TO INSTALL IN RADIO SHACK TRS-80 EXPANSION
RAT RESPIRATION RATE MONITOR (RATEMETER) PROVIDING DIGITAL STANDARD SIGNAL FOR DIRECT CONNECTION
CCT TO GENERATE UP TO -300V PULSE OF VARIABLE TIME DELAY, TO APPLY TO BACK PLATE/SAME TO GENERATE
CCT THAT PROVIDES RAPID FREQUENCY COMMUTATION BETWEEN 2 INPUT FREQUENCIES/TTL.-MESFET. INTERFACED
CCT TO INTERFACE AUDIO SOURCE TO ADC./DIGITAL TRIGGER TO ALLOW I/O. TO START READING DATA BASED ON
CCT USED FOR TIME-RESOLVED PHOTON COUNTING WITH LASER SYSTEM
CCT THAT SYNCHRONIZES 10MHZ PIXEL CLOCK SIGNAL WITH HORIZONTAL SYNC PULSE, TO KEEP PICTURE ALIGNED
CCT TO INTERFACE Z80-LIKE SIGNALS TO LOW-COST CONTROLLER BOARD, BY MATCHING 2 DMA. SYSTEMS
CCT TO GENERATE SIMULATED NOISE SIGNALS TO SUPERIMPOSE ON WAVEFORM TO MEASURE CCT NOISE IMMUNITY
CCT IN WHICH PHASE SHIFT IS INDEPENDENT OF INPUT PULSE REPETITION RATE & IS CONTINUOUSLY ADJUSTABLE
CCT TO SEND KEY STROBE PULSE TRAIN IF KEY DEPRESSED LONGER THAN 1S, TO ADD REPEAT-KEY FUNCTION
CCT TO CONNECT VIA. TIMER TO APPLE II MICROCOMPUTER'S BUS
CCT THAT EXTENDS PC. PC8001MKII TO MULTIPLE INTERRUPT INPUTS USING DAISY-CHAINING
CCT TO SWITCH ON ENGINE FAN USING EXISTING TEMPERATURE SENSOR FOR THE TEMPERATURE GAUGE
CCT TO CONTROL SOLENOID VALVE WITH TIMING SIGNAL SUCH AS THAT PROVIDED FROM STIMULATOR
CCT TO INTERFACE CENTRONICS PARALLEL OUTPUT TO RS232 SERIAL PRINTER
CCT USING OA.S & BIPOLAR TRANSISTORS TO PROVIDE RESISTANCE BETWEEN 2 NODES AS LINEAR FUNCTION
CCT CONSISTING OF DRIVE CCT FOR 7 SOLENOIDS OF DOT-MATRIX PRINTER, PLUS CCT TO PROTECT COILS BY
RTTY. TUNING INDICATOR USING 2210HZ ACTIVE BANDPASS FILTER TUNED BETWEEN MARK & SPACE FREQUENCIES
CCT TO DETECT FSK. DATA CHANNEL WITH 1 IC, FOR OPERATION WITH FREQUENCIES OF 1070 & 1270HZ, USING
CCT TO SELECT CHANNEL FROM TDM. DATA STREAM, USING FF.S PRODUCING PULSES WITH PHASE & DURATION
CCT TO PERFORM MANUAL RESET OF Z80 UP. WITHOUT LOSING DATA FROM Z80'S DRAM., BY INTRODUCING RESISTANCE
CCT THAT RECEIVES 16-BIT SERIAL DATA WORD, DECODES 4-BIT ADDRESS & STORES SUBSEQUENT 12-BIT DATA
CCT TO DECODE 4 PAIRS OF THUMBWHEEL SWITCHES, USING SIGNAL MUX.ING TO READ SWITCHES' BCD. DATA

CCT TO CONVERT 8-BIT SERIAL RS232 DATA INTO 7-BIT SERIAL DATA, USING UART.S, MONOSTABLE & DRIVER/BA
CCT THAT DOUBLES FREQUENCY OF DIGITAL SIGNAL FOR INPUTS UP TO 5.8MHZ, BY OPERATING ON BOTH SIGN
CCT THAT PASSES PULSE ONLY IF PULSE DURATION EXCEEDS MINIMUM VALUE DETERMINED BY R & C, USING D
CCT TO PROVIDE ADDRESS DECODING & SINGLE-BIT OUTPUT PORT USING D-TYPE FF., FOR MORSE CODE SYST
CCT THAT CAUSES UP. TO GO INTO LOOP BETWEEN EXECUTIONS OF MEMORY INSTRUCTIONS WHEN SINGLE-ST
CCT THAT ADDS NEW TYPE OF INSTRUCTION TO UP. INSTRUCTION SET, MAKING WRITING SELF-MODIFYING COD
CCT TO FILTER NOISE, SUCH AS GLITCHES & CONTACT BOUNCE, FROM DIGITAL CCTS, WHOSE OUTPUT CHANGE
CCT TO DRIVE STEPPER MOTOR IN HALF STEPS, CONVERTING PULSES TO SWITCHING SEQUENCE TO DRIVE 4-P
CCT TO IMPLEMENT SINGLE-STEP MODE ON 8080A UP./HALF-MONOSTABLE CCT TO GENERATE NARROW STEP P
CCT USING LOGARITHMIC AMP.S FOR 4 QUADRANT MULTIPLICATION-DIVISION OF 2 OR MORE SIGNALS, INCLUDI
CCT USING OPEN-COLLECTOR TTL. EXCLUSIVE-NOR GATES TO INCREASE CURRENT DRIVE FROM Z80DMA & 680
CCT USING 1 NAND GATE TO GENERATE RESET SIGNALS FOR UP.S ON POWER-UP (OR MANUAL RESET) & POWER
CCT TO MEASURE (AMPLIFY & DISPLAY) HUMIDITY (RH.) PROBE (SENSOR) VOLTAGE OUTPUT, INCLUDING OA. & V
CCT THAT AUTOMATICALLY CHOOSES BETWEEN INTERNAL & EXTERNAL CLOCK SOURCES, SELECTING INTERNA
CCT DESIGNED AS SOLUTION TO J. MULLANE'S QUESTION CONCERNING ELECTRONIC DICE, INCLUDING 74190 C
CCT THAT DOUBLES INPUT FREQUENCY, OPERATING AS PAIR OF EDGE DETECTORS DETECTING POSITIVE & NE
CCT THAT CONVERTS VIDEO TO COMPOSITE SYNC SIGNALS/SIMPLE LPF. THAT ISOLATES VERTICAL SYNC/CCT T
CCT USING 5 MEMORY-MAPPED IO. PORTS TO EXTEND DATA-ADDRESS RANGE OF INTEL MCS BASIC-52 FROM 48
CCT TO CREATE SMITH-CHART DISPLAY FOR TUNNG EPR. SPECTROMETER, INCLUDING DBM.S (FREQUENCY MIX
CCT USING MULTI-COLOURED (RED & GREEN) LED.S TO SHOW (INDICATE) PHASE SEQUENCE IN 3-PHASE SUPPL
CCT THAT COMPARES UNKNOWN RESISTOR AGAINST ANOTHER USED AS REFERENCE (RESISTANCE COMPARAT
CCT TO EVALUATE CLOSED LOOP MODEL/OA. CONNECTED FOR VOLTAGE GAINS OF +92, -9.8, & -91 (4)
PATTERN CONSTRUCTOR SYSTEM TO FIND READABLE PATTERNS CORRESPONDING TO SPOKEN ARABIC NUMER
INTERFACE THROUGH WHICH 2 COMMODORE DATA CASSETTE TAPE RECORDERS CAN BE INTERCONNECTED TO
CCT IN WHICH SPACING & DURATION OF RECURRING PULSES IS MEASURED WITH TTL. DETECTION CCT THAT CO
CCTS USING HIGH-SPEED CMOS. LOGIC GATE (2)/CCT USING FF./CCT DEMONSTRATING USE OF BYPASS CAPACI
CCT TO MEASURE IN-CCT TRANSISTOR GAIN (BETA) WITHOUT REMOVING IT FROM BOARD, ELIMINATING INFLUE
CCT TO DRIVE BANK OF DRAM.S, INCLUDING TIMING GENERATOR, REFRESH CCT, ADDRESS LATCH, MEMORY MC
CCT USING CPU.-CONTROL REGISTER, READY, & INTERRUPT CCTS/CCT TO HANDLE 1553-BUS TRANSACTIONS (2)
AUTO RADAR DETECTOR INCLUDING CHOPPING DIODE, DETECTOR DIODE, AUDIO AMP.S, COMPARISON CCT, & A
CCT USING FAST LOGIC & HIGH-SPEED CACHE-TAG RAM.S TO MEET TIMING REQUIREMENTS OF READY SIGNAL I
OPTICALLY ISOLATED AMP. FOR BIOMEDICAL APPLICATIONS, USING DUAL OPTOISOLATOR CONNECTED IN SERIE
CCT TO GENERATE TRIANGULAR WAVE/MOSSBAUER DRIVE ELECTRONICS/INTERFACE TO CONVERT UP. DEVELO
CCT USING SHIFT REGISTERS, RESIDING ON UUT, TO PROVIDE EXTENSIVE UUT VISIBILITY TO 32 NODES, USING
CCT TO ACCEPT PARALLEL OUTPUT OF UART., DECODE CHARACTERS, SWALLOW NULL CODES, & CONVERT OU
INTERFACE BETWEEN BIOMATION 805 WAVEFORM RECORDER & PRINCETON APPLIED RESEARCH 4202 SIGNAL A
CCT FOR GENERATING TIMING SIGNALS FOR DOUBLE CORRELATION DLTS.
DATASELECTOR THAT USES 1 RS-232 PORT TO CONNECT 2 RS-232 DEVICES WITH MICROCOMPUTER
CCT THAT CONVERTS AMPLITUDE OF ULTRASONIC PULSES TO 1 OF 10 DC. VOLTAGES FOR MATERIAL FLAW DET
SET UP FOR AUTOMATIC SETTling-TIME MEASUREMENT OF HIGH-SPEED OA.
CCT SHOWING DMA. TO SHARE VIDEO MEMORY EFFICIENTLY BETWEEN CRT. CONTROLLER & HOST CPU.
CCT THAT AUTOMATICALLY SWITCHES ON INVERTER WHEN LOAD SUCH IS CONNECTED, TO REDUCE POWER CO
CCT USING RTC. IC WIRED TO 2 IO. PORTS FROM DAI MICROCOMPUTER, INCLUDING OCTAL LINE TRISTATE BUFF
BIT PATTERN DETECTOR
INTERUNIT PIPELINE COMMUNICATION CCT, WITH EACH UNIT HAVING ITS OWN LOCAL CLOCK FOR SYNCHRONIZ
CCT TO PROVIDE PROGRAMMABLE BIT-RATE GENERATOR FOR MOST UART.S WITH X16 OR X64 CLOCK INPUTS
CCT TO CONNECT EXTERNAL FREQUENCY SOURCE TO UP./CCT FOR INSTRUCTION SINGLE-STEP FUNCTION
INTERFACE CARD TO CONTROL SEARCH 400-R AUDIO SYSTEM WITH IBM PC. (BBB)
AUTOMATIC TRIGGER CCT TO AMPLIFY & ZERO-SUPPRESS PHOTOCURRENT & PROCESS IT USING FULL WAVE R

ACTIVITY INDICATOR

DATA SEPARATOR FOR USE WITH 8IN FLEXIBLE DISKETTES WITH IBM 3870 SOFT SECTORED FORMAT
 CCT TO ENABLE IO. BUS FOR INPUT MODE (BBB)/CCT TO READ POSITION OF 8 SWITCHES/CCT TO CONTROL 8 RE
 CCT OF ULTRASOUND UNIT & ASSOCIATED DRIVING VOLTAGE, USING 25KHZ ULTRASOUND AIR TRANSDUCER, TO
 ACTIVELY COMPENSATED FILTER SUITABLE FOR REPLACING POSITIVE FEEDBACK AMP. USED IN MANY ACTIVE P
 INTERFACE TO PROVIDE OPTICAL COUPLING BETWEEN APPLE IIE MICROCOMPUTER GAME PORT & TEXAS INSTR
 INTERFACE (MOD.) TO PHA. TO ENABLE DATA TO BE TRANSMITTED TO INTERACTIVE MAINFRAME COMPUTER, W
 ACTIVE REFERENCE CCT THAT PRESENTS CONSTANT IMPEDANCE TO 5.1V ZENER DIODE SOURCE, & PROVIDES
 CCT TO AMPLIFY SIGNAL & DAMP PENDULUM FOR USE IN DETECTING SEISMIC WAVE DISTURBANCES (SENSING
 CCT FOR VIDEO LEVEL TRANSLATION FOR OFF-LINE DATA STORAGE/MUX. DRIVER/CONVERTER INTERFACE INCL
 CCT FOR RS232 PORT SELECTION, TO ALLOW SAME RS232 PORT AVAILABLE ON CPU. TO BE USED FOR INCOMIN
 CCT SHOWING INTERFACING OF STEPPER MOTORS, INCLUDING VIA./CCT SHOWING INTERFACING SWITCHES & C
 CCT TO DISPLAY NAME OR CALLSIGN IN LIGHTS USING 7-SEGMENT LED.S, & SPELL IT OUT SEQUENTIALLY, USING
 BIT-ADDRESSABLE IO. HARDWARE FOR USE WITH ZILOG Z8671, USING DUAL 2-TO-4-LINE DECODER-DEMUX. PRO
 ROTATOR INTERFACE BOARD USING 10-BIT DAC., SCR. OPTOISOLATOR & QUAD OA. (4)/DISPLAY-ENTRY BOARD F
 CCT TO ACCURATELY MEASURE SUPERPOSITION ERRORS IN DAC.S, BY TESTING QUESTIONABLE CONVERTER (C
 OPTICAL TRANSMISSION LINK FOR USE WITH DIGITAL AUDIO EQUIPMENT, USING PLASTIC FIBER CABLE 0 TO 5M
 OPTIMISED 3RD-ORDER ACTIVE FILTER NETWORK WITH NOISE-EQUIVALENT BW. (FN) OF 1HZ, THAT SETTLES TO
 CCT FOR SET TEMPERATURE & COMPARATOR, TO ADD TO TEMPERATURE CONTROLLER, TO PROVIDE AUTO-HO
 INTERFACE (STATE SEQUENCE CCT) TO ALLOW RAMTEK GX-100B DIGITAL DISPLAY SYSTEM TO BE CONTROLLED
 GATED PRE-AMP. INCLUDING GATING TRANSISTOR, SHOWING CORRECTION (JOPH8812)
 CCT TO CONTROL WATER SUPPLY CYCLE, INCLUDING WATER LEVEL SENSING DEVICE USING LED. & PHOTOTRA
 WATER DETECTOR (MONITOR) & CONTROLLER, TO DETECT LEAKS OF WATER IN WATER-COOLED EQUIPMENT, &
 CCT TO ALLOW PROGRAMMABLE MEMORY TO RESIDE AT LOCATION 0 IN 8080'S MEMORY ADDRESS SPACE, WHILE
 CCT FOR SHORT HALF-LIFE EXPERIMENT, TO POWER GM (GEIGER-MULLER) TUBE & PROVIDE TTL. LEVEL PULSE
 CCT TO REDUCE TIMING ERROR OF SAMPLED ASYNCHRONOUS SERIAL DATA SIGNAL BY DETECTING TRANSITIO
 CCT TO ADD TO FULL-SCREEN VIDEO INVERTER, TO ALLOW VERTICAL RETRACE BLANKING ADJUSTMENT WHEN
 CCT TO CONVERT 8-BIT BINARY DATA TO DECIMAL FORM & DISPLAY RESULT IN DIGITAL FORM, INCLUDING BUFF
 CCT TO DRIVE CMOS. DEVICES USNG TTL. SIGNAL, WHOSE OUTPUT SWINGS TO WITHIN 0.2V OF 5V SUPPLY RAIL
 CCT USING SCHMITT TRIGGERS THAT FORM 100KHZ SQUARE-WAVE OSCILLATOR WITH COMPLEMENTARY OUTP
 CCT THAT INTERFACES 8 IR. SENSORS (REFLECTIVE OPTO SWITCHES) TO USER PORT OF ACORN BBC MICROCC
 CCT TO PROVIDE HIGH EFFICIENCY BATTERY BACK-UP FOR DYNAMO-POWERED CYCLE LAMPS, INCLUDING CCT
 CCT DEVELOPED AS MOD. TO HARD-WIRED WALTZ-16 CCT, INCLUDING CCT TO INCREMENT FREQUENCY OF TIM
 7 TO 1 ACTIVE COMMUNICATIONS MUX. THAT ALLOWS UP TO 7 USERS TO BE CONNECTED TO 1 RS-232 PORT ON
 AUTOMATIC RANGE-CHANGING CCT TO CONVERT HP415E SWR. METER INTO RF. DETECTOR FOR COMPUTER-CC
 CCT WHICH, WHEN FITTED TO ANY CD. PLAYER WITH SUBCODE OUTPUT, ALLOWS SCAN OF 1ST 10S OF EACH TR
 CCT TO GENERATE NEGATIVE RAIL FROM POSITIVE SUPPLY, USING 2 CMOS. HEX INVERTER CHIPS IN CHARGE-F
 CCT WHOSE COMPARATOR SENSES WHEN BATTERY OUTPUT REACHES PREDETERMINED LEVEL AT WHICH TIME
 INTERFACE DEVICE CONNECTING IBM PC. EQUIPPED WITH 8088, 80286 OR 80386 PROCESSORS WITH OPTICAL M
 BITGRABBER TO MONITOR PARALLEL-PRINTER CONNECTOR OF IBM COMPATIBLE COMPUTER & WAIT FOR PART
 OPTO CARD (EXTENSION CARD FOR UNIVERSAL IO. INTERFACE FOR IBM PC.S) THAT AFFORDS ELECTRICAL ISOL
 CCTS TO INTERFACE (TRANSMIT & RECEIVE) RS-232 (SIGNALS) (2)/4-20MA (CURRENT LOOP) TO TTL. CONVERTER
 CCT OF DEVICE TO MEASURE FLOW BY MEASURING TIME TO FILL KNOWN VOLUME OF GRADUATED CYLINDER, U
 CCT TO INTERFACE 4-DIGIT COMMON-CATHODE MUX.ED BCD. OUTPUT DEVICE WITH ZX81 COMPUTER, BASED A
 CCT COMBINING COUNTER & PLA. TO FORM 2-CHANCE WATCHDOG TIMER FUNCTION FOR CPU., BY ATTEMPTING
 CCT TO ALLOW DRUMULATOR OR OTHER PIECE OF PRE-MIDI. DRUM HARDWARE TO SYNCH WITH ROLAND MPU-
 CCT TO SYMMETRICALLY DIVIDE INPUT SIGNAL BY 25, & ANY ODD NUMBER FROM 3 TO 31, DEPENDING ON WHIC
 OPTICAL TRANSDUCER & TTL. PULSE GENERATOR CCT THAT DRIVES CHART RECORDER, USING IR. LED., PHOTC
 GATE CCT CONNECTING-DISCONNECTING OUTPUT OF POTENTIOSTAT TO-FROM COUNTER ELECTRODE (CE) OF

CCT TO CONTROL TRAFFIC LIGHT, USING TIMER WITH OUTPUT FREQUENCY OF ~10S, WHOSE CLOCK PULSES DR
CCT WHOSE INPUT & OUTPUT DRIVE TIMER TO MAINTAIN 120DEG OF PHASE SHIFT TO 50 OR 60HZ INPUT, REGAF
CCT THAT, IN CONJUNCTION WITH AC. VOLTMETER, CAN MEASURE ESR. OF CAPACITOR, CONSISTING OF 50KHZ
CCT TO CONTROL DC. ROBOT MOTORS SO AS TO AVOID OBSTACLES, USING IR. LED. & PHOTOTRANSISTOR FOR
BATTERY-TESTING STATION INCLUDING CHARGE UNIT, VOLTAGE & CHARGE MONITORS, CHOPPER UNIT, ACTIVE
ULTRASONIC INTERFACE UNIT THAT HOUSES INTERFACE ELECTRONICS & POLAROID ULTRASONIC CCT BOARD.
CCT TO ALLOW UP TO 8 SEPARATE LATCHING OR NON LATCHING SENSORS TO BE MONITORED, PRODUCING OU
CCT TO CONTROL UP. SYSTEM RESET/INTERRUPT REQUEST ENCODING CCT/CCT FOR VECTORED INTERRUPT (E
CCT THAT SENSES ACTIVE-LOW FAULT SIGNAL & RECYCLES IF 3 OR FEWER FAULTS OCCUR IN <20S, WITH 4TH F
INTERFACE THROUGH WHICH MICROCOMPUTER CAN CONTROL ROTATION OF STEPPING MOTOR BY COUNTING
METRONOME WITH ACCENTED BEAT, USING TIMERS, JOHNSON COUNTER & UNITY-GAIN OA., PRODUCING ATTEM
CCT TO ADD DUAL-TRACE CAPABILITY TO SINGLE-TRACE SCOPE FOR <\$5 (MUX.ING CCT)
CCT THAT PROVIDES VISUAL & AUDIBLE INDICATION OF PRESENCE OF PULSES, DESIGNED AROUND 3 TIMERS
CCT TO FLASH 2 LED.S AS FF. OSCILLATOR
INTERNAL UNIT OF TEMPERATURE TELEMETRY UNIT CONSISTING OF THERMISTOR, AMP. & COIL/EXTERNAL UNIT
METER AMP. BUFFER CCT TO ISOLATE OSCILLATOR'S OUTPUT FROM RECTIFIERS' INPUT DISTORTION/MULTI-OU
CCT USING MONOSTABLE MULTIVIBRATOR, TO GENERATE HORIZONTAL SYNC PULSE/CCT TO GENERATE NEGAT
CCT THAT CONVERTS CHANGE IN RESISTANCE TO CHANGE IN PITCH OF TONE, CONSISTING OF TRANSISTOR AM
CCT TO CONTROL CYCLING TIMES OF COMPRESSOR & FAN OF CENTRAL AIR-CONDITIONING SYSTEM
CCT TO PROVIDE LED. + OR - BAR READOUT WITH STEPS OF 0.1% COMPARED WITH ACCURATE REFERENCE FRE
CCT THAT PREVENTS A SYSTEM THAT IS PROTECTED BY AN OVERCURRENT CCT FROM BEING SHUT DOWN BY M
CCT FOR USE WITH SOUTHWEST TECHNICAL PRODUCTS CT-1024 TVT-II TERMINAL TO RING BELL AT END OF LINE
INTERFACE LOGIC FOR CFT-20 & APPLE II, INCLUDING TIMER-DAC., E-BUS INTERFACE & VIA.
CCT TO CAPTURE, HOLD & TIME SINGLE EVENTS DESPITE RANDOM HF. NOISE DURING WAITING PERIOD
CCT TO FIND NON-LINEAR FUNCTIONS DIGITALLY, BASED ON VFC. & DECIMAL RATE MULTIPLICATION (DRM)
CCT TO GENERATE REPRODUCIBLE WAVEFORMS THAT SIMULATE FLOW & VOLUME SIGNALS FROM SPIROMETE
CCT TO EMIT WARBLE TONE WHEN RING PULSES ARE APPLIED TO PHONE LINE, USING NEON BULB & PHOTO TR
AUTOCODE I-D CONTROL SYSTEM USING CMOS. GATES & TIMER, THAT OPERATES BEFORE REPEATER SHUTS D
CCT TO SCAN RADIO AROUND FREQUENCY, OR START AT ANY FREQUENCY & SCAN UP OR DOWN UNTIL STOPPE
CCT USING THERMISTOR PLACED NEAR SUBJECT'S NOSTRIL TO MEASURE RESPIRATION RATE, USING EPROM.S
CCT FOR DELAY INPUT & OUTPUT FILTERING/FINAL FILTER/2000-SAMPLE DELAY USING RETICON CCD./CLOCK (O
CCT TO GENERATE HEAT PULSE IN RESPONSE TO DOWNSTREAM HEAT PULSE DETECTION, USING HEATING & S
ALTERA EPB2001-MICRO CHANNEL BUS INTERFACE INCLUDING ADAPTER INTERFACE & DMA. ARBITRATION SUPP
CCT FOR CONTROL OF FIRING IMPULSE GENERATOR EQUIPPED WITH TRIGATRON SPARK-GAP, INCLUDING TRIA
CCT OF DATABACK-FIDUCIAL MARKING SYSTEM, THAT ALLOWS RED LED.S TO CYCLE ON & OFF BEFORE 35MM C
CCT USING TIMER, 2 TRANSISTORS & DIODE, TO SWITCH ON ALARM (LOAD) FOR SHORT TIME AFTER SWITCH IS
ASTABLE TIMER SET TO PULSE LATCHING RELAY TO TURN LIGHTS ON & OFF AT PRESELECTED HOURS
AFTERTOUCH LINEARIZER CCT (INVERTING AMP.) USING OA., WITH INPUT FROM SENSOR WHOSE VOLTAGE OUT
CCT TO MONITOR ALARM SIGNAL & PROVIDE INTEGRATION OVER DEFINED PERIOD, USING 64 BIT SHIFT REGIST
CCT TO REMOTELY CONTROL UP TO 5 HOUSE LIGHTING CCTS, USING LV. SWITCHING SIGNALS THAT TRIGGER IN
ACTIVE SEQUENTIAL (TIME-DEPENDENT) LOGIC CCT USING 2 LDR.S, OR GATE, AND GATE & OSCILLATOR
ASTABLE MULTIVIBRATOR USING BUFFER AMP. IN TIMING NETWORK TO EXTEND TIMING RANGE/CCTS THAT MUL
CCT TO FLASH (BLINK) HAZARD LIGHTS (LAMPS) (BULBS) ON CAR IN PAIRS, ALL TOGETHER, OR INDIVIDUALLY
CCT TO FOOL COMMODORE 64 COMPUTER INTO THINKING IT'S WORKING WITH COMMODORE PRINTER (PRINTER
CCT TO MEASURE PHASE ANGLE DIFFERENCES IN LF. RANGES, USING 2 ZCD.S, 555 IC & OUTPUT AMP.
AUTO TRIGGER TO PRODUCE SQUARE WAVES/SNARE DRUM ADAPTER/COMBINER/POWER PACK
CCT TO ALTERNATELY FLASH LED.S WHICH REPLACE EYES IN TEDDY BEAR
AUTOMATIC COMMERCIAL EDITOR FOR VCR.
CCT THAT SOUNDS OFF WHEN FREEZER OR REFRIGERATOR DOOR IS LEFT AJAR TOO LONG, ALSO USABLE AS IN

CCT TO SIMULATE ECG. & GAMMA-WAVE RADIOISOTOPE SIGNALS FOR APPLICATIONS IN NUCLEAR MEDICINE, IN
 CCT USING TIMER IN ASTABLE MODE, TO ADD TO UP. CCT, TO GENERATE 255 SOFTWARE-CONTROLLED TONES
 AUTOMATIC CONTROL UNIT TO PERIODICALLY TURN ELEVATION ROTATOR ON & OFF, CONSISTING OF 2 MULTIVI
 CCT TO DRIVE POWER-MODULATOR INPUT & STABILIZE SELECTED EMISSION SIGNALS
 CCT TO INVESTIGATE TTL. 8-BIT SHIFT REGISTER/PSEUDO-RANDOM SEQUENCE (NOISE) GENERATOR/CCT TO CP
 AUTOMOBILE LIGHT WARNING SYSTEM USING OSCILLATOR-TIMER, THAT GETS POWER FROM CAR'S BATTERY, T
 4-TERMINAL HIGH-RESOLUTION AC. BRIDGE USING 2 OA.S AS VOLTAGE-TO-CURRENT CONVERTERS, WITH NULL
 CCT FOR LOGARITHMIC CONVERSION OF OUTPUT OF SILICON UV.-SENSITIVE PHOTOVOLTAIC PHOTOCELLS, US
 AUTOMOBILE RADIO SILENCER (IR.-CONTROLLED SHUTDOWN CCT) TO TURN DOWN VOLUME ON COMMAND FRO
 INTERFACE CCT FOR RESISTOR TYPE SENSOR, INCLUDING SENSOR BRIDGE, AMP., LPF. & VCO./INTERFACE CCT
 CCT USING DIVIDER (COUNTER) WHOSE Q0, Q1, Q2 & Q3 OUTPUTS GIVE 1 OUTPUT PULSE FOR EVERY 2, 4, 8 & 16
 WATER-LEVEL ALARM (MONITOR) (LITTLE DIPPER CCT) CONSISTING OF ANNUNCIATOR (USING OSCILLATOR-TIME
 CCT TO PRODUCE MUSICAL NOTES & TONES
 CCT SHOWING DIGITAL SYNC WHICH ELIMINATES MANUAL CONTROLS FOR VERTICAL & HORIZONTAL HOLDS
 AUTOMATICALLY BALANCED RESISTANCE BRIDGE WITH BELOW-PICOWATT DISSIPATION IN MEASURE RESISTAN
 CCT THAT TAKES SAMPLE OF INPUT VOLTAGE AT ANY INSTANT, & THEN HOLDS SAMPLED VOLTAGE WHILE NEED
 CCT THAT FORMS PART OF AUTOMATIC VOLTAGE REGULATOR, GIVING RECTANGULAR OUTPUT WAVEFORM WIT
 CCT FOR TESLA EXPERIMENT, USING 18V, 2A TRANSFORMER, BRIDGE RECTIFIER, FILTER CAPACITORS & AUTOM
 INTERFACE EXPANSION UNIT (IEU) THAT IS INTERFACED TO COMPUTER ON 1MHZ BUS, INCLUDING VIA., LATCHE
 CCT TO MEASURE PHOTOCURRENT IN SILICON PHOTODIODE DURING EXPOSURE TO PULSED IONIZING-RADIATI
 CCT TO PROVIDE 15S TIME DELAY FROM NO. SWITCHES OF ALARM SYSTEM, TO ALLOW ONE TO GET OUT OF HO
 CCT TO PROVIDE NEGATIVE VOLTAGE FROM POSITIVE SUPPLY, USING OSCILLATOR WITH DUTY CYCLE OF ~50%
 ANTI-THEFT ALARM USING SENSORS (TIED WITH PROTECTED OBJECTS) WHICH, IF CUT OR SHORT-CCT'ED, CAUS
 CCT THAT CAN BE USED TO LINEARISE ANY TREANSDUCER HAVING EXPONENTIAL RELATIONSHIP
 CCT USING 556 TIMER IN ASTABLE MODE, TO SUPPLY 2 TYPES OF WAVEFORMS TO DRIVE THYRISTORS OF INVE
 CCT TO PRODUCE SOUNDS CONTAINING DIFFERENT NOTES IN WHICH SPEED & FREQUENCY (PITCH) CAN BE VA
 CCT THAT PRODUCES SOUNDS CONTAINING DIFFERENT NOTES IN WHICH SPEED & FREQUENCY (PITCH) CAN BE
 CCT USED TO OBTAIN I-V CHARACTERISTICS OF TUNNEL DIODES, USING 2 OA.S, 1 ACTING AS CURRENT-TO-VOL
 CCT USING 1 TIMER IC, TO REDUCE ELECTROMECHANICAL COUNTER'S ENERGY (POWER) CONSUMPTION, BY PR
 CCT USING ELECTRONIC SWITCHES TRIGGERED BY TIMERS & INCOMING PULSE TRAIN, TO TURN SIMPLE 4-FUNC
 CCT USING ANALOG-SWITCH & SCHMITT-TRIGGER IC'S, TO ALLOW COMPUTER TO SIMULATE KEYBOARD DEPRES
 CCT TO DRIVE RELAY COIL OR SMALL EM. COUNTER FROM SHORT NEGATIVE GOING PULSES, USING TIMER, INC
 CRT. RASTER-LINE CONTROLLER
 CCT USING RETICON EG&G SWITCHED-CAPACITOR, 7TH-ORDER, ELLIPTIC FILTER CHIP TO GENERATE SINE WAV
 CCT TO CONVERT 8-BIT PARALLEL BINARY DATA FOR DECIMAL DISPLAY WITHOUT USING STATIC DECODERS, US
 CCT TO GENERATE TRIPHASIC BIPOLAR TRANSIENT FUNCTION (+-1V RAMP) AT PRECISE INTERVALS, FOR BIOME
 CCT USING DARLINGTON TRANSISTOR, ADDED TO VHF.-FM. TRANSCEIVER, TO CONTROL SUPPLY VOLTAGE OF B
 BATTERY-POWERED HIGH COMPLIANCE IONTOPHORETIC DEVICE INCLUDING CONTROLLED-CURRENT SOURCE
 CCT TO INTERFACE TRANSIENT RECORDER (TR) TO COMMODORE 2001-8K PET MICROCOMPUTER, USING SHIFT
 INTERFACE CONNECTED BETWEEN J14 & J19 PORTS (CONNECTORS) ON PET COMPUTER, & DATA, CONTROL & CH
 CCT USING COMPARATOR, PROVIDING BENEFITS OF CENTRAL LOCKING SYSTEM FOR CAR, FOR UP TO 4 MASTE
 CCT USING 12-BIT MDAC. CONSISTING OF CMOS. IC & NICHROME THIN R-2R FILM LADDER RESISTOR NETWORK,
 CCT ASSOCIATED WITH OSCILLOSCOPE TRIGGER & STIMULUS SPEED CONTROL, USING TIMER THAT CONVERTS
 CCT TO CAUSE COMPLETE DESTRUCTION OF EARTH IN <30S, USING ASTABLE MULTIVIBRATOR & PZT.
 CCT FOR ELECTRONIC DIE, USING TTL. DIVIDE-BY-12 COUNTER CONTAINING 4 FF.S, DRIVEN BY CLOCK OSCILLA
 CCT USING OSCILLATOR RUNNING AT ~300HZ, TO GET ~90V AC. FROM DC. SUPPLY TO LIGHT SMALL NEON BULB
 CCT INCLUDING PMT., HV. PS. & OA. (PREAMP.) IN PS., TO MAINTAIN CONSTANT PHOTOTUBE OUTPUT CURRENT
 CCT USING 2 TIMERS WITH FREQUENCIES TO 1MHZ/SIMPLE DAC. THAT CAN BE USED FOR WAVEFORM GENERAT
 CCT TO PREVENT DATA FROM CMOS. RAM.S BEING LOST FOR SEVERAL DAYS, IF 5V SUPPLY FAILS DURING POW

NITROGEN LASER-NMR. INTERFACE/RF. POWER AMP. USING BROADBAND AMP. & EIMAC PLANAR TRIODES/PIN D
INTERFACE CONTROLLER COMPRISING 16 ANALOGUE INPUTS, 16 DIGITAL IO. LINES & 16 UNCOMMITTED CONTR
AUTOMOBILE (CAR) BURGLAR ALARM THAT DETECTS SMALL INCREASE IN BATTERY CURRENT & SENSES SEVER
WATER ACTIVATED ALARM INCLUDING SENSOR/BATTERY VOLTAGE MONITOR/SUPPLY VOLTAGE MONITOR INCLU
CCT SHOWING USE OF CMOS. LCD. BCD.-TO-7-SEGMENT LATCH-DECODER-DRIVER TO DRIVE 7-SEGMENT LCD. D
CCT TO TELL DRIVER OF VEHICLE WHEN TURNING SIGNAL IS LEFT ON FOR TOO LONG, USING BUZZER & TIMER
CCT TO PROVIDE MEANS OF GENERATING WIDE RANGE OF PULSE WAVEFORMS FOR USE WITH DIGITAL CIRCUIT
CCT USING 2 OA.S WITH MATCHED LOG ELEMENTS (GREEN LED.S) IN THEIR FEEDBACK PATH, & OUTPUT SUMMI
CCT TO INDIVIDUALLY MONITOR 3 TRANSDUCERS, EACH HAVING FM. SQUARE-WAVE OUTPUT IN DISTINCT FREQ
CCT TO CONTINUOUSLY MONITOR & DISPLAY DIGITAL SIGNAL'S DUTY CYCLE WITH ACCURACY OF +-1% FROM 25
CCT TO SHARE 1 SERIAL PERIPHERAL SUCH AS PRINTER, BETWEEN 2 COMPUTERS, USABLE WITH RS232 OR RS
CCT TO MONITOR CURRENTS IN TOTAL ISOLATION, & PROVIDE TTL.-LEVEL LOW OUTPUT FLAG FOR CURRENTS B
CCT SHOWING MANOMETER MOD.S TO ALLOW VISUAL OUTPUT TO BE CONVERTED TO ELECTRICAL OUTPUT, US
CCT TO DRIVE 30MA SWITCH-MACHINE MOTOR FOR MODEL RAILROAD, USING OPTO-DARLINGTON THAT DIES DU
AUTOMATIC VALVE CONTROLLER TO SELECT LENGTH OF TIME VALVE REMAINS OPEN & TIME BETWEEN OPENIN
CCT TO DEMONSTRATE USE OF LED. ARRAY (MATRIX) IN 10X8 DISPLAY APPLICATION, WITH PARALLEL PORT DRI
CCT FOR USE WITH EPROM. PROGRAMMER, TO ENSURE THAT PROGRAM FOR EPROM. IS DEVELOPED IN MEMOR
ACTIVATION CCT TO INTERRUPT SIGNAL FLOW BY CONVERTING THRESHOLD TRIGGER EVENTS TO +15V BEFORE
AUTOMATIC ZEROING CCT TO CORRECT BASE-LINE DRIFT OF EM. FLOWMETERS WHEN CARDIAC OUTPUT IS MEA
CCT USING TRANSISTOR, TO ALLOW TIMER TO DRIVE RELAY/INVERTED MONOSTABLE CCT THAT TRIGGERS ON
CCT INCLUDING SYNC SWITCHER (ELECTRONIC SPDT. SWITCH), & EPROM./VIDEO-SYNC GENERATOR TO GENER
CCT TO TEST TELEPHONE LINES YOU INSTALL IN HOME, OFFICE & SHOP, FOR LINE IDENTIFICATION & POLARITY
CCT USING TIMER, WITH ASYMMETRICAL OUTPUT WAVEFORM, WITH POTENTIOMETER ADDED/CCT WITH DUTY C
CCT TO PROVIDE CONSTANT CURRENT TO LOAD (CERAMIC SUPERCONDUCTOR)/LOW-DRIFT CCT TO AMPLIFY VO
SETUP TO MEASURE CHARACTERISTICS ASSOCIATED WITH DISCHARGE OF SIMULATED SOLAR CELL, INCLUDING
CCT CONNECTED TO IBM PC. PARALLEL PRINTER PORT, TO MEASURE RESISTANCE OF UNKNOWN RESISTOR, OF
MOTOR CONTROLLER/TIMER/AUTOMOBILE LAMP MONITOR/FLOPPY-HARD DRIVE TESTER/AMP./FLASHTUBE STR
CCT USING CMOS. DUAL-MONOSTABLE IC, TO OBSERVE SHORT ($\leq 1\mu\text{s}$) INPUT-PORT ENABLE PULSES AT LOW (3
AUTOMOBILE WINDSHIELD WIPER HESITATION CONTROL TO CAUSE DELAYS OF 2S TO 15S IN REPETITION CYCLE
CCT TO TEST STABILITY IN WIDE RANGE OF DEVICES, USING TIMER SET UP AS 100HZ OSCILLATOR WHOSE OUTP
INTERFACING CCT
ULTRASONIC INSECT REPELLER DESIGNED AROUND 556 DUAL TIMER
EXTERNAL TIMING CCT THAT REPLACES INTERNAL CENTRIFUGAL STARTING SWITCH IN OLD APPLIANCE MOTOR
ULTRASONIC PULSER (PULSED TRIPLER) (CCT THAT GENERATES 300V PULSE WITHOUT STEP-UP TRANSFORMER)
ASTABLE MULTIVIBRATOR USING 555 TIMER IC
CCT USING PAIR OF BCD. RATE DIVIDERS TO SYNCHRONIZE ROTATING SHAFT OF SLAVE STEPPING MOTOR
UJT. PFM. TRANSMITTER/LIGHT-WAVE TRANSMITTER/MICROPHONE PREAMP. FOR PFM. TRANSMITTER/PFM. REC
4-TRACE CONVERTER FOR OSCILLOSCOPES
CCT TO SENSE WATER STATE, SOUND ALARM WHEN MOISTURE LEVEL IS TOO LOW & TURN ON PUMP/PS.
CCT THAT FLASHES IR. LED.S REPEATEDLY 1 AFTER ANOTHER, WITH FREQUENCY ADJUSTABLE FROM 1 TO 10HZ
EXTERNAL ADDRESS BUS CONNECTED TO APPLICATIONS PROGRAM MEMORY/CCT TO SET & CHECK CONDITION
CCT TO MUX. 16 LED.S, USING CLOCK CONSISTING OF INVERTERS DRIVING BINARY COUNTER USED TO MAKE DI
WATCHDOG TIMER USING PAIR OF RETRIGGERABLE 1-SHOTS, THAT SAVES UP. OVERHEAD & ELIMINATES DEDIC
CCT USING 2MIN TIMER IN 1-SHOT MODE, TRIGGERED BY LIGHT STRIKING (ILLUMINATING) PHOTORESISTORS & A
EXTREMELY SIMPLE INTELLIGENT LIGHT BULB (OPTOELECTRONIC FEEDBACK) CCT TO DEMONSTRATE NEGATIV
CCT TO PRODUCE ELECTRICAL PULSES FROM SWITCHING LIGHT SOURCE, USING LDR. TO CONVERT SIGNALS O
CCT TO REDUCE POWER CONSUMPTION BY SWITCHING OFF DC.-DC. CONVERTER WHEN FILTER CAPACITOR IS C
WATCHDOG TIMER THAT COUNTS RESET PULSES & SOUNDS AUDIBLE ALARM IF SYSTEM UP. DOESN'T RESPOND
CCT TO AUTOMATICALLY REZERO SIGNAL WHENEVER IT REACHES LIMIT OF DISPLAY, INCLUDING WINDOW COM

CCTS TO ADD AUDIBLE INDICATION TO LOGIC PROBE, USING COMPARATORS & TONE GENERATOR, WITH HF. OF
 CCT USING DUAL TIMER OF WHICH HALF ACTS AS DC.-DC. CONVERTER, INCLUDING LEVEL TRANSLATOR & WAVE
 CCT TO CONTROL PYRANOMETER ANGLE & PROCESS OUTPUT, CONTROLLING DRIVE MOTOR TO TILT UNIT FROM
 BATTERY-CHARGER PROBE/LOGIC CCT TO DETERMINE WHETHER TO SIGNAL RIGHT-TURN, LEFT-TURN OR BRAK
 CCT USED AS AID FOR BLIND AMATEURS, IN WHICH AMOUNT OF LIGHT REACHING PHOTOCELL CONTROLS PITCH
 CCT (C-METER) USING TIMER, FOR DETERMINATION (MEASUREMENT) OF CAPACITY OF CELL FILLED WITH CHEM
 FET. & BIPOLAR SECTIONS OF PS. (2)/CCT TO PROVIDE FAST CURRENT LIMITING/CCT TO MONITOR OVERVOLTAGE
 CCT TO OBTAIN ISOLATED ECL.-COMPATIBLE OUTPUT FROM TTL., SINEWAVE OR ECL. INPUT, USING MCL T4-1 VC
 CCT TO REALIZE LOGARITHMIC FUNCTION FOR LINEARIZING TEMPERATURE-VOLTAGE CONVERSION OVER WIDE
 INTERFACE BOARD FOR VARIAN E9 ESR SPECTROMETER COMMAND & STATUS FUNCTIONS, USING LOGIC (FF.S,
 CCT SHOWING CONNECTION OF PHOTOCELL (PHOTOTRANSISTOR) TO COMMODORE 64 USER PORT 1 THAT COM
 DATA COLLECTION & CONTROL SYSTEM, IN WHICH LED.S ARE CONNECTED TO CONSTANT CURRENT SUPPLY BY
 OPTICAL SWITCH OF CUP ANEMOMETER, TO SENSE LIGHT BEAM INTERRUPTED (CHOPPED) BY SLOTTED DISC/R
 CCT TO CONTROL POWER AMP. SWITCHING WITH ICOM IC-551 10W TRANSCEIVER/PREAMP. FOR 6M STATION/6M
 CCT USING 4 CHIPS INCLUDING NCR INTERFACE IC, SCSI. PROCESSOR & BUFFERS, TO CONNECT SCSI. PERIPHE
 CCT TO SEPARATE DATA & CLOCK SIGNALS FROM SERIAL DIGITAL-FM. BIT STREAM USING SYNCHRONOUS STAT
 CCT USING PAIR OF 1-SHOTS & ARBITRATION FF. TO FILTER SPURIOUS TRANSITIONS (CHATTER) FROM OUTPUT
 CCT THAT ELIMINATES ORIGINAL CW. SIGNAL & BACKGROUND NOISE & USES DECODED SIGNAL TO SWITCH ON
 CCT SHOWING CORRECTIONS FOR PSEUDO CW. FILTER (2) (7ART9106)
 CCT TO PERFORM ADDRESS MUX.ING, & POWER-ON-RESET & MODE-SELECT CAPABILITY FOR GPIB. INTERFACE
 CCT USING PLL. WHOSE REFERENCE INPUT IS SUPPLIED OSCILLATOR-TIMER CONFIGURED FOR ASTABLE OPER
 CCT SHOWING SAMPLE DRAM. WIRING, SHOWING ADDRESS, DATA IN & DATA OUT LINES
 INTERFACE TO ENABLE DATA TRANSFER TO OR FROM P.E.T. MICROCOMPUTER, USING PRINTER OUTPUT/SINGL
 CCT WHOSE PAL. FOOLS UP. TO THINK 2 ROM. DEVICES ARE PRESENT BY REQUESTING WAIT STATE DURING WH
 CCT ENABLING 567 TONE DECODER TO FUNCTION AS SIMPLE LOCK INDICATOR FOR PLL.
 GATED OSCILLATOR USING 4-INPUT OR-NOR ECL. GATE, WITH OSCILLATION PERIOD DETERMINED BY DELAY LIN
 CCT SHOWING CONNECTION OF S6894 DATA-ENCRYPTION & -DECRYPTION SUBSYSTEM (CONTAINING UP.) TO H
 INTERFACE-BUFFER FOR USE WITH IBM SELECTRIC TYPEWRITER/CHANGES FOR USE WITH PARALLEL PRINTER
 BATTERY-BASED VOLTAGE OFFSET DEVICE TO APPLY CONSTANT POTENTIAL FOR DC. AMPEROMETRIC DETECT
 PITCH PERIOD METER & OUTPUT CHANNELS OF TEMPORAL-SPATIAL PITCH DISPLAY, INCLUDING VCO., SHIFT RE
 CCT TO ADD SIDEONE TO QRP TRANSMITTER WITH POSITIVE KEYING VOLTAGE & SERVE AS CODE PRACTICE OS
 CCT SHOWING HOW OUTPUT VOLTAGE OF RF. OSCILLATOR OF FREQUENCY 4.52MHZ IS SUPPLIED TO MERCURY
 INTERFACE TO ALLOW DIRECT READING OF PH FROM ELECTRODE USING ANALOGUE INPUT PORT OF BBC MICR
 CCT USING ACI (ADVANCED CHIP INTERCONNECT) BUS-INTERFACE CCT, SHOWING CPU. & MEMORY SUBSYSTEM
 CCT SHOWING CONNECTION OF ROCKWELL ACIA. TO UNDERSIDE OF EXPANSION CONNECTOR OF COCO 3 COM
 GATED PHASE LOCK OSCILLATOR FOR SYNCHRONIZATION OF 2-GAP BUNCHER WITH PICKUP ELECTRODE SIGNA
 INTEL 8080 SYSTEM SHOWING PERIPHERAL & IO. DEVICE CONFIGURATION/FAIRCHILD F-8 DISK CONTROLLER/(BE
 CCT FOR 2-CHANNEL PWM. & TDM.ING/RECEIVER DEMUX. CCT/SWITCHED CAPACITOR LPF. DEMODULATOR INCL
 OPTICALLY COUPLED ISOLATION AMP.
 CCT THAT, UNDER COMPUTER CONTROL, DRIVES MOTOR THAT ADJUSTS RESISTANCE VALUE OF POTENTIOMET
 ULTRASONIC CW. (MORSE-CODE) TRANSCEIVER CONSISTING OF PLL. IC'S & 8 TRANSISTORS, INCLUDING BROAD
 CCT FOR KEYBOARD/CCT THAT INVERTS & DIFFERENTIATES OUTPUT STROBE/MICROCOMPUTER INPUT PORT/IC
 CCT TO PLACE EPROM. AT ADDRESS 3000 HEXADECIMAL ON RADIO SHACK TRS-80 MODEL I, TO RUN APPLICATIO
 3-TUBE RECEIVER USING REGENERATIVE DETECTOR (GRID-LEAK DETECTOR WITH RF. FEEDBACK PROVIDED BY
 CCT OF GRAPHICS COPROCESSOR COUPLED TO 80186 CPU. (UP.)
 BATTERY OPERATED HEAT LOSS TYPE OF ANEMOMETER USING PAIR OF BARE TRANSISTOR CHIPS, WITH RESP
 CCT SHOWING CONNECTION OF 2 UP.S (COMMUNICATION PROCESSOR TO SYSTEMS BUS & TRANSMISSION LINE
 CCT THAT RECORDS & REPLAYS LF. ANALOGUE SIGNALS WITH AUDIO CASSETTE RECORDER, USING 8-BIT ADC.
 CCT USING 8-BIT PARALLEL PORT TO DRIVE 3 7-SEGMENT LED. DISPLAYS/CCT USING CHIP CONTAINING DRIVER

CCT TO IMPLEMENT CYCLIC PERMUTATION SCHEME FOR REPETITIVE PHASE-ALTERNATED DECOUPLING SEQUENCE
CCT FOR IV MEASUREMENTS
CCT USED BY HOST COMPUTER TO FORCE UP.'S SYNC INPUTS LOW DURING TIME RS-BAR IS ACTIVE
CCT TO DETERMINE INSTANTANEOUS INVERSE INTERVAL FOR CARDIOTACHOMETRY & FREQUENCY ANALYSIS
CCT SHOWING EPROM. & SDK-85 8085-BASED MICROCOMPUTER INTERFACE, WITH 8085 ASSEMBLY LANGUAGE PROGRAMS
CCT TO DECODE KEYBOARD'S OUTPUT CODES, USING PRE-PROGRAMMED SINGLE-CHIP MICROCOMPUTER/MODULATOR
CCTS INCLUDING CUSTOM GAL TO HANDLE TIMING INVOLVED WITH REMOTE AD7703 20-BIT SIGMA-DELTA ADC.,
AUTO ANSWERING DEVICE FOR RADIO DIRECT COUPLE MODEM, USING RELAY, SCR. & DIODE BRIDGE
CCTS SHOWING CONNECTIONS FOR DIGITAL TELEPHONE CODEC, SYNCHRONOUS DATA (HDLC.) FORMATTER &
CCT TO PRODUCE SUM-&-DIFFERENCE OUTPUT (ORIGINAL & ANTI-PHASE SIGNALS), INCLUDING CONSTANT-AMPLITUDE
CCT USING DIGITAL METHOD TO SUBTRACT IF. FROM LO. TO DISPLAY RECEIVER INPUT FREQUENCY
CCT USING AMD SAR. & DIGITAL-COMPARATOR CCT, TO PERFORM BINARY SEARCH ON EPROM.-BASED TABLE (LOOK-UP)
INTERFACE CCT TO CONNECT S-100 BUS WITH CAMAC BUS, TO USE VIDEO DIGITIZER MODULE DESIGNED FOR S-100
ULTRASOUND TRANSMITTER/40KHZ ULTRASONIC RECEIVER TO DETECT REFLECTED ULTRASOUND/PROCESSOR
CCT USING S-INTERFACE CHIP/LOGIC CCT TO DERIVE SIGNAL TO ADDRESS S-INTERFACE CHIP/CCT TO CREATE
CCT SHOWING MESSAGE-PASSING COPROCESSOR'S SIGNALS INTERFACING WITH LOCAL, PARALLEL SYSTEM &
AMTOR FEC DECODER (3)/BALANCED-LINE AMP., PLL. DEMODULATOR & AUDIO PRESELECTOR SECTIONS/OVERLAP
CCT TO DRIVE LED. WITH TTL. PULSE FROM USER PORT OF BBC MICROCOMPUTER/CCT TO MEASURE PHOTOCURRENT
CCT TO CONNECT PROM. TO PIA. FOR DIRECT SOFTWARE TRANSFER, INCLUDING TRANSISTORS TO AMPLIFY PULSES
CCT USING DTMF. DECODER (RECEIVER) FOR ATV. REMOTE TRANSMITTER, TO CONTROL ON-OFF KEYING OF FAX
CCT USING H-BRIDGE STEPPER-MOTOR DRIVER WITH INTEGRATED SWITCH-MODE CURRENT REGULATION, 3 COILS
CCT FOR USING 2K-BYTE 2716 EPROM.S WITH TRS-80 MODEL III
CCT THAT PROVIDES EXPANSION CARD FOR 16 BIT ADDRESS PROCESSORS & SINGLE SUPPLY EPROM.S
CCT SHOWING BLINKING LED. ADDED TO CCT FOR MUSIC-ON-HOLD FEATURE FOR TELEPHONE, TO PROVIDE VISUAL
CCT TO CONVERT VALUES OF THERMISTORS OR OTHER VARIABLE RESISTANCES INTO DIGITAL FORM FOR REAL-TIME
DATA PATHS OF VICOM TO FASTBUS MASTER INTERFACE/SAME OF MEMORY CONTROLLER SLAVE INTERFACE/F
CCT USING 2KX8 EPROM., MOTOR DRIVERS, TIMER, COUNTER & LATCHES, TO RUN 2-PHASE STEPPER MOTOR &
CCT THAT MEASURES INPUT SIGNAL'S PERIOD & DISPLAYS INPUT PULSE RATE IN PULSES-MINUTE ON LCD., USES
CCT OF EPROM. & SDK-85 SINGLE-BOARD MICROCOMPUTER INTERFACE, WITH 8085 ASSEMBLY LANGUAGE PROGRAMS
CCT TO FOOL 6809 8-BIT UP. INTO ACQUIRING 8 DIFFERENT INTERRUPT-VECTOR-ROUTINE STARTING ADDRESSES
INTERFACE BOARD TO CONNECT BETWEEN XEROX 820-1 BOARD & MODEM, TO ALLOW ZILOG SIO TO UNDERSTAND
CCT SHOWING OUTPUT ENABLES FOR 3 MICROPROGRAM ADDRESS SOURCES INCLUDING BRANCH ADDRESS-COUNTER
CCT (MOD.) TO PROVIDE 16 DIFFERENT MEMORY (STORE) LENGTHS FOR STAR MASTERKEY MS MEMORY KEYS
INTERFACE BETWEEN VIDEO-GRAPHICS-ARRAY (VGA) CHIP & IBM PC. AT BUS (BBB)/VGA-COMPATIBLE COLOR PALETTE
CCT TO GENERATE RELAY COIL VOLTAGE FROM FILAMENT-PILOT LAMP SUPPLY
INTERFACE THAT APPEARS AS 2 LOCATIONS WITHIN ADDRESS RANGE, CONSISTING OF 15 BIT EPROM. ADDRESS
CCT FOR T-HUNTERS TO SET TRANSMITTER TO TURN ON AUTOMATICALLY AT SPECIFIC TIME, USING ALARM CLOCK
CCT USING EPROM. AS CHARACTER GENERATOR TO DRIVE MUX. DISPLAY CONSISTING OF 8 LED. DIGITS/CCT USING
CCT TO ADDRESS LARGE BLOCK OF DATA MEMORY (CMOS. SRAM.) BY DETERMINING STATE OF 5 CMOS. BINARY
CCT TO DISPLAY BEARING OF TARGET OBTAINED FROM DIRECTION FINDING EQUIPMENT, USING PROCESSING
DETECTOR CCT TO DETECT RADIATION INCIDENT UPON IR. DETECTOR, USING IR. DETECTOR OF IR. EMITTER DE
CCT USING NUMBER CRUNCHER WITH PROM. THAT STORES INSTRUCTIONS, CONTROLLED BY EXTERNAL PROGRAM
CCT TO DIVIDE BY FRACTIONS, WITH WIDE FREQUENCY RANGE, USING 2 PROGRAMMABLE TIMERS & PLL. IC ALL
OPTIONAL PS. CCT FOR AEA CK-1 (ELECTRONIC) CONTEST KEYS FEATURING 10 MEMORIES, DIGITALLY SELECTED
CCT SHOWING DATA PATHS OF FASTBUS TO VICOM MASTER INTERFACE USING ECL. 10K LOGIC, INCLUDING LINE
CCT USING MICROCOMPUTER-CONTROLLER (PROGRAMMABLE UP.) THAT PROGRAMS ITSELF, INCLUDING EPROM
CCT TO CONTROL (TURN ON & OFF) 3-TERMINAL REGULATOR, USING EXTERNAL LOGIC & 2 TRANSISTORS AS SW
CCT TO INTERFACE 2 NEC 64KX4 DRAM.S TO Z80 UP. USING MINIMUM OF COMPONENTS INCLUDING PAL. THAT P
AUTOMATIC MEMORY MAP & SWITCH FOR Z80 UP. SYSTEM, THAT PROVIDES RAM. AREA FOR INTERRUPT RESTA

AMTOR CONTROLLER (AMTOR CODE CONVERTER)

ROTOR-ANGLE TRANSDUCER USING DAC. & 12-BIT COUNTER/ROTOR-SPEED TRANSDUCER HARDWARE CCT CON

CCT USING 1 MICROCOMPUTER (UC) IN DESIGN FOR INSTRUMENT TO MEASURE CHEMICAL CONCENTRATIONS C

CCT TO CHECK OUT OLD TELEPHONES, PROVIDING DC. VOLTAGE REQUIRED FOR OPERATION & ALLOWING CON

CCT SHOWING ALUMINIUM CATHODE ELECTRON MULTIPLIER (ACEM) TUBE & ITS VOLTAGE DIVIDER

DOT MATRIX PRINTER CONTROL CCT USING PROCESSOR, TO EXTEND HOME COMPUTER WITH HARD COPY/PS.

DATA ACQUISITION MODULE (DAM) TO MEASURE SYSTEM STATES (DC. LINK CURRENT & SPEED), USING ADC., C

CCT TO EXECUTE LINK-LAYER CONTROL, TRANSCIVER & LINE-INTERFACE FUNCTIONS BETWEEN HOST COMPU

CCT CHANGES FOR SIMPLE 10M FM. RECEIVER (CORRECTION TO PREVIOUS ARTICLE)

CCT USING 68701 TO LOAD EPROM. DATA INTO 8749, 8741, 8742 OR 8748 MICROCOMPUTER (UC)

INTERFACE CCT

CCT USING UP. TO RECEIVE & INTERPRET INPUT SIGNALS/CCT USING SPEECH SYNTHESIZER & AUDIO SIGNAL A

CCT TO INTERFACE 68000 UP. WITH SERIES OF Z85XX PERIPHERAL CHIPS, USING PAL32R16 (BBB)

CCT SHOWING PIA. INTERFACE CONNECTIONS TO NATIONAL SEMICONDUCTOR ADC./CCT IN SETUP TO COLLECT

MOTOR SPEED CONTROL CCT & 'IN-LOCK' INDICATOR/MOTOR DRIVE CCT & TACHOGENERATOR PULSE SHAPER

ALTERNATING POLARITY PULSE GENERATOR FOR HIGH-POWER COPPER HALIDE LASER APPLICATIONS, USING

CCT MODELS OF HV. AC. DEFLECTION PLATE DRIVER FOR SCANNING-BEAM SWITCH TO GENERATE INTENSE RF.

CCT TO PROVIDE IO. PORTS FOR INTEL 8096 (BBB)/CCT TO SET UC INTO EXPANSION MODES/CCTS TO USE OSCIL

CCT SHOWING INTERFACING OF WD2002 DATA ENCRYPTION UNIT TO MICRO-PROFESSOR Z80 PROCESSOR SYS

CCT TO SUPPLY BIAS CURRENT TO SIMULATED-CARBON MICROPHONE, & COUPLE AUDIO TO DYNAMIC OR CRYST

CCT USING 3-TERMINAL IC VOLTAGE REGULATOR TO STABILIZE MOBILE TRANSMITTER LO. (MASTER OSCILLATO

CRT. CONTROLLER-KEYBOARD INTERFACE MODULE INCLUDING CENTRONICS-TYPE PARALLEL-PRINTER PORT F

CCT SHOWING HITACHI LCD. MODULE CONNECTED TO 6800 CPU. (PROCESSOR) (BUS), INCLUDING RAM. & EPROM

INTERFACE THAT TRANSFERS DATA SAMPLES FROM FAST 12-BIT ADC. TO 6800 UP. SYSTEM THROUGH PIA. FOR

CCT USING 5V REGULATOR, THAT ALLOWS NULLING OF NEGATIVE CHARGE INJECTION INTO SH. CCT'S STORAGE

CCT TO EXPAND ZX81 MEMORY BY 16K, WITH NEGATIVE BIAS OF ~3V GENERATED BY NAND GATE, CAPACITOR &

CCT SHOWING Z8 MICROCOMPUTER INTERFACES TO HOST, SPECTRUM 2000 & CONTROL-PANEL OF PRINTER

CCT TO INCREASE (EXPAND) Z80 UP. MEMORY SPACE FROM 64K TO 512K BYTES, USING EXTERNAL BANK-SELEC

CCT TO REGULATE POWER FOR CCT TO CONVERT IBM PC.'S NORMAL LIGHT CHARACTERS ON DARK BACKGROU

INTERFACE USING 5V REGULATOR TO FEED CONSTANT CURRENT TO TELEPHONE LINE, PROVIDING LOGIC SIGN

CCT FOR RTTY. OPERATION, TO INTERFACE TTL. COMPATIBLE TU. TO TS-1000 (2)/CLOCK CCT TO SELECT BAUD R

CCT TO ALLOW 2 UP.S TO ACCESS SAME BANK OF DRAM., USING DUAL PORTED CONTROLLER (BBB)

CCT USING INPUT PORT & MEMORY TO IMPLEMENT START-UP SEQUENCE IN Z80 UP. SYSTEM (BBB)

CCT ALLOWING BOOTSTRAP PROM. IN Z80-8080 CPU. (PROCESSOR) SYSTEM TO BE LOCATED ON ANY 4K BOUND

OPTICAL-ENCODER SIMULATOR CCT/UC-BASED CCT TO SIMULATE BUS MASTER FOR MOTOROLA IO. CHANNEL B

OPTICAL ENCODER INTERFACE FOR UP., CONSISTING OF 2 SETS OF LATCHES, 4-TO-16 LINE DECODER, 2 AND G

CCT SHOWING Z8581 CLOCK GENERATOR & CONTROLLER/CCT THAT Z8581 SLOWS UP. DURING IO./(BBB)

DATA-ACQUISITION & STEPPING MOTOR CONTROL SYSTEM INCLUDING UP., RAM., ROM., IO., COUNTER-TIMER, S

CCT USING PROCESSOR THAT ACCEPTS VIDEO, HORIZONTAL SYNC, & VERTICAL SYNC, & DIRECTLY DRIVES RED

CCT TO CONNECT 3630 EEPROM. TO Z80 UP. (BBB)

CCT TO INTERFACE NCR IC TO IMPLEMENT SCSI. IN SYSTEMS TO Z80A UP. ON AMPRO LITTLE BOARD COMPUTE

CCT TO PROVIDE POWER-UP-POWER-DOWN PROTECTION, FOR USE OF EEPROM. WITH UC/SAME INCLUDING PR

CCT FOR ADDING RESET BUTTON ON ZX81-T1000 COMPUTER FOR STARTING OVER

CCT CONNECTING LOCAL MASTER TO 68175 BUS CONTROLLER

CCT TO MONITOR CURRENT OUTPUT FROM PS.'S 5V RAIL, USING DAC. TO PROVIDE CURRENT TRIP POINT PROG

CCT TO INVESTIGATE MAGNETIC FIELDS INDUCED IN SUPERCONDUCTOR, INCLUDING VARIABLE-RATE PULSE GE

CCT TO MAKE INVERTED LOGIC LEVELS ON ADDRESS & DATA BUS LINES OF HEATH H8 COMPUTER COMPATIBLE

CCT TO INJECT MODULATION INTO PS./PS. REJECTION RATIO TEST CCT/PSU REGULATION CCT

CCT SHOWING PINOUT OF Z80 UP., WITH 2MHZ CLOCK CCT

CCT SHOWING TYPICAL UP. ACCESS METHOD, WITH TEST ACCESS CARD PLUGGED IN AT EXPANSION CARD CON
 CCT INCLUDING 12V-DC. SUPPLY & VFO./ADJUSTABLE-OUTPUT PS. FOR SOLID-STATE REMOTE UNITS/BUFFER CO
 CCT OFFERING EXCEPTION-VECTOR PROGRAMMABILITY FOR 68000 UP., ALLOWING POWER-ON-RESET (POR) VE
 CCT INCORPORATED INTO WOODEN HEAD THAT WILL "TALK", "SING", & "YODEL" IN SYNC WITH AUDIO SOURCE
 OUTPUT ADAPTER FOR THE EXPANSION PORT OF A RADIO SHACK COLOR COMPUTER
 CCT TO PROVIDE CHANGES IN HARDWARE NECESSARY FOR TRS-80 TO USE INTERRUPTS (4)/+5VDC. PS.
 INTERRUPT TIMER USEABLE TO REPLACE MP-T INTERVAL TIMER BOARD FOR USE WITH FLEX SPOOLING LOGIC
 CCT SHOWING FUJITSU FLOPPY DISK CONTROLLER (FDC) CHIP, INCLUDING MPU., FLOPPY DISK DRIVE (FDD), VF
 CCT TO ENSURE SERIAL-COMMUNICATIONS CHIP HAS VALID DATA AT START OF WRITE CYCLE (BBB)/CCT TO RE
 CCT USING IC VOLTAGE REGULATORS TO ALLOW ACCURATE SETTING OF QUIESCENT CURRENT, & MAINTAIN TH
 CCT TO IMPLEMENT 16-BIT PORT FOR Z80 UP., USING 4 ADDITIONAL IC'S, ENABLING WRITING OF NUMBER TO 64K
 CCT TO GENERATE EARLY READ-WRITE STROBE TO HELP CPU. MEET SET-UP & HOLD TIMES WHEN WRITING TO
 CCT TO MEASURE TEMPERATURE, USING IC TRANSDUCER/RANDOM-NOISE GENERATOR/SIMPLE NOISE GENERA
 ULTRASONIC CLEANER USING MICROCONTROLLER, INCLUDING OPERATING & TIME-TEMPERATURE CONTROL SE
 ACTIVE PMT. VOLTAGE DIVIDER CHAIN FOR MINIBALL DETECTORS, INCLUDING "BOOSTER" STAGES/LED. TRIGGE
 CCT USING SINGLE-CHIP MICROCONTROLLER & RS-485 CONVERTER, TO ENABLE 7-SEGMENT LED. DISPLAY PAN
 DETECTOR USING DIODE CONNECTED TO FEEDBACK AMP. USING BIFET. OA., WITH DC. VOLTAGE GAIN OF 120 &
 CCT THAT CYCLES 1802 THROUGH RESET & INTO RUN (ARTICLE LESS CCT IN KIMI8201, CORRECTIONS)
 CCT USING VSB 32-BIT BUS CONTROLLER CHIP TO INTERFACE 68020 32-BIT UP. TO VME SUBSYSTEM BUS (VSB)
 CCT TO RESPOND TO 110V AC. POWER-LINE FAILURE IN AS LITTLE AS 8.3MS (0.5 CYCLE) FOLLOWING OUTAGE O
 BATTERY BACK-UP SUPPLY FOR MEMORY POWER, TO PROTECT MOS. RAM.S FOR 24HR IN CASE OF POWER LOS
 INTERFACE/PROGRAMMABLE SIGNAL GENERATOR CONSISTING OF ADDRESS SCANNING CCT, EPROM. STORING
 CCT TO PROVIDE HEX DISPLAY OF BUS-STATES, USING "GAL" PROGRAMMABLE DEVICE & COMMON-ANODE LED.
 INTERFACE BETWEEN FLASH EPROM. (WHICH STORES 32768 (32K) BYTES OF DATA) & MICROCONTROLLER, INCL
 CCT USING MELODY-GENERATOR CMOS. LSI. DEVICE, WITH VOLUME CONTROL & PREAMP. OUTPUTS DRIVING C
 CCT THAT WILL FLASH LED. ONCE PER SECOND FOR A YEAR ON 2 C-CELLS
 CCT USING IGT (INSULATED-GATE TRANSISTOR) TO DRIVE CLAMPED INDUCTIVE LOAD/CURRENT-LIMITING CCTS
 CCT WITH MEMORY CONTROL SIGNALS RUNNING THROUGH 1 10-BIT BUFFER, TO MINIMIZE SIGNALS' SKEW, INCL
 CCT USING DIGITAL POTENTIOMETER, TO TUNE CUTOFF FREQUENCY OF TELEPHONE-BAND BUTTERWORTH LPP
 CCT TO DETECT ENVELOPE DECAY/INVERTING COMPARATOR WITH HYSTERESIS/CCT TO TEST DTMF. FILTERS
 INTERRUPT CONTROLLER THAT USES ROTATING PRIORITY SCHEME OR FIXED-PRIORITY
 CCT TO RECORD POSITION OR MOTION OF ANIMAL BODY PARTS, INCLUDING HEAD STAGE & HF. OSCILLATOR CO
 INTERFACE CCT ALLOWING DOT-BAR DISPLAY TO BE REPLACED BY NUMERICAL READOUT/DOT-BAR TO AUDIO C
 CCT FOR PROTECTING BIRDS FROM CAT USING LED. FLASHER TO GET SOUND WITH LOW CURRENT REQUIREME
 ANTENNA RELAY SEQUENCING CCTS USING TIMING CCTS, WITH DIODES PROVIDING ISOLATION/-150V TETRODE
 MOTOR SPEED CONTROLLER USING FIXED-VOLTAGE REGULATOR & 4-TERMINAL NEGATIVE REGULATOR, PROVI
 CCT SHOWING CONNECTIONS TO MAX232, CONTAINING 2 TRANSMITTERS & 2 RECEIVERS FOR IMPLEMENTING R
 AUTOMATIC FINE TUNING (AFT) IC OF SAMSUNG CT-510AL TV., & ASSOCIATED CCT INCLUDING DISCRIMINATOR T
 CCT SHOWING CHANGES IN MIKE AMP. THAT DRIVES GUNN DIODE PS. ADJUST TERMINAL FOR WIDEBAND FM./CO
 ULTRASONIC DETECTOR THAT PROVIDES RELAY CLOSURE WHEN INPUTS AT OR NEAR CERAMIC TRANSDUCER'S
 ACTIVE BANDPASS FILTER/STATE VARIABLE FILTER WITH MULTIPLE FILTERING OUTPUTS/2-WAY INTERCOM
 CCT USING PRECISION MONOLITHICS' 12-BIT SERIAL-INPUT MULTIPLYING CMOS. DAC. CONNECTED TO EXTERNA
 CCT TO POWER CMOS. IC'S FROM RS-232C LINES, USING SCHOTTKY DIODES TO RECTIFY SIGNALS ON DTR & TD
 CCT USING PRECISION MONOLITHICS 12-BIT SERIAL-INPUT CMOS. DAC. USING R-2R RESISTOR LADDER, FOR US
 ULTRASENSITIVE PICOAMMETER-ELECTROMETER ALLOWING MEASUREMENT TO 1PA & 1TOHM, TO MEASURE MI
 CCT TO LINK POCKET COMPUTER INTERFACE TO LARGER COMPUTER, INCLUDING IC WHOSE BUFFERS CONVER
 CCT USING I²C-COMPATIBLE LED. DISPLAY CONTROLLER, TO DRIVE 4-DIGIT 7-SEGMENT LED. DISPLAY UNIT, IN
 CCT THAT GENERATES 5V AT 150MA FROM -35 TO -75V WITHOUT TRANSFORMER, USING SWITCHING REGULATO
 CCT TO DIFFERENTIATE SIGNAL PRODUCED BY PYROELECTRIC DETECTOR USED TO PROFILE BEAM

CCT TO MEASURE EQUIVALENT NOISE RESISTANCE OF NONBIASED OR PHOTOVOLTAIC PHOTODIODES
CCT THAT PERFORMS SQUARE-LAW AMPLIFICATION OF INPUT CURRENT, USEFUL IN PLL. FREQUENCY SYNTHESIS
CCT TO EVALUATE DAC. PERFORMANCE, PROVIDING TIMING & CONTROL SIGNALS & MEANS FOR PROGRAMMING
CCT FOR USE IN SEDIMENTATION ANALYSIS OF FINELY DIVIDED SOLID MATERIALS, USING DIFFERENTIATOR
CCT TO SEND POWER-FAILURE WARNING TO UP. WHEN RAW 8V DC. BEGINS TO DROP/CCT THAT HAS 25MS RES
CCT TO TRACE COMPLETE I-V CURVES, BASED ON PRINCIPLE THAT VOLTAGE GENERATED BY SOLAR CELL IS NE
CCT TO DRIVE TUNING FORK CHOPPERS SUCH AS BULOVA L40 & L2 SERIES, WITH GOOD DRIVE-AMPLITUDE STA
CCT FOR INTERFACE & CONTROL OF CCD. PHOTOARRAY WITH 1728 ELEMENTS, INCLUDING VIDEO AMP., OA. US
CCTS THAT SYNTHESIZE 4 DISTINCT HUES FROM 2 PRIMARY OPTICAL COLORS BY CONTROLLING DRIVE TO ELE
CCT USING MAXIM EIA.-TIA DRIVER RECEIVER CHIP (3V RS-232 TRANSCEIVER) GUARANTEED TO OPERATE DOWN
CCT TO SUPPLY -13.5V NEEDED BY LCD., INCLUDING TRIM POT TO ADJUST -13.5V
CCT USING MAXIM DUAL-OUTPUT SWITCHING REGULATOR THAT OPERATES WITH INPUT AS LOW AS 1.8V & PRO
CCT USING OA. THAT USES BOOTSTRAP AMP.S TO MINIMIZE BIAS CURRENTS & MAINTAIN ESD. PROTECTION
ULTRASONIC RODENT ELIMINATOR (REPULSER) USING AF. POWER AMP. CONFIGURED AS MOD. WEIN-BRIDGE O
CCT TO ACCURATELY SUPPLY FULL-WAVE RECTIFICATION FOR 16MHZ SIGNALS, USING 5-TRANSISTOR HF. (BRO
ACTIVE-RECTIFIER CCT TO CONVERTS AMPLITUDE OF AC. SINE WAVES TO EQUIVALENT DC. LEVELS, CONSISTIN
POTENTIOSTAT CCT & UP. INTERFACE, USING INTEL SDK-85 MICROCOMPUTER SYSTEM, DAC.S, VFC., 2KX8 EPRC
CCT THAT GENERATES OUTPUTS IN ANALOG & DIGITAL FORM, PROPORTIONAL TO SQUARE ROOT OF INPUT VOL
BATTERY-BACKED SUPPLY INCLUDING POWER SUPERVISOR IC USING GANGED INVERTER AS SSR. TO POWER S
CCT USING SERIAL-INTERFACE CHIP/CCTS USING SWITCHES & BUFFERS TO CONTROL OPTICAL ISOLATOR (6)/C
CCT TO DETERMINE PRESSURE DEPENDENCE OF LED. PRESSURE TRANSDUCERS
CCT USING STEREO SOUND CONTROL SYSTEM IC TO CONTROL VOLUME, BALANCE, BASS & TREBLE IN AUDIO S
OPTICAL TRIGGER CCT USING MOD. NANOSECOND THYRISTOR SWITCH (SCR.) WITH END OF TO-18 CASE REMOV
EXTERNAL SHUTDOWN CCT THAT CONSERVES POWER BY DROPPING TRIPLE VIDEO DAC.'S SUPPLY-CURRENT F
CCT IN WHICH PLD. DECODES OUTPUT OF ADC., ENERGIZING 1 OUTPUT FOR GIVEN RANGE OF OUTPUT VALUES
CCT USING MAXIM PANEL METER MODULE (DMM. IC) WHOSE DIFFERENTIAL INPUTS ARE USED TO REMOVE IR DI
CCT OF BAND-PASS NETWORK, USING OA.
1-TRANSISTOR TEMPERATURE REGULATOR FOR REGULATING SUBSTRATE TEMPERATURE
CCT SHOWING FRANCK-HERTZ-EXPERIMENT (REDUCED SCHEMATIC)
CCTS THAT DRIVE 7-SEGMENT LED. DISPLAYS & GIVE HEXADECIMAL OUTPUTS FOR BINARY INPUTS (2)
CCT SHOWING COONNECTIONS TO IC ZERO VOLTAGE SWITCH/ISOLATION CCT USING PULSE TRANSFORMER/CCT
DETECTOR CCT USING MOLECTRON IR. DETECTOR AMPLIFIED BY FET. INPUT OA. WITH BOOTSTRAPPED GAIN O
CCT USING MAXIM +-5V CMOS. VIDEO OA. THAT DRIVES 75OHM LOAD, SLEWS AT 150V-USEC & SETTLES TO WITH
CCT TO MEASURE METERING PUMP SPEED, INCLUDING OPTICAL SWITCH/CCT TO METER PUMP MOTOR CONTROL
CCT TO INDUCE HYSTERESIS EFFECTS, USING DIFFERENTIAL AMP./CCT THAT INTEGRATES CURRENT FLOWING
CCT WHOSE OUTPUT TRACKS NEGATIVE GOING DEFLECTIONS OF SPIROGRAM, FOR AUTOMATIC COMPUTATION
INTERFACE OF 1-CABLE VIDEO SYSTEM THAT CARRIES COMPOSITE VIDEO, POWER & CHANNEL-SELECT SIGNAL
CCT (FOR X-SWEEP & TUNER SCAN-CENTRE FREQUENCY SETTING) OF SPECTRUM ANALYSER, TO SWEEP TV. TU
CCT (USING DAC., OA.S & 2.5V REFERENCE) THAT INTERFACES TO MICROCONTROLLER, ABLE TO GENERATE SIN
CCT TO BIAS TRANSISTOR AT GIVEN I_C (COLLECTOR CURRENT) & V_{CE} (COLLECTOR-EMITTER VOLTAGE), USING
CCT FOR FRONT-END ANALOGUE PROCESSING OF ECG. SIGNAL, INCLUDING DIFFERENTIAL AMP., & NOTCH & BU
BATTERY-POWERED REMOTE-READING INTEGRATING THERMOMETER WITH APPLICATION IN ENERGY-CONSERV
CCT REPRESENTING DRIVEN PIECEWISE-LINEAR SYSTEM, CONTAINING NONLINEAR-RESISTOR/STROBED POINC
CCT TO ENABLE LCD. DRIVER TO DRIVE 8 1IN LCD.S THAT EXHIBIT LARGE CAPACITANCE BETWEEN COMMON & S
CCT USED TO DETERMINE PRESSURE DEPENDENCE OF FORWARD BIAS OF LED.
EXTENDED-RANGE 555 TIMER CCT
AUTOMOTIVE DIGITAL OIL PRESSURE GAUGE
CCT TO SUPPRESS ARTIFACTS IN EEG. SIGNAL THAT RESULT FROM STIMULATION PULSES, USING SAMLE-&-HOL
CCT TO BE USED WITH MA1026 CLOCK MODULE TO VARY BRIGHTNESS OF LED. DISPLAY AUTOMATICALLY WITH

CCT CONSISTING OF DERIVATIVE AMP., PRODUCT DETECTOR, LF. AMP., INTEGRATOR, & TRACK & HOLD CCT
 CCT USING INTERMETALL IC'S FOR DSP. IN TV., CONTROLLED BY CENTRAL UC THAT COMMUNICATES COMMAND
 ACTIVE-C OTA.-BASED OSCILLATOR CCT WITH NONINTERACTIVE ELECTRONIC TUNABILITY & LOW SENSITIVITY, V
 CCT USING MONOLITHIC UP.-CONTROLLED PROGRAMMABLE ACTIVE FILTER, SHOWING CONNECTIONS TO PARA
 ACTIVE RC. CCT FOR 90DEG PHASE SHIFT/MUX., ADC. & LATCHES OF HPU (HYBRID PROCESSING UNIT) CCT, INCI
 CCT TO ADD SWEPT FREQUENCIES & OUTPUT OF TRIANGLE WAVES, VARIABLE-WIDTH PULSES & SINE-COSINE V
 CCT USING APEX SUPER-HV. OA. WITH OPEN-LOOP GAIN OF 108DB/CCT TO MONITOR SMALL CHANGES IN VOLTA
 BATTERY-POWERED THERMOMETER THAT OPERATES ONLY WHEN LIGHTS ARE ON, USING ADC., 3.5-DIGIT LCD.,
 INTERFACE CCT TO DEVELOP QUALIFYING SIGNALS TO EXTERNALLY TRACE PROGRAM EXECUTION WITHIN 6803
 CCT BOOTSTRAPPING PS.S TO OPERATIONAL VOLTAGE FOLLOWER/CAPACITANCE-NEUTRALISED VOLTAGE FOL
 CCT USING DUAL VOLTAGE COMPARATOR, WHERE INPUT SIGNAL GREATER THAN OR EQUAL TO REF. VOLTAGE
 CCT CONTAINED ON MOTHER BOARD OF DIGITAL PHASE METER (2)/CCT CONTAINING LED. DISPLAYS, INPUT STA
 CCT TO PERFORM DUAL WAVELENGTH ABSORBANCE MEASUREMENT/PULSED EMITTER PHOTODETECTOR/AUTO
 CCT USING 1 SH. AMP. TO HOLD SAMPLED SIGNAL CONSTANT FOR ADC. WHILE OTHER ACQUIRES NEXT SAMPLE
 CCT THAT GENERATES CONSTANT-VOLTAGE, CONSTANT-CURRENT OUTPUT, USING CASCADED REGULATORS
 ANTENNA BRIDGE
 CCT OF ARRAY & INTERFACE TO PDP-11 MINICOMPUTER, USING PHOTOTRANSISTORS & ANALOG MUX.
 AUTOMATIC BRIDGE BALANCE AMP.
 ATTENUATOR & NEGATIVE PROTECTION CCT FOR 10V INPUT TO ANALOGUE INPUT
 CCT THAT USES 1 DATA LINE TO MUX. 2 TYPES OF PULSE WAVEFORMS, 1 WHOSE AMPLITUDE & TIME RELATION
 CCT TO OR SIGNALS, USING GAIN-OF-2 INVERTING & NONINVERTING AMP.S/RC. PHASE-SHIFT OSCILLATOR WITH
 BATTERY-BACKUP PS. TO KEEP REACTS SYSTEM RUNNING IN EVENT OF POWER FAILURE, USING GEL CELLS, VO
 CCT TO CONVERT UNIPOLAR PULSE TRAIN INTO SYMMETRICAL BIPOLAR PULSE TRAIN, USING EDGE-TRIGGERED
 CCT TO OBTAIN OUTPUT THAT IS LINEAR WITH SENSED VARIABLE FROM ANY SENSOR, USING 8-BIT ADC., EPROM
 CCT THAT CONNECTS TO PC.'S PARALLEL PRINTER PORT & PROVIDES DC. POWER & CONTROL TO STEPPER MO
 RATE-LIMIT SENSOR USING TRISTROBED TRANSCONDUCTANCE AMP. TO IMPROVE NOISE IMMUNITY, INCLUDING
 CCT FOR MEASURING WIRE TENSION OF CYLINDRICAL DRIFT CHAMBER, INCLUDING BRIDGE CCT, BUFFERS (JFE
 INTERFACE FOR TBC (BBB)/LOGIC FOR 80186 & MC68824 COMMUNICATIONS (BBB)/MEMORY CONTROLLER (BBB)/
 CCT SHOWING REWIRING IN COLLINS 32S-3, TO ELIMINATE HASH DURING CW. QSK OPERATION
 ITT REMOTE CONTROL TRANSMITTER INCLUDING ULTRASONIC TRANSDUCER/INTERFACE BOARD (RECEIVER CO
 INTERFACE CCT FOR TRS-80, TO DRIVE CASSETTE-INPUT PORT FROM PC.'S CASSETTE-OUTPUT PORT/INTERFAC
 CCT TO EXTEND RANGE OF DPM. CHIPS & MODULES, CONSISTING OF VOLTAGE DIVIDER (SOLID-STATE ANALOG)
 EXTERNAL ZCD. WITH HYSTERESIS, TO GIVE CLEAN SQUARE WAVE INPUT TO CD4046 PLL. AT LF.S & EXTEND DY
 INTERFACE MODULE BETWEEN PC.'S PRINTER PORT & MULTIPLE SERIAL DEVICES/SERIAL 9-BIT & 12-BIT ADC. MO
 CCT THAT FILTERS OUT HF. ALIASES & QUANTIZATION NOISE & PROVIDES SINC-FUNCTION COMPENSATION, USI
 CCT USING PWM. TO GRADUALLY BUILD UP POWER SUPPLIED TO HALOGEN LAMP, USING DUAL OA., 2 MOSFET.S
 CCTS SHOWING UA741 TEST LOOPS WITH COMPENSATION (2)/LM111 TEST LOOP WITH TYPE I COMPENSATION
 CCT INCLUDING HIGH-INPUT IMPEDANCE AMP., VOLTAGE FOLLOWER, LPF. & CONTROL CCT
 CCT TO AVOID EXCESSIVE CIRCULATING CURRENTS INDUCED IN RECEIVER DURING RF. TRANSMITTER PULSES,
 CCT TO CONTROL SMALL UNIPOLAR STEPPING MOTOR, USING \$10 IC CONTAINING COMPLETE CONTROL LOGIC
 CCT FOR SIMULATION OF LOSSLESS FLOATING INDUCTANCE, USING OTA. & 2 CURRENT CONVEYORS (CCII'S) EA
 POTENTIOSTAT INCLUDING VOLTAGE REFERENCES & CURRENT-TO-VOLTAGE CONVERTER (2)/COMPUTER INTERF
 CCT USING MAXIM CONVERTER USING DUAL VOLTAGE-DOUBLER CHARGE PUMPS THAT CAN PUT OUT UP TO 10V
 CCT FOR EXTERNAL TRIGGERING OF LUMINESCENCE LIFETIME MEASUREMENT SETUP, PHOTODIODE, INCLUDIN
 CCT THAT USES LAPTOP COMPUTER SYSTEM'S POSITIVE BATTERY SUPPLY TO GENERATE DIGITALLY VARIABLE
 AUTOMATIC ZERO CCT OF INTEGRATING FLOWMETER/LINEARITY COMPENSATION AMP. TO CORRECT VARIATION
 CCT USING 50MHZ VIDEO AMP.S CONTAINING MUX.S, TO MUX. 64 CHANNELS/CCT TO DRIVE CAPACITIVE LOAD/C
 CCT USING SEMICONDUCTOR (TRANSISTOR) AS SENSING ELEMENT TO MEASURE TEMPERATURE, WITH OA. OFF
 CCT CONTAINING SWITCHED ALIASING FILTER FOR DAS., CONSISTING OF SIMPLE 4-POLE (ACTIVE) FILTER USING

CCT USING OTA., TO PRODUCE INPUT-SQUARED OUTPUT WHILE AVOIDING COMPLICATION & EXPENSE OF USING EXTERNAL DIGITAL TEMPERATURE CONTROL UNIT USING 16-BIT DAC. TO SUPPLY CONTROL VOLTAGE BY INPUT CCT USING STEP-UP VOLTAGE (CHARGE-PUMP BOOST) CONVERTER (30MA FLASH-MEMORY PROGRAMMING PS. FET. RF. OSCILLATOR (CLAPP OSCILLATOR USABLE AS VERY SENSITIVE DIP OSCILLATOR OR METAL DETECTOR), CCT PROCESSING VIDEO OUTPUT INFORMATION OF LINEAR IMAGE SENSOR & USED AS MONITOR IN CONTROL S. CCT THAT GENERATES TTL. TRIGGER PULSE FROM INCOMING PULSE THAT IS NOT TTL. COMPATIBLE, WITH 10NS. CCT TO OVERCOME PROBLEM OF 8-BIT PERIPHERALS USING EVEN & ODD ADDRESSES, BY FORMING SEPARATE CCT USING MOSFET., THAT PROVIDES CONSTANT 4W LOAD WITHIN +0.2% FOR INPUT VOLTAGE FROM 9 TO 17V. CCT TO AID IN DEVELOPMENT OF UP SYSTEM BY SPYING ON PROTOCOL EXCHANGE BETWEEN HOST-RESIDENT CCT USING 8 CHANNEL MUX. THAT CAN PROVIDE 52DB GAIN UP TO 50MHZ/64 CHANNEL VIDEO MUX./8 CHANNEL CCT TO DETECT LOW SUPPLY VOLTAGE & DISABLE WRITE OPERATIONS TO MEMORY, USING REFERENCE DIODE INTERCARRIER TV. SOUND IF. AMP. & FM. DETECTOR, SHOWING VARICAP TUNABLE BANDPASS FILTER & QUADR CCT IN WHICH IONIZATION CURRENTS FROM P2 CHAMBERS ARE AVERAGED BY PASSIVE INTEGRATION & COUPL CCT INCLUDING CURRENT FOLLOWER & CCT TO PROVIDE ADJUSTABLE OFFSET VOLTAGE, FOR TIME RESPONSE CCT THAT PROVIDES CONTROL OF TRIANGULAR-WAVE GENERATOR IN WHICH CAPACITOR IS CHARGED & DISCH CCT THAT PROVIDES GLITCH-FREE 12-BIT PROGRAMMABLE PS. FROM 8-BIT CENTRONICS COMPUTER PRINTER F CCT SHOWING CONNECTION OF TUNING CCT (USING BACK-TO-BACK VARACTOR DIODES) TO 320MHZ SAW. RESO CCT TO MONITOR RESULTS OF PC.'S POWER-ON SELF TEST (POST), USING PLD.S AS DECODERS TO CONVERT D CCT THAT DELIVERS 15V FROM 5V SOURCE/DC.-DC. CONVERTER THAT PROVIDES HIGH CURRENT FOR SHORT P CCT USING CMOS. DAC. TO SET OR CHANGE CURRENT IN 4-TO-20MA PROCESS-CONTROL LOOP CCT USING 2 ANALOG SWITCHES & UNITY-GAIN AMP./CCT TO OUTPUT NATURAL LOGARITHM OF 0 TO 4V INPUT CCT CONSISTING OF INPUT FET. AMP., ISOLATION AMP. & POLE-CANCELLATION CCT THAT IMPROVES FREQUEN CCT SHOWING INTERFACING TO COMPUTER, USING PPI./CCT USING VOLTAGE REGULATORS TO PROVIDE 25.5V CCTS USING CONVERTERS TO PROVIDE +-12V (2)/CCT USING 2 1.2V MERCURY CELLS TO PROVIDE 4.8V/CCT TO C ACTIVE-R SINUSOIDAL OSCILLATOR CCT USING OA., OTA. & SINGLE RESISTOR/ACTIVE-C SINUSOIDAL OSCILLATO CCT USING VOLTAGE REGULATOR, SHOWING OPTIMUM RESISTOR VALUES TO SET OUTPUT WITHIN LIMITS OF 4. MOTOR SPEED CONTROL CCT (SWITCHING-MODE REGULATOR) USING OA., COMPARATOR & TRANSISTORS, TO C NETWORK CONSISTING OF FLOATING SERIES RL CCT, USING NETWORK THAT SIMULATES GROUNDED IMPEDAN CCT USING TIMER AS VFC. WITH PROGRAMMABLE FREQUENCY RANGE & LINEARITY TO WITHIN 0.01%, USING FE CCT TO CONTROL OPERATING VOLTAGE OF APD. OF LASER-RECEIVER CCT OVER WIDE TEMPERATURE RANGE, CCT FOR ANALOG GAIN-CONTROL USING 2-QUADRANT MULTIPLICATION/PRECISION VOLTAGE DIVIDER USING M CCT SHOWING SQUARE-WAVE GENERATOR, LOGIC UNIT, CHOPPER & SUMMING AMP./NUMERICAL DOWN COUNT CCT FOR 6522 PERIPHERAL INTERFACE DEVICE/ADC./DAC./SIMPLE DAC. USING PWM./MOD.S TO CCT IN MUX. CAP CCT TO SHUT OFF DRILL MOTOR ONCE PREDETERMINED LEVEL OF SKIN IMPEDANCE IS ATTAINED, FOR PURPOS POTENTIOSTAT & CURRENT AMP., INCLUDING DUAL OA., RCA WIDEBAND OA.S & 12-BIT ADALAB-INTERFACE CAP CCTS SHOWING HOW LF. 1-F NOISE IS KEPT BELOW 0.5UV PK-PK, FROM 1 TO 10HZ, BY ALTERNATING INPUT SIGN CCT USING OA. WITH FET. INPUT, TO COPY BETTER RTTY. ON KANTRONICS ALL-MODE (KAM) TNC., THAT CLIPS E CCT FOR APPARATUS TO DETECT RATE & DIRECTION OF ROTATION OF TETHERED BACTERIAL CELLS, THAT REC EXTREMELY STABLE QUARTZ-CRYSTAL-CONTROLLED OSCILLATOR WHOSE FREQUENCY VARIES WITH TEMPERA ULTRA-LOW-NOISE VOLTAGE AMP. FOR TUNNEL JUNCTION MEASUREMENTS, USING PARALLEL FET.S, ULTRA-LO CCT TO MEASUREME PULSE HEIGHTS WITH 12BIT ACCURACY FOR PULSES AS SHORT AS 750NS, USING ADC./CC ACTIVE LPF. (LINEAR ACTIVE NETWORK) (CCT UNDER TEST) COMPRISING 26 RESISTORS & CAPACITORS & 8 OA.S CCT THAT FLASHES LIGHTS SEQUENTIALLY TO LIVEN UP STORE WINDOW OR CREATE DO-NOTHING TOY FOR KID CCT USING HALL-EFFECT SENSOR IN GAP IN FLUX-COLLECTOR TOROID TO MEASURE DC. CURRENT IN RANGE 0 CCT WITH WILSON CURRENT MIRROR ADDED TO OUTPUT OF DAC., TO ADAPT DAC. TO BIPOLAR APPLICATIONS CCT TO GENERATE DIGITAL SAWTOOTH OUTPUT, USING 8-BIT DAC./PART OF SAME, WITH MOD. TO ALLOW NORM CCT FOR CONSTANT CURRENT (CC) OPERATION OF ELECTRON CAPTURE DETECTOR (ECD) (2)/CCT FOR FIXED F CCT TO CORRECT PTC.S & NTC.S BY SUMMING VARYING PROPORTIONS OF 2 SLOPES, USING TEMPERATURE SE ACTIVE FILTER USING INPUT BUFFER OF CURRENT-FEEDBACK AMP. AS ACTIVE ELEMENT, WITH PASSBAND GAIN

CCT USING TTL. COUNTER, 8-CHANNEL MUX. & 4TH-ORDER LPF., TO GENERATE SINE WAVES FROM 1KHZ TO 25K
CCTS USING 0.1F SUPERCAP & BATTERY-SWITCH-OVER IC THAT MONITORS SUPPLY & SWITCHES LOAD TO BATT
CCT USING FM. AUDIO DEMODULATOR, INCLUDING PAIR OF SERIES RESONATORS, TO HANDLE WIDEBAND FM. W
CCT TO MEASURE ION CURRENTS BY LANGMUIR PROBES
CCT TO REMOTELY CONTROL HIGH-VACUUM STOPCOCK USING STEPPER MOTOR DRIVER
CCT USING QUARTZ CRYSTAL IN PLACE OF LC. PHASING CCT, TO GIVE NARROW & STEEP DISCRIMINATOR RESP
CCT SHOWING BROADBAND MATCHING OF GAASFET., USING CHEBYSHEV IMPEDANCE MATCHING NETWORK/HY
CRT. DISPLAY CONTROLLER (CRTC)/COMPOSITE VIDEO CCT USING DAC./INPUT BUFFER TO ACCUMULATE IMAGE
CCT TO MEASURE PULSED ECD (ELECTRON CAPTURE DETECTOR) CURRENT, USING OA. WITH 680PF CAPACITOR
INTEGRATOR CCT CONSISTING OF SIMPLE INTEGRATOR SUBCCT & AMBIENT TEMPERATURE, FLOW BASE-LINE-E
CCT THAT DISCONNECTS BATTERY FROM LOAD AT PREDETERMINED LEVEL OF DECLINING TERMINAL VOLTAGE,
CCT INCLUDING PHOTODIODES, PREAMP.S, DIFFERENCE AMP.S & COMPARATOR CCT/STAGE MOTOR DRIVE & BF
CCT USING MOSFET., TO SWITCH BETWEEN BATTERY PACK & EXTERNAL SUPPLY/CCT USING BATTERY-CHARGE
CCT TO MEASURE CAPACITANCE, SERIES & SHUNT RESISTANCES OF SEMICONDUCTOR JUNCTIONS
CCT SHOWING COMPLETE DAC., TAILORED FOR 8-BIT UP. SYSTEMS
AUTOMATIC 2KHZ RING-TONE DETECTION SYSTEM THAT PROVIDES INTERFACE BETWEEN CORDLESS (RF.) TELE
CCT TO INTERFACE CMOS. 16-CHANNEL, 8-BIT DAS. (ADC.) TO SS-50 BUS, WITH DECODING
MOTION DETECTOR
CCT USING SIGNETICS LSI. IC TO DRIVE 4-PHASE STEPPER MOTOR, WITH DIRECTION SIGNAL APPLIED TO MODE
CCT USING SIGNAL SUPPLIED BY UTERINE ACTIVITY TRANSDUCER TO CONTROL INJECTION PUMP WITH SWITCH
ACTIVE IMPLEMENTATION OF TRANSFORMED NORMALISED 4TH-ORDER BUTTERWORTH LPF., WITH CUTOFF FRE
CCT USING MAXIM'S 5V POWER-CONSERVING DUAL RS-232-C TRANSCEIVER (DRIVER-RECEIVER) IC USING ON-C
CCT TO ALLOW APPLE COMPUTER TO CONTROL STEPPER MOTOR, USING MOTOR DRIVER IC, 6522 PARALLEL IN
CCT USING 2 HIGH INPUT IMPEDANCE, LOW INPUT CURRENT OA.S & GENERAL PURPOSE OA. TO REALIZE REQUI
CCT TO MEASURE CAPACITANCE, SERIES & SHUNT RESISTANCES OF SEMICONDUCTOR JUNCTIONS, BASED ON
CCT USING 5TH-ORDER DC. ACCURATE BUTTERWORTH LPF. USING SWITCHED-CAPACITOR NETWORK, TUNABLE
ULTRASONIC (15KHZ TO >100KHZ) AGC. AMP. WITH 60DB INPUT RANGE, THAT COMPRESSES 1:1000 INPUT DYNAM
METAL DETECTOR USING RF. OSCILLATOR, SEARCH COIL, RECTIFIER & SMOOTHING SECTION, VOLTAGE COMPA
CCT TO SWITCH ON SMALL, LV. LAMP AUTOMATICALLY WHEN LIGHT LEVEL SENSED BY LDR. FALLS BELOW SET P
OPTICAL LOGARITHMIC DETECTION CCT USING OA. WITH SHUNT FEEDBACK TO CONVERT PHOTODIODE CURREN
ULTRASONIC TRANSMITTERS USING 40KHZ TRANSDUCER (3)/RECEIVERS (4)/VER HIGH GAIN RECEIVER USING DI
HOT-WIRE ANEMOMETER (BRIDGE)/AMPLITUDE & FREQUENCY DEMODULATORS WHOSE OUTPUT VOLTAGES ARE
CCT TO MEASURE PHOTOCURRENT OF THIN FILM PHOTODETECTOR, INCLUDING CURRENT-VOLTAGE (I-V) CONV
CCT THAT CONVERTS 8-BIT DAC., TO PROVIDE 9-BIT RESOLUTION, BY SUMMATION OF COMPLEMENTARY OUTPU
CCT TO GENERATE ELECTROSTATIC DEFLECTION SIGNALS FOR CRT., DEPENDING ON ROTATION ANGLE/CCT TO
PATTERN GENERATOR TO GENERATE WIDE VARIETY OF VISUAL PATTERNS ON CRT., USING PROGRAMMABLE O
CCT SHOWING PHILIPS APPLICATION OF PDM (PULSE DENSITY MODULATION) SYSTEM/APPLICATION OF MASH S
CCT TO SENSE SHORT CCTS IN REMOTE EQUIPMENT BY SENSING CURRENT THROUGH DATA LINE TO CONTROL
RATE-LIMIT SENSOR THAT PROVIDES OUTPUT ONLY IF ANALOG VOLTAGE BEING MONITORED EXCEEDS PRESET
CCT THAT PROVIDES POSITIVE-GOING OUTPUT PULSES FOR CORRESPONDING PULSES INPUT SIGNALS OF EITH
CCT THAT ENSURES THAT WATER IN TANK 1 (OF 2 TANKS) IS KEPT AT GIVEN LEVEL, SWITCHING ON PUMP IF WA
AUTONULLING AC. BRIDGE BASED ON PSD., WHOSE BRIDGE NULLING CCT USES ANALOG FEEDBACK NETWORK
ACTIVE FREQUENCY MULTIPLIER USING FEEDBACK LOOP (CONTAINING DIODES) OF CURRENT FEEDBACK AMP.
CCT THAT USES LATCHING RELAY TO DISCONNECT LOAD WHEN BATTERY VOLTAGE DROPS BELOW CERTAIN VA
CCT WITH ISOLATED TTL.-CMOS. & RS-232 INPUTS & OUTPUTS, USING OPTOCOUPERS, & 1:1 TRANSFORMER TO
CCT THAT MEASURES TRUE-RMS. POWER FROM DC. TO 10KHZ WITH AID OF VOLTMETER, USING KELVIN-CONN
CCT USING SWITCHING REGULATOR (DC.-DC. STEP-DOWN CONVERTER) THAT REGULATES TO 5V WHEN USING 9
INTERFACE TO PERMIT CONTROL (SIMPLIFY DRIVING) OF ROW OF 7-SEGMENT LED. DISPLAYS FROM PC.'S PARA
CCT TO DRIVE RCA CODY II TUBE/CCT TO DRIVE 7.8MH-40HM COIL AT 5A P-P/CCT TO DRIVE HEADS-UP DISPLAY

CCT THAT FROM TTL. LEVEL INPUT PULSE WILL TURN ON & OFF POWER SWITCH, WITH FRONT END INPUT ISOLA
CCT IN 1980-81 RCA XL-100 COLOR TV. CHASSIS, USING RCA SOUND IF. & AUDIO-OUTPUT IC DRIVING 32OHM SPE
CCT FOR CURRENT INTERRUPTION MEASUREMENTS, INCLUDING SH. CCT, CATHODE SWITCH, ANODE SWITCH, D
CCT USING 2 MDAC.S, WITH COMPENSATION FOR VARIABLE DC. OFFSET IN OUTPUT CURRENT/OFFSET-CANCEL
ULTRASONIC AMP. THAT DELIVERS 100V TO 200OHM LOUDSPEAKER (LOAD) AT 100KHZ, WITH QUASICOMPLEMEN
CCT USING OA. THAT INVERTS & AMPLIFIES TEMPERATURE-DEPENDENT BASE-EMITTER VOLTAGE OF TRANSIST
1ST & 2ND VERSIONS OF PREAMP. TO MEASURE BROWNIAN MOTION OF SMALL LOW TEMPERATURE ANTENNA, U
CCT TO MEASURE VOLTAGE OF HIGH IMPEDANCE SOURCE, USING OA. PICO-POWER DRIVING EMITTER FOLLOW
CCTS TO DRIVE DC. MOTOR (2)/TEMPERATURE CONTROL/AUDIO AMP./DEFLECTION AMP. FOR CRT., USING HV. O
CCT USING TRANSCEIVER HAVING 6 RS-232 DRIVERS (TRANSMITTERS) & 10 RECEIVERS, COMPRISING 2 DTE (DA
CCT USING LOW DROPOUT MICROPOWER CMOS. NEGATIVE VOLTAGE REGULATOR IC, WHOSE QUIESCENT CURR
CCT TO GENERATE POSITIVE VOLTAGE FROM -48V RELEPHONE SUPPLY, USING SWITCHING REGULATOR/CCT FO
CCT USING MAXIM RS232 IC CONTAINING VOLTAGE DOUBLER & INVERTER/KENWOOD TS-440S COMPUTER INTERF
CCT USING SUPERVISORY IC THAT GUARDS UP. & RAM. AGAINST PS. INTERRUPTIONS & FAILURES, OFFERING BA
BATTERY-MEASUREMENT CCT THAT, IN CONJUNCTION WITH QUARTZ ALARM CLOCK, TRACKS OPERATING TIME
CCT USING RIFA'S BIPOLAR STEPPER-MOTOR DRIVER, TAKING ADVANTAGE OF SPARE EXCLUSIVE-NOR GATE TO
CCT TO LET TV. DISPLAY CONTROLLER ADD TEXT TO VIDEO DISPLAYS, INTERFACING TVDC TO UP., STRIPPING S
OUTPUT BUFFERING CCT TO CONVERT THERMISTOR RESISTANCE CHANGES TO 0-1V DC. OUTPUT COMPATIBLE
CCT SHOWING CONNECTIONS TO GIGA-BIT LOGIC 10G070-4 GAAS. VARIABLE MODULUS 1.5GHZ FREQUENCY DIV
1-TUBE, 10W CW. TRANSMITTER
FUTUREBUS+ INTERFACE USING BUS ARBITER, PROTOCOL CONTROLLER, PACKET-DATA FIFO. BUFFER & BIDIRE
CCT SHOWING CONVERSION TO HALLICRAFTERS HA-5 VFO. THAT IS CATHODE-KEYED, TO ENABLE RIG TO BE GR
CCT DEMONSTRATING MOD. MULTIPLE TIME DIGITIZER PRINCIPLE, INCLUDING WRITE & READ SYNCHRONIZERS,
CCT USING DBM./STABLE SOURCE CONSISTING OF COLPITTS OSCILLATOR & BUFFER AMP./VCO. TUNEABLE FRO
CCT TO PRODUCE FAST SETTLING VOLTAGE STEP TO 0V LEVEL, WITH SETTLING TO 0.1% IN 3.3NS & TO 0.01% IN
CCT TO TIE DISK CONTROLLER & RAM. BUFFER CHIPS TO 8088- OR 8086-BASED SYSTEM
WATTMETER USING TINY HALL CHIP ON FERRITE BEAD, & 100UA METER TO GIVE READING PROPORTIONAL TO P
CCT TO ADD SEPARATE VOLUME CONTROL FOR HW-101'S CW. SIDETONE
CCTS THAT PROTECT UP.'S IO. LINES AGAINST DESTRUCTIVE TRANSIENTS (SPIKES), USING 100KHZ LPF., ZENER
FUTUREBUS+ SYSTEM ARCHITECTURE USING SIGNETICS' FUTUREBUS+ CHIP SET INCLUDING BTL (BACKPLANE T
CCTS SHOWING USE OF VARICAP DIODES TO PROVIDE REMOTE VOLTAGE CONTROLLED TUNING, SHOWING SIN
CCT USING APEX MICROTECHNOLOGY 200V MOSFET. POWER BOOSTER THAT DELIVERS 2A OUTPUT CURRENT &
CCT USING APEX MICROTECHNOLOGY MOSFET. POWER BOOSTER FEATURING VOLTAGE TO +-100V SUPPLIES, &
NOTCH FILTER FOR SW.
GATE, MIXING & BUFFER CCTS/CCT TO CONVERT TTL. VOLTAGE PULSES TO CURRENT PULSES
CCT USING RIFA 2-CHIP SET FOR MICROSTEPPING OF 2-PHASE BIPOLAR STEPPER MOTOR, WITH UP. INTERFACE
CCT TO EXTRACT JITTER-FREE CLOCK SIGNALS FROM AM. BC. CARRIERS FOR AMATEUR SPREAD-SPECTRUM AF
CCT USING CHOPPER-STABILIZED OA. TO IMPROVE WAVEFORM OF MULTIVIBRATOR (ELDE820930)
GATED-PULSE OUTBAND DECODER
CCT IN WHICH OVERVOLTAGE-SENSOR IC DOUBLES AS POWER-ON RESET OR POWER-FAILURE-DTECTION DEVI
CCT TO DERIVE 50 OR 60HZ POWER LINE TIME BASE, USING PROGRAMMABLE DIVIDER WITH RATIOS OF 5 OR 6, I
CCT TO MONITOR DC.-DC. CONVERTERS, USING DUAL PROGRAMMABLE VOLTAGE COMPARATOR (WITH HYSTER
CCT TO CONTROL 12V FANS THAT DRAW UP TO 200MA, USING TEMPERATURE SENSOR, MAKING SPEED OF FAN
CCT THAT OPTOISOLATES SQUARE WAVE GENERATED AT RS-232 PORT (BY SENDING MARK-SPACE PATTERN) &
CCT USING POWER-CONTROL IC TO GENERATE STRIKE VOLTAGE OF 1000 TO 2000V TO DRIVE COLD-CATHODE P
CCT TO INTERFACE BETWEEN BALANCED RS-422A & UNBALANCED RS-232C TRANSMISSION STANDARDS, USING
CCT USING BURR-BROWN 18-BIT DAC. CAPABLE OF 8-TIMES OVERSAMPLING, WITH 16.9MHZ MAXIMUM CLOCK RA
CCT TO IMPLEMENT LEVEL-TRIGGERED INTERRUPT STRUCTURE FOR 68008 SYSTEM USING PRIORITY ENCODER
1ST STAGE OF RECEIVER DOWNCONVERTER, INCLUDING BALANCED MIXER & LO./PS./MITSUMI UHF. TV. TUNER/

CCT SHOWING ADC., DISPLAY & EXTERNAL RESISTORS & CAPACITORS IN INTEGRATOR-AUTOZERO LOOP
CCT FOR COLLECTOR OUTPUT OPERATION/CCTS IN VOLTAGE CONTROLLED MODE, USING VARACTOR DIODE &
EXTENDED ON-TIME TIMER (SWITCH DEBOUNCER) USING MULTIVIBRATOR/NO-DOZE ALARM/SELF-RETRIGGERING
CCT USING IC & 4 ELECTROLYTIC CAPACITORS, TO PROVIDE +10V (GENERATED BY INTEGRAL 20KHZ OSCILLATOR)
CCT TO SYNCHRONIZE CLOCK WHEN USING MULTI-PROCESSOR SYSTEM UTILISING R6502 & MC6809 PROCESSOR
CCT SHOWING MOTOROLA MC68HC16 UP.'S CLOCK GENERATOR USING PLL. TO DERIVE CPU. CLOCK WHOSE SP
CCT TO MONITOR 4 SUPPLY LEVELS FOR OVER- & UNDER-VOLTAGE CONDITIONS/AC. LINE-FAULT INDICATOR
CCT USING OPTO-ISOLATOR TO ISOLATE AUDIO FEEDS FROM LIVE CHASSIS
CCT USING DMA. CONTROLLER THAT MAKES DUAL UART. DMA.-COMPATIBLE BY INTERFACING IT WITH 68000 BUS
CCT SHOWING HOW TO IMPROVE LONG-PULSE PERFORMANCE OF MC14528 MONOSTABLE MULTIVIBRATOR
CCT USING CMOS. OA. TO CONTROL CURRENT THROUGH P-CHANNEL HEXFET. POWER TRANSISTOR
CCT TO PREVENT LEAVING CAR LIGHTS ON AFTER SWITCHING OFF IGNITION
CCT USING CLOCK CALENDAR-TIMER INCLUDING POWER FAILURE DETECTION CCT/PHONE USING REPERTORY D
CCT OF FIBEROPTIC TRANSDUCERS INCLUDING OPTICAL INFORMATION SYSTEMS TRANSMITTER & RECEIVER TH
CCT CONSISTING OF SCANNING-DISPLAY PANEL CONNECTED WITH PAIR OF WIRES TO REMOTE STATION, TO TR
CCT USING 8-BIT CURRENT-OUTPUT MDAC./DAC. WITH SPAN & OFFSET ADJUSTMENTS/BINARY-RAMP-COUNTER
CCT THAT PRODUCES 2 CONSTANT-AMPLITUDE SINE WAVES WITH PROGRAMMABLE PHASE DIFFERENCE, USING
CCT TO TEST CAPACITY OF FULLY-CHARGED BATTERY BY DISCHARGING IT INTO DUMMY LOAD, & RECORDING T
CCT TO INTERFACE OPTOSENSOR (OPTICAL REFLECTION SENSOR)/CCT TO INTERFACE PHOTOTRANSISTOR/CCT
CCT USING SCAN-TEST OCTALS THAT EXECUTE BIST (BUILT-IN SELF-TEST) OPERATIONS SUCH AS PSEUDORAND
CCT TO MEASURE DUTY CYCLE TO 0.5% ACCURACY & DISPLAY PERCENTAGE, INCLUDING ADC., & AND GATES TO
AUTOMATIC BIAS TRACKING SYSTEM FOR MOSFET. POWER AMP.S, PROVIDING TEMPERATURE COMPENSATION
CCT THAT ALLOWS SELECTION OF HARMONIC OF 2NF OF INPUT, INCLUDING PLL., N-DIVIDER, AMP., & COMPARAT
CCTS TO MEASURE INSULATING MATERIALS' DC. LEAKAGE CURRENT, USING 3.5-DIGIT INTEGRATING DECIMAL-O
CCT USING FDDI (FIBER DISTRIBUTED DATA INTERFACE) CHIP SET INCLUDING ELM, MAC & FSI (BBB)/CCT USING
CCT TO REALIZE MANUAL STARTING OF PETROL ENGINE OF MODEL AIRCRAFT, USING MOTOR TO GENERATE VO
CCT TO CONVERT CALCULATOR TO MEASURE RESISTANCE, USING HYBRID CMOS. MODULE/CCT TO BOOST MOD
CCT USING ACIA., ADDED TO MOTOROLA MEK6800D2 EVALUATION KIT, FOR SERIAL RS232 INTERFACE/MOD. TO H
CCT TO CONVERT VIDEO RGB. SIGNALS INTO MONOCHROME COMPOSITE VIDEO WITHOUT SEPARATE PS., USING
OPTICAL NEURON CARD/MOOD & REFLEX CCT USING UP. THAT ALLOWS CONFIGURATION OF CYBERBOT TO SEE
CCT TO REDUCE REVERSE CHARGING OF SEALED NICD. BATTERIES IN CHEAP & EFFECTIVE MANNER
CCTS TO CONDITION PULSES FROM PMT. TO TTL. LEVELS & CAPTURE SIZES OF SELECTED PULSES
CCT TO INTERFACE 8-BIT ADC.S TO 6802 PROCESSOR SYSTEM, INCLUDING DAC.
CCT TO SWITCH ANALOG SIGNALS >5V, USING OPTOCOUPLER/INTERFACE CCT TO PERFORM INTEGRATION USE
CCT OF COMPONENTS THAT CONSTITUTE AUTOMATED DAS., SHOWING WIRES TO VAX MINICOMPUTER & BIOMA
CCT OF BACKGROUND COMPENSATOR FOR PULSE POLAROGRAPHIC TECHNIQUES, ATTACHED TO PAR 174 ANAL
CCT USING BALANCED-MIXER IC IN SUPERHET FRONT-END CONFIGURATION/IF. AMP. BASED ON GAIN-BLOCK CH
CCT TO ALLOW 8-BIT DMA. CHIP TO WORK WITH MC68000 PROCESSOR/SYSTEM IN WHICH DMAC CHIP CONTROL
OPTOCOUPLER BASED FIRING CCT COUPLED WITH AMP., TO ELECTRICALLY ISOLATE FIRING SIGNAL ON ITS WA
CCT USING SERIAL CONTROL UNIT (SCU) TO CONTROL 8-BIT 16-CHANNEL ADC./CCT USING SCU TO PROVIDE DA
CCT THAT PROVIDES CURRENT INDEPENDENT OF POTENTIAL DROP ACROSS LOAD, FROM 10⁻¹³A TO 10⁻³A
CCT MOD. TO INCREASE OUTPUT OF REGULATED PS. FROM 11.4 TO 13.6V (QST7611)
AUTOMATIC VIDEO SWITCH
BATTERY PACK & CHARGER WIRING/CASSETTE RECORDER INTERFACE/SIGNAL STRENGTH & MODULATION MET
CCT WITH INPUTS FROM CHANNEL FADERS, & OUTPUTS TO MAIN FADER
BATTERY CYCLER USING SCHMITT TRIGGER THAT TRIPS AT PROPER VOLTAGE & DRIVES RELAY/CCT TO REVER
CCT SHOWING CONNECTION OF 12 BIT ADC. TO 8 BIT INTERFACE PORT, INCLUDING VIA./LIGHT ACTIVATED SWIT
CCT USING 2 SHIFT REGISTERS TO SAMPLE BIT INTERVAL 15 TIMES TO DECIDE WHETHER BIT SHOULD BE CONS
CCT TO CONTROL LED. DISPLAY, USING UC SENDING SIGNALS TO DISPLAY DRIVER/CCT USING UC WITH SPI (STA

Sheet1

CCT TO SET ADC.'S APERTURE TIME INTERVAL, PROVIDING NEGATIVE, ADJUSTABLE-WIDTH PULSE/DOUBLE-PUL
CCT ADDED TO RF. PS., TO ENABLE MODULATION OF RF. FORWARD POWER
CCT TO CHARGE BATTERIES, USING ISOLATED MOSFET. SWITCHES TO ISOLATE INSTRUMENT FROM CHARGING
CCT IMPLEMENTING IMPROVED METHOD OF MEASURING TEMPERATURE WITH RTD. BY EXCITING REFERENCE &
CCT SHOWING WATCHDOG TIMEKEEPER INTERFACED TO MICROCONTROLLER, USING HC11 EVALUATION BOARD
CCT TO VIEW LEFT-MINUS-RIGHT SIGNAL ON X AXIS & LEFT-MULTIPLIED-BY-RIGHT ON Y AXIS OF OSCILLOSCOPE
CCT SHOWING SAMPLE BIAS & PREAMP. CONNECTIONS
CCT FITTED INSIDE RICKENBACKER BASS TO INCREASE VERSATILITY OF GUITAR
CCT TO AMPLIFY, LIMIT, DIVIDE BY 4, & TRANSLATE TO TTL./CCT TO DIVIDE & SELECT FRACTION FOR COUNTING
CCT USING PRECISION OA. WITH VERY LOW OFFSET VOLTAGE (+-10UV MAX) & LOW POWER DISSIPATION (50MW
CCT TO EXTEND RESOLUTION OF SINGLE-CHIP UP.'S 8-BIT ADC. BY ADDING SAWTOOTH WAVEFORM TO INPUT &
BATTERY-OPERATED & MAINS-OPERATED VERSIONS OF SMOKE DETECTOR-ALARM USING IR. PHOTODETECTOR
CCT TO TURN ANY REGULAR TELEPHONE INTO SPEAKERPHONE POWERED FROM PHONE LINE, USING VOICE-SV
CCT SHOWING INTERCONNECTION OF TRANSMISSION LINE WITH HV. TRANSITION BOARD, & PREAMP./DISCRIMIN
CCT USING VOLTAGE COMPARATOR IN ZCD. CONFIGURATION/ZERO-CROSSING & ARMING DISCRIMINATOR WITH
CCT WHOSE OUTPUT CAN BE VARIED, WITH 1 POT, FROM POSITIVE-GOING VERSION OF INPUT SIGNAL, THROUG
CCT USING PRESSURE SENSOR TO PROVIDE FEEDBACK INFORMATION NEEDED TO MAINTAIN PARTICULAR PRE
CCT TO VARY CHANNEL SEPARATION, USING SLIDING CONTROL & SUMMATION AMP.S
CCT USING DUAL RETRIGGERABLE MONOSTABLE, FOR SOFT CARRIER TURN OFF, TO PREVENT DATA ERRORS F
CCT TO EASE RESTART OF PWM. SMPS. FOLLOWING SHUTDOWN DUE TO SHORT-CCT'ED OUTPUT, BY INTRODUC
CCT THAT GUARANTEES STABLE, METASTABILITY-FREE DATA INPUT FOR ANY CLOCK RATE TO 4.5MHZ & ANY IN
CCT TO TO QUADRUPLE RESOLUTION OF LOW-COST DIGITAL WEIGHING SCALE, USING DISPLAY-DRIVING COUNT
INTERFACE CCT BETWEEN 8-BIT TRS-80 MODEL I MICROCOMPUTER & 12-BIT ADC./+-5V PS.
CCT TO HEAR & SEE CW., INCLUDING NARROW BAND FILTER, PRECISION RECTIFIER WITH GAIN OF 10, PULSE NO
CCT TO PRODUCE AUDIO TONE THAT VARIES LOGARITHMICALLY WITH INPUT VOLTAGE, USING VFC., WITH 0-1V C
CCTS THAT PROVIDE 5V UNDER EXTERNAL CONTROL, WITH LOW ON-RESISTANCE & QUIESCENT CURRENT (2)/S
3-TERMINAL HIGH-QUALITY CONTROLLED CURRENT SOURCE OPERATING IN CLASS-AB MODE, INCLUDING CURR
INTERFACE FROM MICRO D-CAM TO IBM PC./APPLE II INTERFACE FOR MICRO D-CAM
BATTERY-POWERED SOUND-EFFECTS GENERATOR
CCT REPLACING TTL. BUFFERS IN FLOPPY-DISK DRIVE WITH RS-422 LINE DRIVER IC, TO PREVENT ERRONEOUS V
CCT TO DRIVE SINGLE-CHIP SPEECH SYNTHESIZER WITH MICROCOMPUTER, INCLUDING BUFFER, PULSE EXTEN
ROTATOR FOR TVRO. SATELLITE DISH, USING MOD. MOTOROLA 3.5-DIGIT VOLTMETER TALKING KIT INCLUDING A
CCT TO INTERFACE MOTOROLA 8-BIT SINGLE-CHIP MICROCOMPUTER WITH INTEL 8155-2 RAM. WITH IO. PORTS &
AUTOMATED STRIPPING ANALYZER/PS.S FOR STRIPPING ANALYZER/CURRENT-TO-VOLTAGE CONVERTER USING
INTERFACE LOGIC OF 68008-M68MM19A MOTOROLA MICROMODULE 19 COMBINATION, INCLUDING 32-BIT 68008 M
CCT INCLUDING 3.5 DIGIT DVM. (TO MEASURE UP TO 5000V AC. OR DC. IN MICROWAVE OVEN), HV. SUPPLY TO TE
CCT TO SENSE CURRENT FLOWING INTO 1 DEVICE & AUTOMATICALLY TURN ON UP TO 3 OTHERS, INCLUDING TR
CCT TO CONTROL TRIAC WITH TRIAC-DRIVER OPTOISOLATOR/TRIAC CCT TO ACTIVATE DEVICE WHEN CURRENT
CCT IN ULTRASONIC RANGER USING POLAROID ULTRASONIC RANGING MODULE & TRANSDUCER, & ADDRESSAB
CCT OF NEURACTOR(R) INCLUDING STEPPER-DRIVE CCT USING MICROCONTROLLER THAT RECEIVES DATA FRO
CCT TO PROVIDE TR. CATHODE BIAS SWITCHING USING OPTOISOLATOR TO DRIVE NPN POWER TRANSISTOR/RE
CCT USING PHASE DETECTOR IN PHASE-FREQUENCY LOOP OF PLL., INCLUDING D FF. LOOP TO REDUCE HIGH J
AUTOMATIC CALL-TIMER THAT WILL MONITOR ALL CALLS MADE ON A LINE (TELEPHONE TIMING CCT)
CCT FOR RETARDATION-RANGE (COLLECTOR-CURRENT) MEASUREMENTS, EMPLOYING DC. HEATING OF CATHO
CCT FOR EXTRACTION OF FEEDBACK SIGNAL
BATTERY-POWERED DIGITAL THERMOMETER/TEMPERATURE-TO-FREQUENCY CONVERTERS (2)
EXTERNAL DISPLAY CALCULATOR INTERFACE
MOTOROLA'S MAGNETIC BUBBLE-MEMORY SYSTEM, USING BLOCK REPLICATOR SWAP SYSTEM (BBB)
1ST 4 CHANNELS OF MULTI-INPUT FAST COINCIDENCE & TIMING SYSTEM, USING ECL. MEMORY DEVICES, & ULTF

CCT USING IC THAT PERFORMS FUNCTIONS FOR SLIC., & CODEC, TO REPLACE TRANSFORMER IN PABX. SYSTEM
 CCT TO ADD DMA., USING DMAI/ASYNCHRONOUS LINK USING UP., EPCI & PGC/CCT TO ADD HIGH-LEVEL PROTOC
 CCT USING XOR GATES TO GENERATE WALSH FUNCTIONS THAT COMBINE TO FORM FSK. SIGNALS, USING BAUD
 CCT USING CRT. CONTROLLER TO REGENERATE VIDEO RAM. ADDRESSING/CCT TO EXTRACT VERTICAL SYNC FR
 CCT USING DUAL TRACKING VARIABLE REGULATOR/SWITCHING REGULATOR/BATTERY CHARGER/CURRENT REC
 CCT IN WHICH CHANNEL CONTROLLER CHIP ASSIGNS CODEC TO SEPARATE 8-BIT TRANSMIT-&RECEIVE TIME SI
 AUTOMATIC LINE-VOLTAGE SELECTOR FOR SWITCHING PS.S <300W, USING DUAL-CHANNEL VOLTAGE MONITOR
 CCT THAT GIVES INFORMATION ABOUT LEADING & LAGGING POSITION OF A WITH RESPECT TO B/ENABLED INVE
 CCTS FOR REMOTE PULSE WIDTH MEASUREMENT, USING UP./SCHMITT TRIGGER 1 SHOT/SYSTEM CLOCK
 CCTS SHOWING ADDRESSABLE ASYNCHRONOUS (AART) RECEIVER-TRANSMITTER INTERFACED TO ADC. (2)
 CCT FOR TELEMETERING SYSTEMS THAT GENERATES OUTPUT SIGNAL THAT CAN CARRY 5 INFORMATIONS SIMU
 MOTOR SPEED CONTROL OF BUCHLER POLYSTALTIC PUMP/ANALOG TO DIGITAL INTERFACE SIGNAL SHIFTING C
 CCT USING ADC. IN CONJUNCTION WITH MOD. VARLEY LOOP NETWORK TO COMPUTE & DISPLAY RATIO OF FAUL
 ATTENUATOR CCT TO CONTROL VOLUME OF RECEIVER WITH POTENTIOMETER/DIGITALLY-CONTROLLED ATTEN
 CCT TO GENERATE SAMPLE CURRENT & LIA (LOCK-IN AMP.) REFERENCE SIGNAL, INCLUDING 200HZ CRYSTAL OS
 OPTICALLY COUPLED TRIAC CCT TO SWITCH CONTROL SOLENOIDS FOR SAMPLE MODULATION, PROVIDING ADJ
 CCT SHOWING MULTIPLE CONNECTION BOARD FOR TEMPERATURE CONTROLLER/ELECTRONIC TIMER & STEP R
 CCT SHOWING USE OF 555 TIMER IN ASTABLE MODE/SIMPLE LED. TIMER USING CMOS. TIMER, 10-STAGE JOHNS
 CCTS TO CONNECT PHOTOTRANSISTORS TO PROGRAMMABLE-TIMER GATE INPUT (2)/2-CHANNEL DATA-LOGGIN
 CCT FOR PROPORTIONAL CONTROL OF 3 AC. LAMP CCTS, USING PROGRAMMABLE TIMER, CONNECTED TO HEAT
 CCT TO VARY BRIGHTNESS OF MUX.ED LED. DISPLAY, USING TIMER TO MODULATE DISPLAY DRIVER'S SHUTDOV
 CCT SHOWING RC. VALUES USED USING WITH IC THAT COMBINES SERIAL ENCODING & DECODING FUNCTIONS U
 INTERFACE UNIT FOR COMMUNICATION OF HP-85 MICROCOMPUTER WITH DIGITAL PH-METER & BURETTE VIA HP
 INTERFACE BOARD TO CONNECT INTELLIGENT CAMAC CRATE CONTROLLER USING 16-BIT UP. WITH TRANSPUTE
 CCT USING HIGH-SPEED CMOS. IC'S, TO EXTEND READING OF DMM.-FREQUENCY METER UP TO 40MHZ BY DIVIDI
 CCT THAT RESPONDS TO ANY IR. SIGNAL, USING IR. DETECTOR PHOTODIODE & IR. AMP.-DETECTOR/IR. DETECT
 CCT TO INTERFACE PC. PARALLEL PORT TO UNIPOLAR STEPPER MOTOR TRANSLATOR-DRIVER THAT HAS BUILT
 CCT USING TONE RINGER DRIVING COUNTER TO GENERATE OUTPUT AFTER SELECTED NUMBER OF RINGING SI
 LATCHING OVERVOLTAGE-PROTECTION CCT FOR INHIBITING SWITCHING SUPPLY
 OPTICALLY ISOLATED BIT LINE/RELATIVELY LOW-COST APPLE 16-BIT DAC. INTERFACE
 CCT TO ALLOW THIEF TO START CAR, BUT STALL ENGINE AFTER SHORT TIME/CCT GIVING BUSY INDICATION TO
 CCT (ACTIVE PULL-UP CCT) TO DRIVE CMOS. AT DISTANCE, WITH ACTIVE CURRENT SINKING USING HV. TTL. INVE
 HOT-WIRE SENSOR ELECTRONIC CHIME THAT USES EFFECT OF COOLING HEATED WIRE BY MOVING AIR & MEAS
 INTEGRATOR TO INTEGRATE SIGNAL RESULTING FROM MEASUREMENT OF LF. LARGE-MAGNITUDE VELOCITIES,
 CCT USING SUPERVISORY CCTS TO SENSE INPUT CURRENTS TO DC.-DC. CONVERTERS & TRIGGER ALARM/CUR
 CCT FOR CURRENT-TO-VOLTAGE CONVERSION, FOR USE IN 50HZ ELECTRIC FIELD MEASUREMENTS USING FIEL
 BATTERY POWERED ELECTROMETER CCT WITH SYMMETRICAL ELECTRICALLY-REGULATED MOSFET. INPUT CCT
 CCTS FOR HALF WAVE & FULL WAVE CONTROL OF AC. OPERATED DEVICES USING SCR. OPTOCOUPLER (2)/SIMIL
 CCT USING CURRENT OUTPUT MONOLITHIC DAC./"SMART" 4 CHANNEL SELF-REFRESHING & ASYNCHRONOUS DA
 CCT OF SYSTEM FOR DEMONSTRATION OF PHASE SHIFT CAUSED BY CHANGE OF SOUND VELOCITY IN SAMPLE
 CCT THAT CONVERTS VOLTAGE TO DUTY CYCLE BY SENDING OUTPUT OF MONOSTABLE MULTIVIBRATOR THRO
 INTERCONNECTIONS OF DEC'S CHIPKIT MODULES FOR LSI-11 DMA. BUS INTERFACE, INCLUDING TRANSCEIVER,
 CCT TO INTERFACE DIGITAL TO SYNCHRO-RESOLVER CONVERTER WITH 16-BIT UP., USING COUNTER-DRIVEN C
 CCT USING TRIAC-OUTPUT OPTOISOLATOR WITH TRIAC/SAME TO CONTROL INDUCTIVE LOAD/TRANSISTOR-BASE
 CCT USING INTERSIL VOLTAGE CONVERTER (INVERTER) TO SUPPLY NEGATIVE OUTPUT FROM POSITIVE SOURC
 CCT TO ENABLE XENON DISCHARGE (FLASH) TUBE TO BE USED AS IGNITION TIMING LIGHT, WITH DC.-DC. STEP-I
 CCT USING RAPID-CHARGE CONTROLLER TO QUICKLY CHARGE NICD. BATTERIES, INCLUDING PS., DISCHARGE F
 CCT SHOWING CONNECTION OF RECEIVER'S AUDIO OUTPUT TO COMMODORE 64 COMPUTER USER PORT
 CCT USING TELEPHONE TONE RINGER IC FOR PRODUCING SWEEP-FREQUENCY SOUNDS

CCT FOR RETURNING FEEDBACK SIGNAL FROM OUTPUT OF ISOLATING CONVERTER
ACTIVE-CCT PHONE-LINE INTERFACE MODULE TO CONNECT TELEPHONE LINE TO REPEATER PR PHONE-PATCH,
CCT USING 2 8 BIT DAC.S TO IMPLEMENT 12 BIT DAC., USING SUMMING OA. CCT, & VOLTAGE REGULATOR TO PR
CCT USING LCA (LOGIC CELL ARRAY) TO INCORPORATE DRAM. CONTROL & ERROR-CORRECTION & -DETECTION
OUTPUT STAGE AMP. OF ELECTRICAL STIMULATOR, USING SWITCHING GATE CONTROLLER WITH FAST-SWITCH
10TH ORDER LINEAR FEEDBACK SHIFT REGISTER, INCLUDING CCT TO DETERMINE POLYNOMIAL OF DELAYED SE
CCT USING CMOS. MUX.ED DISPLAY DRIVER CONNECTED TO 3 IO. LINES OF PORT A OF MICROCOMPUTER (MCU)
DETECTOR ELECTRONICS CONSISTING OF PREAMP., AMP., DISCRIMINATOR & LEVEL ADAPTOR, USING MECL. 10
CCT USING VCO.'S INTERNAL MOS. CURRENT-SOURCE TRANSISTOR TO WIDEN VCO.'S FREQUENCY RANGE, INCL
CCT USING PHOTODIODE & TIMER IN ASTABLE MODE, TO DIRECTLY CONVERT PHOTOCURRENT TO FREQUENCY
CCT THAT WILL KEEP TRACK OF HOW MANY WORDS TYPED & DISPLAY TOTAL
BATTERY SAVER CCT FOR USE WITH 3-STATE CONTROLS, USING 2 MONOSTABLE MULTIVIBRATORS TO GENERA
CCT TO PROVIDE DATA BACKUP DURING POWER LOSS (FAILURE), WITHOUT USE OF BATTERY, BY USING ELECT
CCT THAT PROCESSES CHROMA & LUMINANCE SIGNALS (2)/CCT OF SYNC PROCESSOR CHP PROVIDING FIELD B
CCT TO FIND CUTOFF FREQUENCY OF LPF., USING RMS.-TO-DC. CONVERTERS, VCO. USING WAVEFORM GENERA
CCT FOR BIPOLAR OPERATION OF INTERSIL 14-BIT DAC., WITH OFFSET VOLTAGE OF OA.S HAVING NO EFFECT O
CCT SHOWING MOD. OF MINIBEAM ION GUN SUPPLY FOR PULSING BY TOF. CCT
INTERFACE TO MC6800 (CCT SHOWING WIRING OF AM9511 ARITHMETIC PROCESSOR UNIT TO M6800 CPU.)
CCTS TO ALLOW COMMODORE COMPUTERS TO WORK WITH RS232 ACCESSORIES (2)
CRT. TERMINAL SYSTEM USING 8051 MICROCOMPUTER/TERMINAL SYSTEM CONSISTING OF 4 SECTIONS, EACH I
10TH-ORDER ELLIPTIC TYPE LOW-PASS SWITCHED-CAPACITOR FILTER (SCF) WITH STOPBAND ATTENUATION OF
CCT CONNECTING ADC. & DAC. TO MAIN MEMORY/MARK-SPACE RATIO CLOCK & DECODING CCT/RS232 PORT HA
3-TUBE 2M LINEAR AMP., USING 3 TUBES IN PARALLEL, WITH SCREEN AT DC. & RF. GROUND POTENTIAL
MOTOR-SPEED CONTROLLER
CCT TO DETECT FAULT IF RS-232C CONNECTOR IS PLUGGED IN BACKWARDS, CROSSING TRANSMIT & RECEIVE
TETRODE STRIPLINE KILOWATT AMP./RF. SECTION OF TRIODE AMP./PS./CCT TO FURNISH GROUND FOR TRANS
ACTIVE MIXER USING MOTOROLA MC1596 IC/TEST CCT FOR PLESSEY SL6440 ACTIVE DBM.
CCT SHOWING CONNECTION BETWEEN SIGNETIC IIC FAMILY CLOCK-TIMER & SPI BUS OF MICROCONTROLLER/C
CCT USING PROGRAMMABLE LINEAR-REGULATOR CONTROL IC/SAME USING DARLINGTON PASS ELEMENT FOR
INTERFACE TO SET BAUD RATE BETWEEN COMPUTER & TERMINAL, USING ACIA. & BIT-RATE GENERATOR
INTERFACE IN COMPUTER-CONTROLLED POTENTIOMETRIC TITRATION/12-BIT BINARY ADC. TO DIGITIZE POTENT
CCT TO REGULATE EXCITATION VOLTAGES FOR BENDING BEAM LOAD CELL & POTENTIOMETER OF SELF-LEVEL
CCT USING SHIFT REGISTER WITH OPEN-COLLECTOR OUTPUTS, TO INTERFACE FRONT-PANEL SWITCHES TO MI
CCT TO ENABLE COMPUTER TO TELL IF FURNACE BURNER IS ON OR OFF/SIMPLE INPUT PORT TO TRANSFER 1 B
INTERFACE THAT EXTRACTS 8KHZ FRAME SYNCs, TO SEND PCM. VOICE DATA OVER SLD (SUBSCRIBER LINE DA
CCT THAT AUTOMATICALLY SENSES WHEN CRYSTAL OSCILLATOR IS TURNED OFF & REDUCES SUPPLY VOLTAGE
CCT IN WHICH PIT. CHIP INTERFACES 68000 UP. TO CENTRONICS-INTERFACE PRINTRONIX PARALLEL PRINTER (E
CCT THAT GENERATES EARLY POWER-FAIL INDICATION BY SENSING WHEN PWM. REGULATOR'S DUTY CYCLE RI
ACTIVE NETWORK TO DRIVE MOSFET.'S INPUT VOLTAGE BELOW GATE-SOURCE THRESHOLD VOLTAGE/POWER C
3-TRANSISTOR AC.-TO-DC. CONVERTER WITH BETTER FREQUENCY RESPONSE & HIGHER ACCURACY THAN MOS
CCT USING RESET GENERATOR-WATCHDOG-TIMER IC TO REMOTELY RESET SYSTEM USING ONLY CONTROLLIN
OUTPUT FILTER SELECT & DRIVE CCT/TR. SWITCH DRIVE & TIMING CCT/CCT WITH DETAILS OF RELAY CONNECTI
HIT-N-MISS AC. MOTOR SPEED-CONTROL CCT/LED. FLASHER/RING-AROUND LED. FLASHER/BRIGHT LIGHT DRIVE
CCT FOR POWER DOWN MODE, OPERATED BY CMOS. PARTS WHICH COMPLETELY BYPASS NORMAL CONTROL S
CCT TO ACHIEVE 1 CHANNEL OF FINE TUNING FOR SYNTHESISED FREQUENCY AROUND 30MHZ, USING MOTORC
NETWORK SERIAL INTERFACE WITH COMMUNICATION ARBITRATION, WHERE STATION PULSES ITS CLAIM LINE O
CCT SHOWING MIDI. 1.5MA CURRENT LOOP WITH OPTOISOLATOR AT RECEIVING END
CCT TO TEST FOR PCB. CCT-NODE SHORTS BY COMPARING OUTPUTS OF ANALOG MUX.S, INCLUDING COMPARA
INTERFACING DEVICE FOR DAS.

CCT USING EXTERNAL NPN PASS TRANSISTOR TO BOOST CURRENT CAPABILITY OF VOLTAGE REGULATOR
MATRIX KEYBOARD ENCODER THAT SCANS, DETECTS, DEBOUNCES, ENCODES & LATCHES 32 KEY SWITCHES
ULTRAMODERN LINEAR AMP./PS. FOR SAME
INTERFACE USING OPTO-ISOLATOR TO COUPLE CRT.-DISPLAY TERMINAL TO CURRENT LOOPS USED FOR ELECT
EXTENSION TELEPHONE RINGER
CCT SHOWING CONNECTION OF LED.S TO PORT-C LINES OF 6805, PROVIDING PASS-FAIL INDICATION ON SELF-C
INTERFACE TO CONVERT DATA FROM DINAMAP 845 BLOOD PRESSURE MONITOR TO FORMAT COMPATIBLE WITH
OUTDOOR LIGHT CONTROLLER THAT SNAPS LIGHT ON OR OFF AT DAWN OR DUSK, AVOIDING FLICKERING WHEN
CCT TO GIVE VISUAL INDICATION OF INCOMING TELEPHONE CALL, USING RING-SIGNAL DETECTOR, DC.-TO-DC. C
CCT USING LED. TO INDICATE STATUS OF REMOTE TELEPHONE, WITH LIGHT OFF IF HUNG UP, SHINING STEADIL
CCT TO MEASURE MECHANICAL TIME CONSTANT OF 3-PHASE BRUSHLESS ELECTRIC DC. MOTOR WITH INERTIAL
CCT TO INTERFACE 6800-UP.-FAMILY CRT. CONTROLLER TO 8085 UP., USING LOGIC TO GENERATE REQUIRED EM
CAT TO RS-232 INTERFACE USING CMOS. DRIVER (TRANSMITTER) & RECEIVER, PROVIDING COMPUTER CONTROL
INTERFACE FOR INTERCONNECTION OF VAX 11-750 COMPUTER & COMMODORE AMIGA PC. PARALLEL PORTS, FO
INTERFACE TO FACILITATE VALID DATA TRANSFER AT SAMPLING PULSE RATE & SET CHARGE INTEGRATION TIM
CCT TO PROTECT SSR. FROM OVERLOADS, LIMITING CURRENT, DISCONNECTING LOAD AFTER DETECTING SHOR
OPTOELECTRONICS 2210 HANDHELD 10HZ-2200MHZ (10HZ-2.2GHZ) FREQUENCY COUNTER USING 8-DIGIT, 0.28IN
RATION ANALOG PULSE HEIGHT (RAPH) MODULE TO PRODUCE OUTPUT PULSES OF AMPLITUDE PROPORTIONAL
OPTICAL DETECTOR CCT USING UDT SCHOTTKY-PHOTODIODE TYPE OF PSD (POSITION SENSITIVE DETECTOR),
MOTOR CONTROL CCT USING SENSEFET. (POWER TMOSFET.) TO DRIVE MOTOR, INCLUDING DOUBLE-PULSE SU
PTT. TIME-OUT CCT USING TIMER & MONOSTABLE OSCILLATOR OPERATING IN NON-RETRIGGERABLE MONOSTA
IFTOF (INTERRUPTED FIELD TOF.) APPARATUS INCLUDING OPTOCOUPLER & TMOS. TRANSISTORS/TRIGGER SIG
CCT TO INTERFACE 2 MUX.ED BUSES (BBB)/CCT TO INTERFACE NONMUX.ED BUS TO MUX.ED BUS (BBB)/SATELLI
CCT USING 555 TIMER WITH TRIGGER & THRESHOLD PINS TIED TOGETHER, TO SENSE ANALOG SIGNALS & CONT
ALTITUDE METER (ALTIMETER) SUITABLE FOR 0 TO 2000M ALTITUDE, USING SILICON PRESSURE SENSOR (TRAN
AUTO-INCREMENT MODULE TO ADVANCE TIME SPACINGS BETWEEN GROUPS OF PULSES, CONSISTING OF PRES
INTERFACE TO ENABLE DIGITAL COMPUTER CONTROL OF LINEAR BENCH-TYPE DC. PS., TO PRODUCE PRECISE Y
CCT OF DEVICE TO SENSE LEVEL OF ANY LIQUID, USING ELECTRO-OPTIC SENSOR CONSISTING OF REFLECTIVE
BATTERY BACKUP SYSTEM THAT RUNS OFF MAIN BATTERY PACK UNTIL FAULT IS ENCOUNTERED & THEN SWITC
CCT TO FIRE HG LAMPS, THAT STOPS FIRING PULSES IF LAMP IS DEFECTED, HOT OR FIRED, INCLUDING HV. PUL
INTERFACE TO CONNECT APPLE II COMPUTER VIA GAME IO. PORT TO ST-6 DEMODULATOR & HF.-VHF. RADIOS/C
CCT TO DIM LAMPS USING LIGHT DIMMER-SWITCH IC & TRIAC WITH PHASE-CONTROL FIRING/REMOTE SWITCH
CCT USING 2 PROGRAMMABLE CMOS. COUNTER-TIMER IC'S (DUTY-CYCLE GENERATOR), TO CYCLE AC. LINE ON
CCT USING FM.-IF. SUBSYSTEM, USING PRIMARY WINDING OF 455KHZ IF. TRANSFORMER AS PHASE COIL NEEDE
MOTOROLA MEX68KECB SBC. INCLUDING CPU., ROM., DRAM., ACIA.S, RS232 DRIVERS, PRINTER & CASSETTE BU
INTERFACE BETWEEN MICROCOMPUTER & LIQUID-PROPULSION SYSTEM FOR STEPWISE ADDITION OF TITRANT
CCT TO GENERATE PULSED BIAS, USING MONOSTABLE MULTIVIBRATOR TRIGGERED BY TIMER, GENERATING 1M
BATTERY ISOLATION CCT TO USE BATTERY BACKUP WITH RAM., USING DIODES/DUAL-OUTPUT REGULATOR TO P
CCT TO CHECK MENTAL RESPONSE TIME & PHYSICAL COORDINATION OF PERSON WHOSE JUDGEMENT MAY BE
CCT USING MICROCOMPUTER & BICOLOURED LED. TO TRAIN MONKEY FOR VISUAL TASK
CCT USING MC1455 AS PHASE DETECTOR, INCLUDING VARIABLE RESISTANCE TO ADJUST MEAN VOLTAGE OF IN
ASTABLE-TYPE TEMPERATURE TO FREQUENCY CONVERTER (TEMPERATURE SENSOR & ITS PS. REGULATOR) FO
CCT USING COMPARATOR CHIP THAT WORKS WITH EXTREMELY LOW CURRENTS, TO SENSE & INDICATE LOW-BA
CCT TO MONITOR ZENER CURRENT OF ZENER REGULATED SUPPLY OF BATTERY OPERATED INSTRUMENT & GIV
INTERFACE TO NORMALIZE PULSES CAUSED BY ANIMAL'S MOVEMENTS, CONSISTING OF CMOS. MONOSTABLE C
CCT TO ADD AUTORANGING CAPABILITY TO DVM., USING DUAL-SLOPE INTEGRATING ADC., & RANGE SWITCH CO
CCT USING SINGLE-CONVERSION FM. IF. IC, WITH PARALLEL TUNED CCT AT DEMODULATOR/10.7MHZ CCT WITH /
CCT TO TEST BIPOLARS & FET.S, INCLUDING 'ERROR CHECK' CCT THAT BYPASSES METER MOVEMENT & ILLUMIN
CCT SIMILAR TO ALINCO ALR-22 & ALR-72 RECEIVE SECTIONS/CCT IN FM. SECTION ON VCO. PCB./CCT SHOWING

Sheet1

CCT USING XILINX FPGA TO PERFORM LOGIC FUNCTIONS, INCLUDING UP. (CPU.), DRAM.S, SCC (SERIAL CONTROL) CCT TO CONTROL LV. DC. MOTOR'S SPEED IN RESPONSE TO INPUT SERIAL DATA STREAM, USING 1 IC & DARLINGTON CCT USING ANALOG MULTIPLIER & 2 POTENTIOMETERS, WHOSE OUTPUT VOLTAGE CAN BE MADE TO APPROXIMATE CCT USING ANALOG MULTIPLIER, WHOSE OUTPUT APPROXIMATES 1-MTH ROOT OF INPUT VOLTAGE, WHERE M IS CCT THAT DIGITIZES VOLTAGES FROM GRAPHICS-INPUT TABLET/8-CHANNEL DAS.

CCT SHOWING ARRAY OF ADC.S MUX.ED ON DATA BUS (BBB)/DIGITAL AUDIO REVERBERATOR/8080A INTERFACE CCT USING ANALOG DEVICES MONOLITHIC 12-BIT DAC. WITH SETTTLING TIME OF 500NS, MONOTONICITY OVER THE CCT FOR BIPOLAR OPERATION OF 12-BIT MONOLITHIC CMOS. HIGH-SPEED SUCCESSIVE-APPROXIMATION ADC., CCT USING PHILIPS AM.-FM. RADIO CHIP-SET INCLUDING IF. AMP.-DEMODULATOR, INTEGRATED FM. TUNER, STEREO SSTV. INTERFACE CCT, INCLUDING ADC., VIDEO DISPLAY & BUFFER BOARDS, FOR SSTV. & FAX ON COMMODORE CCT THAT SOUNDS ALARM IF REFRIGERATOR DOOR IS OPEN >15S/ALARM ACTUATOR WHOSE WIRING TO SENSORS CCT SHOWING DAC. FUNCTION/CCT SHOWING ADC. FUNCTION

CCT FOR DUAL-BEAM POSITION SENSOR

CCT FOR Z AXIS DRIVE & DATA ACQUISITION AT UP TO 200KHZ/Z & Y AXES DRIVE (2)/STEPPER MOTOR DRIVER UNIT CCT USING ADDRESS DECODER & LATCHES TO LINK 22-BIT ADC. TO PC., & INPUT MUX. & RESET PULSE GENERATOR CCT TO MEASURE SPONTANEOUS POLARISATION IN FERROELECTRIC SMECTIC-C LIQUID CRYSTALS, INCLUDING MOTOR CONTROLLER (DRIVE CCT) FOR MODEL LIFT SYSTEM

INTEGRATOR USING 3 ANALOG DEVICES SOLID-STATE SWITCHES OPERATED BY DIGITAL TTL. SIGNALS CCT USING 2 STACKED IA.S TO GET 3DB IMPROVEMENT IN SNR./ACTIVE BALANCED TRANSFORMER

CCT TO GIVE OFF ALARM WHEN CAR LIGHTS ARE ON BUT ENGINE OFF, USING OSCILLATOR, PIEZO-BUZZER & RELAY CCTS SHOWING DEPTH & WIDTH EXPANSION OF DUAL-PORT RAM.S (4)/CCTS SHOWING 8- TO 8-, 16- TO 16- & 8- TO 8- CCT INCLUDING SYNCHRONOUS DEMODULATOR CHIP TRIGGERED FROM AUDIO EXCITATION, TO DETECT DIRECT CURRENT CCT THAT PROVIDES STABLE -2V REFERENCE FOR UNIPOLAR FLASH ADC./REFERENCE GENERATOR FOR BIPOLAR INTEGRATOR USED IN MONITORING SYSTEM FOR PROTON BEAM LOSSES, WITH OUTPUT VOLTAGE OF 10V AT MAXIMUM DETECTOR & PREAMP. CCT, CONSISTING OF SILICON PLANAR-DIFFUSED TYPE PHOTODIODE & SIMPLE LOW-NOISE CCT TO COMPUTE RMS. VALUE FROM APPLIED ALTERNATING VOLTAGE WAVEFORM & CONVERT IT INTO DIRECT CURRENT INTERFACE BETWEEN NICOLET 2090-II TRANSIENT RECORDER & NICOLET NIC-80 COMPUTER, INCLUDING PREDIVIDER EXTERNAL TRIGGER CCT PLUGGED INTO SCSI. ID PORT ON CPU. BOARD OF AMPRO 186 SBC., USING DUAL J-K FLIP FLOP PATIENT DISPLAY USING 10-SEGMENT LED. BAR-DOT DISPLAYS/SCALE AMP. CONSISTING OF IA., GAIN STAGE & INTEGRATOR CCT USING STACKING TOPOLOGY THAT PUTS 4 FET.-INPUT (BIFET.) OA.S (AMP.S) IN PARALLEL, DECREASING (CURRENT) CCT TO CONVERT LIGHT INTENSITY TO DIGITAL WORD FOR READING BY MICROCOMPUTER, INCLUDING PHOTODIODE CCT CONSISTING OF CAPACITOR (TO BE CHARGED THROUGH RESISTOR), MULTIPLIER (SQUARER), & INTEGRATOR CCT USING LATCH, SYNCHRONOUS UP-DOWN COUNTER & ANALOGUE MUX.S, TO ALLOW MULTICHANNEL SIGNALS CCT USING AD532 AS ANALOG MULTIPLIER/CCT USING AD532 AS 2-QUADRANT DIVIDER/CCT USING AD532 AS SQUARE ROOT CCT TO CONDITION SIGNALS FROM WEATHER INSTRUMENTS/CCT USING HUMIDITY SENSOR, TO CONVERT CAPACITANCE CCT USING 12-BIT DATA CONVERTER WITH PARALLEL & SERIAL DATA OUTPUTS/HIGH-TEMPERATURE VOLTAGE MEASUREMENT INTERFACE UNIT THAT COMMUNICATES DIRECTLY WITH APPLE II VIA RS-232 SERIAL INTERFACE CARD MOUNTED ON MICROCOMPUTER CCT INTERFACING USER'S VIA. ON MICROCOMPUTER BOARD WITH ADC. & DAC., & PAPER-TAPE PUNCH UNIT CCT USING MULTIPLIER-ACCUMULATOR CHIP TO SERVE AS COUNTER OR DIVIDER, WITH MULTIPLIER BYPASSED CCT SHOWING CONNECTION OF ADC. & DAC. INTERFACES WITH COMPUTER & SSR. DRIVING CCT/PROPORTIONAL PATIENT BOX (CCT OF PH AMP., ADC. & MICROCOMPUTER (UP.) (BBB))

INTERFACE TO PET MICROCOMPUTER, INCLUDING 4 CHANNEL ISOLATED THERMOCOUPLE-MV CONDITIONERS, 100V CCT TO PROVIDE SECURE COMMUNICATIONS BETWEEN 2 APPLE MICROCOMPUTERS, OR BETWEEN DATABASE, & MICROCOMPUTER CCT TO CONVERT BINARY BYTE INTO HEXADECIMAL OR OCTAL FORM & DISPLAY IT, USING DATA SELECTOR-MULTIPLEXER CCT USING 2 MONOLITHIC DAC.S & 3 LOGIC IC'S TO CONVERT DIGITAL INFORMATION TO BAR-GRAPH FORM, & DISPLAY AUTOMATED COULOMETRIC TITRATION SYSTEM INCLUDING OA.S & DATA ACQUISITION INTERFACE/ISOLATED REFERENCE INTERFACE BETWEEN ADC. & IEEE-488 BUS (GPIB.) (2)/12-BIT ADC. CCT/PREAMP. USING IA., & AUTOMATIC SENSITIVITY INTERFACE FOR APPLE IIE, CONSISTING OF 5 NUCLEAR (RADIOACTIVE) COUNTING CHANNELS WITH ENERGY DISCRIMINATION INTERFACE FOR MICROCOMPUTER-CONTROLLED SPECTROFLUOROMETER, INCLUDING BCD. COUNTER, DAC. (8)

DATA ACQUISITION CARD FOR IBM PC. COMPATIBLE MICROCOMPUTER, CONSISTING OF SH. CCT, 12-BIT ADC., PR
 CCT USING DAC. TO DIGITALLY ADJUST SWITCHING REGULATOR'S OUTPUT FROM 0 TO -5V/CCT USING 2 DAC.S T
 ALTIMETER (BBB)/CPU. BOARD/ANALOG BOARD THAT OUTPUTS FREQUENCY PROPORTIONAL TO ALTITUDE, USIN
 CCT OF SYSTEM THAT DETERMINES CURRENT-VOLTAGE CHARACTERISTICS OF RESISTOR, LAMP & DIODE, INCL
 CCT FOR VIDEO-LINE INTEGRATION & ADC.
 CCT USING PLATINUM RTD. METHOD FOR MEASURING TEMPERATURE WITH DATA ACQUISITION BOARD/CCT USIN
 CCT USING OLDER 8-BIT, 8-CHANNEL ADC. THAT IS EASY TO INTERFACE TO ANY PARALLEL INPUT PORT ON MOS
 CCT INCLUDING UNBIASED DETECTORS (DIODES) & PREAMP. TO PRODUCE SLOW SCAN IMAGES/REAMP. FOR BI
 EXTENSION BOARD COMPRISING AFC., SCAN & REMODULATOR FACILITIES/REMODULATOR FOR UHF. BAND/CCT
 CCT TO FLASH 2 LED.S AT 1HZ FOR ~3YR, POWERED BY 9V BATTERY, USING CMOS. 3-INVERTER OSCILLATOR, &
 CCT COMPRISING RISC.-TO-SCSI. CONNECTION USING 2 BIDIRECTIONAL FIFO. (BIFIFO) BUFFERS, FOR FAST ASY
 CCT THAT USES 2 ANALOG DEVICES 20-BIT DAC.S, FEATURING 8X OVERSAMPLING TO ACHIEVE VERY LOW LEVE
 CCT TO PROCESS 6.3VAC. 60HZ REFERENCE SIGNAL, TO PRODUCE DIGITAL LOGIC LEVEL SQUARE WAVE AT 15H
 CCT TO ACTIVATE OR SHUT OFF ANY SYSTEM AT PRECISELY PRESELECTED TIME, USING LCD. ALARM-CLOCK M
 MATCHING CCT FOR AD834 LINEAR 500MHZ MULTIPLIER, USING COMBINER, TO DRIVE 50OHM LOAD/BROADBAND
 CCT USING TDA3810, A SPATIAL, STEREO, & PSEUDO-STEREO SOUND CCT (AUDIO PROCESSOR IC)
 CCT SHOWING UNIPOLAR BINARY OPERATION OF AD7534 DAC./200DEG C BURN-IN CCT FOR AD7534-45
 CCT TO MEASURE SETTLING TIME OF DAC. (BBB)/VIDEO DAC. DRIVING VIDEO MONITOR
 CCT FOR APPLICATION OF ELECTRICAL EXCITATION TO SAMPLE, INCLUDING CONTACTING DEVICES
 INTERFACE CONSISTING OF INPUT FET. OA.S, ADC., SELECTOR SWITCH & RTC.
 CCT TO TEST VOLTAGE-REFERENCE IC'S, WITH DIGITAL INTERFACE FOR APPLE II COMPUTER, WITH EASY MOD.
 CCT USING SH. AMP. TO INCREASE EFFECTIVE SIGNAL BW. OF ADC./CCT USING DAC.S TO TRIM ADC.'S OFFSET &
 CCT USING MULTIPLIER AS PERCENTAGE COMPUTER/CCT TO COMPUTE DIFFERENCES OF SQUARES/CCT TO PR
 CCT TO SHIFT FREQUENCY OF AUDIO SIGNAL, USING ALL-PASS 90DEG PHASE-SHIFT DIFFERENCE NETWORKS, M
 4-TONE BELL CUBE TO COMPOSE MUSIC, CONSISTING OF 4 INDEPENDENT, ADJUSTABLE TONE GENERATORS TU
 CCT TO MEASURE LOW-TEMPERATURE DIODE POTENTIAL, INCLUDING SAWTOOTH & CONSTANT CURRENT GENE
 CCT THAT PERFORMS FREQUENCY MULTIPLICATION BY ARBITRARY FACTOR USING 2 MATCHED VCO.S, INCLUDI
 1ST 45MHZ IF. STAGE (2)/2ND & 3RD IF. STAGE/0.1 TO 100MHZ FRONT END/COMB GENERATOR/PC. BUS INTERFAC
 DETECTOR (PHOTODIODE) LOAD CCT/ACTIVE LOAD CCTS (2)/70CM RANGE IR. SYSTEM (2)/IR. REMOTE CONTROL
 CCT SHOWING MOD.S FOR FALLING EDGE TRIGGER ON FRONT GATE/CCT SHOWING MOD.S TO PROVIDE ANALOG
 SSTV (SLOW-SCAN TV.) DEMODULATOR & MODULATOR SECTIONS (3)/PS./CCT NEEDED BETWEEN ROBOT 400 SC
 PMT. BASE FOR BARREL TOF. COUNTERS/BASE FOR HAMAMATSU PMT./FAST PREAMP./CCT THAT GENERATES 2-
 CCT USING UHF. AUDIO-VIDEO MODULATOR IC, TUNED TO DESIRED TV. CHANNEL BY APPLYING TUNING VOLTAG
 CCT TO ADD PHASE SHIFT BETWEEN INPUT REFERENCE & FEEDBACK SIGNAL DRIVING PHASE DETECTOR BY IN
 CCT USING TRACKING TO MEASURE TEMPERATURE (BBB)/TEMPERATURE-COMPENSATION CCT USING BANDGAP
 AUTOMOBILE ENGINE STALLER TO SIMULATE ENGINE MALFUNCTION, FOR PREVENTION OF CAR THEFT/PS.
 AUTORANGING AMP. (BBB)/AUTORANGERS TO MAINTAIN GOOD RESOLUTION OVER WIDE DYNAMIC RANGE (2)
 CCT SHOWING USE OF DECOUPLING CAPACITORS WITH ADC., TO ENSURE FAST SETTLING STEP RESPONSE ON
 CCT TO SELECT GAIN-COMPRESSION RATIOS (SLOPES) OF 1:1, 2:1, 3:1 OR 4:1 WITHOUT CHANGING UNITY-GAIN F
 CCT TO DISPLAY UP TO 512 POINTS LOGGED TO 9-BIT RESOLUTION ON TV. POINT-DIGITIZING SYSTEM, USING SY
 CCT USING MDAC., TO PROVIDE DIGITAL VOLUME CONTROL WITH 0.01% DISTORTION & 100DB SNR., WITH 1.5DB
 CCT USING SAMPLING ADC. & SOFTWARE-PROGRAMMABLE IA./CCT USING 200KHZ ADC. TO CAPTURE FAST AC. S
 ATTENUATORS & CONTROL CCTS CONSISTING OF 10-BIT REGISTERS OF D-TYPE FF.S, ATTENUATOR CONTROL F
 CCT TO REGISTER PRESSURE ACROSS FILTER/ADC. INTERFACES TO MICROCONTROLLER & 6800 BUS/SERIAL AD
 CCT USING TTL.-COMPATIBLE CMOS. 8-BIT SUCCESSIVE-APPROXIMATION ADC. SET UP IN FREE-RUNNING MODE
 INTERFACE THAT GETS 1 CHANNEL OF DATA INTO COMPUTER THROUGH PARALLEL PRINTER PORT AT RELATIVE
 CCT USING 40MHZ BUFFER AMP. (CONSISTING OF WIDEBAND AMP. WITH EMITTER-FOLLOWER OUTPUT) TO DRIV
 BATTERY-POWERED 3.5-DIGIT VOLTMETER USING MONOLITHIC RMS.-TO-DC. CONVERTER THAT PROVIDES DC. C
 INTEGRATING I-V (CURRENT-TO-VOLTAGE) STAGE USING TRANSIMPEDANCE AMP./WIDEBAND COMPOSITE JFET.

CCT FOR COSINE WAVE SYNTHESIS/PHASE-SET CCT TO PRODUCE PHASE-ADJUSTABLE REFERENCE VOLTAGE (ULTRA-PRECISION RTD. AMP. LINEARIZED WITH POSITIVE FEEDBACK/K-TYPE THERMOCOUPLE AMP./LOAD-CELL CCT WITH ANALOG SWITCH CHARGE INJECTION COMPENSATION USED ON GPA (GENERAL PURPOSE AMP.) MOD CCT USING 9 STAGE SUCCESSIVE DETECTION LOG AMP., TO VIEW LOG OPERATION AT LF./RF. POWER METER/CCT FOR VARIATION OF REFERENCE VOLTAGE IN UNIPOLAR MODE/BIPOLAR CCT WITH SCALING & OFFSET NULL CCT TO SUPPLY CURRENT-CONTROLLED DELAY TO REPLACE OSCILLATOR IN PLL., USING NEGATIVE FEEDBACK CCT TO SHIFT SONIC PARAMETERS TO PRODUCE MOST PLEASING EFFECT PER GIVEN LISTENING ENVIRONMENT CCT TO "TURN AROUND" DAC. OUTPUT CURRENT & GENERATE OUTPUT VOLTAGE THAT VARIES WITH RESPECT CCT TO INDICATE INDUCTANCE & INTERNAL RESISTANCE OF INDUCTOR, USING ANALOGUE 4 QUADRANT MULTIF OPTICAL PULSE GENERATOR THAT USES HITACHI ECL. LOGIC GATES TO MODULATE SHARP LASER DIODE, CAPA CCT TO PROTECT SPEAKERS FROM OVERDRIVE, AUDIO AMP. FAILURE, & SWITCHING (TURN-ON) THUMPS, INCLU CCT THAT DISSIPATES CONSTANT POWER IN DARLINGTON PAIR EVEN THOUGH INPUT VOLTAGE VARIES CCT USING BALANCED MODULATOR-DEMODULATOR IC PROVIDING SCHMITT-TRIGGER OUTPUT, WITH INDEPEND CCTS USING ADJUSTABLE REGULATORS AS CURRENT LIMITERS (2)/PHONE-IN-USE INDICATOR/SELF-RESETTING CCT USING CMOS. VIDEO CHIP SET FOR GRAPHICS, TEXT & SOUND & ABLE TO INTERFACE WITH NTSC. OR PAL T CCT THAT HAS FAST, UP.-DIRECTED SELECTION OF MONOSTABLE MULTIVIBRATOR'S PULSE WIDTH INTERFACE CCT FOR HIGH RESOLUTION CAPABLE RASTER DAC. WITH RGB. ANALOG OUTPUTS TO DRIVE 75OHM CCT USING DELAY DEVICES USING N-CHANNEL GATE TECHNOLOGY IN BUCKET-BRIGADE CONFIGURATIONS, TO INTERFACE SHOWING COMMUNICATION FLOW FOR OPTICAL DETECTION SYSTEM, USING IA.S, SH. AMP.S, MUX. & CCT FOR STATOR COIL SIGNAL CONDITIONING (2)/EBW (EXPLOSIVE BRIDGEWIRE CONTROLLER) FIRING SYSTEM CCT FOR ANALOGUE DATA ACQUISITION, TO DETECT & HOLD PEAK OF VOLTAGE PULSE & CONVERT AMPLITUDE METASTABLE ION RATIO AMP. WHICH, WHEN ADDED TO VG 70-70F MS., ALLOWS FOR DETECTION OF >1 PEAK, US ASTABLE MULTIVIBRATOR TO PROVIDE ACCURATE & REPEATABLE LONG-PERIOD (10S TO 70MIN) TIMING, USING CCTS USING BRIDGE RECTIFIER TO ALLOW TEMPERATURE SENSOR TO CONDUCT FOR EITHER POLARITY OF PO CCT TO LINEARIZE OUTPUT OF CHROMEL-CONSTANTAN (TYPE-E) THERMOCOUPLE, USING 2ND-ORDER-POLYNO CCT OF X (& Y) BLOCK OF CCT FOR REAL-TIME DEMONSTRATION & EXAMINATION OF CHAOTIC PHENOMENA, USI DATA TRANSFER ACKNOWLEDGE (DTACK) GENERATOR THAT CONTROLS INFORMATION MOVEMENT THROUGH D CCT TO TEST DAC. UNDER PROGRAM CONTROL/CCT TO TRANSLATE INFORMATION FROM LVDT. (LINEAR VARIABLE CCT OF ELECTRONIC ANALOG OF JOSEPHSON JUNCTION CCT FOR REMOTE SENSING OF GREEN VEGETATION, USING RED DETECTOR & IR. DETECTOR/GREEN DETECTOR CCT USING SENSOR, TO PROVIDE HIGH TEMPERATURE ALARM SIGNAL FOR TEMPERATURE INSIDE COMPUTER C CCT USING PRECISION TEMPERATURE TRANSDUCER THAT PROVIDES CURRENT PROPORTIONAL TO TEMPERAT AUTOMATIC ROTOR CONTROL (INTERFACE) TO TRACK SATELLITES WITH PC. (2)/AUTOTRAK OUTPUT CCTS FOR A INTEGRATOR/GAIN & TIME CONSTANT SELECTORS, & CALIBRATION SIGNAL TRIGGERS (4)/FUNCTION DECODER/C INTERFACE TO CONNECT POTENTIOSTAT OF ELECTROCHEMICAL MEASUREMENT SYSTEM TO FT. IR. SPECTROM CCT FOR ROOT LENGTH DIGITIZER PREAMP. (LIGHT SENSOR-AMP. ASSEMBLY) INCLUDING MOTOROLA FIBER OP CCT SHOWING PROTECTION DIODES SHUNTED ACROSS METER MOVEMENT/RMS.-TO-DC. CONVERTER/RF. DEMO CCT TO MEASURE OUTPUT VOLTAGE OF RECEIVER OF SENSOR USING IR. PHOTODIODE (EMITTER) & PHOTOTRA CCT SHOWING MUX.ING OF IC TEMPERATURE SENSORS/CCT TO ADJUST KELVIN SCALE TO CELSIUS/SETPOINT C INTERFACE TO START & STOP 2MHZ COUNTERS IN C64 MICRO COMPUTER WHEN LIGHT BEAM IS INTERRUPTED I INTERFACE (ADC.) BOARD OF COMMODORE 64 (C-64) BASED DAS., CONSISTING OF OA. & ANALOG DEVICES 8-BIT CCT USING SIMPLE DUAL MULTIVIBRATOR TO CONVERT TEMPERATURE SENSOR'S CURRENT OUTPUT TO VARI CCT USING ANALOG MUX.S TO COMBINE 4 ANALOG SIGNALS OVER COMMON BUS/CCT INCLUDING SUMMING AMI WATCHDOG CCT CONSISTING OF POWER-UP RESET, GATED ASTABLE MULTIVIBRATOR & SOFTWARE FAILURE D CCTS TO MEASURE AVERAGE & MINIMUM TEMPERATURES (2)/THERMOSTAT (TEMPERATURE CONTROLLER)/MATR 4-TO-20MA CURRENT LOOP USING 10-BIT DAC./TRACKING CONVERTER/DAC. OPERATING AS VARIABLE ATTENUA CCT THAT HAS NO USEFUL PURPOSE, YET PUTS ON INTERESTING VISUAL-AUDIO SHOW CCT TO TRANSFORM 2 IN-QUADRATURE TRIANGULAR WAVES INTO LOW-DISTORTION SINE WAVE, USING 2 MULT CCT SHOWING HOW TO INCREASE CURRENT-HANDLING CAPABILITY OF IC STABILISER, USING TRANSISTOR CCT

CCT DESIGNED TO SELECT NUMBERS FOR EITHER 6-49 OR 6-39 LOTTERIES
 CCT TO CONVERT SERIAL TTL. DATA TO BIPOLAR LEVELS SUITABLE FOR TRANSMISSION ON RS-232C LINES, USING RE-TRIGGERABLE MONOSTABLE DRIVEN BY ADDRESS LATCH ENABLE SIGNAL FROM MCS80C31 MICROCONTROLLER
 CCT TO CONVERT BCD. TO BINARY WITH CMOS., PROVIDING 3-DIGIT BCD. EQUIVALENT TO 8-BIT BINARY WORD, USING ACTIVE BANDPASS FILTER TO DRIVE MID-RANGE AMP. OF TRI-AMPED 3-WAY SPEAKER SYSTEM/SUBSONIC FILTER
 METERING DEVICE CAPABLE OF MEASURING PHASE ANGLE RELATIONSHIP OF 2 AUDIO PROGRAM CHANNELS, INCLUDING MOTOR-SPEED CONTROLLER THAT SETS SPEED OF SERIES-WOUND UNIVERSAL 1.5A MOTOR DRIVEN OFF 120V AC
 CCT SHOWING ROCKWELL AIM 65 MICROCOMPUTER (UP.) CONTROL OF GAS FLOW RATE, USING VIA. & DAC.
 CCT TO DROP PULSE ON PLATE UP TO 300V FOR SEVERAL MILLISECONDS, WITH ADJUSTABLE DELAY TIME PROVIDED
 CCT TO CAPTURE ANALOG SIGNAL'S POSITIVE- & NEGATIVE-PEAK VALUES, & OUTPUT DIFFERENCE, USING ADC.
 CCT USING SOLAR-CELL SENSOR, TO INTEGRATE MEASURED SUN (UV.) INTENSITY OVER PERIOD OF TIME & SOURCE
 CCT TO GENERATE RECTANGULAR CURRENTS, CONSISTING OF PIN PHOTODIODE ACTIVATED BY LED. CONTROLLED
 INTERFACE FOR HANDI-WRITER VIDEO NOTE PAD FOR PHYSICALLY HANDICAPPED, THAT CONNECTS TRS-80 COMPUTER
 CCT USING LVDT. & SIGNAL CONDITIONER/LVDT.-TO-DIGITAL CONVERTER/CLOSED-LOOP SETPOINT CONTROLLER
 CCT TO SIMULATE STEREO SOUND & CONTROL CAPABILITIES FROM MONO SOURCE, USING PSEUDO-STEREO PROCESSOR
 CCT TO SEND ANALOG INPUT INTO IBM PC. VIA PARALLEL PRINTER PORT, USING 12-BIT ADC. & DFF., CONTROLLING
 CCT TO DETERMINE WHETHER SIGNAL VOLTAGE FALLS WITHIN PREDETERMINED WINDOW AROUND REFERENCE
 INTERFACE BETWEEN 8-BIT 8085 UP. & 16-BIT DAC., USING PERIPHERAL PORT CONTROLLER/INTERFACE TO 9900
 CCT TO DERIVE 3-PHASE SINE-WAVE REFERENCE USING FREQUENCY TRACKING PHASE-SHIFT NETWORK, INCLUDING
 CCTS TO DEMONSTRATE CHAOTIC SYNCHRONIZATION, INCLUDING DRIVE SYSTEM, BUFFER & RESPONSE SYSTEMS
 CCT USING ELECTROMETER FET. INPUT OA. (AMP.), FOR CONTINUOUS MEASUREMENT OF CONDUCTANCE OF PIPETTE
 CCT TO INTERFACE 8-BIT DAC. WITH 6800-TYPE UP.S/CCT TO PRODUCE HIGH-CURRENT HV. OUTPUT/CCT USING
 CCT INCLUDING WHEATSTONE BRIDGE (USING STRAIN GAUGES) WHOSE OUTPUT VOLTAGE IS FED TO INPUT OF
 CCT THAT SYNCHRONIZES STIMULUS TO ALTERNATE PHASES OF LINE & INTRODUCES RANDOM DELAY, REDUCING
 CCT USING PUSHBUTTON SWITCH & NAND GATES (USED AS INVERTERS), TO DEBOUNCE SWITCH CONTACTS & FEED
 CCT THAT DRIVES OPTOCOUPLER WITH HV. ISOLATION AT >100KHZ USING VFC. THAT PULSES OPTOISOLATOR
 CCT TO USE POLY 800 TO MAKE PROGRAM CHANGE OR "STEP" THROUGH CONSECUTIVE PROGRAMS USING FOOTSWITCH
 CCT THAT INTEGRATES ANALOG VOLTAGE OUTPUT OF DATA RECORDER OVER TIME & DISPLAYS RESULT ON READER
 CCT SHOWING INTERFACING OF CONTROLLER CHIP WITH HOST SYSTEM & DRIVE (BBB)/DISK-DRIVE INTERFACE
 CCT IN WHICH CURRENT IS CONVERTED TO PROPORTIONAL FREQUENCY & CURRENT LOOP DRIVES V-TO-F CONVERTER
 CCT TO INTERFACE TRADE-WIND MODEL DIG78 DIGITAL ANEMOMETER TO CROMEMCO COMPUTER S-100 BUS, THROUGH
 CCT TO PROTECT ISOLATOR'S INPUT/CCT TO DELIVER PROGRAMMABLE ISOLATED OUTPUTS, USING DAC. & 2 ISOLATORS
 CCT USING 3 OUTPUT ENABLE & 1 CHIP ENABLE CONTROL TO SIMPLIFY CHIP & FUNCTION SELECTION FOR 512
 INTERFACE BETWEEN ADC. & VIA. PORTS, INCLUDING IA. FOR LEVEL SHIFTING (BBB)/4-PHASE TTL. FOR UP.-DRIVEN
 CCT TO DISABLE CLOCK INPUT OF 16-BIT SAMPLING ADC.S AFTER ASSERTION OF EOT SIGNAL, TO REDUCE CLOCK
 CCT USING SHUNT STABILISER TRIODE VALVE, INCLUDING 1-2000 EHT. PROBE (2)/SOLID STATE EHT. PULSE GENERATOR
 CCT TO COMPENSATE FOR COLD-JUNCTION EFFECTS/CCT TO EXCITE & PROVIDE ZERO SUPPRESSION TO PLATINUM
 CCT TO PERFORM DC.-TO-DC. CONVERSION & CLOCK-LEVEL TRANSLATION, USING 2 VOLTAGE DOUBLERS THAT
 CCT TO SHAPE ABSORPTION SIGNAL OF VAPOR CELL INTO REFERENCE SIGNAL FOR LOCK-IN AMP., USING IA. &
 GATING PULSE GENERATING CCT OF DUAL CONVERTER, USING 2 MICROCONTROLLERS, IC THAT IMPLEMENTS INTEGRATION
 CCT FOR TEMPERATURE SENSOR IC TO RECEIVE POWER FROM 4-20MA LOOP WITHOUT AFFECTING LOOP CURRENT
 UDT PHOTOP DETECTOR OPERATED IN PHOTOCONDUCTIVE MODE
 INTERFACE CONTROLLER USING MUX.S & VIA. (BBB)/THERMISTOR VOLTAGE DIVIDER AS TEMPERATURE SENSOR
 AUTOMATIC ELECTRONIC KEYS
 CCT (CAPACITANCE METER) BASED ON CAPACITANCE BRIDGE WITH 1 LEG OF BRIDGE FORMED BY TRANSFORMER
 N-TYPE NEGATIVE-RESISTANCE DEVICE MADE OF 2 BIPOLAR TRANSISTORS & 4 POSITIVE LINEAR RESISTORS, USING
 CCT TO MEASURE TUNNELING CONDUCTANCE (DI-DV) & DERIVATIVE AS FUNCTION OF APPLIED VOLTAGE FOR SEMICONDUCTOR
 CCT FOR CALORIMETRIC MEASUREMENTS WITH TEMPERATURE TRANSDUCER THAT ALLOWS TEMPERATURE CHANGE
 OUTPUT CCT FOR CD. PLAYER, WITH OUTPUT OFFSET <1MV & REDUCED NOISE & DISTORTION/PS. & INTERFACING

CCT USING COLOUR DECODER CHIP/PART OF FERGUSON TX10 RECEIVER/IMPEDANCE MATCHING CCT TO ALLOW
CCT USING DAC., INCLUDING +5V & -5V REGULATORS
CCT FOR FAST AMPLIFICATION OF SIGNAL FROM IR. DETECTOR, USING FAST SETTLING, WIDEBAND FET.-INPUT C
CCT FOR DIGITAL DEMODULATION, INCLUDING ANALOG FRONT END, DIGITAL FREQUENCY DISCRIMINATOR (TO M
CCT THAT GIVES INDEPENDENT CONTROL OF OUTPUT'S ON & OFF INTERVALS, FROM 0.055S TO 30MIN
CCT TO MOD. DRUMTRAKS DIGITAL DRUM MACHINE TO PRODUCE STEREO TOM ROLL
INTERFERENCE FRINGE COUNTER OF INSTRUMENT TO MEASURE CHANGES IN WATER LEVEL, INCLUDING ANALO
CCT TO PROVIDE TEMPERATURE COMPENSATION FOR REFERENCE SUPPLY/CCT FOR DIRECT CONVERSION OF
CCT SHOWING CORRECTIONS TO "TRS-NUKE" CCT (80M28403)
CCT USING A FEW CMOS. IC'S TO CONVERT DATA FROM MUX.ED-OUTPUT ADC. INTO RS232-TYPE SERIAL BIT STR
CCT TO PROVIDE OUTPUT PULSES REPRESENTING DIRECTION OF OBJECT'S MOVEMENT PAST 2 PHOTOTRANSIS
CCT TO GENERATE INTERLACED-SCAN, COMPOSITE-VIDEO SIGNAL BY COMBINING VIDEO SIGNAL WITH VERTICA
CCT TO INCREASE ADC.'S APPARENT RESOLUTION BY COMBINING INPUT SIGNAL WITH FIXED REFERENCE, & FE
CCT USING IA.(S), WITH CORRECTIONS TO PREVIOUS ARTICLE WITH ERRORS SHOWN (EDN830804)
CCT USING UART. TO ASSEMBLE SERIAL RS-232C DATA INTO BYTES FOR CENTRONICS PORT, & PROVIDE BAUD R
CCT TO MEASURE RATIO OF 2 VOLTAGES, USING AMP., DIFFERENTIATOR USING OA., VOLTAGE FOLLOWER, 2 SH
CCT TO GENERATE INTERRUPT PULSE EVERY 0.5S, TO YIELD 2880 DATA POINTS PER SCAN
CCT TO MAINTAIN CONSTANT DC. FROM PHOTOTUBE (PMT.), INCLUDING CURRENT MODE AMP., ERROR AMP., VO
CCT THAT LINKS TO DIGITAL LOGIC OR UP. SYSTEM, PROVIDING MONOSTABLE MULTIVIBRATOR (1-SHOT) WITH F
CCT CONSISTING OF CURRENT-TO-VOLTAGE CONVERTOR (USING FET.-INPUT ELECTROMETER OA.), POLARIZAT
CCT THAT SIMULATES CONTACT BOUNCE BY CORRUPTING IDEAL SWITCH WAVEFORM BY ADDING ~4MS OF 1KH
CCT USING PARALLELED AMP.S, THAT HAS HALF THE NOISE VOLTAGE OF INDIVIDUAL AMP., QUADRUPLES LOAD
CCT THAT MEASURES AC. OR VOLTAGE & TRANSMITS RESULTS ON 4-20MA CURRENT LOOP, INCLUDING RMS.-TO
CCT SHOWING EXTERNAL MEMORY CONFIGURATION & CONTROL/ANALOGUE SUB-SYSTEM INCLUDING INTERFA
CCT TO SWITCH RESISTIVE LOADS (LIKE LAMPS & HEATERS THAT TAKE HIGH INRUSH CURRENTS) AT ZERO VOL
CCT USING 12-BIT DACPORT, LINEAR OPTOISOLATOR & V-I CONVERTER, TO DIGITALLY CONTROL 4-TO-20MA ISO
CCT OF 8-BIT PLUG-IN INTERFACE BOARD/CCT OF REMOTE-BUS BREAKOUT BOARD, INCLUDING PS. (2)/ADC. INTE
CCTS SHOWING BIASING METHODS FOR N-CHANNEL MOSFET. ON DUAL COMPLEMENTARY PAIR PLUS INVERTEP
CCT CALIBRATION TECHNIQUE, SHOWING NORMAL & CALIBRATION MODE CONFIGURATIONS (BBB)
CCT TO SUPPLY DB OUTPUT/CCT FOR LF. RMS. CONVERSION/CCT TO CALCULATE ROOT SUMS
CCT USING METER & FREQUENCY DIVISION FOR TUNING GUITARS & BASS GUITARS DURING PERFORMANCES
1ST-RESPONSE DISCRIMINATOR
CCT USING OA. TO BUFFER OUTPUT OF FAST DAC./CCT USING OA. AS UNITY-GAIN BUFFER TO BUFFER INPUT OF
INTERFACE TO CONVERT SERIAL DATA STRINGS & SYNCHRONIZATION-TIMING WAVEFORMS INTO TTL. LOGIC SIG
CCT TO CHECK DAC.S, USING CLOCK & BINARY COUNTER, & FEEDING DAC.'S OUTPUT TO DIFFERENTIATOR
CCT TO DETECT FREQUENCY OF SINUSOIDAL SIGNAL WITHIN FRACTION OF CYCLE, BY PERFORMING ANALOGUE
CCT TO DISPLAY HEXADECIMAL VALUE IN DECIMAL FORM, WITH ITS MOST-SIGNIFICANT DECODER CAPABLE OF
ACTIVE-TRANSFORMER MICROPHONE PREAMP./CURRENT-MODE MIXER/ANALOG DELAY CCT/PHONO PREAMP./C
CCT USING DOORBELL'S PUSHBUTTON TO TURN ON LIGHT OR APPLIANCE FOR CONTROLLED DURATION/ADDITIO
CCT TO CALCULATE DOPPLER PARAMETER & OPTICAL PLETHYSMOGRAPHIC OUTPUT, INCLUDING PHOTODIODE
CCT USING HITACHI ZTAT MICROCONTROLLER WITH PIXIE-SWITCH DISPLAY TO DISPLAY AUTOMOBILE FUEL LEV
CCT SHOWING DIGITAL INTERFACING OF COMPUTERS THROUGH IO. LINES OF 6522 IO. CHIPS, INCLUDING ANALO
AUTOMATICALLY BALANCING ELECTRICAL IMPEDANCE PLETHYSMOGRAPH USING 2 10-BIT MDAC.S & 2 12-BIT SA
INTEGRATOR INCLUDING MULTIPLIER TO SQUARE CURRENT SIGNAL WHICH IS INTEGRATED USING CHOPPER-ST
ULTRA-HIGH-SPEED EISA SCSI. HOST ADAPTER INCLUDING VERY-LARGE CACHE MEMORY & UP. THAT SERVES A
CCT PROVIDING FAST ASYNCHRONOUS DATA INPUT TO PC.-XT, USING 10-BIT ADC. AS INPUT DEVICE WHOSE 16-
CCT TO MODEL MODULATED SEMICONDUCTOR LASER, TO EXAMINE DYNAMICS OF RATE EQUATIONS FOR DIREC
DETECTOR ELECTRONICS INCLUDING APD. (TO WHICH OUTPUT IMAGE OF POLYCHROMATOR IS COUPLED) & AM
MOTION CONTROLLER IN SIMPLE INTERFACE SCHEME

INTERFACE INPUT BUFFER/CCT FOR INTERFACE OUTPUT PULSE TO PET
 CCT TO ALLOW SEVERAL DAC.S TO BE USED IN 6800-BASED DAS., USING SH.S
 CCT TO MATCH ADC. OUTPUTS BY CONVERTING SIGN-MAGNITUDE-BINARY DATA TO 2'S COMPLEMENT (BBB)
 CCT SHOWING INTERFACE OUTPUT FUNCTIONS, USING ANALOG MUX.S TO SELECT 1 OF 16 THERMOCOUPLE INP
 CCT DRIVEN BY COMPUTER'S RS-232 PRINTER PORT, TO CAPTURE 4 BITS OF OUTPUT DATA, USING DELAY SCHE
 CCT TO MEASURE VELOCITY OF SOUND IN AIR OR OTHER MEDIUM, USING BALANCED MODULATOR-DEMODULAT
 BATTERY-POWERED COULSTAT FOR LOW-NOISE PHOTOELECTROCHEMICAL MEASUREMENTS WITH PULSED-L
 INTERFACE FOR 6800-UP.-BASED MICROCOMPUTER SYSTEM, USING ADC. & DAC. TO FORM ANALOG IO. SECTION
 INTERFACE HARDWARE INCLUDING SYNCRO-DC. CONVERTER, ADC.S, TRUE-RMS.-TO-DC. CONVERTERS, ACIA., U
 OPTICAL SENSOR TILE ELECTRONICS, & ASSOCIATED MICROCOMPUTER INCLUDING HITACHI UP., 8KBYTE RAM.
 CCT USING SINGLE-CHANNEL ADC. THAT HAS TRI-STATE, 8-BIT OUTPUT PORT, THAT CAN BE INTERFACED DIREC
 AUTOMATIC ROTOR (ROTATION MOTOR) BRAKE DELAY TO DELAY ROTOR BRAKE, GIVING ANTENNA TIME TO STO
 ANTILOGARITHMIC UNIT TO LINEARISE OUTPUT VOLTAGE FROM CALCIUM ELECTRODE, USING TELEDYNE PHILB
 CCT FOR USE AS DIRECTION DISCRIMINATOR OF ROTATING AXIS, USING IR. LED.S THAT GENERATE OPTICAL PU
 POTENTIOSTAT-CELL (FEEDBACK CONTROL) SYSTEM TO MEASURE LOW LEVEL FARADAIC CURRENTS & COMPE
 CCT TO EXTEND DYNAMIC RANGE OF AC. SIGNAL MEASUREMENT BY AUTORANGING RMS.-TO-DC. CONVERTER T
 BATTERY SAVING RELAY CONTROL/BETTER CCT THAT USES OSCILLATOR TO PROVIDE UNIPOLAR PULSES TO TU
 CCT TO DECODE ADDRESSES (BBB)/OUTPUT INTERFACE FOR 12-BIT DAC. (BBB)/INTERFACE FOR 12-BIT ADC./SIN
 CCT TO PROVIDE RELIABLE SYNC PULSES FOR RESETTING DECOMMUTATOR IN MULTIPLE-CHANNEL PULSE-DUR
 CCT TO CONVERT ANALOG VOLTAGE IN 0-5V RANGE TO DIGITAL SIGNAL SUITABLE FOR PS-2 PARALLEL PORT, U
 BATTERY-OPERATED, RECORDING, SOIL-FROST MEASUREMENT SYSTEM USING ABRUPT CONDUCTIVITY CHANG
 CCT OF ACQUISITION SYSTEM USING 8085 UP., TO CONVERT ANALOG DATA TO DIGITAL, INCLUDING BURR-BROW
 CCT USING 8-BIT DAC. ON CENTRONICS PRINTER PORT, TO PRODUCE ANALOGUE VOLTAGE BETWEEN 0 & 2.5V F
 AUTOMATIC NICD. BATTERY CHARGER CONSISTING OF PS.(USING VOLTAGE REGULATOR), CLOCK (TIMER) CCT,
 AUTOMATIC CARDIAC ACTION POTENTIAL (AP) DURATION METER TO PERFORM AP DURATION TO PULSE WIDTH &
 CCT USING 8-CHANNEL ADC. INTERFACED TO MICROCONTROLLER (BBB)/CCT TO PERFORM ADC. WITH VFC./CCT
 ATTENUATOR-DRIVER UNIT COMPOSED OF OSCILLATOR (BASED ON WIEN BRIDGE CCT), PROGRAMMABLE (DIGIT
 CCT USING BATTERY-CHARGING CCT INCORPORATED WITHIN TYPE-K THERMOCOUPLE AMP., ALLOWING CHARG
 CCT TO DEMONSTRATE CALCULATIONS FOR TOTAL NOISE OF OA./ULTRA-LOW-DRIFT LOW-DISTORTION DRIVE C
 CCT FOR PASSIVE RESISTOR QUENCHING/QUENCH CCT USING PNP SWITCHING TRANSISTOR/RECHARGE CCT U
 CCT USING DIVIDE-BY-N COUNTER THAT DIVIDES FREQUENCY OF SQUARE-WAVE BY FACTOR OF N
 CCT USING 12-BIT DAC.S CONTROLLED BY PPI. HANDLING INFORMATION TRANSFER FROM UP. BUS TO DAC. (BBB)
 CCT TO GENERATE PICTURES, INCLUDING PLL. SAMPLING CLOCK & CHECKERBOARD PATTERN GENERATORS, F
 CCT FOR RATIO-METRIC TESTING OF 14- & 16-BIT DAC.S, USING 18-BIT DAC. (BBB)/EXTERNAL AMP. FOR AUGMENT
 CCT FOR DIGITAL CONTROL OF SPEED/CCT FOR ANALOGUE CONTROL OF SPEED/EVALUATION BOARD TO DRIVE
 CCT PROVIDING DIGITAL COMMUNICATION WITH COMPUTER, ADC. & DAC./MOD.S TO COMMODORE 64 (C-64) MIC
 INTERFACE TO DIGITAL COMPUTER, THAT MEASURES INTERSPIKE INTERVAL DURATIONS WITH 10US RESOLUTIO
 INTEGRATED HORIZONTAL DRIVER CCT TO SIMPLIFY IMPEMENTATION OF HORIZONTAL DEFLECTION CCT
 INTEGRATED HORIZONTAL DRIVER CCT/EMITTER SWITCH CCT USING IC TO DRIVE 1200V, 7A FASTSWITCH TRANS
 CCT USING ANALOG COMPUTATIONAL CHIP, THAT RAISES VIN TO POWER M SET BY GANGED POTENTIOMETER
 CCT TO SUPPLY CONSTANT 5MA BIAS CURRENT, USING OA. & REFERENCE DIODE/HALL VOLTAGE AMP. USING IA
 POTENTIOSTAT OF IMPEDANCE MEASUREMENT SETUP, INCLUDING SUMMING AMP., FAST CURRENT AMP., VOLT.
 DETECTION ELECTRONICS TO OBTAIN SUM & DIFFERENCE OF VOLTAGE SIGNALS FROM 2 PHOTODIODES WITH E
 CCT OF GRAPHICS PROCESSOR, SHOWING CONNECTIONS FOR 4-CHANNEL, 8-BIT ADC. & DAC./JOYSTICK INTERF
 CCT TO SET PRECISE PULSE WIDTHS INDEPENDENT OF COMPONENT AGING, PS. VARIATIONS & TEMPERATURE,
 CCT USING PLL. TO GENERATE HARMONICS OF 60HZ REFERENCE SIGNAL, INCLUDING "D" TYPE FF. TO DIVIDE FF
 CCT TO MEASURE AUDIO SIGNAL LEVELS TO +-1.5DB ACCURACY, USING DUAL OA. & FM. IF. CHIP THAT CONTAIN
 CCT USING AT&T'S WE32100 FAMILY, INCLUDING 32-BIT CMOS. DMA. CONTROLLER/CCT USING TEXAS INSTRUME
 CCT USING UP-DOWN (REVERSIBLE) COUNTER-TIMER, PROVIDNG INCREMENTAL COUNTING, COUNTING ONLY P

CCT USING PLL. AS FM. DEMODULATOR/DIVIDE-BY-20 OR -22 CCT USING HARRIS MICROWAVE GAAS. CCTS FOR I
CCT USING SIGNETICS COMPANDOR/EXPANDOR USING COMPANDOR/COMPRESSOR USING COMPANDOR
OPTICAL RECEIVER USING HIGH-PERFORMANCE FIBER-OPTIC INTERFACE, CONSISTING OF TRANS-IMPEDANCE A
CCT TO CONTROL OSCILLATOR DUTY CYCLE INDEPENDENTLY IN AF. BAND
POTENTIOMETER POSITION DIGITIZER FOR 8008 OR 8080
RATIO TRANSFORMER BRIDGE & ASSOCIATED CCT, FOR CURRENT TO VOLTAGE CONVERSION, USING FET. INPUT
CCT TO RESTORE EQUALIZING-PULSE & VERTICAL-SYNC-PULSE INTERVALS OFTEN LOST WHEN VCR. IS IN PAUS
CCT THAT GENERATES STEAM & WHISTLE SOUNDS/CCT THAT GENERATES BELL/MIXER TO COMBINE SOUND EFF
CCT FOR POLARISATION-INSENSITIVE OPTICAL PREAMP. RECEIVER USING 2 PINFET. FRONT-ENDS, POWER COM
ACTIVE WIDE DYNAMIC RANGE LINEAR AM. DETECTOR USING NONLINEAR FEEDBACK WITH FULL WAVE RECTIFIC
CCT. SHOWING MOD.S TO REDUCE BALZERS ELECTRON MULTIPLIER RINGING, INCLUDING PREAMP. USING LOW
AUTOMATIC EMERGENCY LIGHT SYSTEM THAT KEEPS BATTERY ON CHARGE AS LONG AS COMMERCIAL POWER
CCT TO REMOVE CHATTER & QUALIFY PULSES TO BE ACCEPTABLE TO TAPE RECORDER
CCT OF TRANSDUCER, USING 1 HV. DC.-TO-DC. CONVERTER TO SUPPLY ENERGY TO CAPACITORS VIA GRAETZ B
RATE GENERATOR & DELAY CONTROLLER, PRODUCING 2 PULSES, 1 FOR FIRING FLASHLAMP, & ANOTHER FOR D
CCT USING SIEMENS S-BUS CONTROLLER (SBC) USED TO IMPLEMENT ISDN. PROTOCOLS & USE WITH SIEMENS'
CCT FOR PWM. SIGNAL GENERATION & INTERFACING TO POWER TRANSISTOR BASE CURRENT CCTS, USING LO
CCT FOR SINGLE CHANNEL GPIB. INTERFACING, USING SIGNETICS IC THAT PERFORMS ALL COMPLEX HANDSHA
CCT TO MODULATE RF. FIELD WITH SELF-CONTAINED MODULATION DRIVER-DBM.
CCT USING EXTERNAL COMPONENTS TO BUFFER 10V ZENER REFERENCE/CCT TO GENERATE REGULATED -5V &
CCT USING VOLTAGE-REFERENCE IC TO CREATE -10V REFERENCE/CCT WITH OA. ADDED, TO CREATE +5V REFE
CCT USING ULTRA FAST OA. AS CHARGE SENSITIVE AMP. WITH FEEDBACK RC. CCT
DETECTION STAGE OF HIGH-PRECISION TEMPERATURE CONTROLLER, BASED ON 2 PLL. IC'S COMPRISING PHAS
CCT TO TEST REGULATOR IMPEDANCE/UNREGULATED SUPPLY/LINEAR VOLTAGE REGULATOR/PART OF REGULA
CCT SHOWING NE5561 SMPS. CONTROLLER USED IN DC. MOTOR-CONTROL APPLICATION
INTERRUPT CCT USING OSCILLATOR TO GENERATE INTERRUPTS EVERY SECOND, WHOSE OUPUT IS LATCHED V
CCT USING 32-BIT UP. (CPU.), MATH COPROCESSOR (ACCELERATOR UNIT), MEMORY MANAGEMENT UNIT (MMU),
CCT USING VHF. JFET. AS WIDE-BAND AMP. (WBA)/SAME USING DUAL-GATE MOSFET./CCTS USING WIDEBAND OA
CCT IN EXPERIMENT TO SHOW NEGATIVE IONS CHARGING NEARBY INSULATED METAL OBJECT (TIN CAN) TO HV.
METER PREAMP. A-FILTER USING LOW-NOISE OA.S, INCLUDING 0DB-40DB-60DB GAIN SWITCH ALLOWING WIDE R
DETAIL OF CURRENT-PROTECTION CCT IN SMPS. (BUCK-TYPE SWITCHING CONVERTER)
CCT USING CUSTOM GATE ARRAY TO PROVIDE SCANNING & SYNC SIGNALS FOR 384X485 IMAGE SENSOR
CCT TO USE WHERE REFLECTIVE OPTICAL SENSOR IS USED TO SENSE EDGE OF OBJECT, SO THAT MOTOR DRIV
4-TONE TRANSMITTER & PS./TONE RECEIVER & INTERFACE TO CB. RADIO SET, USING 4 PLL. TONE DECODERS &
CCT USING PLL., TO SYNCHRONIZE SWITCHING FREQUENCIES OF PS.S OPERATING FROM COMMON AC. LINE, TO
OPTICAL TRANSMITTER OF 100BIT-S TO 40MBIT-S TTL.-COMPATIBLE OPTICAL FIBRE DATA LIMK/OPTICAL RECEIV
CCT WITH BUILT-IN DELAY FOR ALARMS (CCT TO DIFFERENTIATE BETWEEN REAL & NOISE-GENERATED ALARM)
CCT TO GENERATE 4 TO 20MA CURRENT OUTPUT PROPORTIONAL TO TEMPERATURE, USING 2 MICROPOWER OA
CCT USING 5V VOLTAGE REFERENCE AS TEMPERATURE SENSOR/CCT ALLOWING SENSOR TO OPERATE FROM -
OPTICALLY-ISOLATED INTERFACE THAT ALLOWS BLACK-&-WHITE TV. SET TO SERVE AS MONITOR FOR COMPUTE
CCT IN WHICH LED. GLOWS WHEN BATTERY IS GOOD & TWINKLES WHEN VOLTAGE FALLS/OTHER CCTS USING L
OPTICALLY SWITCHED STIMULATOR CCT USING 2 PHOTOTRANSISTORS, & SCHMITT-TRIGGER-INPUT NAND GATE
CCT TO BE ADDED TO ROM.-116 FOR MONITORING OUTPUT
ULTRASONIC TRANSMITTER FOR DRIVEWAY SECURITY SYSTEM, USING 23KHZ TRANSDUCER (SENSOR) (2)/ULTR
CCT THAT MULTIPLIES 50HZ INPUT FREQUENCY BY FACTOR 12 WITHOUT LOSING SYNCHRONIZATION WITH ORIG
CCT USING PLL. IC TO CONTROL SPEED OF DC. MOTOR, TO DRIVE AMATEUR ASTRONOMICAL TELESCOPE/CCT U
CCT THAT ACHIEVES AM. & FM. DEMODULATION USING COMMON IF. STRIP & 1 BASEBAND OA. IC, INCLUDING AN
ASTABLE MULTIVIBRATOR USING 2 NEON BULBS THAT ALTERNATELY BLINK ON & OFF, WITH OPERATING VOLTAGE
3-TUBE OF 3-TUBE REALLY SIMPLE REGENERATIVE SW. RECEIVER (RADIO) THAT RUNS ON INEXPENSIVE A, B & C

CCTO MATCH CMOS. GARAGE-DOOR-OPENER ENCODER-DECODER CHIP TO VCO, PROVIDING MATCHING & SHI
CCT SHOWING MOD.S TO PC 1W TRANSMITTER, THAT RETURNS UNIT TO EQUAL DIBANDS/CCT USING TRANSI
CCT TO ENSURE THAT CAR'S REAR WINDOW WIPER OPERATES ONLY ONCE FOR EVERY 4 OR 16 WIPES OF THE
CCT USED IN SUPER-SENSITIVE TILT SWITCH THAT USES MERCURY SWITCHES TO PROTECT AGAINST FALSE AL
CCT IN WHICH INDEPENDENT ADJUSTMENTS CONTROL OUTPUT FREQUENCY & DUTY CYCLE, TO DRIVE CHOPPE
CCT TO REDUCE REFERENCE NOISE BY PARALLELING VOLTAGE-REFERENCE IC'S, ATTENUATING NOISE BY SQU
BATTERY-POWERED INTRUSION DETECTOR USING TIMER, SCR. & LED., TO MONITOR WHEN SOMEONE GOES TH
CCT USING DUAL CURRENT SOURCE, TO SUPPLY CURRENT SOURCE OF >100UA/SAME FOR VIRTUALLY ANY VAL
GATING CCT OF PHOTOELECTRICALLY TRIGGERED CCT THAT PROVIDES DIRECT DISPLAY OF VELOCITY OF PRO
CCT TO DRIVE PIEZOELECTRIC TUBE ACTUATOR, INCLUDING COMPRESSOR, FULL WAVE RECTIFIER, DIRECTION
CCT THAT PRODUCES RELAXING (SOOTHING) SURF-LIKE SOUNDS INCLUDING AUDIO AMBIANCE OF RAIN, CRASH
EXTERNAL VOLTAGE REFERENCE SOURCE
RTTY. CONVERTER (BBB)/CODE-SPEED CONVERTER/INTERFACE DIAGRAM OF CODE-SPEED CONVERTER
CCT USING LIGHT BARRIER SYSTEM, CONTROLLED FROM ADC. AT USER PORT OF CBM (COMMODORE) 8032 COM
CCT SHOWING COMPONENT VALUES FOR GAASFET. INPUT-OUTPUT MATCH/FEEDBACK NETWORK/DISTRIBUTED
CCT TO OBTAIN 35DB SIDEBAND REJECTION LEVELS IN DIRECT-CONVERSION APPLICATIONS/WEAVER RECEIVER
CCT TO PRODUCE CLICK-CLICK SOUND TO LURE FISH INTO VICINITY, TO BE PUT IN WATERTIGHT CONTAINER & L
CCT TO SELECTIVELY & CONTROLLABLY SHIFT PHASE OF SIGNALS FROM MUSICAL INSTRUMENTS, USING USING
AUTO-ZEROING CCT SHOWING SWITCH CONNECTIONS TO PLL. PROCESSOR, TO PREVENT BASELINE DRIFT/MEA
CCT FOR MEASUREMENT OF WHITE NOISE & FLICKER NOISE/OPTIONAL CCIR WEIGHTING FILTER/OPTIONAL NAB
CCT TO MONITOR TELEPHONE LINE TO DETERMINE IF ANSWERING MACHINE TAKES (RECORDS) CALL, & THEN S
CCT TO RECEIVE STEREO STATELLITE BC.S ON TVRO.-SYSTEM
CCT SHOWING SWITCHING OF THERMAL CONDUCTIVITY DETECTORS
1ST-MIXER STAGE, USING THIN FILM MIC./RECEIVER, USING 2 PLL.S/PS.
ULTRASONIC TRANSMITTERS (2)/ULTRASONIC RECEIVER/CCT TO OPTICALLY DETECT PASSAGE OF PEOPLE THR
GATE-CATHODE DIODE TEST CCT WITH 16 CURRENT PULSES AT OUTPUT, WITH SUCCEEDING PULSES INCREAS
BATTERY-POWER SWITCH/HEADPHONE AMP. FOR USE WITH SONY WALKMAN DD & SENNHEISER HD430 HEADPH
OPTICAL COUPLER SYSTEM CONSISTING OF EMITTER USING IR. LED., OPTICAL FIBRE LINK, & RECEIVER CONSIS
OPTICALLY ISOLATED 40MHZ OR 100MHZ VCO. THAT REMOVES FREQUENCY PULLING DUE TO CHANGES IN LOAD
INTERCOM TO ENABLE MOTORCYCLE RIDER & PASSENGER TO CHAT (COMMUNICATE), WITH AMBIENT NOISE SU
CCT FOR OPTICAL CONTROL OF GAAS. MMIC. DISTRIBUTED AMP., CONSISTING OF LED. LIGHT SOURCE, LIGHT SI
OPTICAL-FIBRE TR. USING FAST LINE DRIVER, LED., PHOTO PIN DIODE, TRANSIMPEDANCE CURRENT DIFFERENT
CCT INCLUDING CONSTANT CURRENT SOURCE, DMM. & NANOVOLTMETER, FOR 4-POINT PROBE RESISTIVITY ME
ACTIVE INVERSE RIAA CCT CONSISTING OF SUMMING INVERTER, SWITCHING 2ND-ORDER BESSEL LPF.S, OUTPU
OPTICAL TEMPERATURE CONTROL UNIT INCLUDING PHOTOCCELL & FET.-TRANSISTOR SWITCH, SHOWING CONNE
AUTONOMOUS CHAOTIC RELAXATION OSCILLATOR (ACRO) THAT IS LINEAR DURING CHARGE & DISCHARGE PHA
METAL DETECTOR THAT INDICATES DIFFERENCE IN FREQUENCIES OF SINE WAVE OSCILLATOR (CONTAINING DE
ULTRALOW-NOISE UHF.-TV. ANTENNA PREAMP. WITH PUSH-PULL BALANCED INPUT STAGE & UHF. TRANSISTOR
CCT TO ALLOW MEASUREMENT OF TIME INTERVAL BETWEEN ZEROS OF SELECTED CYCLES IN DIFFERENT ECHO
CCT IN WHICH MODEM IC'S RECEIVER & TRANSMITTER CONNECT TO POWER LINE BUS THROUGH AC. COUPLING
MUTUAL INDUCTANCE BRIDGE
CCT WITH OA. ADDED TO VFC., FOR PREAMPLIFICATION & HIGH-IMPEDANCE DIFFERENTIAL INPUTS/CCT TO EXT
ACTIVE TWIN-T NOTCH FILTER DESIGNED USING AJITA, WITH CENTRE FREQUENCY OF 1590HZ & Q-FACTOR OF 8
ACTIVE CROSSOVER USING 3 DUAL OA.S CONFIGURED AS 4TH-ORDER CONSTANT-VOLTAGE STATE-VARIABLE F
DETECTION CCT USING PHOTODIODE TO CAPTURE TRANSIENT OPTICAL BIREFRINGENCE SIGNAL/PULSE GENER
CCT TO PROVIDE ON-LINE INDICATION OF AVERAGE PMT. CURRENT OVER TIME PERIODS
CCT TO MEASURE OA. SETTLING TIME/2-STAGE RF. AMP. THAT CLAMPS OUTPUT TO OBSERVE WAVEFORM WITH
CCT WITH PIN PHOTODIODE AS CURRENT SOURCE, CURRENT-TO-VOLTAGE CONVERTER & AC. COUPLED AMP./6
CCTS USING OA.S (4)

CCT USING SINGLE QUAD JFET. OA. IN SINGLE-ENDED, NON-INVERTING CONFIGURATION WITH GAIN OF 11
CCT USING DUAL OA. TO PROVIDE SINGLE-CHANNEL INTERFACE BETWEEN RS-232C LINE & MOS. LSI. TERMINAL.
CCT THAT FLASHES PAIR OF LED.S OR INCANDESCENT LAMPS ALTERNATELY, FOR MODEL RAILROAD, TOY, NIGHT
CCT TO AMPLIFY VOLTAGE OBTAINED BY INDUCTIVE COUPLING, FOR ALIGNMENT OF TUNED CCTS/DIP METER U
POTENTIOSTAT & CURRENT FOLLOWER/PREAMP. OF QUANTUM COUNTER CONSISTING OF CURRENT FOLLOWER
CCT CONNECTING RELAY BOX OF PERKIN-ELMER MPF-44B FLUORESCENCE SPECTROPHOTOMETER WITH ISAAC
CCT FOR TEST LOOP TO MEASURE INPUT OFFSET CURRENT OF OA. BY CHANGING RESISTOR FROM 500HM TO 1
CCT SHOWING CONNECTIONS OF COMPONENTS OF 1 CHANNEL OF MODULE OF DAS., INCLUDING FILTER/CCT SH
BATTERY-OPERATED OPTICALLY COUPLED RF. PROBE
DETECTOR CCT (DETECTION SYSTEM) CONSISTING OF P-I-N (PIN) PHOTODIODE & OA. WIRED AS TRANSCONDU
ACTIVE ANTENNA THAT PROVIDES BALANCED-TO-UNBALANCED CONVERSION WITHOUT BALUN, INCLUDING TEL
CCT FOR CONTROL VOLTAGE STABILIZATION OF LM566 VCO./CCT TO DETERMINE VGSO FROM RDSVSVGS OF FE
ACTIVE FILTER FOR BASS BOOST
ACTIVE (TUNABLE LOWPASS-BANDPASS-NOTCH) FILTER, & CLOCK CCT USING 2 INVERTERS, THAT DETERMINES
RTTY. FSK. MODEM THAT SENDS & RECEIVES MARK- OR SPACE-HIGH SIGNALS, & HAS 5 SHIFTS & BAUD RATES, &
CCT TO EXTEND WORKING LIFE OF 'OVERRUN' PHOTOGRAPHIC LAMPS BY PROTECTING AGAINST SUDDEN INFLU
CCTS FOR FAST SAMPLING & MERGING OF 16 PARALLEL CHANNELS TO 1 SERIAL OUTPUT CHANNEL, USING ADD
12TH-ORDER CHEBYSHEV FILTER BANK USING 8-BIT COUNTERS & CMOS. ACTIVE FILTER BUILDING BLOCKS THA
ANTENNA-MOUNTED UHF.-TV. PREAMP. WITH 1ST STAGE BIASED FOR OPTIMUM NF., & 2ND FOR OPTIMUM GAIN,
CCT USED FOR SEMIINTEGRATION OR SEMIDIFFERENTIATION, TO PROCESS OUTPUT FROM PRINCETON APPLIE
AUTOFOCUS DETECTOR CCT INCLUDING PHOTODIODE, PREAMP. (CONSISTING OF LOW-NOISE OA. IN TRANSIMP
CCT TO READ OUT INDIVIDUAL WIRES OF MWPC. IN DETECTOR LAYERS, USING DIODE-PROTECTED SINGLE-TRAI
CCT USING OA.S, FUNCTION GENERATOR & NOISE GENERATOR, TO DEMONSTRATE THAT NOISE AVERAGES TO
ACTIVE DBM. THAT ACHIEVES BALANCE BY USING 4 NOISELESS FEEDBACK AMP.S/BUFFER (EMITTER FOLLOWER
CCT TO MAINTAIN SIGNAL LEVELS THROUGHOUT AUDIO-COMPONENT CHAIN, USING NOISE GENERATOR AS REF
CCT THAT GENERATES TRIANGLE WAVE WHOSE PEAKS ARE ADJUSTABLE, USING QUAD OA. CONFIGURED AS IN
CCT USING ANALOG SWITCH BETWEEN 2 SH. AMP.S TO AVOID PASSING DEVICES' SAMPLE-MODE ABERRATIONS
CCT TO STABILISE OUTPUT VARIATIONS, IN WHICH BASE LINE REMAINS WITHIN 10MV OF GROUND DESPITE +-1V
CCT TO GENERATE MULTILEVEL SQUARE WAVES, USING 8-CHANNEL ANALOG MUX., TIMER, 4-BIT BINARY COUNT
CCT USING HOWLAND CURRENT PUMP IMPLEMENTING VOLTAGE-CONTROLLED CONDUCTANCE/CCT TO DEVELOP
BATTERY-OPERATED FIXED-FREQUENCY 1090HZ OSCILLATOR (GENERATOR) OF LOW HARMONIC CONTENT, BAS
CCT TO ALLOW ATTENUATION OF AUDIO TEST SIGNAL TO BE VARIED UNDER COMPUTER PARALLEL PORT CONT
CCT THAT PROVIDES SELECTABLE TIME LAG WHILE RECONSTITUTING ANALOG SIGNAL, USING TIMER & 3 1-SHO
INTEGRATOR & SH. CCT OF ANALOG DIVIDER USING HIGH SPEED OA.S, LINEAR WIDE-RANGE VCO., MONOSTABL
1 TRANSISTOR WIDEBAND RECEIVING PREAMP. (COMMON EMITTER AMP.) WITH VOLTAGE GAIN OF 15 TO 20DB, V
CCT FOR OPTOGALVANIC SIGNAL DETECTION/LOW-POWER PREAMP./GATED INTEGRATOR USING SH. OA./CCT FO
CCT FOR BASIC VOLTAGE-TO-FREQUENCY OPERATIONS, USING BURR-BROWN SYNCHRONIZED VFC.
CCT THAT PRODUCES 0-2000 COUNTS WITH INPUT OF 0 TO 10V/VOLTAGE-TO-FREQUENCY CCT WITH 10KHZ OFF
CCT TO MATCH RESISTORS TO BETTER THAN 1% ACCURACY WITHOUT A METER
CCT FOR VOLTAGE CLAMPING & CALIBRATION OF COMPENSATION CCTS, INCLUDING AMP. TO PROVIDE BOOTST
CCT FOR SHARP LASER DIODE OPERATION & TEMPERATURE CONTROL, INCLUDING DIODE DRIVER IC, THERMIST
CCT TO ALLOW LIGHT LEVELS DOWN TO 10PW TO BE DETECTED, BY FILTERING OUTPUT OF AMP. TO WITHIN 100
1-TRANSISTOR FM. TRANSMITTER TO TRANSMIT AUDIO SIGNAL OVER FM. CARRIER AT 106MHZ, USING CLAPP-G
CCT TO MEASURE VARIATIONS IN LIGHT OUTPUT OF PHOTO FLASH GUN, USING PHOTODIODE-OA. CCT, & HF. VF
CCT FOR DEMODULATING AM. PULSE-LIKE SIGNAL FROM PHOTOMULTIPLIER
CCT USING DEMODULATOR & POWER AMP., TO OPERATE KOLLMORGAN PRINTED CCT (PC) MOTOR, INCLUDING
NOTCH FILTER/NEGATIVE, POSITIVE & LOW DRIFT PEAK DETECTORS (3)/AIR-FLOW DETECTOR/3 DECADE VCO./1.
CCT USING SWITCHED-CAPACITOR-FILTER IC THAT PROVIDES 1ST-ORDER, ALLPASS-FILTER RESPONSE
CCT FOR DETECTION OF PEAK TIMING, QUANTISATION OF PEAK AMPLITUDE, & ASSIGNMENT OF CHANNEL TO CL

BATTERY-POWERED WIRELESS FM. TRANSMITTER TO TRANSMIT CLEAR AUDIO SIGNAL UP TO 100FT TO ANY FREQUENCY
INTEGRATOR FOR TRUE NOISE DOSEMETER, USING VFC. & DIGITAL ALARM CLOCK WHOSE TIME-KEEPING FUNCTION IS
INTERFACE PROVIDING HIGHER CURRENT OR LOWER SOURCE IMPEDANCE/FORCE-TO-FREQUENCY CONVERTER
CCT TO REALIZE PIECEWISE-LINEAR APPROXIMATION OF VOLTAGE-CONTROLLED CONDUCTANCE, INCLUDING CURRENT
CCT TO ALLOW MEASUREMENT OF SMALL TWITCHES SUPERIMPOSED ON MAXIMAL VOLUNTARY CONTRACTIONS
ATTENUATOR & TRANSFORMER DRIVER/PSD. WHOSE OUTPUT IS PASSED TO VFC./PREAMP. WITH DIFFERENTIAL
AUTOMATIC PHOTOELECTRIC ENLARGER TIMER FOR PHOTOGRAPHIC DARKROOM
CCT IN WHICH OA. EXTENDS DYNAMIC RANGE OF VFC. BY REDUCING OFFSET ERROR CAUSED BY INPUT BIAS CURRENT
CCT TO INCREASE VOM'S INPUT IMPEDANCE TO PREVENT METER FROM LOADING CCT & INCREASE ACCURACY
INTEGRATOR FOR USE WITH THERMAL MASS-FLOW METERS OR CONTROLLERS, USING BURR-BROWN VFC., DIVIDER
1ST STAGE OF AF. DETECTOR (DISCRETE FET. AMP.) USING LOW-NOISE TELEDYNE CRYSTALONICS FET./BI-QUADRANT
CCT USING HIGH-INPUT-IMPEDANCE JFET. AMP. CHIP, TO AMPLIFY VOLTAGE FROM PH PROBE & APPLY IT TO INPUT
CCT OF TEMPERATURE-COMPENSATED FLOW-THROUGH CELL (SENSOR), INCLUDING LED.S, PHOTOTRANSISTOR
ACTIVE HIGHPASS FILTERS (2)/ACTIVE LPF.S (2)/NOTCH FILTERS (3)/BANDPASS FILTERS (2)/SIMULATED INDUCTIVE
AUTOMATIC BEAM-AIMER FOR ALLIANCE HD-73 ANTENNA ROTATOR, INCLUDING DIFFERENCE AMP. & COMPARATOR
CCT OF AUTOCOLLIMATOR (TO DETECT SMALL ANGULAR TILTS OF REFLECTING SURFACES) BASED ON LASER HEAD
CCT OF CONSTANT STRAIN RATE DEVICE
CCT THAT IMPROVES RELIABILITY WHEN READING MAGNETIC MEDIA BY KEEPING DIGITAL OUTPUT LEVEL CONSTANT
CCT TO MEASURE TO 100UOHM, USING SYNCHRONOUS DETECTOR/AC. FORCE GENERATOR/BANDPASS FILTER
CCT FOR DIGITALLY-CONTROLLED ELECTRON-BEAM BLANKING AT 1ST GRID OF CAMERA TUBE USED FOR QUANTIFICATION
CCT SHOWING HOW EG&G JUDSON UV. SENSOR (DETECTOR) CONTAINING PHOTODIODE & OA. IS CONNECTED/SIGNAL
AUTOMATIC CCT THAT DELIVERS ORDERS FOR DELIVERY OF 12 SAMPLES INTO DETECTOR, ACQUISITION OF COORDINATE
CCT FOR GENERATION OF SYNCHRONISING SIGNALS/ACCURATE 4-ELECTRODE AC. CONDUCTIMETER
CCT USING HV. MUX. & ADC., FOR HV. DATA CONVERSION/THERMAL PRINTER HEAD CCT, USING RESISTIVE ELEMENTS
CCT FOR LOCK-IN EXPERIMENT, CONSISTING OF CHOPPER, SUMMING AMP., PSD. & LPF., USING CMOS. ANALOG
CCT SHOWING PS.S FOR SILICONIX DG884 DIGITALLY SELECTABLE 8 INPUT TO 4 OUTPUT MONOLITHIC CROSSPOINT
CCT USING CROSSPOINT ARRAY, INCLUDING INPUT BUFFERING & OUTPUT GAIN/CCTS TO MEASURE OUTPUT IS CURRENT
CCT TO SWITCH AUDIO AT LOGIC LEVELS, USING SILICONIX DG308 & RESISTIVE DRIVE FROM OPEN COLLECTOR
CCT THAT PRODUCES AUDIBLE OUTPUT WITH VARYING PITCH DEPENDING ON ORIENTATION TO EARTH'S MAGNETIC FIELD
CCT TO DISPLAY 8 ANALOG SIGNALS ON SINGLE-TRACE OSCILLOSCOPE, USING 8-CHANNEL DIFFERENTIAL ANALOG
CCT USING BURR-BROWN PGIA (PROGRAMMABLE-GAIN IA.) WITH GAINED-UP OUTPUT STAGE/LOW-NOISE FIXED-GAIN
CCT USING ANALOG SWITCH THAT CAN DERIVE POWER FROM ITS INPUT SIGNAL DURING POWER OUTAGES, IF AVAILABLE
CCT USING ANALOG-SWITCH IC WITH MAKE-BEFORE-BREAK ACTION WITH & OA., WITH SMOOTH TRANSITIONS IN
CCT USING 16-BIT EMBEDDED CONTROL PROCESSOR WITH CHIP SET TO ALLOW IT TO TAKE ADVANTAGE OF PC.
CCT TO PROTECT SMPS.S AGAINST OVERLOAD, USING MONOSTABLE (1-SHOT), FF., & PWM. THAT IS DISABLED IF
OPTICALLY ISOLATED IGBT. DRIVE CCT (DRIVER) IN WHICH TRANSISTOR OFFERS PROTECTION BY LIMITING CURRENT
CCT USING SMPS. CONTROLLER, WITH CURRENT LIMITING BY INTRODUCING PROGRAMMING VOLTAGE AT ERROR
CCT USING MICROWAVE SEMICONDUCTOR SINGLE-STAGE GAAS. BROADBAND AMP./3 CASCADED NEC GAAS. MIXER
OPTICAL ENCODER INTERFACE TO ALLOW COUNTING OF TRANSITIONS/COUNTING CCT USING 16-BIT COUNTER,
MOTOR DRIVE FOR 1 CHANNEL/VOLUME-BALANCE LOGIC/LIMIT DETECTOR FOR 1 CHANNEL/REMOTE CONTROL I/O
CCT USING POWER-FAULT MONITOR, TO MONITOR 3 DC. PS.S WITH FAULT-TOLERANCE WINDOW OF +-10% & REVERSE
CCT THAT REDUCES HARMONIC DISTORTION CAUSED WHEN ANALOG SIGNALS PASS THROUGH CMOS. ANALOG
CCT USING 50V REVERSE BIASED PHOTODIODE LOADED WITH 1MOHM RESISTANCE/SIMILAR CCTS INCLUDING ESD
CCT USING TTL. COUNTER, 8-CHANNEL ANALOG MUX. & 4TH-ORDER LPF., TO GENERATE 1 TO 25KHZ SINE WAVE
CCT USING GATE ARRAY FROM FORCE, INCLUDING VMEBUS INTERFACE FUNCTIONS, 32-BIT DMA. CONTROLLER
RETIMING CCT FOR GBIT-S APPLICATION
ACTIVE HIGH-PASS FILTER USING 5-POLE 11 THROW SWITCH & OA. (OP) WHOSE PERFORMANCE IS SOMEWHAT IMPROVED
FET.-BASED PROTECTIVE SWITCH FOR SYSTEM USING MULTIPLE PS.S INTERCONNECTED SUCH THAT SYSTEM CURRENT
GATE-DRIVER CCT FOR POWER MOSFET., USING ANALOG SWITCH TO INJECT CONSTANT CURRENT FROM REGULATED

CCTS FOR 2-MODE MODULATION TO PERMIT LOW-COST DATA MUX.ING/DEMULATION CCT
GATED INTEGRATOR CCT/GATE PULSE GENERATING CCT/LASER BEAM TRIGGERED FAST PULSE GENERATOR/8
CCT USING GENERAL-PURPOSE 500KHZ TO 1GHZ HYBRID AMP. THAT INCLUDES INTERNAL DECOUPLING CAPACITORS
CCT TO CONVERT PHOTODETECTOR SIGNAL TO TTL.-DTL.-CMOS. LEVELS/FAST (40MBITS PER S) FIBER OPTIC DATA
AUTOMATIC NORMALIZATION CCT OF ANALOG SIGNAL PROCESSING CCT OF UP. CONTROLLED NIR. CD SPECTROSCOPY
CCT TO IMPLEMENT BOOTSTRAP CURRENT INJECTION TECHNIQUE, INCLUDING FEEDBACK AMP., BRIDGE & FET. CIRCUITS
CCT FOR MEASURING REVERBERATION TIME OF ENCLOSURES, BY MEASURING DECAY TIME OF SOUND PRESSURE
INTERFACING (INTERFACE) CCT OF DIGITAL CONTROLLER TO ANALOGUE SIMULATION OF PLANT, INCLUDING DATA
CCT USING PIN PHOTODIODE & LOW-NOISE RECEIVER-AMP. (CONTAINING FET.-INPUT PREAMP.) WHOSE INPUT SIGNAL
PIT. CCT TO PROVIDE PROGRAMMABLE TIMER FOR DATEL ST-DATA GENERAL NOVA INTERFACE/MULTICHANNEL
CCT TO EXTEND BW. OF CURRENT AMP., BY INCREASING INPUT-STAGE BIAS CURRENTS & BOOTSTRAPPING AMPLIFIERS
CCT CONSISTING OF CURRENT-TO-VOLTAGE CONVERTER & PRE-AMP., & AMP., TO AMPLIFY PULSES (SIGNAL) FROM
CCT TO DETECT 2ND DIFFERENTIATION WITH TIME CONSTANT OF 9.4×10^{-3} S, USED IN EXPERIMENTAL SYSTEM FOR
MOTOR DRIVE SERVO CCT TO CONTROL MECHANISMS USING DC. MOTORS TO SET POSITION, INCLUDING FEEDBACK
DATEL-INTERSIL T-H (TRACK-HOLD) AMP. CONTAINING 2 OUTPUT BUFFERS IN FLASH-CONVERTER APPLICATION
CCT TO CLAMP VIDEO SIGNAL'S BACK-PORCH VOLTAGE TO 0V, WITH COMPOSITE-VIDEO SIGNAL & TTL.-LEVEL HIGH
1ST STAGE OF PHONO AMP./LINE AMP. USING MOSFETS, WITH VERY GOOD PERFORMANCE IN SPEED & LINEARITY
CCT TO MEASURE SURFACE POTENTIAL CHANGES UPON ADSORPTION OF GASES ON METAL FOIL OR FILM, USING
EXTRACELLULAR AMP. GAIN STAGES WITH CABLE SHIELDS & SUPPLY VOLTAGES BOOTSTRAPPED TO PROVIDE
ULTRAFAST MODULATOR CCT THAT INTERFACES MODULATION SOURCE TO DBM., USING OA. & CURRENT AMP. (CURRENT)
CCT FOR SIGNAL GENERATION & TIMING OF SYNCHRONIZATION TO LASER FIRING/CCT FOR MUX.ING, DIGITIZATION
CCT TO BIAS CATHETER ANODE AT 0.7V WITH RESPECT TO CATHODE, CONVERT CURRENT TO VOLTAGE & AMPLIFY
POTENTIOSTAT & CURRENT-TO-VOLTAGE (I-V) CONVERTER OF APPARATUS FOR SEPARATION & DETERMINATION OF
4-TERMINAL AC. BRIDGE, TO BE USED WITH SENSORS OF LOW RESISTANCE, & CONSTANT CURRENT DRIVER
CCT IN WHICH CONVERTER SAMPLES 1 CHANNEL EXTREMELY QUICKLY/CCT THAT SAMPLES 16 MUX.ED SIGNALS
CCT USING 5.5-DIGIT INTEGRATING ADC. WHOSE OPERATING MODES ARE SET BY HOST PROCESSOR THAT REALIZES
CCT USING OPTICAL INTERRUPTERS TO REALIZE FORCE-BALANCE SERVO BASED ON D'ARSONVAL MICROAMMETER
OPTOISOLATED INPUT CCT THAT IS PROTECTED AGAINST NOISE & REVERSE CONNECTIONS, CONNECTED TO USER
CCT SHOWING INTERFACING OF SENSOR SWITCH CLOSURES TO IRRIGATION CONTROLLER/CCT SHOWING INTERFACING
CCT TO SUPPLY CONTACT CLOSURE FOR HEWLETT-PACKARD 7670A AUTOMATIC SAMPLER (AUTO-INJECTOR), USING
CCT USING MUX., WITH DIGITAL CONTROL OF BIPOLAR OUTPUT CURRENT/CCT USING PROGRAMMABLE-GAIN AMPLIFIER
CCT USING HYBRID POWER DEVICE (DRIVER) TO DRIVE STEPPER MOTORS, CONTAINING POWER & CONTROL FUNCTIONS
CCT THAT CAN BE ADDED TO OLDER UNREGULATED PS. CCTS (WHOSE RIPPLE MUST ALREADY BE <1.8V PEAK-TO-PEAK)
INTERFACE USING OPTO-COUPLEDERS & TRIACS, TO SUPPLY 500W PER CHANNEL/CCT FOR 16-CHANNEL INTERFACE
OPTICAL ISOLATOR FOR VOLTAGE LEVEL CONVERSION/SWITCH DEBOUNCING CCT/SWITCH DEBOUNCING CCT USING
INTELLIGENT SCROLLING DISPLAY THAT, CONNECTED TO RS-232 PORT, SERVES AS MESSAGE "BOARD"/CCT SHOWING
DETECTION CCT OF ETCH CHAMBER

CCT CONNECTED BETWEEN TELEPHONE LINE & TAPE RECORDER, THAT AUTOMATICALLY ACTIVATES RECORDER
CCT THAT RECTIFIES BUZZER SIGNAL ON TELEPHONE LINE, TO SWITCH LOAD(S) VIA RELAY, INCLUDING OPTOISOLATED
CCT USED WITH LINEAR OPERATION OF PHOTON-COUPLED INTERRUPT MODULE (SLOTTED OPTO-SWITCH), USING
CCT SHOWING TRANSISTORIZED MICROAMP METER CONNECTION TO RADIO/CCT SHOWING CONNECTION OF 200
EXTREMELY SIMPLE & INEXPENSIVE PHOTODETECTOR USING TEXAS INSTRUMENTS SILICON APD., TO OBSERVE
INTERFACE CCT TO CONTROL 2 CASSETTE TAPE DECKS (RECORDERS) FOR SEQUENTIAL FILE MANIPULATION, USING
CCT TO CHARGE NICD. BATTERIES IN SANGEAN AT803A RECEIVER, INCLUDING EXTRA NICD./CCTS FOR USE IN MOTOR
CCT TO ISOLATE LINE VOLTAGE (120VAC.), USING OPTOISOLATOR TRANSISTOR WITH BASE-TO-COLLECTOR JUNCTION
CCT USING PHOTOVOLTAIC DIODE ARRAY WITH COMPLEMENTARY EMITTER-FOLLOWER BUFFER, TO DRIVE PHOTO
CCT TO CONVERT COMPUTER SERIAL OUTPUT TO 20MA LOOP SUITABLE FOR DRIVING TELETYPE MACHINES
CCT TO TURN POSITIVE OR NEGATIVE INPUT PULSES INTO UNIPOLAR PULSES BY STEERING PULSES TO PROPER
CATHODIC STRIP READ-OUT ELECTRONICS/QCQUISITION & CALIBRATION ELECTRONICS (BBB)/TEST PULSE DEMONSTRATION

OPTOISOLATED AC.-TO-LOGIC CONVERTER OF PROJECT TO MONITOR FURNACE PERFORMANCE, SHOWING CCT
INTERFACE CARD TO CONTROL & ACQUIRE DATA WITH APPLE IIE COMPUTER, INCLUDING ADC., DAC. & VIA./PS. C
CCT FOR ADDITION OF ANOTHER LED. FOR EITHER MARK OR SPACE INDICATION
OUTPUT INTERFACE FOR LCD. CLOCK MODULE, INCLUDING SCR. & RELAY/CORRECTED SINGLE-FLASH XENON S
CCT USING PHOTOVOLTAIC DIODE ARRAY & MOSFET.S WHOSE SWITCHING SPEED IS IMPROVED BY EMITTER FO
DETECTOR & SQUARING CCT
CCT SHOWING OPTOCOUPLER USED IN PLACE OF RELAY TO CONTROL REMOTE DEVICES IN TRS-80 OR COLOR
OPTOISOLATOR VOLTAGE DETECTOR FOR COMPUTER INPUT/LATCH CCT IN WHICH MOMENTARILY CLOSING SW
INTERFACE CCT TO TRANSLATE INPUT LEVEL TO SUITABLE OUTPUT LEVEL, & STOP HARMFUL INTERFERENCE F
CCT USING BLEED RESISTOR TO LEAK OFF ACCUMULATED CHARGE & INCREASE RESPONSE TIME OF LED.-PHO
ROTARY SPARK GAP FOR TESLA COIL CCT, USING 12V POWER TRANSFORMER, BRIDGE RECTIFIER, 4700UF CAP.
CCT USING 1 QUAD IC & DRIVING COMPONENTS, TO PROVIDE SMOOTH BIDIRECTIONAL POWER CONTROL FOR S
CCT THAT SCANS 16 ANALOG INPUTS TO DETERMINE WHICH CHANNEL HAS LARGEST INPUT VOLTAGE, USING 2
CCT USING CONTROL TECHNIQUE IN PRIMARY CCT/SELF-RESETTING CURRENT LIMITER WITH SHORT-CCT PROT
CCT TO PULSE ATOMIZATION FILAMENT IN SYNCHRONIZATION WITH IONIZING LASER, INCLUDING OPTOCOUPLED
CCT USING 3-TERMINAL 24V VOLTAGE REGULATOR, SHOWING HOW OUTPUT CURRENT CAN BE INCREASED BY U
CCT FOR X-AXIS DRIVING, TO SYNTHESIZE 2 DISPLACEMENT SIGNALS TO DISPLAY FULL AUTOCORRELATION WA
INTERCONNECTIONS WITH SCANNING TRANSMISSION ELECTRON MICROSCOPE SOLENOID VALVE TRANSISTORS
CCT USING 2ND TRANSISTOR TO CONFIGURE DARLINGTON CCT IN DANIEL PREAMP. (AUAM8502#)
CCT SHOWING MOD. TO ENHANCE TRACKING STABILITY OF CD. PLAYER
CCT SHOWING ELECTRONIC & HYDRAULIC CONNECTIONS
RTTY. CONSTANT-CURRENT LOOP SUPPLY THAT PROVIDES CONSTANT 60MA OR 20MA, REGARDLESS OF RESIS
CCT TO POWER TELEPRINTER, USING TRANSISTORS AS CURRENT-CONTROLLING DEVICES, WITH PS. PROVIDING
CCT SHOWING CHANGES (MOD.S) IN LEACH LOW-NEGATIVE-FEEDBACK "LOW-TIM" AUDIO AMP., TO REDUCE THD
CCT FOR INTERFACING OLDER TTYS TO MICROS/CCT FOR USING MODEL 33 TELETYPEWRITERS WITH MICROCO
CCT SHOWING GENERATION OF ROW & COLUMN ADDRESS STROBES TO ACCESS DRAM., USING DELAY LINES (B
CCT SHOWING INTERFACING OF MODEM TO MULTIFUNCTION PERIPHERAL & SERIAL IO. SIO CHIPS (BBB)
CCT USING THYRISTORS, TO GENERATE VARIABLE-FREQUENCY (50HZ-1KHZ) ~1.5KV PULSES, BASED ON CHARG
CCT TO PROVIDE TELEPHONE-SUBSCRIBER SUBSET, ACCEPTING CALCULATOR- OR TELEPHONE-STYLE KEYPAD
ALTAIR BUS INTERFACE & FREQUENCY SELECTION LOGIC FOR TUNABLE DAC. METHOD OF PITCH GENERATION/
CCT TO PULSE HOLLOW CATHODE LAMP, USING 1000V NPN TRANSISTOR AS SWITCH IN SERIES WITH LAMP & CU
CCT USING 512X9 DUAL-PORT PARALLEL IO. FIFO. FOR PRINTER'S BUFFER/SAME USED FOR DATA COLLECTION/
CCT SHOWING UPGRADE TO ICOM R-1 POCKET SCANNER-RECEIVER, TO IMPROVE SELECTIVITY (ADJACENT CHA
CCT TO PRODUCE GAS EXCITATION BY DISCHARGING CAPACITORS, INCLUDING DISCHARGE CCT TO GENERATE
CCT FOR TELEPHONE HOLD PROJECT
CCT TO TURN ON TAPE RECORDER WHENEVER RECEIVER'S SQUELCH IS BROKEN, & SHUT OFF TAPE RECORDER
CCT USED IN POWERFUL THYRISTOR MODULATOR, CONSISTING OF 12 SEMIKRON THYRISTORS CONNECTED IN
CCT SHOWING PLESSEY'S SL9999 OA. WITH EXTERNAL COMPONENTS WHICH SET INDIVIDUAL PARAMETERS
CCT USING ELANTEC VIDEO BUFFER AMP. TO DRIVE 15 MATCHED 75OHM TRANSMISSION LINES WITH 20Vpk-pk
CCT TO MEASURE LOW RESISTANCE VALUES BY INJECTING AC. CURRENT & AMPLIFYING VOLTAGE DROP, USING
DETECTOR & AC.-COUPLED AMP. (PHOTODIODE AMP.), INCLUDING IC VIDEO AMP., & TRANSISTORS USED AS IMP
EXTERNAL HF. AMP. FOR PLESSEY SINGLE-CHIP FSK. RADIO DATA RECEIVER/450MHZ LO. CCT (X3 FREQUENCY M
CCT USING DC.-RESTORED IC VIDEO AMP. SUB-SYSTEM (VIDEO & SH. AMP.S) THAT MAINTAINS DC. RESTORATION
CCT USING HALL-EFFECT SWITCH (SENSOR), REDUCING NUMBER OF WIRES REQUIRED, & USING AMP. CONFIGU
CCT SHOWING Plix (AC. POWER LINE CONTROL FOR X-10) CHIP CONNECTED TO (IO.) PORT 1 OF PROCESSOR, &
CCT USING INTEGRATED BROADBAND AGC. AMP., INCLUDING PARALLEL TUNED CCT ACROSS DIFFERENTIAL IPU
CCTS USING VOLTAGE SUPERVISOR IN 5V & 15V UP. APPLICATIONS/MEMORY PROTECTION CCT/CCT SHOWING M
CCT OUTPUT OF WHICH CAN BE PROPORTIONAL TO POSITIVE OR NEGATIVE PHASE-SEQUENCE OF 3-PHASE SUP
MUTUALLY COUPLED TUNED CCT CONSISTING OF T NETWORK OF RESISTORS CONNECTED BETWEEN 2 GIC TYF

CRT. CONTROLLER (CRTC) IN WHICH UP. HAS PRIORITY OVER CONTROLLER FOR RAM. ACCESSES, BASED ON D
CCT TO MEASURE MAXIMUM RATE OF RISE OF CARDIAC ACTION POTENTIAL, INCLUDING DIFFERENTIATOR, PEAK
CCT TO GENERATE 1KHZ WITCHES-HAT PULSES WITH PEAK LEVEL OF 1V, WITH LOW IMPEDANCE OUTPUT PROV
CCT TO STABILIZE AMPLIFICATION OF SCINTILLATION DETECTOR, USING PULSED LED., PMT.-BUFFER, PIN-AMP..
1-TO-10KHZ VARIABLE FREQUENCY PULSE GENERATOR WITH DUTY CYCLE VARIABLE FROM 10 TO 90%/CCT TO C
CCT TO TRANSFORM 2-ELECTRODE POLAROGRAPH INTO 3-ELECTRODE SYSTEM, ALLOWING USE OF PH-TYPE RE
CCT TO MODULATE ACCELERATING VOLTAGE WITH AC. COMPONENT, 1ST OVERTONE OF WHICH IS USED AS RE
CCT THAT DETECTS HIGHEST & LOWEST POINTS OF PERIODIC WAVEFORM, TO PROCESS BIOMEDICAL SIGNALS
CCT USING 200MHZ 2-QUADRANT ANALOG MULTIPLIER WHOSE OUTPUT CURRENT DRIVES FOLLOWER-CONNECT
CCT TO DETERMINE NON-LINEAR CAPACITANCE, USING PAIR OF OA.S & PAIR OF SILICON SIGNAL DIODES
CCT USING 4 OA.S TO IMPLEMENT STATE-VARIABLE FILTER OR BIQUAD FILTER, CONFIGURABLE AS LOWPASS NO
CCT TO DRIVE (AMPLIFY & CONVERT TO SQUARE WAVE, OUTPUT FROM FROM FREQUENCY SYNTHESIZER) VIBR
CCT TO CREATE JOYSTICK INTERFACE USING ADC. IC
CCT THAT INTEGRATES INPUT SIGNAL OVER SERIES OF PERIODS RELATED TO AC. POWER-LINE FREQUENCY TO
CCT TO ADD BASS TO AUDIO SIGNAL WHEN USING CHEAP HEADPHONES, OR GIVES "BIG SPEAKER SOUND" TO S
ACTIVE BAXANDALL TONE CONTROL INCLUDING MID-FREQUENCY SECTION, PROVIDING +-10DB ADJUSTMENT IN
3-TRANSISTOR INPUT CCT FOR SHUNT-FEEDBACK RIAA EQUALISATION/QUAD HEAD AMP./CCT USING PARALLELE
CCT USING THERMISTOR TO CONTROL TEMPERATURE, USING COMPUTER
CCT TO PRODUCE START-STOP PULSE AS MENISCUS FALLS THROUGH FIELD OF VIEW OF DETECTOR, INCLUDIN
CCT TO PROGRAM EPROM.S, USING BINARY COUNTER FOR ADDRESS GENERATION, & STEP-UP SWITCHING REG
FET. OA. TO CONVERT PMT. CURRENT TO VOLTAGE, FOR USE AS ELECTROMETER SUBSTITUTE FOR USE WITH S
CCT TO ACTUATE ROTARY SOLENOID, TAKING FLOW SIGNAL FROM PNEUMOTACHOGRAPH AS INPUT, INSENSITIV
INTERFACE CCT FOR TI (TEXAS INSTRUMENTS) ULTRASONIC RANGER (MODULE) & IBM PC. (MICROCOMPUTER) F
CCT TO PROTECT LOUDSPEAKERS AGAINST DC. FROM DC. COUPLED OUTPUT (POWER) AMP., INCLUDING WINDO
CCT TO DEMODULATE RECEIVED DATA ON BBC'S RADIO 4 LONG-WAVE SERVICE, USING QUAD OA., FET., & IF.-AF
CCT TO MONITOR TO TEMPERATURES, USING NTC. RESISTORS, & LED.S TO INDICATE WHETHER VOLTAGES FRO
CCT TO DEVELOP TTL. LEVELS FROM TRS-80(R) MICROCOMPUTER CASSETTE OUTPUT PORT/SIMILAR CCT FOR F
DATA CONVERTER THAT CONTAINS DAC. & ADC. CCTS & AMP., TO ALLOW COMPUTER TO CAPTURE WAVEFORMS
CCT USING LOW-NOISE, HIGH-SPEED PREAMP. ADDED TO ECL. LINE DRIVER TO PROVIDE GAIN OF 30DB WITH 30
CCTS FOR TRANSDUCER (THERMOCOUPLE) LINEARIZATION (2)/ANALOG MULTIPLIER/VOLTAGE-CONTROLLED FIL
MOTION-DETECTOR ALARM
DETECTOR STAGE OF SEISMOGRAPH, USING COIL DRIVEN BY OSCILLATOR/CONTROL STAGE TO PROVIDE REGU
ACTIVE ANTENNA PREAMP./PHASE-SHIFT CONTROL (PHASE SHIFTER) TO ALLOW PHASE CANCELLATION OF NOIS
ACTIVE FILTER WITH 160HZ CENTER REQUENCY, CONSISTING OF FLOATING SYNTHETIC INDUCTORS
CCT OF HV. ADJUST UNIT AT NEGATIVE HV. POTENTIAL, USING CURRENT THROUGH PM VOLTAGE DIVIDER AS PS
WATCHDOG CCT THAT GENERATES RESET PULSES UPON LOSS OF MEMORY-REFRESH PULSES FROM PROCESS
CCT FOR AMPLIFICATION & CONVERSION OF SIGNAL FROM AC. TO DC., WITH DC. OUTPUT VOLTAGE PROPORTIO
CCT TO INTERFACE 8-BIT ADC. IC TO CENTRONICS PARALLEL PRINTER PORT
CCT SHOWING WIRING OF SUBMINIATURE MOSFET. PREAMP.S IN 16-CHANNEL UNITY-GAIN CONFIGURATION, US
CCT THAT BUFFERS ICE. PROBE, TO PRESENT CORRECT ELECTRICAL LOAD & TIMING TO USERS TARGET (PRO
CCT IN QUAD AMP.S, USING OA. AS DC. COMPARATOR, TO ENSURE THAT NO-SIGNAL DC. VOLTAGE AT LOUDSPE
CCT USING PRECISION MONOSTABLE MULTIVIBRATOR WHOSE PULSE WIDTH IS CONTROLLED BY EXTERNAL VO
CCT FOR SIGNAL GENERATION & DETECTION
CCT CONFIGURATIONS TO MEASURE OA.'S OPEN-LOOP CHARACTERISTICS & OPEN- & CLOSED-LOOP OUTPUT IM
METER (STATE-OF-CHARGE INDICATOR) TO INDICATE PERCENTAGE OF USABLE CHARGE REMAINING IN LEAD-AC
FET.-INPUT OA. CCTS USING COMPENSATION SCHEMES TO PRODUCE STABLE AMP.S (5)/CCT TO ELIMINATE PEAK
CCT TO PROVIDE ISOLATION & CONTROL OF FILAMENT ATOMIZER, INCLUDING INDUCTION TRANSFORMER TO OF
CCT FOR 1 CHANNEL OF 8-CHANNEL INTEGRATOR THAT SUMS AMPLIFIED SIGNALS FROM EEG. MACHINE, WITH F
CCT TO DETECT HUMAN VOICE BUT IGNORE NOISE, STEADY TONES & RUSSIAN WOODPECKER PULSES, INCLUD

CCT FOR READOUT OF 2 HAMAMATSU SI PIN PHOTODIODES CONNECTED TO HYBRID PREAMP., WITH PHA. GATE
 CCT TO ACQUIRE RESPIRATION & ECG. SIGNALS SIMULTANEOUSLY/FILTERS TO SEPARATE (RECOVER) COMPOS
 ACTIVE-RC. REALIZATION OF FUNCTIONALLY TUNABLE 4TH-ORDER ELLIPTICAL FILTER
 CCT USING PULSE TRANSFORMERS THAT ACT AS ISOLATION LINE DRIVERS & RECEIVERS, TO GENERATE 3 VOL
 CCT TO GENERATE SINE SQUARED & FAST TRANSITION SIGNALS, USING TAPPED LC. DELAY LINE TO GENERATE
 1ST-ORDER ACTIVE-R ALLPASS NETWORK WITH NONINVERTING GAIN AT ZERO-FREQUENCY, USING 2 OA.S/SAMI
 CCT USING PROGRAMMABLE BIT RATE GENERATOR THAT CAN SERVICE UP TO 8 CHANNELS, TO OPERATE UART
 CCT SHOWING CONNECTIONS BETWEEN BURST ADAPTOR & GENERATOR, USING ELECTRONIC SWITCHES TO RO
 CCT TO PRODUCE 50HZ OR 60HZ OUTPUTS FROM NTSC. COLOR-BURST CRYSTAL, USING PROGRAMMABLE SINE
 RETICON DIODE ARRAY SIGNAL AMP. INCLUDING DIFFERENTIAL AMP. & SH. AMP. WHOSE INPUT IS CLAMPED TO
 CCT TO GENERATE CONTINUOUSLY ADJUSTABLE PHASE SHIFT UNDER DAC. CONTROL, USING PULSE-DELAY TE
 CCT USING SUPPLY-VOLTAGE SUPERVISOR TO DELAY RISING OF RESET LINE ON UP. UNTIL SUPPLY IS FULLY O
 CCT TO MONITOR INPUT DIFFERENTIAL TO AMP. WITH NEGATIVE FEEDBACK, & INDICATE OVERLOAD IN EITHER I
 NOTCH FILTER WITH RESPONSE 1 OCTAVE OFF TUNE WITHIN 10% OF FAR OUT RESPONSE, & LINEARITY TRACKI
 CCT USING HIGH-VALUE CAPACITORS TO PROVIDE BACKUP POWER FOR 64K BYTES OF CMOS. RAM. FOR PERIO
 FFT. CCT USING 20MHZ BIPOLAR 8-BIT SLICE, 16X16 MULTIPLIER, REGISTER FILES & MICROCODE DEVICES/CCT T
 CCT USING SPRAGUE NOISE BLANKER IC FOR USE IN AM. BC. ENTERTAINMENT RECEIVERS INCLUDING MONO O
 CCT SHOWING SCSI. 1 ALTERNATIVE 2 TERMINATION, USING IMPROVED ACTIVE TERMINATORS DEVELOPED BY T
 CCT TO PROTECT SPEAKERS & AMP. FROM FAULT CONDITIONS, INCLUDING TURN-ON DELAY, FAST TURN-OFF, A
 CCT OF LIQUID-BREATHING APPARATUS, TO SUM & BALANCE OUTPUTS OF 3 STRAIN-GAUGE TRANSDUCERS/CO
 CCT FOR DIFFERENTIAL INPUT STAGE/DIRECT INJECTION BOX (LOW-COST, HIGH & LOW IMPEDANCE SPLITTER)
 CCT PROVIDING PROTECTION FOR UP SYSTEM, USING SUPPLY-SUPERVISOR CHIP WITH WATCHDOG CCT, TO IS
 CCT TO INDICATE CAR BATTERY'S CHARGE SITUATION, WITH RED LED. INDICATING WHEN CHARGE IS NEEDED &
 CCT TO SEND (DRIVE) 40MHZ OF HIGH-RESOLUTION VIDEO SIGNALS OVER FIBER-OPTIC LINES/CCT TO DISTRIBU
 OPTICAL COMPARATOR WITH LIGHT FROM LED. ILLUMINATING PHOTODIODES (SILICON PHOTOCELLS) THROUGH
 CCT USING 1 QUAD JFET. INPUT OA., TO CONVERT INPUT SIGNAL'S PERIOD TO DC. VOLTAGE, WITH RANGE FROM
 CCT USING AM. RADIO IF. & DETECTOR IC AS DOUBLE-CONVERSION UNIT/CCT USING IC IN AM. BC. RECEIVER/27
 CCT TO DRIVE SWITCHABLE 25MA-100MA CURRENTS INTO LOAD VARYING BETWEEN A FEW OHMS & 1.7KOHM, U
 CCT OFFERING CHEAP REDUCTION IN HISS PRESENT ON BAD VHF. RECEPTION SIGNALS & HISSY TAPE RECORD
 GATED CHARGE INTEGRATING FRONT END WITH DMOSFET. INPUT CURRENT-TO-CURRENT CONVERTER/HIGH SL
 CCT SHOWING LINEAR EXPERIMENTAL ARRANGEMENT IN WHICH PLASMA IS FORMED BY ELECTRICAL DISCHARGE
 INTEGRATOR USING INSULATED-GATE OA., RESET BY BRIEFLY REVERSING SUPPLY VOLTAGES THROUGH RESIS
 ACTIVE-C CCT GENERATING SQUARE-WAVE OSCILLATIONS OVER WIDE FREQUENCY RANGE
 CCT TO ELIMINATE ELECTRODE-POP ARTIFACTS, INCLUDING PRECISION FULL-WAVE RECTIFIER, ARTIFACT WAV
 ACTIVE HIGH-PASS BOOTSTRAP FILTER/LOW-PASS BOOTSTRAP FILTER/LOW-PASS BOOTSTRAP FILTER WITH Q=
 CCT TO HOLD SIGNAL FROM LINEAR VARIABLE DIFFERENTIAL TRANSDUCER IN SH. CCT FOR DATA LOGGER, DIS
 AUTOMATIC THERMOREGULATOR (TEMPERATURE CONTROLLER) FOR AUTOREGULATION OF BODY TEMPERATU
 CCT USING 2 PS. SUPERVISOR CHIPS, TO MONITOR +-15V PS. & ACTIVATE RELAY TO TURN ON BACK-UP PS. IF VO
 DETECTION SYSTEM INCLUDING IA. TO AMPLIFY & BUFFER SIGNALS FROM ELECTRODES, ANTILOG AMP., & SUMM
 DATA (CORRELATION) DEMODULATOR TO DECODE DATA OR PICTURE INFORMATION FROM UOSAT SPACECRAFT
 FET.-INPUT AMP. THAT SETTLES TO WITHIN 0.01% IN <200NS & SLEWS AT 700V-USEC, USING FET. SOURCE FOLL
 CCT THAT PROVIDES 10V TO 15V TO LOAD, EVEN IN EVENT OF POWER FAILURE/AUTOMATIC DISCONNECTOR TO
 DETECTOR TO DETECT SMALL OBJECTS BY FEEDBACK-CONTROLLED ADJUSTMENT OF LED. OUTPUT & DETECTI
 ULTRA-LOW DISTORTION HF. SWITCHED FET. MIXER USING OA. FEEDBACK TECHNIQUES & MOSFET. SWITCHES,
 DETECTION PREAMP./CCT TO MIX REFERENCE SIGNAL FROM SYNTHESIZER WITH DETECTED SIGNAL FROM PRE
 CCT USING HAND CLAPS TO SWITCH LIGHTS, HI-FI, ETC., WITH LATCHED & TIMED OUTPUTS
 CCT THAT PERFORMS 100% AM. BY USING 3 JOHNSON COUNTER OUTPUTS TO CONTROL STATUS OF 3 ANALOG
 CCT CONTAINING BUFFERED ATTENUATOR DRIVEN BY PULSE/HIGH PASS FILTER WITH 3 POLES/CCT CONTAININ
 CCT USING 2 PM-200 SUBCARRIER DETECTORS & OA., TO HEAR MTV SATELLITE STEREO/STEREO SOUND DECO

CCT THAT PROVIDES POLARITY REVERSAL (PHASE INVERSION) & MIXING FROM STEREO TO MONO, FOR TAPES
ACTIVE-R SINUSOIDAL OSCILLATOR USING 2 OA.S & SINGLE RESISTOR AT MOST
OPTICAL CABLE LOW-LEVEL-LIGHT DETECTOR
CCT OF EMG. FINAL AMPLIFICATION & FILTERING/CCT TO SELECT EMG. CHANNEL TO BE DIGITIZED (BBB)/ADC. &
CCT FOR OHMMETER OR CONDUCTIVITY METER, TO MEASURE HIGH RESISTANCE OVER RANGE 1-10MOHM, USING
CCT FOR CHECKING FREQUENCY OF GENERATOR WHEN COMMERCIAL STANDARDS ARE NOT AVAILABLE FOR C
CCT TO REGENERATE HIDDEN SUBCARRIER/CCT USED TO RECOVER DECODING SINEWAVE/RF. MODULATOR/DE
CCT USING OA. FEEDBACK TO ACTIVELY REGULATE MICROWAVE TRANSISTOR'S DC. BIAS POINT BY ADJUSTING
CCT TO REGULATE OUTPUT VOLTAGE FROM 0 TO 20V & ENABLE SETTING OF CURRENT-LIMIT TRIP POINT BETWEEN
CCT FOR USE WITH HANDHELD TRANSCEIVERS (HANDY TALKIES), INCLUDING REGULATED 10.5V DC. AT 1A, CHA
CCT USING QUAD OA. IC OF WHICH 1 OA. REGULATES 10.000V REFERENCE VOLTAGE FOR WHOLE CHIP, INCLUDI
CCT USING CMOS. PROGRAMMABLE OSCILLATOR-DIVIDER TO SUPPLY UP. WITH 3.58MHZ CLOCK & 60HZ CLOCK
CCT TO GENERATE VOLTAGE REPRESENTING RS-232C DATA SIGNALS/TELEPHONE-DIALING CCT/AUDIO AMP.
CCT USING DVM. CHIP TO DRIVE 20 LED.S, DOUBLING DISPLAY RESOLUTION, INCLUDING 4 CMOS. ANALOGUE SW
CCT TO GENERATE CLOCK INTERRUPTS FOR CP-M CLOCK PROGRAMS, TO PROVIDE RTC.
CCT SHOWING MODEM CHIP FITTING COMFORTABLY ON SYSTEM BOARD OF PC.
CCT SHOWING CHANGES TO TA-51 220MHZ EXCITER FOR 9600 BAUD TRANSMISSION/9600-BAUD PACKET INTERF
OPTIONAL LOGARITHMIC CONVERTER FOR REAL TIME AUDIO ANALYZER, TO ALLOW DISPLAY OF AMPLITUDE VA
CCT THAT INITIATES COMPUTER CHANGEOVER TO BATTERY POWER & BACK DURING POWER FAILURES & BROW
CCT USING MICROSEQUENCER TO ADDRESS 10 PROM.S WHOSE CONTROL LINES CONTROL VLSI. DISK CONTROL
CCT TO ADJUST VOLTAGES TO ZERO/PHASEMETER THAT INCORPORATES ZCD.S WITH HYSTERESIS
CCT FOR MEASURING LOW RESISTANCE
CCT USING COUNTER TO DIVIDE 36MHZ & COUNTER TO KEEP TRACK OF Z8000 CPU. CYCLE STATE
CCT USING 16KX1-BIT RAM. CHIP TO SET UNLIMITED NUMBER OF BREAKPOINTS FOR 16KX32-BIT WRITABLE CON
INTERFACE TO CONNECT TMS32010EVM OR GENERATOR TO NETWORK/GENERATOR MODULE USING TMS32010
ULTRASONIC RANGING SYSTEM FEATURING ULTRASONIC TRANSCEIVER & BROADBAND ELECTROSTATIC TRANS
CCT TO PROVIDE MATCHED BUT VARIABLE 0 TO 1A LOAD CURRENTS FOR EACH OUTPUT OF BIPOLAR PS., ACCO
CCT TO CHARGE SEALED LEAD-ACID BATTERIES TO ENSURE LONG, TROUBLE-FREE SRVICE, PROVIDING CORRE
CCT TO DETERMINE SIGNAL'S AVERAGE (DC.) VALUE EACH CYCLE, USING SCHMITT TRIGGER, USABLE FROM 400
INTERFACES TO BBC MICROCOMPUTER FOR PH METER & OXYGEN METER, INCLUDING OA.S & ADC., FOR DATA A
EXTERNAL SIGNAL STRENGTH METER THAT IS ANALOG, DIGITAL & AUDIBLE, USING LED. BAR GRAPH DISPLAY, F
CCT TO CONDITION, AMPLIFY, FILTER OUT BACKGROUND NOISE, & ADJUST SIGNAL FROM PRESSURE TRANSDUC
CCT USING CLASS AB VOLTAGE-TO-CURRENT CONVERTER, WORKING AS SINUSOIDAL FREQUENCY DOUBLER, U
CCT USING 2 OA.S AS INTEGRATORS WHOSE OUTPUT VOLTAGES ARE PROPORTIONAL TO CONCENTRATIONS OF
CCT TO MEASURE FREQUENCY OF OSCILLATION OF DIGITAL QUARTZ WATCH TIME BASE NON-INVASIVELY, ALLC
CCT TO MEASURE SOLAR PHOTODIODE CURRENT (LUMINOSITY), USING BIFET. OA. & INEXPENSIVE UNCALIBRAT
MATROX IM-1280 IMAGING CONTROLLER BOARD INCLUDING GRAPHICS PROCESSOR, FLOATING-POINT UNIT, RA
CCT USING REGULATOR TO PROVIDE ADJUSTABLE LOW-CURRENT OUTPUT/1.5V-25V, 2A VARIABLE STABILIZED P
CCT USED IN APPARATUS TO DEMONSTRATE CENTRIPETAL FORCE (CPF), CONSISTING OF WHEATSTONE BRIDG
ACTIVE-R VCO. USING DUAL OA., THAT GENERATES SINUSOIDAL OSCILLATIONS OVER GOOD FREQUENCY RANG
CCT TO RECORD JUST CHANGE IN SIGNAL AMPLITUDE, LEAVING OUT BASELINE VARIATIONS & NOISE, WHEN ME
CCT THAT GENERATES ANALOG VOLTAGE CORRESPONDING TO DETECTED BLACK OBJECT'S LOCATION IN VIDE
CCT USING HIGH-SPEED DUAL COMPARATOR TO DETECT & HOLD TRANSIENT EVENTS ABOVE & BELOW THRESH
CCT TO INVERT COMPOSITE VIDEO SIGNAL THAT LIES BETWEEN SYNCHRONISATION PULSES, INCLUDING INVER
CCT USING NATIONAL SEMICONDUCTOR FULLY PROTECTED QUAD HIGH-SIDE DRIVER TO SWITCH MULTIPLE VOI
DATA ACQUISITION BOARD INCLUDING ANALOG SCALING CCT & MPX/ANTI-ALIASING FILTER (LPF.)/DIGITAL PROC
CCT USING TEMPERATURE SENSOR WITH 3KHZ DIGITAL TTL. COMPATIBLE OUTPUT WITH LINEAR RELATION BET
CCT THAT TAKES ABSOLUTE VALUE OF DIFFERENCE OF 2 VOLTAGES USING 2 SINGLE-SUPPLY, GROUND-REFER
CCT THAT TAKES ABSOLUTE VALUE OF DIFFERENCE OF 2 VOLTAGES USING 2 SINGLE-SUPPLY, GROUND-REFER

CCT OF FREQUENCY DETECTOR, TO LIGHT LED. WHEN IT DETECTS 15KHZ AUDIO SIGNALS FROM MONITOR'S HO
CCT THAT ALLOWS YOU TO LISTEN TO MUSIC THROUGH STEREO HEADPHONES & SOUNDS IN THE ROOM AROUND
CCT USING TELMOS SI-GATE CMOS. VIDEO DAC. THAT DRIVES RED, BLUE & GREEN ELECTRON GUNS, & INCLUDE
CCT USING AMD'S SUPERNET 5-CHIP SET USING BIPOLAR & CMOS. TO IMPLEMENT FDDI (FIBER DISTRIBUTED DA
CCT USING VFBO (VOLTAGE FEEDBACK OA.)/CFBO (CURRENT FEEDBACK OA.) EVALUATION BOARD/SPEED-UP C
SETUP THAT USES MICROCOMPUTER TO CONTROL ACQUISITION OF VIDEO DATA BY LARGE RAM.
INTERFACE FOR IEEE-696-S-100 BUS/STEPPING MOTOR DRIVE UNITS/PULSE DRIVE & DIRECTION CONTROL CCT
CCT TO MANIPULATE NICD. BATTERY CHARGING CYCLES, & SERVES AS VARIABLE PS. FOR TEST BENCH, USING
OPTOSWITCH & SIMPLE COMPARATOR CCT TO CONVERT OPTICAL AUXANOMETER WAVEFORM OUTPUT TO DIGI
CCT SHOWING RTC.-CALENDAR INTERFACING TO 6502 UP.-BASED SYM-1 MICROCOMPUTER/OSCILLATOR (MULTI
AUTOMATIC CCT FOR SINGLE BEAM MICRODENSITOMETER TO USE FOR EVALUATION OF DIFFRACTION PATTERN
CCT INCLUDING 15.36KHZ OSCILLATOR, TO ENABLE CLOCK TO CONTINUE ACCURATE TIME-KEEPING DURING BL
ACTIVE BIQUADRATIC FILTER THAT SIMULTANEOUSLY GIVES LOWPASS & BANDPASS RESPONSES, USING 2 PRO
CCT TO EMULATE (GENERATE) SOUNDS OF 2 BIRDS SINGING, CONSISTING OF COMBINATION OF 7 SCHMITT-TRIG
CCT THAT GIVES WARNING OF MOVING ELECTROSTATIC FIELD WHICH MIGHT ZAP COMPONENTS
CCT TO INTERFACE DATA ENCRYPTION CHIP WITH UP./CCT SHOWING MEMORY-MAPPED ACCESS/(BBB)
OPTICAL DETECTOR WITH FEEDBACK CONTROL OF PHOTOTRANSISTOR TO COMPENSATE FOR EFFECTS OF AM
CCT TO STRIP TIMING INFORMATION FROM COMPOSITE-VIDEO SIGNAL TO SYNCHRONIZE TO ANOTHER VIDEO S
CCT FOR DETECTION & REGENERATION OF VERTICAL-SYNC PULSE/RF. MODULATOR/SIMPLE 12V PS.
CCT TO SELECT 1 LINE FROM FIELD OR FRAME OF VIDEO INPUT, BASED ON SYNC-SEPARATOR IC
CCT USING MONOLITHIC, SWITCHED-CAPACITOR-FILTER IC FOR 2400BPS-MODEM APPLICATIONS OR 4800BPS AP
CCTS USING ZENERS & ADJUSTABLE REGULATORS (2)/YAMAHA CD2 CD. PLAYER'S PS./CCT SHOWING MOD. TO C
CCTS USING 3-TERMINAL REGULATOR WITH INDUCTIVE OUTPUT IMPEDANCE SHUNTED TO GROUND WITH CAPA
CCT TO INDICATE INDEX PULSE CENTERING ABOUT QUADRATURE STATE OF ENCODER SIGNAL, INCLUDING STE
CCT IN WHICH STEPPER-MOTOR CURRENT IS REGULATED BY HIGH-SPEED SWITCHING OF P-CHANNEL POWER M
CCT USING NATIONAL SEMICONDUCTOR SYNC SEPARATOR, TO GET (STRIP) SYNC SIGNALS FROM STANDARD C
CCT USING OPTOCOUPLER WITH 3-TERMINAL REGULATOR, TO SENSE & CORRECT FOR VOLTAGE DROPS ACROS
CCT USING BALANCED MODULATOR-DEMODULATOR, WITH DIFFERENTIAL AMP. PLACED AT OUTPUT OF PRODUC
CCT TO TURN ON LIGHT WHEN SOUND LEVEL EXCEEDS PRESET LEVEL, USING CHIP THAT SCALES SIGNAL & GIV
CCT THAT CONNECTS ACROSS ANY LED. TO PROVIDE AUDIBLE INDICATION (5KHZ WHINE) THAT DIODE IS LIT (ON
ANTENNA, & PREAMP. OF INDUCTIVE NOISE THERMOMETER (INT), WHOSE 1ST STAGE CONSISTS OF 2 FET.S IN D
BATTERY-POWERED STEPPING-MOTOR DRIVE (CONTROLLER) THAT WILL OPERATE AT ALMOST ANY SPEED NEE
CCT TO AMPLIFY LOW-LEVEL TRANSDUCER SIGNALS, USING LOW-NOISE INSTRUMENTATION-GRADE AMP.
CCT THAT ALLOWS THE TIME THAT AN APPLIANCE, FOR EXAMPLE REFRIGERATOR, RUNS TO BE MONITORED
CCT TO REGULATE LIQUID LEVELS, USING THERMISTOR PROBE TO MEASURE LIQUID'S THERMAL CONDUCTIVITY
CCT SHOWING GENERATION OF X-Y-RAMP & EBIC. CURRENT
CCT THAT SWITCHES SOLENOID TO SHUT OFF IDLE FUEL SUPPLY WHEN ENGINE SPEED RISES ABOVE 1800REV-
BYTE SCANNER TO FIND FAILING BITS OR BYTES ON SERIAL DATA LINE/UART. CCT TO ENHANCE BYTE SCANNER
CCT TO MEASURE JUNCTION CAPACITANCE OF PHOTODIODES/DISCRETE LOW-NOISE PREAMP. CL WITH FET. IN
CCT TO MONITOR POWER CONSUMPTION TO SAVE ENERGY & REDUCE ELECTRIC BILL, USING CURRENT TRANSI
CCT TO GENERATE ACCURATE & STABLE 1S & 0.1S PULSES & MANUAL RESET PULSE, USING 3.58MHZ TV. COLOP
1 TO 15MIN TIMER USING MINI-BUZZER, LED., SWITCHING-TRANSISTOR & OA. CONNECTED AS INVERTING DIFFER
CCT USING INDUCTOR TO ISOLATE CAPACITIVE LOADS/CCT USING OUTPUT CAPACITOR TO STABILIZE OA. FOR L
CCT USING ASTABLE TIMER, 4-DIGIT CMOS. COUNTER & 7-SEGMENT OUTPUT DRIVER DRIVING 18 LED.S IN SHAP
INTELLIGENT MODEM/INTELLIGENT MODEM THAT SUPPORTS BELL 103, 212 & 212A PROTOCOLS/CCT USING ADDI
INTERFACE CCT BETWEEN CPU. & VDP'S/CCT TO SYNCHRONIZE DUAL VDP'S/COMPOSITE VIDEO ENCODER TO G
CCT USING POWER AMP. ACTING AS SQUARE-WAVE-OSCILLATOR CHARGE PUMP, TO CONVERT 12V INPUT INTO
CCT USING MICROBRIDGE AIRFLOW SENSOR, TO MEASURE MASS FLOW, PROVIDING 45MV OUTPUT FOR 200 SC
ULTRASONIC OSCILLATOR (BUG-CHASER) THAT GENERATES SWEPT SQUARE WAVE FROM 30 TO 45KHZ, DRIVING

CCT TO MEASURE DIFFERENTIAL PRESSURE BETWEEN 2 FLUIDS/CCT FOR DIFFERENTIAL PRESSURE MEASUREMENT
CCT TO ACCURATELY MEASURE BODY TEMPERATURE BY MAINTAINING SMALL TEMPERATURE DIFFERENCE BETWEEN
CCT USING OSCILLATOR USING CMOS. ANALOGUE SWITCHES TO ALTERNATIVELY SELECT RIGHT & LEFT CHANNELS
CCT TO DRIVE PIEZOCERAMIC DIAPHRAGM AT ITS RESONANT FREQUENCY/CCT TO MEASURE CHANGE (SHIFT) IN
POTENTIOSTAT FOR USE WITH ELECTROCHEMICAL CELL, THAT, IN CONJUNCTION WITH 3 ELECTRODES, FIXES P
CCT USED FOR THERMAL DIFFUSIVITY EXPERIMENT, TO MEASURE DECAY OF MICROBRIDGE RESISTANCE, INCLUDING
AUTOMATIC RANGE SWITCHING CCT FOR ELECTROMETER/COMPARATOR CCTS FOR POSITIVE INPUT CURRENT,
CCT OF DEVICE THAT TESTS BLOOD ALCOHOL CONCENTRATION (BAC), USING FIGARO ORGANIC VAPOR SENSOR
INTERFACE THAT SQUARES & AMPLIFIES 0 TO 5KHZ AUDIO OUTPUT SIGNAL FROM COMMODORE AMIGA 100 PC.
CCT CONSISTING OF SPEECH PROCESSOR (CHIP), SPEECH ROM. & ASSOCIATED COMPONENTS, CONTROLLED BY
CCT USING CURRENT REGULATOR TO TRANSMIT TEMPERATURE DATA OVER WIRES/CCT THAT PRODUCES FREQUENCY
CCT THAT INCLUDES 3-WIRE LEAD COMPENSATION & LINEARIZES PLATINUM RTD./THERMOCOUPLE CCT THAT PROVIDES
CCT USING 3.579MHZ CRYSTAL OSCILLATOR-DIVIDER BY WHICH HEATH IM-2410 TIMEBASE FREQUENCY IS GENERATED
INTERFACE BETWEEN 6802 UP. & AM9511A ARITHMETIC PROCESSOR (BBB)
METRONOME WITH RHYTHM ACCENT ADDED BY INSERTING ANOTHER NOTE BETWEEN REGULAR BEATS
LATCHUP-CONTROL CCT (AUTOMATIC LATCHUP TESTER) TO SENSE, CLEAR & RECORD LATCHUP IN TIMES AROUND
CCT SHOWING 5V, 750MA VOLTAGE REGULATOR THAT SHUTS DOWN WHEN FAULT OCCURS & RESTARTS AFTER
CCT USING VOLTAGE REGULATOR IC THAT CAN OPERATE WITH VOLTAGE DIFFERENTIALS OF <0.6V
CCT FOR USE IN DIGITAL PHOTOMETER, TO TURN IT ON & OFF AT SPECIFIED LIGHT INTENSITIES, USING LDR., WITH
CCT TO PRODUCE CONTROL SIGNALS TO PERFORM READ, WRITE & ERASE OPERATIONS ON 2816 EEPROMS, USING
INTERFACE CCT USING ASYNCHRONOUS FSK. (AFSK.) MODEM, FOR VHF. & HF. USE, INCLUDING CASSETTE PORT
CCT TO DRIVE PULSED NOZZLE, INCLUDING 3-STAGE TRANSISTORS TO AMPLIFY TTL. INPUT PULSES THAT CONTROL
PMT. GATING CCT INCLUDING LOGIC, GATE & POWER BOARDS, USING MOTOROLA HV. POWER MOSFETS (2)/PHOTO
CCT USING NEGATIVE-VOLTAGE REGULATOR AS DUAL-VOLTAGE SUPPLY, TO REPLACE BIPOLAR DC.-DC. CONVERTER
CCT TO LINK OPTICAL TAPE SENSORS & FUNCTION SWITCHES OF TAPE RECORDER WITH COUNTER-DISPLAY SENSOR
INTERFACE FOR "FLOATING ORB" PROJECT, SHOWING IR. TRANSMITTER & RECEIVER SECTIONS & ELECTROMAGNETIC
CCT THAT PUMPS 1A OF CURRENT THROUGH UNKNOWN VALUE RESISTOR & MEASURES VOLTAGE DROP ACROSS
FFT. BOARD (CARD) THAT, WITH DRIVING SOFTWARE, COMPUTES FFT. & INVERSE FFT. (IFFT), USING TEXAS INSTRUMENTS
CCT USING 3-TERMINAL REGULATOR CONFIGURED FOR HV. OPERATION & PROTECTED AGAINST BURNOUT DUE TO
CCT TO EXTEND MAXIMUM SOURCE FREQUENCY OF SYSTEM TIMING CONTROLLER FROM 7MHZ TO 20MHZ, USING
CCT TO REGULATE SPEED OF BRUSHED 3 POLE DC. MOTOR, USING FREQUENCY TO VOLTAGE CONVERTER TO SUPPLY
CCT THAT WILL PROVIDE CLEAN, STABLE 60HZ SQUAREWAVE
CCT TO DETERMINE WHEN 87KHZ, 550MS BURST OF OSCILLATIONS (47850 PULSES) IS GATED TO MCA., INCLUDING
CCT USING QUAD COMPARATOR, FEATURING INDEPENDENT HIGH-IMPEDANCE INPUTS FOR UPPER & LOWER THRESHOLDS
CCT FOR ADJUSTING FREQUENCY SUPPLIED TO TELESCOPE'S SYNCHRONOUS DRIVE MOTOR
CCT TO CONTROL SPEED OF DC. MOTOR/CCT TO MEASURE FLOW RATE/CCT TO DETECT OVER- OR UNDER-TEMPERATURE
AUTOMATIC CONTROLLER THAT SHUTS OFF AC. POWER WHEN AUDIO ENDS
CCT THAT DOES AMAZING JOB OF REDUCING HISS WITHOUT NEED FOR ENCODING
CCT TO CONVERT 60HZ LINE FREQUENCY TO 1 PULSE PER SECOND/COUNTING CCT FOR 1 PULSE PER MINUTE
CCT USING TEMPERATURE-SENSOR IC & FLUID DETECTOR IC TO GIVE JUDGMENT ON WEATHER, TAKING INTO ACCOUNT
CCT TO MAKE OPTICAL REFLECTIVE SENSOR'S OUTPUT COMPATIBLE WITH TTL./MEMORY-MAPPED INTERFACE TO
CCT TO MEASURE WATER TEMPERATURE THAT FISH LIKE, USING TEMPERATURE SENSOR IC'S, LED. DISPLAY & BATTERY
CCT TO TUNE UP GUITAR OR BASS, USING TOP-OCTAVE FREQUENCY GENERATOR, HAVING PITCH REFERENCE
AUTOMATIC FIELD CHARGER TO CHARGE AIRBORNE 100, 225 OR 500MAH BATTERY PACK FROM 12V MOTORCYCLE
CCT SHOWING METHOD OF BIASING EITHER INPUT OF COMPARATOR TO SPECIFIC REFERENCE VOLTAGE, INCLUDING
CCT TO PREVENT MISSING STEPS (INCREMENTS) THAT OCCUR WHEN STEPPER MOTOR IS DRIVEN NEAR ITS MECHANICAL
CCT TO CONVERT TTL.-LEVEL UNIPOLAR DIGITAL SIGNAL TO BIPOLAR LOGIC LEVEL, WITHOUT USE OF OUTPUT TRIP
CCT THAT ADDS WRITE-PROTECT SWITCH & INDICATOR LIGHT TO SHUGART MODELS SA801 & SA800 8IN DISK DRIVE
OUTPUT FEEDBACK CONTROL CCT (AMP.S) FOR CONSTANT VOLTAGE-CONSTANT CURRENT OPERATION, INCLUDING

AUTO-SCAN CCT TO CONNECT BETWEEN SCANNER & CASSETTE RECORDER, THAT ACTIVATES RECORDER WHEN CCT FOR OPERATION OF 2 SOLENOIDS IN ACCORDANCE WITH DURATIONS CHOSEN FOR 3 PHASES, USING 4 VOLT NOTCH FILTER USING 4TH-ORDER ELLIPTIC FILTER IC, WITH PROGRAMMABLE CLOCK-TO-CENTRE-FREQUENCY PULSE WIDTH. RELAXATION OSCILLATOR SET UP FOR MEASUREMENT OF PEAK POINT VOLTAGE/MAGNETIC FLUXMETER USING ANTENNA-ROTOR CONTROL CCT TO ALLOW AIMING OF ANTENNA WITH PIN-POINT ACCURACY BY MONITORING MOTOR CONTROL CCT WHICH, IF TRIAC IS TRIGGERED ON POSITIVE-AC. HALF CYCLES, PRODUCES COUNTER-CLOCKWISE CCT TO ADD REGULATED, GROUND-REFERENCED HIGHER-VOLTAGE (BOOSTED) (+38V DC.) OUTPUT TO CONVENTIONAL MCTRAK WIRE-TRACING CCT (WIRE TRACKER) USING TONE DECODER, CONFIGURED AS SIMPLE ASTABLE, SQUARE-WAVE CCT TO PRODUCE SQUAREWAVE & TRIANGLE-WAVE OUTPUTS TO 1MHZ/CABLE CHECKER TO TEST 2-CONDUCTOR CABLE CCT USING TEMPERATURE-CONTROLLER IC (THAT TURNS DEVICES ON OR OFF) INCORPORATING VOLTAGE REFERENCE ULTRASONIC TRANSDUCER WHOSE DRIVER IS ISOLATED FROM TRANSDUCER DURING RECEIVING MODE, USING 2 CCTS USING ADJUSTABLE REGULATORS TO PROVIDE POSITIVE OR NEGATIVE OUTPUT VOLTAGE (2)/ADJUSTABLE CCT TO TURN ON LAMPS, TV., RADIO, OR OTHER ELECTRONIC DEVICE WITH WHISTLE TONES, USING MICROPHONE OUTBOARD SPEECH PROCESSOR USING DIODES TO RECTIFY AUDIO SIGNAL & ACT AS VARIABLE IMPEDANCE DEVICE AUTOMOBILE DELAYED KILL SWITCH CONSISTING OF CASCADED TIMER (USING DUAL OSCILLATOR-TIMER) COUPLED TO INTERFACE TO DEFINE & CAPTURE VOLTAGE THRESHOLD & SWITCH ANTENNA VIA COAXIAL RELAY WHEN RIG MOUNTED 8-THYRISTOR CONVERTER STAGE/GATE AMP. THAT RECEIVES TRIGGERING SIGNAL FROM FIRING UP. & GENERATES CCT OF BAR CODE READER (SWIPE OPTICAL READER), TO SUPPORT REFLECTIVE PHOTOMICROSENSORS/CCT USING UN-TUNED, SUPER-SENSITIVE RF. RELATIVE FIELD STRENGTH METER (FSM) FOR CB. OR AMATEUR TRANSMITTERS EXTENDED-PLAY (TIME-EXPANDER) CCT TO EXTEND RECORDING TIME/SOUND-ACTIVATED TAPE SWITCH FOR CASSETTE CCT USING 2 SEPARATE MONOLITHIC, ADJUSTABLE, 3-TERMINAL REGULATOR IC'S TO PROGRAM OUTPUT VOLTAGE CCT USING 4TH-ORDER LOWPASS BUTTERWORTH FILTER USING SWITCHED-CAPACITOR TECHNIQUES, SERVING AS CCT TO ADD TO EACH NODE IN SYSTEM, TO BUILD PRIORITY SYSTEM, WITH SWITCH-CONTROLLED RESISTOR NETWORK CCT TO OBTAIN DELAYS OF 5% ACCURACY IN 1S STEPS FROM 1 TO 10S, USING CAPACITANCE-MULTIPLYING CCT FOR AUTOMATIC RECORDING OF DC. JOSEPHSON CURRENT AS FUNCTION OF MAGNETIC FIELD, INCLUDING INTEGRATOR-COUNTER CCT USING DATEL CHOPPER-STABILIZED OA. & COMPARATOR, INCLUDING CMOS. COUNTER CCT SHOWING ADDITIONS TO REMOTE CONTROL BOARD OF TELETEXT DECODER, TO ENABLE VIEWING OF TV. FROM CCT USING THERMISTOR IN BRIDGE CCT, PROVIDING INPUT TO COMPARATOR/TEMPERATURE-TO-FREQUENCY CONVERTER ACTIVE DIVIDER CCT THAT PROVIDES 0.5-2.0V OUTPUT FROM 2.5V VOLTAGE REFERENCE REGARDLESS OF POTENTIAL CCT TO GUARD AGAINST OVERVOLTAGE CONDITIONS, INCLUDING AUDIBLE ALARM THAT GOES OFF OUTSIDE SEVEN CCT USING GAAS. MMIC. TRANSDUCER CHIP INCORPORATING UPCONVERTER & DOWNCONVERTER FED BY SAME CCT TO DISPLAY TEMPERATURE WITH STRING OF LED.S/CCT TO CONVERT TEMPERATURE TO PROPORTIONAL FREQUENCY EXTREMELY SIMPLE RTTY. DECODER THAT CAN BE ASSEMBLED ON PIECE OF VERO BOARD IN ~15MIN CCT USING 7-BIT 8MHZ PARALLEL (FLASH) ADC. FABRICATED IN CMOS. CCT USING UART. TO CONVERT READY SIGNAL FROM PRINTER INTO XON OR XOFF SIGNAL OPTICALLY-ORIENTED CONTROL FOR USE WITH PC.S (INEXPENSIVE OPTICAL INTERFACE) CCT TO ALLOW VIC-20-AIR-1 MICROCOMPUTER TO KEY AN FT-707 TRANSCEIVER CCT SHOWING HOW 1 RESISTOR REMOVES OVERSHOOT FROM PEAK DETECTOR'S OUTPUT INTERVAL TIMER FOR REAL-TIME ONLINE MEASUREMENT/CRYSTAL CONTROLLED CLOCK TO PROVIDE TIMEBASE CCT USING NATIONAL SEMICONDUCTOR AUTO-ZERO CCT TO CORRECT (REDUCE) 250MV OFFSET OF SWITCHED CAPACITOR CCT TO CHECK CABLE OF TWISTED-PAIR WIRES FOR SHORT CCTS, OPEN CCTS & PAIR-TO-PAIR SHORTS, USING 2 CCTS CCT TO INTERFACE BETWEEN STANDARD SEMICONDUCTOR TEMPERATURE SENSOR & DVM., USING MICROPOWER ACTIVE TWIN-TEE NOTCH FILTER (2) CCT TO IMPLEMENT ZERO-VOLTAGE SWITCHING FOR INDUCTIVE LOADS, USING COMPARATOR COMMANDED AT METRONOME USING SIMPLE CMOS. TIMER IN ASTABLE MODE, & POTENTIOMETER TO ADJUST BEATS PER MINUTE CCT USING OA., TO AMPLIFY SIGNAL TO DISPLAY VOLTAGE FROM BRIDGE ON ANALOGUE METER/WHEATSTONE CCT TO CONVERT IR. SIGNAL FROM REMOTE CONTROL TO FREQUENCY PULSE TO BE TRANSMITTED THROUGH ANTENNA MOUNTED PART OF ELEVATION CONTROL (DRIVE)/ELEVATION CONTROL & ANGLE INDICATOR, INCLUDING BATTERY ELIMINATOR (MINIATURE PS.) CONSISTING OF REGULATOR WITH CROWBAR NETWORK USING SCR., TO

SETUP FOR BISTABLE OPERATION STUDY USING NEMATIC LIQUID CRYSTAL MODULATOR, INCLUDING CAVITY MI
 CCT USING SYNC-SEPARATOR CHIP, COUNTER & DECODER, TO DETECT HORIZONTAL SYNC PULSE AT LINE 10 IN
 CCT TO CONTROL FID TRIGGERING, SOUND ENCODING & OUTPUT TO STRIP CHART RECORDER OF PEDAL MOVE
 CCT USING SOFTPOT POTENTIOMETRIC INPUT DEVICE, INCLUDING ABSOLUTE VALUE AMP., EXPONENTIAL AMP.
 CCT USING DUAL VOLTAGE-OUTPUT 18-BIT DAC. & DUAL 18-BIT SAMPLING SUCCESSIVE-APPROXIMATION ADC. L
 CCT USING SH. TO REDUCE PULSED OUTPUT OF IC FREQUENCY-TO-VOLTAGE (F-V) CONVERTER, INCLUDING OP
 CCT USING BASE-EMITTER DROP OF TRANSISTOR TO DETECT TEMPERATURE CHANGES, USING MICROPOWER C
 CCT USING PRIMARY COMPARATOR & COMPARATOR WITH HYSTERESIS, TO ELIMINATE MULTIPLE TRANSITIONS
 ASTABLE MULTIVIBRATOR THAT SERVES AS PACEMAKER TIMING CCT TO DRIVE HEART OVER WIDE RANGE OF R
 CCT USED TO GENERATE STAGE & SETPOINT TEMPERATURES, & ERROR & CONTROL SIGNALS/CCT USED TO GE
 POTENTIOSTAT INTERFACE FOR INSTANTANEOUS CORROSION RATE MEASUREMENTS/X50 AMP. FOR SURFACE
 CCT TO AMPLIFY THERMOCOUPLE OUTPUT & PROVIDE COLD JUNCTION COMPENSATION (2)/SIGNAL-CONDITION
 1-TRANSISTOR VIDEO AMP. TO DRIVE CRT. CATHODES/2-TRANSISTOR CASCODE VIDEO AMP./CRT. DRIVER WITH
 CCT USING FAST, HV. COMPARATOR WITH MASTER-SLAVE FF./CCT TO CONVERT ASYMMETRICAL SQUARE WAVE
 CCT THAT REDUCES PARASITICAL PICK-UP/CCT TO SUBTRACT HEART SIGNALS PRODUCED AT RIGHT & LEFT AR
 CCT WITH ZENER DIODE IN GROUND LEAD OF FIXED PNP REGULATOR TO VARY VOLTAGE OUTPUT
 CCT TO PROVIDE 60HZ CLOCK PULSE FOR TIMING PURPOSES, WITH CLEAN & STABLE SQUAREWAVE OUTPUT
 CCT USING VIDEO SYNC SEPARATOR, THAT EXTRACTS KEY TIMING PULSES THAT SYNCHRONIZE DIGITAL CCTS
 CCT TO ALLOW 8-BIT PROCESSOR TO SHARE MEMORY WITH 16-BIT PROCESSOR/CCT USING INTEL & MOTOROLA
 CCT USING IA., FOR TEMPERATURE MEASUREMENTS WITH THERMOCOUPLE, BY USING COLD-END TEMPERATUR
 INTERFACE BETWEEN LAN. CONTROLLER & CABLE, USING LSI. CONTROLLER, TRANSCEIVER & CABLE DRIVER-RE
 CCT USING 8-BIT CMOS. DAC., LOW-POWER OA. & PNP TRANSISTOR OPERATING ON 5V, TO PRODUCE DIGITALLY
 CCT TO CONTROL 6 FUNCTIONS OVER 2 WIRES, PROVIDING CROSSTALK-FREE MUX.ING & ELIMINATING COMPAR
 CCT USING LED. FLASHER TO GENERATE PULSING DC. VOLTAGE OF 1HZ FROM 1.5V BATTERY/SAME USING TRIM
 CCT SHOWING USE OF OFFSET NULL TERMINALS ON OA., USING TRIMMER POTENTIOMETER
 INTEGRATOR & AMP. FOR CAPACITIVE PIEZOELECTRIC FORCE TRANSDUCER, WITH SENSITIVITY OF 1.3MV-N LOA
 METERING & LED. SECTIONS OF LINE VOLTAGE MONITOR USING DOT-BAR DISPLAY DRIVER CONSISTING OF VOL
 METAL DETECTOR USING PLL./AM. DEMODULATOR (SYNCHRONOUS PHASE LOCKED DETECTOR CCT)/FM. DEMO
 D-TYPE FF. CONSISTING OF QUAD COMPARATOR, DIODES & RESISTORS, INCLUDING LATCHING & SWITCHING FU
 CCT CONSISTING OF TEMPERATURE SENSOR, COMPARATOR & REGULATOR, TO SENSE LOW THERMAL LOADS &
 CCT TO ALLOW VIDEO SIGNALS FROM ZX81 COMPUTER TO DRIVE MONITOR WITHOUT VIDEO BUFFER AMP. PROV
 CCT TO ALLOW BANDPASS FILTER'S CENTER FREQUENCY (F0) TO BE DETERMINED, USING LED.S TO INDICATE F
 CCT TO LINEARISE OPTICAL SIGNAL TRANSFER, BALANCING NON-LINEARITY OF SENDER UNIT WITH SIMILAR OP
 CCT TO LINEARIZE RELATIONSHIP BETWEEN TRIAC'S FIRING ANGLE (POINT WITHIN AC. CYCLE WHEN CONDUCTI
 BATTERY POWERED MICROSCOPE LAMP CONTROLLER THAT ACHIEVES LINEAR INTENSITY CONTROL BY FEEDB
 DETECTION ELECTRONICS FOR TRUE PHASE SENSING TECHNIQUE IN OPTICAL GLUCOSE DETECTION, INCLUDIN
 CCT TO GENERATE 60HZ SINE WAVE WITH HIGHLY STABLE AMPLITUDE & LOW DISTORTION, USING OA. COMPAR
 CCT TO MONITOR SEMITRSPARENT MEDIUM PLACED BETWEEN LED. & PHOTOTRANSISTOR, ADJUSTING TO LC
 CCT TO WIDEN COMPARATOR'S OUTPUT SWING (MOD. TO CCT) (ELDE830707)
 CCTS TO BOOST TTL. OUTPUT LEVEL TO DRIVE VMOS. GATE (2)/TOTEM POLE DRIVER TO INCREASE SWITCHING
 2-TONE SIGNAL GENERATOR/SUPPLY SPLITTER
 CCT TO CONVENIENTLY & SAFELY TRICKLE-CHARGE & FAST-CHARGE NICD. BATTERIES
 METAL DETECTOR
 CCT THAT MULTIPLIES 32768HZ SQUAREWAVE BY INTEGRATING IT TWICE FOR SINEWAVE, DERIVING 3RD HARMO
 CCT FOR 8080-BASED MICROCOMPUTER, TO LOAD OS. FROM CASSETTE DIRECTLY INTO RAM. WITHOUT REQUIR
 CCTS FOR MAINTENANCE OF CONSTANT MONOLAYER SURFACE PRESSURE, INCLUDING LVDT. & INSTRUMENTAL
 ACTIVE OSCILLOSCOPE PROBE/DC. PS./SHORT-CCT DETECTOR TO FIND PCB. SHORTS/THERMOCOUPLE AMP. W
 ACTIVE ELECTRONIC MUTUAL INDUCTANCE BRIDGE USING TOROIDAL MUTUAL INDUCTOR, USING PRECISION HI
 2-TONE ELECTRONIC DOORBELL THAT SOUNDS DIFFERENT AUDIO TONES WHEN FRONT & BACK (REAR) DOORB

2-TONE GENERATOR CONSISTING OF 2 WEIN-BRIDGE OSCILLATORS AT 900 & 1200HZ & ACTIVE FILTERS, INCLUDING
 CCT USING 500W HEATER IN SLOW SERVO LOOP, INCLUDING TEMPERATURE SENSOR, OPTOISOLATOR, O.A.S & T
 CCT SHOWING 4 PAIRS OF KELVIN CONNECTIONS TO AVOID MEASUREMENT ERRORS CAUSED BY IR DROPS/15V
 CCT TO LOCATE (FIND) SHORT-CCT FAULTS BY MOVING PROBES ALONG TRACK & OBSERVING WHERE INDICATIO
 BATTERY SAVER CCT/SIMPLE OSCILLATORS (2)/TEMPERATURE STABLE SINEWAVE SHAPER (CONVERTER)/CCT
 AUTO-PROGRAMMED REGULATOR TO CHECK COMPUTER SYSTEM FOR FAILURES AT ANY PS. VOLTAGE/CCT PRO
 CCT THAT EMULATES DIODE WITH 0.04V DROP WITH 1A OF FORWARD CURRENT, CAUSING CURRENT TO FLOW F
 CCT USING 2 STAGE RC. FILTER TO CONVERT PWM. OUTPUT TO AM. AUDIO SIGNAL/IMPROVED FILTER TO REDUC
 DATA TRANSFER CCT WITH PAL.S CONTROLLING BIDIRECTIONAL LATCH CHIPS THAT IMPLEMENT PIPELINED DAT
 CCT FOR VIDEO DISPLAY OF ALPHANUMERIC CHARACTERS IN CONTROL SYSTEMS USING UP.S, USING CHARACT
 INTERFACE BETWEEN PC.-DOS. LAP-TOP COMPUTER & REPEATER/AUDIO CCTS FOR REPEATER CONTROLER, IN
 EXTENDED-RANGE ANALOG VOLTMETER FEATURING REVERSE-POLARITY, OVER-LOAD INDICATORS & PROTECT
 CCT TO ADD SMALL AMOUNT OF CAPACITANCE TO TUNED CCTS, LOWERING VFO.'S FREQUENCY/SIMPLE REGUL
 CCT TO PROVIDE INTERRUPT CAPABILITY FOR BIT-SLICE UP.S, INCLUDING MICROPROGRAM SEQUENCER, PRIOR
 OPTIONAL BATTERY-POWERING CCT FOR MAG-11 SBC./OPTIONAL 8-CHANNEL LOGIC MONITOR FOR MAG-11BAT
 CCT USING 1 HALF OF DUAL, TRANSCONDUCTANCE AMP. (MICROPOWER OA.) (LOW-POWER OA.) CONFIGURED T
 CCT USING TIME-DOMAIN HYSTERESIS TO SUPPRESS PARASITIC JITTER AT FAST COMPARATOR OUTPUT, BLOC
 INTEGRATOR WITH BIAS CURRENT COMPENSATION/DIFFERENTIAL-INPUT IA.S (2)/BRIDGE AMP./PWM./FUNCTION
 ACTIVE REGULATED MULTI-VOLTAGE TRANSFORMER PS. INCLUDING POSITIVE & NEGATIVE VOLTAGE SECTIONS
 CCT SHOWING DIFFERENTIAL LINE DRIVER SERVING AS SWITCH DRIVER FOR DBM.
 CCT TO GENERATE VARIETY OF PULSE FUNCTIONS SUCH AS EXPONENTIAL STAIRCASES OR PULSE BURSTS
 CCT OF MOD. OF VARIAN E203 FIELD CONTROLLER TO PERMIT VOLTAGE CONTROL OF MAGNETIC FIELD
 CCT USING DAC. & THUMBWHEEL SWITCHES TO HELP DETERMINE NONLINEARITY OF ANY DEVICE WITH HIGH AC
 INTERFACE CCT THAT OFFERS RCA COSMAC DEVELOPMENT SYSTEM BUILT-IN PROGRAMMER FOR 8K-BYTE EPROM
 CCT USING GREEN & RED LED.S TO INDICATE 3 CONDITIONS: POWER OK, AC. FAILED & AC. FAILED-BATTERY LOV
 DATA INTERFACE TO PROVIDE 16-BYTE FIFO. BUFFER MEMORY FOR PARALLEL-INPUT DATA & FORMAT DATA FO
 CCT TO DISPLAY SIGNAL LEVELS FROM 0 TO 5V IN DOT OR BAR PATTERN/LOW-COST VU METER/CCT USING BCD
 INTEGRATOR CCT CONSISTING OF OTA. CHARGING CAPACITOR, WITH TRANSCONDUCTANCE VARIED BY CONTR
 CCT TO GENERATE SWITCHING WAVEFORM BY DM. TECHNIQUE, FOR SINGLE-PHASE INVERTER, WITH INTEGRAT
 AUTO-DIALER USING MOSTEK TOUCHTONE^TM GENERATOR CHIP & 2 CMOS. RAM. CHIPS/CCT TO ALLOW PROGR
 RETURN-LOSS MEASURING CCT INCLUDING DIFFERENTIAL IMPEDANCE EMULATORS/LINE TRANSCEIVER WITH C
 CCT THAT DRAINS NICD. BATTERIES AT PRESET CURRENT & CONTROLS TIMER TO TEST BATTERY'S CAPACITY B
 CCT TO MEASURE CURRENT (1.5UA FULL-SCALE) THROUGH HIGH-VALUE (200M) RESISTOR, USING OA. WITH SUP
 CCT THAT GENERATES OUTPUT VOLTAGE PROPORTIONAL TO SQUARE OF INPUT PULSE TRAIN'S FREQUENCY (S
 AUTOMATIC COR (CARRIER-OPERATED RELAY) TO SWITCH ON REPEATER TRANSMITTER WHEN RECEIVER DETE
 CCT TO DRIVE >1 CURRENT-VOLTAGE CONVERTER FROM 4 TO 20MA CURRENT-LOOP SIGNAL, PROVIDING 0 TO 1
 CCT USING EXTERNAL 16KX8-BIT EPROM. TO ENHANCE DSP. UC'S MEMORY SPACE BY ADDING 16K BYTES (8K 2-
 RATE SENSING SERVO AMP. (RSSA) THAT INCREASES STABILITY OF SERIES 213 & SERIES 216 GRANVILLE-PHILL
 CCT TO TRANSMIT BEAM OF IR. LIGHT/IR. RECEIVER-RF. TRANSMITTER TO TRANSMITS RF. SIGNAL WHEN BEAM I
 CCTS TO BIAS NORTON OA. FOR LINEAR OPERATION (3)/INVERTING AC. AMP.S (2)/NON-INVERTING AMP./WIDEBAN
 CCT OF MICROPHONE HEAD, INTEGRATING AMP. TO CONVERT TRANSDUCER OUTPUT TO ONE PROPORTIONAL T
 CCT USING SERIES PASS TRANSISTOR IN CONJUNCTION WITH 3-TERMINAL REGULATOR, TO HANDLE INCREASED
 CCT TO MEASURE LIGHT LEVELS, USING AMORPHOUS SILICON PHOTOVOLTAIC (SOLAR) CELL, BAR GRAPH DRIV
 CCT USING BAR-GRAPH DRIVER CHIP IN "DOT" MODE, ROUTING 10MA THROUGH 10 LED.S CONNECTED IN SERIES
 CCT THAT GENERATES TTL. TRIGGERING PULSE AT OCCURRENCE OF SIGNAL PEAK, CONSISTING OF PEAK DETE
 CCT THAT PROVIDES LIMITING OF HEAVY SHORT-CCT CURRENT FOR LM317 VOLTAGE REGULATOR
 CCT SHOWING HOW TMS4500A DRAM. CONTROLLER ALLOWS 68000 PROCESSOR TO BE CONNECTED TO DRAM.
 CCT IN WHICH FUSE-PROGRAMMABLE CONTROLLER OVERSEES WORKINGS OF FLOATING-POINT PROCESSOR B
 SET-RESET (BISTABLE) FF., USING 555 TIMER

CCT TO GENERATE SIGNAL SYNCHRONIZED WITH SUPPRESSED CARRIER OF D.S.B.-S.C. SIGNAL, USING DUTY S
INTEGRATOR, INCLUDING SIGNAL CONDITIONING CCT, VFC. & UP-DOWN COUNTER
INTERFACE CONSISTING OF 1 PARALLEL INPUT PORT & 1 PARALLEL OUTPUT PORT/CCT SHOWING INTERFACE C
WATER LEVEL WARNING CCT (BASEMENT FLOOD ALARM) USING DUAL TIMER, TO WARN OF SUMP OVERFLOW, T
CCT USING FUSE-PROGRAMMABLE CONTROLLER FOR REQUESTER LOGIC FOR MASTER MODULE, HANDLING BU
CCT SHOWING STAND ALONE OPERATION OF 12-BIT ADC./MINIMUM 8-BIT SYSTEM WITH DMA. CAPABILITY (BBB)/H
GATE OSCILLATORS(4)/RC. COMPARATOR-MULTIVIBRATOR CCT/COLPITTS-TYPE CRYSTAL OSCILLATOR USING V
CCT SHOWING CONNECTION OF 8-BIT MICROCOMPUTER WITH SERIAL PORT TO 32-BIT PROCESSOR HOST PORT
CCT TO MONITOR INPUT-TO-OUTPUT VOLTAGE DIFFERENTIAL/CCT TO LIGHT LED. ON OVERCURRENT/CCT TO MO
CCT USING SPEECH PROCESSOR CHIP BASED ON CVSDM. TECHNIQUES, INTERFACED TO DRAM./LPF.S TO FILTE
CCT USING SIGNETICS' 6-CHIP SET FOR CELLULAR-PHONE SYSTEMS, USING MICROCONTROLLER (BBB)/OPTICAL
DUTY-CYCLE DETECTOR CCT THAT CAN MAKE PHASE-ERROR MEASUREMENTS, INCLUDING LED.S THAT INDICAT
CCT OF APPARATUS FOR MEASURING VISUAL LATENCY, TO CONTROL LIGHT & DIGITAL CLOCK FOR EXPERIMENT
CCT TO CLOSE OFF COMMUNICATIONS CHANNEL RECEIVING HIGH ERROR RATE, USING COMPARATOR WITH INF
CCT THAT COMPARES VOLTAGE DIFFERENCE OF WHEATSTONE BRIDGE, TO PROTECT POWER AMP. FROM LOW
CCT THAT EMULATES ALL 11 OF ROBOT'S NEURONS OF WHICH SOME ARE BASED ON VOLTAGE COMPARATORS
CCT SHOWING TI'S 74AS88XX 32-BIT-SLICE FAMILY COMMUNICATING OVER 4 BUSES/CCT SHOWING AM29300 FAM
AUTOMATIC KEYBOARD REPEAT CCT
CCT SHOWING CONNECTION OF AM79C12 TO UP'S LOCAL BUS FOR MODEM FUNCTION/MODEM APPLICATION FO
INTERFACE CCT THAT ALLOWS CONNECTION OF CMOS. PROM.S OR RAM.S TO CDP 1802 UP. (BBB)
SATELLITE-TV. DESCRAMBLER (DECODER) CCT THAT RESTORES TELESE-MAAST-ENCODED SIGNAL TO NORMA
CCT WILL KEEP RECEIVER QUIET UNTIL THERE IS A MESSAGE FOR YOU, USING ENCODER-DECODER CHIP
CCT USING AUTOZEROING (STABILIZING) IC WITH LOW-NOISE PREAMP./SAME WITH BIFET. OA./CCT USING AUTO
CCT FOR INVERSION OF FILTER H TO INCREASE BW. OF THERMAL FLUXMETER FROM 0.07 TO 5HZ
AUTOMOBILE EXHAUST EMISSIONS ANALYZER
AUTO BATTERY-ALTERNATOR MONITOR
ENTRYWAY MONITOR
OPTICAL REFLECTANCE SENSOR INTERFACE CONFIGURATIONS (2)
CCT FOR ANALOGUE COMPUTATION OF ORTHOGONAL XYZ SIGNALS FROM LEAD ELECTRODES, ALLOWING REC
CCT TO KEEP TRACK OF VITAL FUNCTIONS UNDER HOOD, INCLUDING TACHOMETER CCT & TEMPERATURE MEAS
CCT USING INTEGRATED-DATA PROTOCOL CONTROLLER (IDPC) SUPPLYING B-CHANNEL DATA-LINK CONTROLLE
CCT USING 3-TERMINAL POSITIVE VOLTAGE REGULATOR CAPABLE OF SUPPLYING 3A OVER ADJUSTABLE OUTPUT
BATTERY TERMINAL VOLTAGE MONITOR COMPOSED OF CCT TO PROVIDE METERING FROM +10 TO +15V, USING
CCT USING PRESSURE SENSOR & OA., TO OPTIMIZE AIR CONDITIONING TO DRIVING CONDITIONS TO SAVE FUEL
CCT TO PROTECT UP. SYSTEM BY ASSETING MINIMUM 6MS RESET PULSE DURING POWER TURN-ON OR BROWN
AUTOMOBILE ELECTRIC SYSTEM USING EXPANDED-SCALE VOLTMETER THAT USES VOLTAGE REGULATOR THAT
AUTOMATED ION-EXCHANGE COLUMN SYSTEM FOR BIOLOGICAL SAMPLE FRACTIONATION, CONSISTING OF PS.,
CCT SHOWING OPERATION OF SUCCESSIVE-APPROXIMATION ADC./SYSTEM USING UP. TO CONTROL DATA TRAN
CCT CONSISTING OF STRAIN GAGES FOR LOAD SENSING, BRIDGE CURRENT AMP., FILTER AMP. FOR SIGNAL CON
CCT TO SYNCHRONIZE FIRING OF COPPER VAPOR LASER WITH DYE LASER PULSE TRAIN, USING OSCILLATOR, E
INTERFACE CCT BETWEEN PROGRAMMABLE SCANNER & MOLECULAR BEAM EPITAXY SYSTEM, INCLUDING RS-4
RETROFIT CCT TO DISABLE (LATCH OFF) AUTO-ON HEADLIGHTS UNTIL VEHICLE'S ENGINE STARTS & RUNS ON A
ACTIVE RC. FREQUENCY METER (LINEAR FREQUENCY-TO-VOLTAGE CONVERTER) (FVC) (FREQUENCY-SELECTIV
AUTO-PROTECTING GATE DRIVE CCT FOR GTO. THYRISTORS, INCLUDING OVER-CURRENT PROTECTION, SELF-P
INTENSIFIER CCT/INTENSIFIER DRIVER STAGE/POWER STAGE CONSISTING OF PULSE-FORMING NETWORK & TR
INTERFACE INCLUDING SEQUENCER USING EOI TO CLOCK CIRCULATING SHIFT REGISTER CONSISTING OF TTL.
AUTO-MUTE CCT FOR "DANIEL" PREAMP., WHICH, UPON SENSING UNREGULATED FILAMENT VOLTAGE, MUTES P
CCT TO BIAS PHOTOTRANSISTOR, PERFORM PHOTOCURRENT-TO-VOLTAGE CONVERSION & BUFFER SIGNAL/SA
OPTO-ISOLATOR INCLUDING VOLTAGE CONTROLLED CURRENT SOURCE, VOLTAGE CONVERTER, & DIFFERENTIAL

BATTERY OPERATED THERMISTOR THERMOMETER TO MEASURE TEMPERATURE OVER RANGE OF 0DEG C TO 50
 CCT TO CONVERT BCD. DATA FROM LATCHES IN INSTRUMENT TO ASCII., USING DATA SELECTORS, BCD.-TO-BIN.
 EXTREMELY STABLE PS. PROTECTED AGAINST SHORT CCT'ING OUTPUT & AGAINST THERMAL OVERLOADING, VA
 ROTATOR CONTROL THAT AUTOMATICALLY AIMS ANTENNA (BEAM), USING QUAD COMPARATOR CHIP, 3 TRANSIS
 OPTICAL RECEIVER OF OPTICAL COMMUNICATIONS LINK, FOR RECEPTION OF KEYED TONE-MODULATED TRANS
 CCT USING MICROLINER 6.72US 8-BIT, 8-INPUT CHANNEL ADC. WITH HIGH-SPEED (25MHZ) DSP., INCLUDING 3-S
 MOTOR CONTROLLER USING CHIP THAT PROVIDES FOR CONSTANT SHAFT TORQUE, TO PRODUCE CONTINUOUS
 CCT USING DIODE, TO CONNECT DC. PS. TO EACH MODULE OF "MOUSETRAP" DEMONSTRATION & ASSURE THAT
 CCT OF OVER-RANGE DEVICE TO PROVIDE AUTOMATIC SCALE EXPANSION FOR STRIP CHART RECORDERS, SWI
 CCT TO "REPLACE" 2 350OHM STRAIN GAUGES, FORMING HALF OF FULL BRIDGE STRAIN GAUGE CONFIGURATIO
 ACTIVE FREQUENCY METER CONSISTING OF FREQUENCY-SELECTIVE BRIDGE USING ACTIVE RC. QUADRATURE
 CCT THAT USES INPUT FROM 2-DETECTOR PHOTODIODE TO DRIVE DC. MOTOR CONNECTED TO MICROSCOPE'S
 CCT TO MAKE WORD-BYTE OPERATIONS AMONG 4 29203 PROCESSORS (UP. SLICES) POSSIBLE, INCLUDING QUAD
 CCT TO RESPOND TO CHANGES IN AIR PRESSURE/VOLTAGE-CONTROLLED AUDIO OSCILLATOR (VCO.)/RF. DETE
 BATTER TESTER BASED ON LED.-DISPLAY DRIVER THAT COMPARES EMF. OF BATTERY WITH REFERENCE VOLTA
 AUTO POWER-ON-OFF EXTENSION FOR BICYCLE SPEEDOMETER (MONITORING DEVICE TO SENSE WHEEL'S MOV
 GATE-DRIVE CCTS FOR POWER MOSFET. H-BRIDGE CONVERTERS SUPPLYING TRANSFORMER LOADS & DRIVING
 CCT USING LED.S CONNECTED TO DOT-BAR DISPLAY DRIVER USED TO DRIVE SCOPE DISPLAY, TO SERVE AS TE
 MOTOR CONTROLLER THAT DRIVES PERISTALTIC PUMP FROM 12V SUPPLY, USING PRESSURE TRANSDUCER, DI
 OPTICAL TRANSMITTER INCLUDING AUDIO-TO-FM. CONVERTER & DRIVE CCT/RECEIVER INCLUDING DETECTOR,
 DETECTOR BIAS CCT THAT BIASES DETECTOR AT 0.2V BY DC. REGULATED VOLTAGE, ALLOWING CCT MEASURE
 CCT USING RELAXATION OSCILLATOR, THAT STARTS TO FLASH LED. AFTER 1 3S MINIMUM SUPPLY-VOLTAGE TR
 CCT USING IR. PHOTODIODE, USED BY IRSAMPLE.C PROGRAM (RUNNING ON STANDARD IR-LINK BOARD) TO CAP
 CCT THAT GIVES AUDIBLE INDICATION OF CONTINUITY & WILL DRIVE LOUDSPEAKER CONNECTED TO ITS TERMIN
 METAL DETECTOR CONSISTING OF 3 LARGE INDUCTANCE COILS WHICH, WHEN PLACED NEAR CONDUCTIVE MET
 INTEGRATOR/INVERTER IN WHICH ZENER DIODE'S CAPACITIVE EFFECTS ARE ELIMINATED/CCT THAT OPERATES
 4-TONE AUDIO SINE-WAVE OSCILLATOR THAT CAN BE COMPUTER-CONTROLLED/DIRECT-READING 4-DIGIT FREQ
 LITTLE GRAY BOX (LGB)

INTERFACE BETWEEN HOST COMPUTER THAT TRANSFERS DATA IN PARALLEL & FDDI (FIBER DISTRIBUTED DATA
 METER-TESTING CCT TO TEST CURRENT METERS, USING CONSTANT-CURRENT SOURCE, 9V BATTERY, PUSH-BU
 CCT TO DIGITALLY SYNTHESIZE SOUND OF SURF THROUGH HEADPHONES OR HIFI, TO SIMULATE PRESENCE ON
 RATE-COMPENSATION CCT TO STABILIZE SHOT-NOISE-GENERATED SINGLES RATES IN ATMOSPHERIC CHERENK
 CCT USING X-Y MATRIX TO PLOT WAVEFORM, USING COUNTER TO CONVERT CLOCK SIGNAL INTO 4-BIT BINARY
 CCT TO ADAPT OA. FOR HV. APPLICATIONS, WITH OUTPUT SWING LIMITED ONLY BY BREAKDOWN VOLTAGE OF T
 CCT FOR AUDIO-LEVEL MONITORING, USING BAR- OR DOT-DISPLAY CHIP WHOSE INPUT IS BIASED SUCH THAT A
 CCT USING GATES THAT ENABLES UP TO 8 DIFFERENT CHARACTERISTIC CURVES TO BE DISPLAYED SIMULTANE
 CCT THAT CONSTANTLY MONITORS CONDITION OF BATTERIES & SIGNALS IF VOLTAGE FALLS BELOW PRESET VA
 ACTIVE CROSSOVER FOR 1 AUDIO CHANNEL

CCT TO SENSE DC. MOTOR'S CURRENT DRAIN UNDER LOAD & INCREASE UNIT'S VOLTAGE ACCORDINGLY
 CCT USING VOLTAGE REGULATOR WITH WATCHDOG CCT, TO POWER UP.-BASED SYSTEM WITH STANDBY MEMO
 CCT TO SENSE LOSS OF AC. LINE VOLTAGE (POWER-FAIL CCT) ON FLYBACK-CONVERTER PS.
 CCT USING RF. FET. IN COMMON SOURCE CONFIGURATION, INCLUDING RESISTIVE LOADING TO STABILIZE TRAN
 CCT TO GIVE FIXED REGULATED 5V & VARIABLE (1.2-12VDC.) OUTPUTS, POWERED BY 12V DC. BENCH-TYPE PS.,
 CCT USING POWER OA. CONSISTING OF 2 SEPARATE AMP.S USED TOGETHER TO MODULATE LASER DIODE WITH
 BATTERY-OPERATED APPARATUS FOR MEASUREMENT OF CONDUCTIVITY, USING OA.S, INCLUDING OSCILLATOR
 CCT USING CMOS. HIGH-PERFORMANCE FREQUENCY SYNTHESIZER CONTAINING DIVIDERS, DIGITAL & ANALOG
 BATTERY CHARGER THAT PROVIDES 100MA CONSTANT-CURRENT CHARGE WITH 0.2V DROPOUT VOLTAGE, USIN
 CCT TO MEASURE (TEST) INPUT BIAS OF LM124 OA.

CCT THAT PRODUCES 50% DUTY-CYCLE OUTPUT FROM CRYSTAL CLOCK, USING SERVO LOOP (USING INTEGRAT

CCT TO IMPROVE SQUELCH PERFORMANCE OF TV. SOUND CONVERTER (RAEL8311)
CCT SHOWING HOW TO DERIVE NEGATIVE DC. SUPPLY FROM SPECTRUM '12V' OUTPUT
CCT TO INTERFACE TAPE RECORDER WITH TRANSMITTER & TRANSMIT CASSETTE-RECORDED CW. MESSAGE
CCT THAT WILL WORK WITH ANY RECEIVER & CREATE SIDETONE WHEN KEYING DX-60
CCT THAT GENERATES PAIR OF STAIRCASE RAMPS WITH PROVISION FOR VARYING PHASE DIFFERENCE BETWEEN
CCTS TO OBTAIN FSK. FROM SIDEBAND TRANSMITTER, USING RTTY. OR PTT. (2)/RS-232 TO TTL. CONVERTER/HIC
CCT USING HIGH CMR. MONOLITHIC DIFFERENCE AMP. THAT ACCEPTS COMMON-MODE INPUT SIGNALS TO +-200
CCT TO DETUNE SURFACE COIL RECEIVER DURING HIGH-POWER RF. PULSES ON MAIN TRANSMITTER COIL (TO I
CCT TO FM. MODULATE P.C. ELECTRONICS TXA5-33 900MHZ 1W TRANSMITTER, USING VARICAP DIODES, USED W
CCT FOR MEASURING BREAKDOWN VOLTAGES USING SAWTOOTH APPLIED VOLTAGE, INCLUDING SCR. CCT THA
CCT TO MONITOR PS. & INDICATE WHETHER OUTPUT VOLTAGE STRAYS >0.5V FROM 5V, CONSISTING OF LV. & H
AUTOMATIC NICD. BATTERY CHARGER
2-TRANSISTOR DC.-COUPLED FEEDBACK AMP. WITH TRANSIMPEDANCE OF 28V PER MA & COLLECTOR CURRENT
CCT USING 2 CHEAP 8-BIT DAC.S TO FORM 15-BIT CONVERTER, INCLUDING PROM. WITH CORRECTION VALUE PR
CCT TO INTERFACE FROM +12VDC. KEYING OUTPUT OF KENWOOD TS440S TO -120V BIAS SUPPLY OF HEATHKIT
CCT USING 2 BIDIRECTIONAL SWITCHES COMPOSED OF OPTO-COUPPLERS, TO MONITOR RECEIVED & TRANSMIT
CCT TO SEQUENTIALLY CLOSE 3 5V RELAYS IN SUCCESSION AS OUTPUT OF X-1- LAMP (DIMMER) MODULE GOES
CCT TO INTERFACE GLB PK-1 TNC. WITH COMMODORE 64 COMPUTER, FOR PACKET RADIO
BOTH CHANNELS OF PEAK UNLIMITER CCT & LED. INDICATOR, THAT INCREASES SYSTEM GAIN WHEN PASSING F
CCT CHANGES TO VFO. & RF. AMP. SECTIONS OF HAYWARD-LAWSON RECEIVER
AUTOMATIC BRAKE-RELEASE CCT FOR DCE HAM-IV ROTATOR, TO PREVENT BRAKE ENGAGEMENT WHILE MOTO
BATTERY-CHARGER CCTS
CCT SHOWING LED. BEING TURNED ON/CCT TO MEASURE TURN-ON CURRENT/AC. PHASE-CONTROL SCR. LIGHT
CCT USING UJT. TO PRODUCE PULSE BURST (TRAIN) (PICKET FENCE) TO CONTROL THYRISTOR OR SCR., WITH F
CCT THAT CAN BE USED TO PRETUNE COAXIAL TRAPS USED TO ELIMINATE TVI (TV. INTERFERENCE) AT 50 & 144
CCT TO GENERATE DMA. REQUEST NO LONGER THAN TIME TO PERFORM 3 DMA. MEMORY WRITE OPERATIONS,
CCT USING SPDT. SWITCH TO CHOOSE WHICH OF 2 LETTERS ("C" OR "I") IS DISPLAYED ON 7-SEGMENT LED., USI
CCT FOR STABILIZATION OF SINGLE FREQUENCY INTERNAL MIRROR HE-NE LASER, USING SILICON PHOTODIODE
CCT THAT ILLUSTRATES CURE FOR PROBLEM OF PITTING OF CONTACTS OF TRANSMIT RELAYS IN HF. LINEAR AM
CCT TO MEASURE (DETERMINE) TRANSISTOR'S COLLECTOR CURRENT INDIRECTLY USING DIFFERENTIAL AMP. T
CCT THAT SIMULATES RAPIDLY CHANGING LOADS, USING POWER TRANSISTOR & RECTANGULAR-WAVE GENERA
CCT CONNECTED TO PIA./CCT TO HOLD POSITION FOR WRITING ON SCREEN & GENERATING CURSOR/CCT CONT
CCT TO MODIFY PROTON TRANSMITTER-DECOUPLER CCT FROM AMX-500 NMR. SPECTROMETER, USING PIN DIO
CCT CONSISTING OF DETECTOR & INTEGRATOR, TO MONITOR SOLAR-FLARE ACTIVITY BY OBSERVING SIGNAL C
FET. ADAPTED NQR. SPECTROMETER/DIDIRECTIONAL SQUARE WAVE GENERATOR
ANTENNA-MATCHING UNIT/CONTROL HEAD/CCT TO CONTROL BAND SWITCHING OF ANTENNA MATCHING NETWO
CCT TO SUPPLY OPERATING VOLTAGE TO HT THROUGH COAXIAL CABLE FROM MOBILE AMP.
INTERFACE CCT TO KEY CW. TRANSMITTER FROM SOUND GENERATED BY COMPUTER
CCT TO INTENSIFY BRIGHTNESS OF OSCILLOSCOPE DURING RAPIDLY RISING & FALLING PHASES OF SIGNALS
OPTICALLY ISOLATED RELAY CONTROLLER OPERATED FROM 1 BIT OF PARALLEL OUTPUT PORT/OPTICALLY ISO
CCT TO DRIVE RECORD HEADS WITH CURRENT RATHER THAN VOLTAGE, ENABLING DATA TRANSFER RATES OF
AUTOMATIC THYRISTOR POWER CONTROL CCT CONSISTING OF COMPOSITORS, INTEGRATOR, SIGNAL INVERTE
BATTERY MONITORING CCT IN WHICH RESISTORS ARE CONNECTED ACROSS CELL THROUGH RELAY CONTACTS
ACTIVE ANTENNA CONSISTING OF BUILT-IN HIGH-GAIN AMP. & PICK-UP ELEMENT CONSISTING OF VERY SHORT V
CCT PROVIDING BICYCLE LIGHT BACKUP, KEEPING LIGHTS ON EVEN WHEN STOPPED, IN DYNAMO LIGHTING SYS
BJT. CURVE TRACER INCLUDING DAC., DIFFERENCE AMP. & TRIANGLE WAVE GENERATOR, FOR USE WITH MACIN
CCT TO SWITCH AUDIO OUTPUT OF RIG FROM SPEAKER TO AUDIO INPUT OF TNC. BY SENSING ACTIVATION OF T
CCT FOR ADDRESS DECODING, USING 4-TO-16 LINE DEMUX./CCT TO GENERATE CONTROL SIGNALS/SHARED ME
CCT USING IA. WITH ANALOGUE MUX. TO SET GAIN WHILE AVOIDING INCLUSION OF MUX. ON RESISTANCE IN GA

Sheet1

INTERFACE BETWEEN COMMODORE VIC-20 COMPUTER & STANDARD CASSETTE RECORDER/ALTERNATE MOTOR
INTERVALOMETER USING INDACHRON INDICATOR/CCT USING E-CELL TO INDICATE OPERATING TIME OF AC. EQU
GATED IF. AMP./IF. AMP.-DECODER INTERFACE CCT
CCT TO MOD. KDK FM-144 RIG TO ADD PLUS OR MINUS 1MHZ OFFSET SIMPLY & ECONOMICALLY
CCT SHOWING MOD.S TO ATLAS 350 AGC. CCT FOR SHORTER DELAY WHEN IN CW. MODE
CCT FOR REMOTE BAND SWITCHING OF 160-, 80-, 40-, & 30M VERTICAL DX ANTENNA, USING RELAY
CCT USING LAMP & RELAY TO HELP MOM GET DAD'S ATTENTION BY PUSHING BUTTON, WHEN DAD IS IN HIS HAM
CCT SHOWING MOD. TO TEAC DRIVES, TO CHANGE LED. OPERATION SO THAT LED. LIGHTS ONLY WHEN DRIVE A
CCT TO ADD TEXT INFORMATION TO COMPOSITE-VIDEO SIGNAL OF INDETERMINATE DC. LEVEL, INCLUDING CLA
CCT SHOWING 1 STAGE OF N-STAGE DYNAMIC FILTER FOR NOISE ENHANCEMENT OF AUDIO SIGNALS, CONSIST
INTERFACE TO CONVERT PULSE OUTPUT OF CXP PULSE PROGRAMMER TO LEVELS REQUIRED BY WP CONSOLE
METEOR DETECTOR CONSISTING OF SIMPLE, 2-TRANSISTOR PREAMP. TO AMPLIFY VLF. RADIO WAVES, INCLUDI
CCT USING GREEN OR YELLOW LED. IN PLACE OF PHOTODIODE
CCT TO GENERATE SOUNDS OF STEAM LOCOMOTIVE, USING SOUND-EFFECTS CHIP, FOR MODEL RAILROADERS
CCT USING REED RELAY FOR FAST APPLICATION OF DC. SUPPLY VOLTAGE TO CALCULATOR CHIPS
OUTPUT STAGE OF ACCU-KEYER WITH REED RELAY ADDED
1-TRANSISTOR RF. AMP.
1-TRANSISTOR AUDIO MIXER (SIMPLE SUMMING CCT WITH BASE-EMITTER RESISTANCE BEING SUMMING RESIST
CCT TO GIVE APPROXIMATE SIMULATION OF 1 ARMED BANDIT SLOT MACHINE, USING 3 7 SEGMENT LED. DISPLA
CCT TO DETERMINE WINNER IN 2-CAR RACE, USING SCR.S/CCT TO TELL WHO COMES IN 1ST, 2ND & 3RD/4-WAY C
AUTOMATIC-LEVEL CONTROL CCT TO AVOID SHARP PEAKS (OVERSHOTS) THAT APPEAR AT OUTPUT OF CONVI
CCT TO OVERCOME PROBLEM OF REMOTELY OPERATING MECHANICALLY INTERLOCKED MOMENTARY CONTACT
OPTOISOLATOR CCT/SAME WITH OUTPUT TRANSISTOR TO INCREASE SWITCHING-SPEED TIME/OPTOISOLATOR C
CCT TO DEMONSTRATE SWITCHING ACTION OF FET./SIMPLE TOUCH SWITCH USING TOUCH PLATE & FET./DEMO
CCT TO BIAS GROUNDED EMITTER MICROWAVE TRANSISTOR, USING CURRENT CONTROLLED CURRENT SOURC
CCT TO ADD MORE FREQUENCIES TO PLL. CB.-TO-10 CONVERSION BY ADDING SWITCH & TRANSISTOR TO INVER
NOTCH FILTER COMPRISING SERIES-RESONANT CCT USING TRANSISTOR TO EXTRACT DIFFERENCE BETWEEN I
CCT SHOWING MOD.S TO PEAK MATCHING UNIT ON VARIAN MAT 731 DOUBLE FOCUSING MS.
NOTCH FILTER CCT USING TRANSISTOR & AIR-CORE RF. INDUCTOR, INCLUDING POTENTIOMETER TO ACHIEVE D
CCT INCLUDING ELECTRODES CONNECTED TO CAPACITANCE METER, & THERMAL SENSORS (RTD.S) CONNECTE
OPTO-ISOLATED PACE-MAKER FOR HEART STIMULATION, WITH PS. THAT IS REGENERATED THROUGH SWITCHIN
CCT TO BE ADDED TO ICP.-AES. SYSTEMS, TO AUTOMATICALLY SHUT OFF RF. POWER IF PLASMA IS EXTINGUISH
CCT WHICH, WHEN CHARGING NICD.S, MONITORS BATTERY VOLTAGE & PROVIDES SIGNAL WHEN PRESETTABLE
HOT-WIRE ANEMOMETER CCT USING NEW, LOW NOISE & LARGE FREQUENCY BW. OA. TO MEASURE VELOCITY F
CCT SHOWING UNCLAMPED INDUCTIVE SWITCHING (UIS) TEST FOR TESTING MOSFET.S
CCT USING SMALL-SIGNAL NPN TRANSISTOR AS BUFFERING SWITCH BETWEEN TTL. & CMOS. PARTS
CCT TO PRODUCE AUDIO OUTPUT DIRECTLY FROM COMMODORE PET COMPUTER, USING "TINY TIMESHARING" P
ANTIPROTON LOAD SWITCH & DUMP PULSER TO CAPTURE ANTIPROTONS IN FLIGHT (2)/REED RELAY DRIVER/DIC
ACTIVE AERIAL CCT THAT TERMINATES AERIALS IN HIGH IMPEDANCE, & GREATLY IMPROVES POWER TRANSFER
CCT TO DEVELOP VOLTAGES FOR EXTRACTION LENS OF SECONDARY ION MS. (SIMS), USING ZENER DIODES
CCT TO GENERATE HV. LINEAR RAMPS UP TO ~210V, USING CONSTANT-CURRENT SOURCE COMBINED WITH UJT
CCTS THAT APPROXIMATE NEGATIVE GAIN-SINGLE POLE (NG-SP) TRANSISTOR OSCILLATORS WITH LOW OUTPUT
5 TO 600MHZ RF. PREAMP./RADIO TELESCOPE SYSTEM TO OBSERVE GALACTIC RADIO SOURCES, BASED ON SW
CCT TO MEASURE RESPONSE OF SUPERCONDUCTOR TO CURRENT RAMP/NAND LOGIC GATE USING TRANSISTO
MOTOR-CONTROL CCT THAT SEQUENTIALLY TRIGGERS EACH (PHOTOTRANSISTOR-CONTROLLED) DRIVE COIL P
AUTOMATIC LINE VOLTAGE REGULATOR THAT GIVES 6V BOOST WHEN POWER-LINE VOLTAGE NOSEDIVES
DATA LOGGER/SETTING UP CCT/CCT FOR USING DAC. TO PRODUCE OSCILLOSCOPE DISPLAY
CCT TO SHIFT FREQUENCY OF FREE-RUNNING OSCILLATOR OUT OF RECEIVER PASSBAND DURING KEY-UP PER
ACTIVE SINGLY BALANCED MODULATOR/PASSIVE SINGLY BALANCED MODULATOR

CCT TO USE 1 RTTY. TU. WITH 2 RIGS
CCT TO MAKE WORD COMPARISONS OF ANY LENGTH IF MOST SIGNIFICANT DIGIT COMES FIRST/SAME IF LEAST
INTERFACE BOX TO CONNECT AEA PK232 PAKRATT TNC. TO COMPUTER, HF. & VHF.-UHF. RIGS, & KEYER
CCT TO DELIVER MILD SHOCK (STARTLE) WHEN PICKED UP, WITH TURN ON ACCOMPLISHED BY 4 MINIATURE-ME
MUTING CCT TO PROVIDE PROTECTION AGAINST "THUMPS & BUMPS" ON POWER FAILURE & SUBSEQUENT RECO
MATCHBOX CRYSTAL RADIO SET (AM. RECEIVER) USING VARIABLE-INDUCTOR TUNING TO PROVIDE CONSTANT F
CCT TO CONVERT PULSES FROM FUNCTION GENERATOR TO (BIPOLAR) PULSES OF ALTERNATING POLARITY, US
EXTREMELY SIMPLE AC. LINE WATTMETER CONSISTING OF GERMANIUM DIODE, TRIMMER POTENTIOMETER, MO
CCT THAT AUTOMATICALLY SWITCHES TV. ANTENNA INPUT TO VIDEO GAME OR COMPUTER (PC.), USING MOTOR
1-TRANSISTOR PREAMP. FOR LOUDSPEAKER (TRANSDUCER) TO PICK UP MUSCLE VIBRATIONS (SOUNDS), WITH
CCT USING SWITCHING ARRANGEMENT INCLUDING 3 SINGLE-POLE 10-POSITION (SP10T) ROTARY SWITCHES & L
CCT TO DRIVE 4 7-SEGMENT HEXADECIMAL DISPLAY DIGITS FROM 1 7BIT OUTPUT PORT, USING PIPO 4BIT SHIF
CCT USING 6-CHIP SET THAT TURNS DIGITALLY TRANSMITTED CODES INTO SUBTITLES ON TV. SCREEN, INCLUD
DETECTOR-AMP. USING IR. DETECTOR & TRANSISTOR, TO TEST KEY ASSEMBLY OF OPTICALOCK
CCT FOR UP & DOWN AUTOMATIC CONTROL OF ADJUSTABLE SPEED & VIBRATION-FREE HYDRAULIC SYSTEM
CCT SHOWING AMATEUR RADIO STATION (TRANSCIEVER OR ANTENNA TUNER) INTERCONNECTIONS FOR MFJ-99
CCT FOR HOOKUP OF PS., MONITOR & SPEAKER TO HOMEBREW MACINTOSH COMPUTER
DATA-ACCESS ARRANGEMENT WITH SURGE SUPPRESSION & SIGNAL LIMITING/TELEPHONE RING DETECTOR US
CCT OF CALIBRATION PANEL
POTENTIOMETER CCT TO TRIM CMR./CCT TO MONITOR CURRENT USING CURRENT FEEDBACK PATHS/BOOTSTR
CCT USING DC.-TO-DC. CONVERTER & OPTOISOLATOR TO TRANSLATE TTL.-LEVEL SERIAL DATA INTO RS-232-C S
CCT USED TO TRIGGER TTL. GATE INPUT/CCT THAT CONVERTS 117V AC. TO 5V LOGIC LEVELS
CCT USING STABLE VOLTAGE REFERENCE TO SENSE VOLTAGE CHANGES ACROSS RESISTOR MONITORING CUP
OPTOELECTRONIC TRIGGER FOR CAMERA, ELECTRONIC FLASH OR STROBE, INCLUDING TRANSMITTER USING IR
CCT FOR HAMAMATSU PMT., COMPOSED OF RESISTOR CHAIN DIVIDER & CCT FOR RF. MODULATION
NETWORK TO LIMIT OUTPUT-VOLTAGE SWING OF FAST OA., WITHOUT ALLOWING OSCILLATIONS/CCT TO ELIMINA
BATTERY MONITOR THAT DRAWS <30UA NORMALLY & 3MA WHEN FLASHING LED., USING FLASHER CHIP & NPN T
CCT TO KEY RELAY OF HEATHKIT LOW-BAND LINEAR FROM KENWOOD TS-440, USING PNP DRIVER TRANSISTOR
CCT TO INTERFACE UP.-CONTROLLED MUSIC SYNTHESIZER CCT OF YULETIDE TELEPHONE RINGER TO TELEPHO
CCT THAT PRODUCES PULSES THAT ARE SOME MULTIPLE OF SUPPLY VOLTAGE/SAME USING MOSFET.S TO RED
CCT OF 1 CHANNEL OF MULTI-ELEMENT OPTICAL WAVEGUIDE SENSOR, USING TRANSISTOR DRIVEN BY TTL. PUL
CCT TO SWITCH 2 LED.S, USING SPST. RELAY & DIODE, INCLUDING CURRENT SOURCE TO KEEP EQUAL BRIGHTN
OPTOCOUPLER-BASED COMMUNICATIONS-INTERFACE CCTS TO INTERFACE TTL., RS-232C, OR 20MA CURRENT-L
ULTRA-SIMPLE (BASIC) FET. TIMER CCT WITH INDICATOR LED./VARIABLE-DELAY FET. TIMER FOR CONTROLLING
CCT THAT SHUTS DOWN OUTPUT DRIVE TO 4 327 FILAMENT-PANEL LAMPS IF OUTPUT IS SHORTED, UNTIL RESE
DATA TRANSMITTER TO SEND DATA FROM COLOR COMPUTER TO COMMODORE 64
CCT TO PROVIDE COMPOSITE VIDEO OUTPUT TO DRIVE 12IN MONITOR FROM CT-82, FOR TEACHING BASIC
ANTENNA SWITCHER FOR HF./PS. & CONTROL CCT/ALTERNATIVE MISER'S PS.
CCT TO SYNCHRONISE SLR CAMERA SHUTTER WITH RELEASE OF OBJECT IN AIRTRACK & FREE FALL EXPERIME
CCT FOR MASK STEP-DRIVE FOR POSITIONING MASKS/HV. SECTION OF GLOW DISCHARGE CCT FOR OXIDIZING
INTERFACE USING CENTRONICS STANDARD PRINTER PORT AS IO. PORT, TO OPERATE CUE LIGHT & FOOD DISPE
CCT OF MOD. DIRECT-TRIGGER TIMING LIGHT USING STROBE TUBE, TRIGGER TRANSFORMER & SCR., WITH INDU
CCT USING FLASH TUBE, TRIGGER INPUT & 110V AC.
CCT SHOWING COOLED COMPONENTS OF SCINTILLATOR, PHOTODIODE & CHARGE AMP. USING FET. WITH CAPA
CCT SHOWING OSI 1-P COMPUTER DISPLAY ECHOED IN MORSE CODE BY XITEX MRS-100 MORSE CODE TRANSC
HETERODYNE OSCILLATOR (LO.)/TRANSMIT MIXER & FINAL AMP./RECEIVE CONVERTER TO AMPLIFY 2M SIGNALS
CCT TO RETAIN FREQUENCIES IN MEMORY WHILE MOVING KENWOOD TR-7730 RIG FROM CAR TO HOUSE & VICE
CCT TO INTERFACE RADIO SHACK'S MOBILE ARMATRON ROBOT TO MS-PC.-DOS. PC. PARALLEL PRINTER PORT,
FET.-INPUT PREAMP. TO AMPLIFY SIGNALS FROM TRANSDUCER/PRESSURE MEASUREMENT SYSTEM (TRANSDUC

CCT FOR ADC. & STORAGE IN 256X8 RAM. (TEMPERATURE PULSE MEMORY DEVICE DESIGNED AS AID TO CALOR
 CCT THAT DEVELOPS CONTROL SIGNAL WHEN IT SENSES THAT ANY AUTOMOTIVE ELECTRICAL DEVICE IS OPER
 CCT SHOWING SIGNAL-STRENGTH (S) METER MOD. FOR HEATH HW-8 TRANSCEIVER, USING RELATIVE POWER M
 CCT TO GENERATE 1 OR 10S &-OR 1MIN TIMING MARKS, & DELIVERS BRIEF PULSES EVERY 1-99S OR MINUTES, S
 CCT OF SIGNAL PROCESSING (READOUT) & DISPLAY FOR 8-CHANNEL OPERATION, INCLUDING INPUT AMP., ADC.
 CCT TO GENERATE PROGRESSIVE & REGRESSIVE PATTERNS OF MOTION WITH VARIABLE ANGULAR SPEEDS & I
 CCT FOR DELAY-TO-OFF USING COUNTER-TIMER, THYRISTOR & DC. RELAY/MAINS DELAY-TO-ON PLUG-IN TIMER
 CCT FOR GENERATING T² VOLTAGE PULSE USED FOR ION SEPARATION IN TOF. ENERGY ANALYSER
 ULTRA-SIMPLE KEYING CCT THAT FITS INSIDE 0.25-IN. IN-LINE PHONE-PLUG RECEPTACLE, USING TRANSISTOR, 2
 CCT FOR RUNNING LED.S FROM A 1.5V BATTERY, USING VOLTAGE DOUBLER & ASTABLE MULTIVIBRATOR
 ANTENNA NULL METER INCLUDING 100W 50OHM INBOARD DUMMY LOAD, THAT REPLACES SWR. BRIDGE, COAX S
 CCT CONSISTING OF 8.5V NICD. BATTERY PACK BUILT FROM 7 1.2V CELLS, & 2-LEVEL CHARGING CCT TO ALLOW
 CCT FOR LEAKAGE-CURRENT MEASUREMENT UNDER HIGH COMMON-MODE-VOLTAGE CONDITIONS, USING ELEC
 INTERFACE BETWEEN 2-TO-4-WIRE HYBRID & LINE DRIVER & IBM PC., CONSISTING OF DECODING LOGIC, COMMU
 CCT TO MANUALLY CONTROL FREQUENCY SYNTHESISER, BY 'UP' & 'DOWN' PUSHBUTTONS, WITH DEBOUNCING
 METER TO INDICATE FREQUENCY FROM POWER GENERATOR, CONVERTING INCOMING SINE WAVES TO SQUARE
 CCT SHOWING INTERCONNECTIONS BETWEEN FURNACE WIRING (THERMOSTATS) & COMMODORE 64 (C-64) COM
 CCT TO TURN ON CASSETTE RECORDER WHEN TELEPHONE IS TAKEN OFF HOOK, TO TAPE CALLS, BY ENERGIZI
 METAL-DETECTING CCT THAT FUNCTIONS AS FLOW SWITCH FOR LIQUID, INCLUDING DETECTING COIL, OSCILLA
 CCT TO MEASURE RESONANT FREQUENCIES OF MWPC. SENSE WIRES, USING CAPACITANCE MODULATION OF F
 CCT TO TRIPLE OSCILLATOR FREQUENCY TO OBTAIN CARRIER FREQUENCY OF 144.3666MHZ, INCLUDING BANDP
 CCT, 19 OF WHICH ARE USED IN BCD.-BINARY CODE CONVERTER INTERFACE THAT PERFORMS 16-BIT CONVERS
 CCT TO INTERFACE 8 BIT DAC. & EXISTING MAGNET SCAN CONTROL OF MS. TO UP., INCLUDING HIGH IMPEDANC
 CCT THAT PROVIDES FREQUENCY INDEPENDENT RAMP SHAPING TO ENABLE CORRECTIONS OF NONLINEARITIE
 ULTRA-MINIATURE RADIO (TELEMETRY) TRANSMITTER TO SEND TEMPERATURE SIGNALS TO NEARBY AM. RADIO
 CCT INCLUDING MICROPHONE, SSR. & GAIN CONTROL
 CCT THAT PROTECTS TTL. GATES FROM INTERFERENCE DUE TO ESD.
 INTERFACE TO PERMIT TI-99/4 COMPUTER TO CONTROL SUPER-8 ANIMATION CAMERA UNDER LOGO/APPLE-INT
 2-TONE TESTER, USING TWIN-T OSCILLATORS, THAT MAKES PROPER ADJUSTMENT OF SSB. TRANSMITTERS POS
 CCT USING PPM. OUTPUT OF VHF. AM. TELECOMMAND RECEIVER TO SWITCH ON HIGH CURRENT POST-DETECT
 1ST PLL. (FREQUENCY SYNTHESIZER) OF CRYSTAL CONTROLLED PROGRAMMABLE FUNCTION GENERATOR/2ND
 CCT USING 3 SILICON DIODES & MOV., TO RUN HANDIE TALKIES FROM 12VDC. TO 14VDC. OF CAR CIGARETTE LIC
 CCT USING OPTOISOLATORS TO CONDUCT SIGNALS FROM TO 30KHZ BETWEEN INPUT & OUTPUT TERMINALS, TI
 CCT SHOWING MOD.S FOR CW. FILTER-LIMITER, TO PREVENT FALSE TRIGGERING OF VCO. (QST8901)
 CCT IN PASCO 9204 PHOTOGATE/MOD. SHOWING IR. LED. OF PHOTOGATE DRIVEN BY 10KHZ SQUARE WAVE, TO
 INTERFACE BETWEEN ORGAN PIPE SOLENOID & COMPUTER OUTPUT BIT (CONTROLLING PORT)/INTERFACE TO I
 CCT CONSISTING OF MULTIVIBRATOR & DIFFERENTIAL AMP., TO DETECT PHONE-LINE VOLTAGES & CAUSE LED.
 CCT TO MEASURE FF. METASTABLE RATES (METASTABLE STATE MEASURING CCT), INCLUDING PULSE SHAPER,
 CCT THAT WILL PREVENT KEYER FROM SENDING AT RANDOM WHEN FIRST TURNED ON
 EXTERNAL SWITCH POLLER/EXTERNAL CONTROLLER CCT
 1-TRANSISTOR QRP TRANSMITTER/1-TRANSISTOR QRP TRANSMITTER USING FET./UNIVERSAL QRP TRANSMITTE
 CCT THAT PROVIDES FUSING ACTION & INDICATION-OF-EXPLOSION OUTPUT TO CALL FOR MEDICAL ASSISTANC
 AUTOMATIC SPEAKER SWITCH TO SWITCH SPEAKER BETWEEN BC. RADIO & 2M RIG, DEPENDING ON WHICH RAD
 CCT SHOWING VARIAN FT-80A NMR. SPECTROMETER MOD.S TO PROVIDE DIRECT OBSERVATION OF 43\CA-103\IR
 CCT USING OA. OPERATING FROM +-15V SUPPLY, WHOSE OUTPUT IS SCALED FROM 5 TO 25V/ACTIVE LEAD-LAG
 AUTOMATIC FADER/PHOTOFLASH SLAVE UNIT USING SCR.
 CCT TO SEQUENTIALLY SCAN 16-LINE DATA SELECTOR TO ENSURE ANY DATA INPUT PRODUCES AN OUTPUT
 CCT USING CONSTANT-CURRENT GENERATOR, FOR TESTING ZENER DIODES RATED AT <25V
 CCT THAT SUPPLEMENTS SAGGING DC. PS. WITH STORAGE CAPACITOR TO OVERCOME LONG BROWN-OUTS

Sheet1

CCT OF WIRE PROBE FOR MEASURING HF. SEA WAVES, HAVING FLAT RESPONSE TO 50HZ
DATA TRANSMISSION CCT THAT REPRESENTS 1'S & ZEROS BY RIGHT ANGLED TRIANGLES & THEIR MIRROR IMAGE
AUTO-TO-TRAILER SIGNAL LIGHT INTERFACE, USING RELAYS TO MUX. BRAKE & TURN COMMANDS ONTO 1 LINE
ACTIVE MIXER WITH TRANSISTORS & BANDPASS FILTER/PUSH-PULL MIXER WITH FET.S (2)/DBM. (3)/LOW-NOISE C
CCT USING SWITCHING DIODES, TO PROTECT VERY SHORT WIRES AGAINST EMP. AFTER NUCLEAR ATTACK
ANTENNA COUPLER & SWR. BRIDGE (ANTENNA TUNER)/TRANSMATCH & MONIMATCH, INCLUDING SWR. BRIDGE/
CCT TO MONITOR RS-232C LINK'S TRANSMIT & RECEIVE PINS, USING OPTOCOUPLER, LOW-CURRENT, HIGH-INTE
CCT TO MEASURE FUSE OR BREAKER'S AC. OR DC. RUPTURE CURRENT, USING LOW-RESISTANCE MEASURING I
CCT TO SENSE WHEN DATA ARE AVAILABLE, TURN ON TELETYPEWRITER & KEEP IT ON UNTIL DATA ARRIVAL CE
8-TRANSISTOR 1W TRANSMITTER OF 40M CW. TRANSCIVER FOR EMERGENCY COMMUNICATIONS, INCLUDING C
CCT TO ELIMINATE NEED FOR HEADPHONE CORDS WHEN LISTENING TO STEREO SYSTEM OR TV./EAR EXTENDE
CCT INCLUDING COMPONENTS TO PREVENT DRAIN-TO-SOURCE & COLLECTOR-TO-BASE BREAKDOWN OF TRANS
CCTS TO REDUCE BIPOLAR POWER TRANSISTORS' TURN-OFF DELAYS DUE TO BASE-CHARGE STORAGE (TO SPE
CCT INCLUDING PSEUDORANDOM PULSE GENERATOR & SHIFT REGISTERS, TO MEASURE BIT, DOUBLE, TRIPLE &
CCT TO PROVIDE STABLE DC. POWER OBTAINED FROM CURRENT FLOWING THROUGH PRIMARY AC. POWER LIN
CCT TO BUFFER DATA LINE PULSE (INTERFACE DATA LINE COMING FROM COMPUTER TO REAL WORLD), USING
CCT USING LED., GERMANIUM TRANSISTOR & GERMANIUM DIODE, TO GIVE POSITIVE INDICATION THAT BATTERY
CCT USING TRI-COLOR LED./CAR-BATTERY CHARGER THAT AUTOMATICALLY SWITCHES FROM HIGH TO TRICKLE
PMT. GATING CCT INCLUDING LOGIC BOARD, & GATE BOARD USING MOSFET.S (2)/PHOTOMULTIPLIER VOLTAGE
CCT SHOWING MOD. OF HD-10 KEYS FOR USE WITH POSITIVE-VOLTAGE KEY LINE
FET. COLPITTS OSCILLATOR THAT OPERATES AT NOMINAL FREQUENCY OF 1MHZ
CCT OF CHANGES TO TU. FOR RECEIVING WITH TRS-80 COLOR COMPUTER
CCT TO DRIVE SMALL MOTOR OR RELAY FROM TTL.-LEVEL OUTPUT PORT ON COMPUTER
CCT TO TEST PRV (PEAK REVERSE VOLTAGE) OF DIODES USING PULSED VOLTAGES/CCT TO MEASURE ZENER'S
2-TRANSISTOR ASTABLE MULTIVIBRATOR USING PAIR OF BIPOLAR TRANSISTORS
CCT DESIGNED TO PROVIDE HIGH-PERFORMANCE SQUELCH FOR NEARBY REPEATER
CCT TO TEST FORWARD BLOCKING-VOLTAGE (VDRM) OF SCR., IN WHICH INDICATOR LAMP SERVES AS INDICAT
CCT TO MONITOR LIMB ACTIVITY, INCLUDING DETECTOR BOARD, PEAK FOLLOWER, RC. FILTER, HALF WAVE REC
CCT TO MEASURE SETTLING TIME OF OA. ON OSCILLOSCOPE, USING FALSE SUMMING NODE
CCT USING COMMON-BASE CONFIGURATION FOR HIGHER SPEED & NONINVERTING CHARACTERISTICS, WITH 10
BATTERY-BACKUP CCT TO SUPPLY STANDBY POWER TO CMOS. RAM. DURING POWER FAILURE, TO PREVENT LO
CCT TO IMPEDANCE OF MATCH DRIVER STAGE IN 154MHZ EXCITER TO P.A. THAT DELIVERS 1W INTO 50OHM LOA
CCT USING RF. CURRENT TRANSFORMER, GERMANIUM RECTIFIER & FILTER, TO CREATE VOLTAGE FOR MEASUR
CCT USING GERMANIUM DIODE CONNECTED IN SERIES WITH SIGNAL LINE WITH 5V DC. BIAS APPLIED IN SERIES
CCT USING BRIDGE RECTIFIER TO ELIMINATE PROBLEM OF DEVICE NOT WORKING WHEN VOLTAGE POLARITY R
CCT TO KEY TRANSMITTER DIRECTLY FROM COMMODORE VIC 20, 64 OR 128 COMPUTER/CCT THAT USES AUDIO
CCT TO MEASURE CURRENT FROM DIODE PROBE IN WHICH SI DIODE IS BACK (REVERSE) BIASED AT 500V (HALF
CCT USING 2 COAXIAL CABLES TO PROVIDE POWER & SIGNAL LEADS FOR EMITTER FOLLOWER DRIVING LCR TA
CCT USING IA. TO SEPARATE TEST SIGNAL FROM NONINVERTING AMP. BY TRANSLATION TO GROUND-REFEREN
CCT THAT PRODUCES UNIPOLAR OUTPUT FROM POSITIVE OR NEGATIVE PULSES, WITH <1US PROPAGATION DE
AUTOMATIC DARKROOM TIMER THAT COUNTS & GIVES AUDIBLE TICKS/AUDIBLE ELAPSED-TIME INDICATOR CCT/
EXTRA-LOW-POWER PILOT LIGHT CCT THAT DRAWS VERY LITTLE POWER FROM BATTERY & GIVES PERIODIC FL
FET. GRID-DIP OSCILLATOR USING HARTLEY CCT
CCT SHOWING PHOTON-COUPLED ISOLATORS REPLACING RELAY CONTACTS FOR SCANNING MULTIPLE MEASU
MOTOR SPEED CONTROL & OVERLOAD PROTECTION CCT
BATTERY-POWERED 30M VFO./CCT TO ELIMINATE HEARING VFO. DURING RECEIVING/CCT TO PULL VFO. LOWER
CCT TO EXTEND RANGE OF GRID-DIP OSCILLATOR (METER) TO 408MHZ, BY INSERTION OF SILICON DIODE IN LEM
BATTERY-POWERED FENCE CHARGER
INTERFACE TO CONNECT ADALAB BOARD TO TITRATION CELL, USING LASCR. TO CONTROL MAGENTIC STIRRER

RTTY. OSCILLATOR FROM ORGAN PARTS
OPTO-ISOLATION CCT/DRIVER CCT FOR THOSE HAVING RS-232C AVAILABLE
INTERFACE SENSOR CCT INCLUDING SENSOR PS. & PS. TO CONVERT LINE VOLTAGE TO DC. VOLTAGES TO OPEN COLLECTOR
OPTICAL RECEIVER WITH OPTICAL OUTPUT (ORO) & OPTICAL FEEDBACK, FEEDING BACK FRACTION OF LIGHT FROM
CCT TO INTERFACE RADIO SHACK MOBILE ARMATRON ROBOT TO COMMODORE C-64 COMPUTER USER PORT
CCT SHOWING 2 FERRANTI 8-BIT ADC.S CONFIGURED FOR CONNECTION TO Z80 PARALLEL-INTERFACE CONTROL
OUTPUT DRIVER CCT FOR PROGRAMMABLE PARALLEL IO. DEVICE, USING HEX INVERTING BUFFER USED TO DRIVE
INTERFACE BETWEEN TTL. OPEN COLLECTOR INVERTERS, SHOWING OPEN-COLLECTOR CASE IN TTL.-HIGH INTENSITY
CCT TO EXPERIMENT WITH RF.-AMP. FET., USING DRAIN RESISTOR TO PROVIDE SHORT-CCT PROTECTION, & POWER
CCT TO BIAS SAMPLE & MEASURE TOPOGRAPHY & POTENTIOMETRY, USING BURR-BROWN I.A.S CONFIGURED WITH
CCT USING 2 TTL. NAND GATES, OR GATE & 6 INVERTERS, TO IMPLEMENT BOOLEAN LOGIC EXPRESSION (BBB)
EXTENSION SPEAKER CONTROL WITH REMOTE SHUT-OFF & VOLUME CONTROL, FOR THOSE WHO HAVE TRAILED
CCT TO GIVE VISIBLE RANGE INDICATION WHEN USING AUTORANGING TECHNIQUE TO MEASURE FREQUENCY, USING
INTERFACE CCT TO CONNECT 80V-40MA LOOP OF SERIAL PAGE PRINTER TO TTL. INPUT OF AFSK. GENERATOR
EXTENSION SILENCER THAT LOCKS OUT EXTENSION TELEPHONES WHEN LINE IS IN USE, CONSISTING OF ELECTRONIC
AUTOMATIC LOCKING (TRACKING) (SEARCHING) NMR. GAUSSMETER INCLUDING MARGINAL OSCILLATOR & PRE-AMPLIFIER
CCT FOR STARTING & STOPPING SINGLE-PHASE, CAPACITOR-START INDUCTION MOTORS, USING OPTICAL COUPLER
CCT ARRANGEMENT CONSISTING OF OSCILLATOR, COUNTER & REGULATED SUPPLY, TO PROVIDE DATA FOR PAPER
ARTIFICIAL RF. GROUND CONSISTING OF SERIES CCT BETWEEN TRANSMITTER-TRANSCEIVER CHASSIS & WIRE, TO
DETECTOR TO MONITOR 2 BIPOLAR SIGNALS TO DETERMINE WHETHER POLARITY DIFFERENCE EXISTS, USING 2
CCT TO INCREASE COLLISION-BASED RS485 NETWORK'S SPEED 8-FOLD, HELPING DRIVE CABLE TO MARK STATE
CCTS SHOWING USE OF INS8060'S BUILT-IN OSCILLATOR (2)/CLOCK-PULSE GENERATOR OF 6502
CCT TO EXTEND LINEAR OPERATING RANGE OF LED., FOR OPTICAL COMMUNICATIONS SYSTEMS
CCT TO START BATTERY-OPERATED TIMER FOR RACE WHEN STARTER'S PISTOL IS FIRED
CCT FOR ADDING TOUCH CONTROL TO EK-1 KEYS
PET VIDEO INTERFACE & SYNCH PULSE GENERATOR FOR V.E.R. (VISUAL EVOKED RESPONSE) TEST, SHOWING U
CCT TO WARN OF POORLY-PERFORMING WIPER BLADES, USING ARRAY OF CONDUCTIVE FINGERS AS SENSOR/
CCT USING 3 TRANSISTORS & RELAY, TO PROVIDE SIMPLE & RELIABLE LOUDSPEAKER PROTECTION, SPEAKER-PROTECTOR
CCT USING 8-BIT DAC. WITH VIA. AS LATCH/CCT USING 8-BIT ADC. IN CONJUNCTION WITH VIA./CCT USING VIA., DATA
CCT THAT ALLOWS FOR 1-HAND OPERATION OF ANY SURPLUS-TYPE TOUCHTONE PAD, INCLUDING HIGH-LOW SWITCH
CCT THAT FEEDS DIRECTLY TO HV. AT FLASH CORD TERMINALS OF CAMERA, TO PROVIDE SOUND TRIGGERED FLASH
CCT USING DIODE CLAMPS, TO PROTECT EQUIPMENT (AMP. & LOUDSPEAKER) WHEN USING 4-WIRE SYSTEM IF
CCT USING OA. TO OPERATE AS SUMMER FOR ADDITION OPERATION
CCT USING DETECTOR FOR SENSING SUBSYSTEM/CCT USING 2 SCHMITT TRIGGERS TO DETECT AC. LOSS/HOLD
BATTERY-OPERATED UP.-BASED 3-CHANNEL AMBULATORY ESOPHAGEAL PRESSURE MONITOR THAT ACQUIRES
INTERFACE CCTS FOR LIFT SYSTEM, INCLUDING DAC., ADC. & DAC., & CONDITIONING CCT (AMP.) TO AMPLIFY VOICE
CCT FOR CAULIFLOWER HARVEST, INCLUDING FF. SOLENOID DRIVE, FILTER & COMPARATOR (USING OA.S), & SE
1ST STAGE OF PREAMP. (LOW NOISE, HIGH GAIN CASCODE AMP.)/APERTURE CORRECTION CCT
INTERFACE BETWEEN ELF & CASSETTE RECORDER/INTERFACE BETWEEN ELF & 20MA CURRENT-LOOP DEVICE I
CCT THAT PASSES CONTROL OVER TO EPROM. CODE IN EXTERNAL CARTRIDGE ON C64 WHEN RESET BUTTON I
CCT SHOWING CONNECTION OF RS-232 FROM TTL. CCT TO ARQ JACK, TO KEY AUDIO GENERATOR OF HAL CT22
CCT SHOWING BAND SELECTION METHOD FOR MITSUBISHI 3-BAND VCR. VARACTOR TUNER/SAWTOOTH SWEEP
CCT TO TEST POWER MOSFET.'S RUGGEDNESS UNDER AVALANCHE CONDITIONS, SIMULATING INDUCTIVE-KICK
CCT USING 4 TRANSISTORS IN PARALLEL FOR RF.-POWER USE/TESTER FOR MATCHING TRANSISTORS/5W RF. P
CCT THAT SERVES AS PARADIGM FOR CHAOTIC SYSTEMS, PRODUCING CHAOTIC SIGNAL WHEN SUBJECTED TO
CCT TO INTERFACE RS232 TO TTL., WHEN INTERFACING PERIPHERAL TO COMPUTER/CCT TO CONVERT 20MA LO
CCT SHOWING HOW PROBLEM FOUND IN INTERFACE CAN BE SOLVED (RAEL8206)
CCT TO PERMIT ELECTRONIC KEYS TO BE USED WITH A DX-100 TRANSMITTER
BUTLER'S EMITTER FOLLOWERS (4)/20MHZ & 100MHZ COLPITTS HARMONIC OSCILLATORS (4)/20MHZ & 100MHZ P

EXTREMELY SIMPLE 3-CHANNEL APPLIANCE CONTROLLER

DATA ACQUISITION HARDWARE OF INTERFACE FOR APPLE II+ MICROCOMPUTER/CONTROL HARDWARE OF INTE
CCT USING SILICON OA. & GAAS. OA. TO ACHIEVE 350MHZ BW. & 2MV OFFSET VOLTAGE
CCT THAT, WHEN TURNED ON, TIMES 20MIN & SHUTS OFF, BUT GIVES 1S TONE 20S BEFORE SHUTTING OFF, WA
INTERFACE TO ALLOW FOR FORWARD & REVERSE MOTION OF KODAK EKTAGRAPHIC SLIDE PROJECTOR UNDER
CCT USING CRYSTAL-CONTROLLED OSCILLATOR AS SOURCE TO COMPENSATE FOR LED.'S TC., TO KEEP LIGHT
CCT TO PROVIDE ISOLATION BETWEEN COMPUTER & TRIAC/SYNCHRONIZER USING ZERO VOLTAGE SWITCH & C
CCT USING COM52C50 TO CONTROL COMMUNICATION BETWEEN IBM PC. & TWINAXIAL PORT, USING Z80 UP. WIT
CCT USING LAN. DRIVER HYBRID FED FROM ARCNET CONTROLLER, TO CONNECT IBM PC. NODE TO NETWORK'S
CCT THAT ALLOWS ONE TO SWITCH AC. DEVICE ON & OFF BY PASSING HAND NEAR INSULATED TOUCHPLATE
CCT TO EXPAND MICRONROLLER'S PROGRAM MEMORY TO 32K BYTES BY USING BANK-SWITCH TECHNIQUE (BI
CCT THAT OVERCOMES PROBLEM OF TUNING 2ND VCO. TO A 5TH ABOVE THE 3RD FOR RICHER SOUND
BATTERY-OPERATED QRP RIG USING 28.060MHZ TTL. CRYSTAL OSCILLATOR, ADJUSTABLE DOWN TO 100UW, INC
OPTICALLY ISOLATED SWITCH TO SWITCH ON LIGHTS UP TO 300W IN SAFETY, EVEN IN DAMP CONDITIONS
OPTICALLY COUPLED DC. COMPARATOR
CCT USING TRIAC-OUTPUT TYPE OPTOCOUPLER TO ISOLATE HV.S FROM SENSITIVE INPUT CCT/CCT USING OPT
CCT USING ULTRAMINIATURE CRYSTAL OSCILLATOR/MEASUREMENT CCTS FOR DOC-10K ECL. OUTPUT CRYSTA
INTERMEDIATE REPARTITION TYPE PHOTOMULTIPLIER DYNODE CHAIN (VOLTAGE DIVIDER) THAT FURNISHES VO
CCT TO ELIMINATE MAINS-FREQUENCY INTERFERENCE ON SMALL SIGNALS BETWEEN SOURCE & INSTRUMENT,
CCT COMPOSED OF 1MHZ QUARTZ OSCILLATOR, AMP., FREQUENCY DIVIDER & 2 OPPOSED ZENER DIODES
ACTIVE ANTENNA CONSISTING OF FET. AMP. TO BOOST WEAK RF. SIGNAL (AM., FM. OR SW.) FROM 18IN WHIP AN
CCT TO SIMPLIFY OSCILLATOR FREQUENCY TRIMMING FOR SIGNETICS L.V.D.T. SIGNAL-CONDITIONING IC, SET A
ACTIVE ANTENNA/FERRITE-LOOP ANTENNA & HIGH-GAIN PREAMP./6M PREAMP. WITH 20DB OF GAIN
CCT OF 1 DIODE SWITCH SECTION, USING CHOKES & DELAY LINE, FOR PATH COMPENSATION, FOR 15-45MHZ
INTEGRATING PREAMP. BASED ON FAST VOLTAGE FOLLOWER WITH BW. OF 100MHZ & RISE TIME OF 2NS/PHOTO
CCT USING DUAL OPTOISOLATOR, TO PROVIDE GLITCH-FREE (CLEAN) TTL.-LEVEL OUTPUT PULSE FOR EACH DE
CCT USING PRESSURE SENSOR AS STRAIN GAUGE, & DIFFERENTIAL AMP., WITH OUTPUT VOLTAGE PROPORTIO
CCT SHOWING MOD. TO OPERATE AMATEUR TV. TRANSMITTER AT LOW POWER/RF. PROBE FOR DMM., VOM OR
BATTERY CHARGER USING MONOLITHIC VOLTAGE REGULATOR, TO DELIVER TEMPERATURE-COMPENSATED CO
CCT SHOWING MULTIPLIER CONNECTIONS/CCT TO MODEL LORENZ EQUATIONS, USING 2 ANALOGUE MULTIPLIER
CCTS USING OA., WITH CAPACITIVE LOAD (2)/SAME, WITH POLE-ZERO PHASE COMPENSATION/COMPENSATED A
CCT TO USE 9-DYNODE SQUIRREL-CAGE PMT. AS LOW DUTY-CYCLE DETECTOR IN KINETIC SPECTROMETER, RE
OPTICAL LINK THAT CAN TRANSMIT 16 INPUT CHANNELS OVER 1 FIBER-OPTIC CABLE, USING TDM.
BATTERY STATE-OF-CHARGE INDICATOR/LIMIT DETECTOR/CCT FOR SHUTTING DOWN REGULATOR WHEN BATTE
ULTRALOW BIAS CURRENT PREAMP. (VOLTAGE FOLLOWER) TO MEASURE GONDOLA POTENTIAL, WITH VERY HIC
CCT CONSISTING OF SINE-WAVE OSCILLATOR, 90DEG PHASE SHIFTER, PRECISION RECTIFIER & LPF., TO GENER
CCT USING PIN BANDSWITCHING DIODES FOR SWITCHING OF MECHANICAL FILTERS IN HF. RECEIVER, INCLUDIN
ANTENNA TEST UNIT (RESISTIVE SWR. BRIDGE)/CRYSTAL OSCILLATOR
AUTOZEROING AMP. TO MUX. 7 INPUTS TO COMMON OUTPUT/FAST SH. AMP./PEAK DETECTOR/LOGARITHMIC AM
CCT TO TRANSLATE 5V LOGIC SIGNAL TO 12 OR 15V REQUIRED BY CERTAIN CMOS. IC'S, USING N-CHANNEL JFET
1 TRANSISTOR (1-Q) VHF. SIGNAL GENERATOR TO PRODUCE HARMONICS TO 240MHZ/CCT SHOWING TEST SETU
CCT FOR DIGITAL FREQUENCY SYNTHESIS USING VCO. IN 1.5 TO 2GHZ RANGE USING TV. TUNING (VARIABLE CA
CCT USING MOTOROLA SMARTMOS. MOTOR-CONTROL CCT THAT OPERATES AT MOTOR-SUPPLY VOLTAGE FRO
CCT FOR VCXO (VOLTAGE-CONTROLLED CRYSTAL OSCILLATOR) MOD., TO ALLOW FOR CONTINUOUS 10M COVER
CCT INCLUDING 1000HZ SINE WAVE PHASE SHIFT OSCILLATOR & 102.5MHZ RF. OSCILLATOR/STABLE 102.5MHZ H
CCT TO MEASURE RELATIVE NIR. REFLECTIONS OF DUST MIXTURE, USING SENSOR CONSISTING OF NIR. LED. &
CCT TO REDUCE REFERENCE SIDEBANDS (SPURIOUS SIGNALS) IN PLL.S OR FREQUENCY SYNTHESIZERS, INCLU
BATH TEMPERATURE-CONTROL CCT USING THERMISTORS/CONDUCTANCE MEASURING CCT INCLUDING DIFFER
CCT USING MOTOROLA 100KPASCAL PRESSURE SENSOR & OA.S, INCLUDING TRUE DIFFERENTIAL-AMP. 1ST STA

ULTRA-LOW DROPOUT REGULATOR WHOSE DROPOUT VOLTAGE IS LOAD-CURRENT DEPENDENT, USING ADJUSTABLE
CCT FOR EXTERNAL CROSS CORRELATION & AMPLIFICATION OF R1654U MCP. PHOTOMULTIPLIER
CCT PROVIDING DIRECT LED. DISPLAY OF RECEIVED FREQUENCY TO 30MHZ ON SW. RECEIVERS/PS.
CCT FOR -48V BATTERY FEED WITH CURRENT SENSING, PROTECTION FROM LINE TRANSIENTS & CANCELLATION
CCT TO LINEARIZE PLATINUM RTD. WITH NEGATIVE RESISTOR/CCT REALIZING NEGATIVE RESISTOR WITH OA., T
CCT USING PLESSEY'S 500MHZ 8BIT DAC. WITH SETTLLING TIME OF 2NS TO WITHIN 0.5 LSB. & OPERATED ON SING
CCT CONTAINING 3RD-ORDER & UNITY-GAIN SALLEN & KEY FILTERS & GENERAL IMMITTANCE CONVERTER (GIC)
CCT FOR COINCIDENT EXTRACELLULAR RECORDING & STIMULATION, USING JFET.S, OA. & (DC.) DIFFERENTIAL I
ACTIVE ANTENNA (RF.) AMP., INCLUDING JFET., & 2 TRANSISTORS OPERATING AS LINEAR BROADBAND AMP.S US
CCT USING SPEECH PROCESSOR (SYNTHESIZER) & USER PORT, TO ENABLE COMMODORE VIC-20 OR C-64 PC. T
FET. DIP METER (DIPPER) USING SINGLE ACTIVE DEVICE
CCT TO MEASURE VOLTAGE-REFERENCE NOISE WITH STORAGE OSCILLOSCOPE, USING 0.1HZ HIGHPASS FILTER
CCT TO REMOTELY AUTOZERO ISOLATION AMP. WITH SOFTWARE, USING SWITCHABLE-INPUT OA. (SWOP AMP.)/
CCT INCLUDING MILLER INTEGRATOR USING BURR BROWN OA. WITH LOW BIAS CURRENT, TO INTEGRATE POSIT
CCT USING OA. WHOSE INPUT IS CONNECTED TO MECHANO-ELECTRIC TRANSDUCER (PIEZO-CERAMIC BENDER),
1ST STAGE PREAMP. FOR USE WITH PIN DIODE GEA DETECTOR, USING OA. IN TRANSIMPEDANCE CONFIGURATIO
INTEGRATOR & SUMMING-AMP.
WATER-STILL MONITOR TO PULL IN RELAY & ENERGIZE (SOUND) PIEZOELECTRIC BUZZER BEFORE STILL OVERF
BUTLER (OR BRIDGED-T) 6M OSCILLATOR WITH EMITTER-COUPLED CRYSTAL, USING TRANSISTOR IN COMMON-E
FET. AUDIO AMP. USING N-CHANNEL JFET./HIGH IMPEDANCE MICROPHONE PREAMP. USING N-CHANNEL JFET., T
CCT USING BIDIRECTIONAL CURRENT SOURCE CONSISTING OF DIODE BRIDGE & CURRENT SOURCE, ACTING AS V
CCT TO ENABLE LF. PULSES OF 25V AMPLITUDE TO BE GENERATED FROM LOGIC SIGNALS, POWERED FROM 5V
FET.-INPUT IA. WITH HIGH IMPEDANCE & LOW NOISE/PHOTODIODE AMP./INTEGRATOR
INTERFACE OF DRAM. CONTROLLER TO 16-BIT UP. READY FOR 256KBIT DEVICES (BBB)
CCT USING SPEECH-PROCESSOR CHIP TO PROVIDE AUDIBLE ANNUNCIATION (VOICE REPORT) OF INPUT PULSE
CCT TO DETECT & RETAIN PEAK CURRENT/CURRENT INVERTER CCT FOR ABSOLUTE-VALUE CONVERSION IN CU
CCTS TO PERFORM UP-SCALE & DOWN-SCALE CURRENT-LOOP CONVERSION (2)/CCT TO CONVERT UP-SCALE &
DATA LOGGER USING NEC MICROCONTROLLER CONTAINING LCD. CONTROLLER-DRIVER, RTC. TIMER, 8-BIT TIME
CCTS USING INTERFACE CHIP TO MAKE CONNECTION BETWEEN FLOPPY-DISK DRIVE & CONTROLLER CHIP (2)
OPTOELECTRONIC DEVICE TO MONITOR VELOCITY OF DRIVING PISTONS & TIME LAPSE BETWEEN STOP SWITCH
CCT TO MEASURE & CONTROL THERMODE TEMPERATURE/CCT TO PREVENT OVERHEATING OF PELTIER ELEMEN
2-TRANSISTOR DC.-COUPLED FEEDBACK AMP. WITH TRANSIMPEDANCE OF 28V PER MA
2-TRANSISTOR 10MW 2M CW. TRACKER TRANSMITTER THAT USES INEXPENSIVE SCANNER CRYSTALS, INCLUDING
CCT TO PRODUCE LF. ANALOG WAVEFORMS BY BEATING 2 HF. INPUT-PULSE FREQUENCIES AGAINST EACH OTH
XBT DATA ACQUISITION BRIDGE CCT, PROVIDING FOR TEMPERATURE & TEMPERATURE GRADIENT MEASUREME
DETECTOR CCT/VMOSET. MODULATOR
CCT TO GENERATE HEATER CURRENT USING 2 HEXFET. POWER TRANSISTORS TO ACHIEVE CONSTANT VOLTAGE
METAL DETECTOR SYSTEM BASED ON SIMPLE COMMON-EMITTER TRANSISTOR OSCILLATOR, WITH OUTPUT FRE
CCTS WITH LED. & BUZZER ADDED TO IR. RECEIVER MODULE'S OUTPUT (2)/40KHZ IR. TRANSMITTER/AUTOMATIC
CCT USING MECHANO-ELECTRIC TRANSDUCER (PIEZOCERAMIC BENDER) TO DETECT MECHANICAL CHANGES IN
INTEGRATOR USING HIGHER-SLEW-RATE OA. COMPENSATED FOR GAINS OF 5 OR MORE, WITH SLEW RATE OF 1
CCT SHOWING PHOTOELECTRIC EFFECT APPARATUS CONSISTING OF PHOTOCELL, ELECTROMETER, & VOLTME
CCT TO QUICKLY MEASURE INDUCTANCE OF FERRITE CORE COILS, WITHOUT RESONANT CAPACITANCE
CCT SHOWING WEIGHTED RESISTOR NETWORK FOR DAC.
CCT TO PRODUCE SPOKEN REPORT AS EACH KEY IS DEPRESSED, VOCALIZING NUMBERS & SYMBOLS ON KEYPAD
CCT TO CONVERT SERIAL PULSE STREAM OR SINUSOIDAL INPUT TO SINUSOIDAL OUTPUT AT 1-32 FREQUENCY,
CCT THAT ACTS AS COMPARATOR FEEDING INTEGRATOR TO LIMIT SLEW RATE & REDUCE NOISE OF CCT'S OUTP
ACTIVE PHOTOMULTIPLIER BASE OF SAMPLING URANIUM-SCINTILLATOR 0DEG CALORIMETER (ZDC) FOR USE AS
CCT TO DETECT CAPACITANCE CHANGES BETWEEN SENSOR PLATE & CANTILEVER, INCLUDING MIXER/6.4MHZ F

CCTS TO DEMONSTRATE HOW LEAD-LAG COMPENSATION USING COMPENSATION CAPACITOR AFFECTS HIGH-S
 CCT FOR LEAD RESISTANCE COMPENSATION & COMPLEX BALANCING OF QUARTER (0.25) & HALF (0.5), AC. OR D
 CCT INCLUDING PROBE, SWITCH, DRIVER & PREAMP. WITH GAIN OF 35DB & N.F. OF 1.6DB
 DATA-ACCESS ARRANGEMENT USING 1200-BIT-S MODEM IC & RING DETECTOR/1200-BIT-SEC FULL-DUPLEX DIAL
 OPTOELECTRONICS 2210 COUNTER 2.6GHZ AMP.-PRESCALER/PRESCALER SECTION OF COLBY INSTRUMENTS S
 CCT TO MEASURE PAIR OF PHOTOCURRENT SIGNALS FROM POSITION-SENSITIVE PHOTODETECTOR (PSD) TO D
 CCT TO MEASURE TRACKING ERROR OF GANGED POTENTIOMETERS, WITH ACCURACY OF BETTER THAN 1%, US
 CCT SHOWING HOW 30-TUNE MELODY UP. CAN BE USED FOR DOOR-CHIME/CCT TO INCREASE VOLUME
 KATHAROMETER FEEDBACK BRIDGE CCT CONSISTING OF WHEATSTONE BRIDGE & DIFFERENTIAL AMP.
 CCT THAT CAN BE USED TO KEEP AMBIENT INDOOR LIGHT LEVEL CONSTANT/LED. BRIGHTNESS CONTROLLER
 AUTOMATIC CONTROL CCT (AMP. CCT)
 ASTABLE MULTIVIBRATOR WITH TRI-COLOR LED.S TO TELL WHAT IS HAPPENING IN CCT
 EXTERNAL-MICROPHONE CCT THAT ALLOWS USE OF HIGH-IMPEDANCE MICROPHONE WITH ICOM IC-2AT TRANS
 CCT EMPLOYING CURRENT GENERATOR, VOLTAGE AMP. USING LOW-NOISE IA., WINDOW COMPARATOR, & PEAK
 ULTRAFAST HYBRID COUNTER CCT USING NOVEL DECODING TECHNIQUE TO CONVERT BCD. INTO BINARY (BB)
 GATED BASE-LINE RESTORER USING DIGITAL MEMORY IN FEEDBACK LOOP (PATH) TO ELIMINATE "DROOP" RATE
 ACTIVE LOOP ANTENNA USING JFET. BUFFER AMP. WITH HIGH IMPEDANCE, TO IMPROVE RECEPTION ON LONGW
 WATER-STILL CCT FEATURING SWITCHING ON & OFF, TEMPERATURE DETECTOR & DETECTOR FOR HEATER FAIL
 ACTIVE DIVIDER-PHASE SHIFTER INCLUDING AMP. WITH GAIN OF 100, SUMMING AMP., CONTROLLED SOURCE, DI
 CCTS TO MONITOR PHOTODIODE OUTPUT AS VOLTAGE OR CURRENT (2)/CURRENT-TO-VOLTAGE CONVERTER/C
 ACTIVE ANTENNA USING FET., WITH HIGH 2ND-ORDER IMD./ACTIVE ANTENNA CCT USING 2 FET.S IN PUSH-PULL C
 CCT TO CORRECT BASELINE DRIFT ENCOUNTERED WHEN USING PEN RECORDERS TO MONITOR TRANSDUCER
 CCT TO RETIME RTZ (RETURN-TO-ZERO) DATA, TO MAKE THEM SUITABLE FOR NRZ. SYSTEMS, USING REPEATER
 BATTERY TESTER (SENSING CCT) THAT RAPIDLY DISCONNECTS BATTERY VOLTAGE & LOAD WHENEVER VOLTA
 DETECTOR USING FAIRCHILD PHOTOTRANSISTOR CONNECTED TO 6V DC. PS. THROUGH LOAD RESISTOR, WITH
 CCT USING PAIR OF MATCHED JFET.S TO PRECISELY CONTROL GAIN (WITHIN 40DB RANGE) OF 3-OA. IA. WITH UN
 CCT TO PRODUCE FM.-ATV ON 23CM USING PLESSEY PLL.ED CHIP, INCLUDING PREEMPHASIS CCT TO INCREASE
 ULTRA LOW-NOISE HIGH-INPUT IMPEDANCE AMP. (ULNA.) USING TOSHIBA PARALLELED FET. MATCHED PAIR AS
 OPTICAL ISOLATION (OI) OA. TO MEASURE SECONDARY EMISSION CURRENTS IN 10^{-11} - 10^{-6} A RANGE AT +-1000
 CCT USING HV., HIGH-CURRENT, QUADRUPLE SWITCH TO INCREASE POWER HANDLING OF CENTRONICS ANALO
 CCTS TO POWER LASER DIODE, ITS THERMOELECTRIC COOLER & PHOTODIODE (FOR MEASURING OUTPUT POW
 CCT TO GET BIPOLAR OUTPUTS FROM SINGLE-SUPPLY AMP., PROVIDING OPERATION AT DC. & DOWN TO 1.5V, U
 CCT TO TRANSFORM OUTPUT CURRENT OF PHOTODIODE INTO VOLTAGE SIGNAL/IMPROVED HIGH-SPEED CCT (S
 CCT USING ELECTROMETER-TYPE OA. WITH LOW INPUT BIAS CURRENT) & PHOTODIODE, TO MEASURE PHOTOC
 CCT USING 2 PHOTOSENSORS TO DEMONSTRATE STANDING WAVES
 AUTOMATIC FILLING SYSTEM (ICE HEIGHT SENSOR TO CONTROL LIFTING SYSTEM) CONTROLLED BY SENSOR US
 CCT CONSISTING OF DARLINGTON TRANSISTOR DRIVING LED., OF LOW-COST 16-LED. LOGIC MONITOR THAT CHI
 CCT FOR ACTIVE TRANSISTOR-STABILIZED BASES USED WITH PMT.S OF MK II & III NAI'S, INCLUDING VOLTAGE ST
 BATTERY-POWERED VOLTAGE REFERENCE/IA./CURRENT MONITOR/4 TO 20MA TRANSMITTER/CCT PROVIDING TR
 ACTIVE QUENCHING-PASSIVE RESET CCT TO PRODUCE LOW IMPEDANCE OUTPUT PULSES, USING ULTRA-FAST
 CCT TO INCREASE DISTORTION BY PRECISE 101 TIMES, WHILE LEAVING SIGNAL INTACT/CURRENT-OUTPUT DAC
 CCT USING MOTOROLA SMARTPOWER IC CONTAINING CHARGE PUMP TO DRIVE SOLENOID & INCANDESCENT LA
 CCT USING NEC 6-CHIP SET TO TAKE FLICKER OUT OF NTSC., USING INTERFRAME Y-C SEPARATION, PROCESSIN
 CCT USING CHARGER CHIP, PROVIDING CHARGING CURRENTS TO 1.5A/CCT TO CHARGE 4-12 NICD. OR NIMH CE
 CCT TO TEST TRIQUINT SEMICONDUCTOR HIGH-SPEED GAAS. DRIVER WITH DIFFERENTIAL OR SINGLE-ENDED IN
 MATCHING NETWORK USING LC. COMPONENTS
 BATTERY ENERGY STORAGE (BES) SYSTEM INCLUDING CONVERTER (USING POWER MOSFET.S), & PWM. CURRE
 CCT TO MEASURE ANALOGUE SIGNALS WITH ADC. SCHEME USING VCO. TO CONVERT OUTPUT OF SOIL HUMIDIT
 CCT TO PRODUCE MODULATING SIGNAL/CCT TO PROVIDE AM./CCT WITH FM. CARRIER OUTPUT/CCT USING PLL.

ACTIVE DUMMY LOAD USING 15KOHM POTENTIOMETER TO VARY CURRENT FLOW THROUGH 4 POWER MOSFET.
 CCT THAT USES SRD.S THAT ACT LIKE CHARGGE-CONTROLLED SWITCHES, TO GENERATE 40V, 1NS PULSES FRO
 CCT SHOWING CORRECTION TO ERROR IN STABLE HEXFET. RF. POWER AMP. INCLUDING TRANSFORMER THAT
 CCT THAT PROVIDES LINEAR RAMP, INCLUDING CONSTANT CURRENT SOURCE, COMPARATORS & SR FF./REMAIN
 CCT TO BIAS N-CHANNEL ENHANCEMENT-MODE HEXFET. DURING IRRADIATION (IONIZING RADIATION TESTING)
 CCT TO CANCEL OFFSET OF EXAR OSCILLATOR, USING LPF.-INTEGRATOR INCLUDING FILTER AMP. USING OA., &
 CCT THAT PRODUCES OUTPUT VOLTAGE PROPORTIONAL TO LOGARITHM OF RATIO OF CURRENTS AT INPUTS
 CCT TO INTERFACE ROBOT TO PC. USING DRIVER CCT WITH LOGIC INPUT TO MOTOR CONTROLLING PLATFORM
 CCT CONSISTING OF RESISTANCE MULTIPLIER THAT CREATES APPARENT HIGH RESISTANCE VALUES TO LET LF
 CCT USING D-TYPE FF. & OA. TO DETECT LOCK CONDITION OF PLL. CONSISTING OF BALANCED PHASE COMPARA
 CCT USING INTERSTATE ELECTRONICS CORP.'S VOICE RECOGNITION CHIP IN TYPICAL HIGH-VOLUME CONSUME
 CCT TO SYNCHRONIZE PULSED VALVE TO BEAM CHOPPING DISK, (BBB)/ELECTROMETER CCT FOR FAST ION GAU
 FET. OUTPUT STAGE/BIDIRECTIONAL MOTOR-SPEED CONTROLLER (2)/TACHLESS CONTROLLER/FAN-TEMPERATI
 CCTS FOR MCP. BIASING, SIGNAL DECOUPLING & PREAMPLIFICATION, USING GALILEO RECTANGULAR MCP. & LE
 CCT FOR DIFFERENTIAL PHOTOACOUSTIC MEASUREMENTS, USING PAR AMP. & 2 KNOWLES MICROPHONES (TRA
 CCT TO GENERATE PULSE TRAIN WHOSE PERIOD IS PROPORTIONAL TO INPUT CURRENT OR VOLTAGE MAGNITU
 CCT THAT ATTACHES TO TRANSCEIVER & SENDS PREPROGRAMMED CALLSIGN IN CODE
 CCT USING MOSFET. DRIVERS TO PROVIDE DRIVE TO QUASI-COMPLEMENTARY POWER-MOSFET. SWITCHING AM
 ANTIREVERSAL PROTECTION CCT USING N-CHANNEL MOSFET. & RESISTOR, THAT REDUCES VOLTAGE LOSS AS
 CCT TO DETECT CORE SATURATION IN FLYBACK SMPS.S BY MONITORING MOSFET. DRAIN POTENTIAL
 DATA (TELECOMM) TRANSCEIVER PROVIDING DATA RECEPTION, DATA TRANSMISSION & CLOCK RECOVERY FOR
 CCT TO DETECT 480HZ DISTINCTIVE DIALTONE (STATUS TONE FOR PABX.'S SPECIAL FEATURES SUCH AS TRANS
 CCT TO PROVIDE SQUARE-, TRIANGLE- OR SINE-WAVE OUTPUT, USING EXAR FUNCTION GENERATOR IC/FREQUE
 MOTION-DETECTION SYSTEM TO SOUND AUDIBLE ALERT, INCLUDING PS.-SOUND-GENERATION & IR. DETECTION
 CCT USING 2 TRANSCONDUCTANCE AMP.S WITH CONTROLLED-IMPEDANCE BUFFERS, TO SIMULATE SINGLE-ENI
 ANTENNA RELAY CCTS (2)/RF. AMP.
 CCT TO OPERATE N-CHANNEL POWER MOSFET. IN PARALLEL WITH TERMINALS OF ELECTROMECHANICAL RELAY
 CCT TO CONNECT VCC TO MEMORY ONLY WHEN SUPPLY VOLTAGE IS PRESENT, & PROVIDE BATTERY BACKUP
 CCT USING 2 PROGRAMMABLE TIMERS CASCADED TO EXTEND TIMING PERIOD OF AC. OUTLET TO SEVERAL DAY
 GATE CCT OF MOSFET., SHOWING RFI. (PULSE) (SURGE) RECEIVER LOOP RESULTING FROM ACCIDENTAL TUNIN
 CCT FOR SWITCHING OF CURRENT PULSES FOR GENERATION OF MAGNETIC FIELD GRADIENTS/LOGIC CONTROL
 CCT USING HEXSENSE MOSFET. IN RESISTOR-SENSING CCT, WITH 1-SHOT MULTIVIBRATOR FOR DELAY, TO LIMI
 CCT THAT INDICATES LV. CONDITION OF 4.5V BATTERY BY FLICKERING LED., USING MICROPOWER TIMER ARRAN
 CCT THAT GENERATES SAWTOOTH & SHORT DUTY CYCLE PULSE WAVEFORMS
 CCT SHOWING MONOSTABLE MODE OF XR-2243 TIMER
 CCTS SHOWING HOW TO DRIVE MOSFET.S FROM HIGH-SPEED LOGIC CCT (3)
 CCT TO LIMIT INRUSH CURRENT TO FILTER CAPACITORS BY USING RESISTOR IN PARALLEL WITH POWER FET.
 CCT FOR ACTIVE-QUENCHING OPERATION OF SPAD (SINGLE-PHOTON AVALANCHE DIODE)/CCT FOR PASSIVE-QU
 CCT USING POWER MOSFET. TO OPERATE RELAY FOR TR. CONTROL/CCT USING TRANSISTOR SWITCH TO SUPP
 DATA CAPTURE ADAPTER TO BE USED WITH IBM PC.-XT MICROCOMPUTER, TO CAPTURE & PROCESS DATA SHIF
 DATA PROCESSOR & ADDRESS GENERATOR FOR IMPLEMENTING POWERFUL SUPERMINICOMPUTER/CPU. FOR S
 CCT TO MAKE Z80 UP. READ OPERATIONS OBTAIN DATA FROM ANOTHER PROCESSOR, BUT WRITE OPERATIONS
 CCT IN WHICH 8-BIT BINARY CODED DIGITAL INPUT IS CONVERTED INTO NEGATIVE VOLTAGE/CCT FOR BLOCKING
 CCT FOR TEMPERATURE MEASUREMENT OF LASER-HEATED SILICON, USING SH. CCT, MULTIPLIER, 10-BIT ADC.,
 CCT USING CMOS. INTEGRATING ADC./CCT USING DIODE AS TEMPERATURE SENSOR/DIGITAL THERMOMETER/C
 CCT TO INTERFACE ELECTRONIC SHUTTER FROM EALING 23-1993 TO FT.-IR. COMPUTER, CONVERTING ANALOG
 CCT TO DETECT "NEW" OR "PRECISE" CALL-PROGRESS SIGNALS (TONES), USING SILICON SYSTEMS CHIP, WITH
 CCT TO MEASURE & DISPLAY RH., INCLUDING FREQUENCY-TO-VOLTAGE CONVERTER, ADC., LCD. BAR GRAPH &
 1ST-STAGE LNA. OF INSTRUMENT TO MEASURE CONTACT RESISTANCE WITH LOW CURRENTS OF 0.1-100UA, WIT

CCT TO PROTECT CPU., USING HNEED (HYBRID NUCLEAR-EVENT DETECTOR) TO FORCE IT INTO RESET CONDITION
 CCT TO CONTROL MEMORY, WITH 2 IC'S SELECTING RAM. & EPROM. ACCORDING TO FENCE-ADDRESS POSITION
 SIT PWM. INVERTER TO LINK SOLAR BATTERY WITH UTILITY AC. POWER LINE, WITH COMPENSATION OF REACTIV
 INTERFACE CARD TO ALLOW IBM PCJR TO COMMUNICATE WITH ROLAND MPU-401 IBM PC. MIDI. INTERFACE, THA
 CCT TO MANAGE KEYBOARD, COM PORT & POWER OF IBM-COMPATIBLE PC.-XT OR AT COMPUTER UNDER REMO
 CCT USING PRECISION LEVEL DETECTION IC FOR AUDIO APPLICATIONS, FEATURING LINEAR, LOGARITHMIC, TRU
 CCT USING SPEED CONTROLLER IC TO MAINTAIN 3-PHASE DC. MOTORS' SPEED AT 3600 RPM., & TO BRING THEM
 POTENTIAL CONTROLLER CCT FOR PD-PDO SENSOR FABRICATION/DIFFERENTIAL AMP.-ADC. CCTS TO MONITOR
 CCTS SHOWING USE OF DALLAS SEMICONDUCTOR DEVICE THAT PROVIDES POWER-UP-DOWN PROTECTION BY
 CCT TO PROVIDE DYNAMIC BALLAST, USING VMOSFET.S TO PROVIDE CONSTANT-CURRENT SOURCE, USE FOR S
 CCT DESIGNED FOR OPERATION OF DIFFERENCE DETECTOR (DIFFERENCE DETECTOR, IMPEDANCE TRANSFORM
 CCT TO INTERFACE ADC. TO SERIAL DATA LINK AT ANY RATE THROUGH USE OF FIFO. REGISTER
 CCT SHOWING CONVERSION OF PASS A40 POWER AMP. TO HITACHI MOSFET.S THAT REPLACE DARLINGTON OU
 CCT FOR AUTOMOBILE ANTI-THEFT LOCK
 CCT FOR DIRECT READOUT OF PHASE-ERROR INFORMATION, USING DIVIDE-BY-16 COUNTER & QUAD FF. (BBB)
 CCT USING REGULATOR IC THAT KEEPS PERIPHERAL CCTS ON STANDBY, SHUTTING CONTROLLER DOWN IF IN T
 CCT SHOWING PHOTODIODE CONNECTED TO HYBRID CURRENT-TO-VOLTAGE PREAMP. WITH FAST (2NS) RISE T
 CCT FOR LOGIC-ACTIVITY TESTING OR RANDOM SOFTWARE-HARDWARE GLITCH DETECTION, USING MEMORY F
 CCT ACTIVATED BY SENSOR SIGNALS, WHICH THEN ACTIVATES SIGNAL-CONDITIONING AMP. BY DERIVING VCC
 AUTOMATIC FISH FEEDER USING PROGRAMMABLE DELAY TIMER THAT PROVIDES 12HR DELAY AFTER WHICH MO
 1-TUBE REGNERATIVE VACUUM TUBE RADIO RECEIVER THAT FEEDS 1-TUBE RESISTANCE-COUPLED AUDIO AMP
 CCT TO CONNECT RTC. USING CLOCK CHIP TO MEB MEMORY AREA OF COCO VIA COCO BUS OR INSIDE COMPUT
 CCT USING AMD GAAS. G-TAXICHIP SET INCLUDING MUX., TRANSMITTER, RECEIVER & DEMUX., TO HANDLE SERI
 LITZ (LONG TONE ZERO) DECODER THAT IS INSTALLED IN SPEAKER LEAD, WITH NO MOD.S TO RECEIVER, USING
 CCT USING 16-BIT DELTA-SIGMA ADC. CONFIGURED TO OUTPUT CONVERSION WORD ONLY WHEN ADC. IS POLLE
 CCT TO MONITOR AC. FLOW IN CABLES USING LINEAR HALL-EFFECT DEVICE
 CCT TO GENERATE INTERRUPT ON EACH TRANSITION OF RPM. & TEMPERATURE INPUT SIGNALS TO MCS-48 UP.
 CCT TO ENABLE IBM PC.'S KEYBOARD TO BE USED LONG DISTANCES FROM MAIN MACHINE, USING BALANCED LI
 CCT USING FF. WITH Q & Q-BAR OUTPUT SIGNALS (BBB)
 BATTERY-POWERED AF. DIGITAL FREQUENCY METER RUNNING AT 3 CONVERSIONS PER SECOND, USING DUAL-
 CCT USING XOR GATE, SINGLE SHOT, FF. & RC. NETWORK, TO PROVIDE VARIABLE DELAY FOR POSITIVE & NEGA
 CCT TO MONITOR MOTOR'S ARMATURE CURRENT & VOLTAGE/CCTS FOR CURRENT-LOOP TRANSMISSION & REC
 CCT USING USER SELECTABLE 10-12-14-16-BIT ANALOG DEVICES MONOLITHIC TRACKING RESOLVER DIGITAL CO
 CCT TO DERIVE VERTICAL & HORIZONTAL SYNC PULSES FROM VIDEO COMPOSITE WAVEFORM, & PRODUCE FIE
 CCT USING CHOPPER-STABILIZED OA. THAT INCORPORATES ERROR-HOLDING CAPACITORS, HAS 15UV OFFSET
 CCT USING SERIAL-PARALLEL CONVERTER THAT ACCEPTS DATA FROM VIA. SHIFT REGISTER & DRIVES 2 DISPLA
 CCT FOR THRESHOLD DETECTION AND PULSE GENERATION/HV. SWITCHING CCT (POCKELS CELL DRIVING CCT)
 CCT TO TRANSFER BIDIRECTIONAL DIGITAL DATA OVER SINGLE COAXIAL CABLE TO 20M BY USING CMOS. LINE F
 CCT USING 64 ELEMENT LINE SENSOR (PIXEL ADDRESSED LINE ARRAY)/CCT THAT PROVIDES ROTARY POSITION
 CCT THAT CONNECTS READ-WRITE HEADS & MOTOR OF FLOPPY-DISK DRIVE TO CONTROLLER (BBB)
 CCT TO RESTORE DC. COMPONENT TO RECEIVED RADIO SIGNALS, USING DUAL LINE RECEIVER/SYNCHRONISAT
 CCT USING ANTIALIASING FILTER ACCURATE TO 12 BITS, WITH STOPBAND ATTENUATION OF -76DB & DIGITALLY
 CCT USING CPU. WITH MEMORY-MANAGEMENT, FLOATING-POINT & TIMING-CONTROL UNITS WITH WAIT-STATE G
 MOTOR-SPEED CONTROL CCT USED IN J.C. PENNY MODEL 6541 CASSETTE RECORDER/RECORD OSCILLATOR CO
 CCT WITH 'LORENZ' ATTRACTOR, USING CURRENT & VOLTAGE NIC.S, WITH ALL ELEMENTS LINEAR EXCEPT FOR
 CCT TO CHANGE RATIO OF DUAL-MODULUS DIVIDER/FREQUENCY SYNTHESISER/MOSFET. VCO. USING VARACTO
 OUTPUT CCT USING GTO. THYRISTOR AS SWITCHING DEVICE FOR DEFIBRILLATOR PULSE OUTPUT, & HV. TRANS
 CCT THAT STORES ENERGY IN INDUCTOR &, ON COMMAND, RAPIDLY TRANSFERS ENERGY TO ANOTHER INDUCT
 CCT THAT PROVIDES INDICATION OF CLIP BY SENSING ABRUPT RISE IN FEEDBACK AS POWER AMP. MOVES INTO

CCT USING CHOPPER-STABILIZED OA./DATA RETRIEVAL SYSTEM THAT SENSES THERMAL CHANGES AT REMOTE
CCT THAT PERFORMS REAL-TIME RECOGNITION OF 1 OR MORE BITS ACCORDING TO QUALIFYING CONDITION (B
CCT TO GIVE DIRECT READING OF MAGNETIC FIELD BY CONVERTING FREQUENCY OF NMR. MAGNETOMETER, U
CCT SHOWING RELAY/CCT SHOWING HIGH B POSITIVE & NEGATIVE VOLTAGES FOUND IN HIGH-POWERED AMP.S
CCT TO DETERMINE LOCATION OF FLOATING-POINT NUMBER'S MSB., TO ALLOW UP. TO QUICKLY NORMALIZE N
CCT SHOWING REVISED PORTIONS OF MR. BORBELY'S 60W MOSFET. AMP., TO ELIMINATE HF. OSCILLATION PRO
CCT SHOWING MOD.S TO DC 100 MOSFET. AMP. OR SERVO 100 AMP. CCT, TO ELIMINATE OSCILLATION & IMPROV
CCT CONTAINING 2 D-TYPE REGISTERS, WITH CLOCK PERIOD OF 100.0NS (BBB)
CCT USING LSI COMPUTER SYSTEMS MASK-PROGRAMMABLE MELODY CHIP THAT HOLDS 255 NOTES IN PROM., T
CCT USING WATCHDOG REGULATOR, LETTING UP. TURN ITSELF OFF (SHUT ITSELF DOWN), USING FEWER COMP
INTERFACE
CCT SHOWING CONNECTION OF MMU (MEMORY MANAGEMENT UNIT) TO CPU., CLOCK GENERATOR & SYSTEM B
INTERVAL-DIGITAL CONVERTER WHOSE DATA OUTPUT ARE SENT TO COMPUTER, IN WHICH CLOCK PULSES ARE
CCT SHOWING SERIES TERMINATION OF SIGNAL LINES/CCT SHOWING CONNECTIONS TO ANALOG DEVICES COL
GATE DRIVE CCT OF POWER MOSFET. SWITCH OF 60W CUK BOOST-BUCK CONVERTER, INCLUDING DUAL DRIVEN
CCT SHOWING MOSFET. MOD. FOR DYNA ST-120 AMP., INCLUDING COMPLEMENTARY MOSFET. OUTPUT TRANSIS
AUTOMATIC DIMMING CCT USING LIGHT-TO-FREQUENCY CONVERTER/DIGITAL LIGHT METER USING DISPLAY CO
CCT TO ANALYZE SIGNALS WITH FREQUENCY COMPONENTS TO 500KHZ, USING 12- & 16-BIT FAST ADC.S
1ST ORDER DIGITAL FILTER (BBB)
WATCHDOG CCT THAT BRIEFLY RESETS UP. AFTER SINGLE FAULT, & RESETS & HALTS UP. AFTER 2 CONSECUTI
CCT USING DC.-TO-DC. CONVERTER WITH 1 OSCILLATOR TO DRIVE PRIMARIES OF ISOLATED TRANSFORMERS/C
OPTICAL DATA REGENERATOR IC APPLICATIONS CCT (140MHZ PCM. OPTICAL TRANSMISSION SYSTEM) USING SI
ACTIVE CP (CIRCULARLY-POLARISED) DRA (DIELECTRIC RADIATOR ARRAY) INCLUDING 4 RESONATORS & 90DEG
CCT TO STEP INTERFEROMETER MIRROR (CCT TO CONTROL MIRROR MOTION), WITH ENABLE PULSE FROM COM
CCT TO DETECT INCORRECT MODULE ADDRESSING DUE TO BUS CLASH AS RESULT OF "SHORT" OR "OPEN" CCT
EXTREMELY SIMPLE AUTONOMOUS 2-TRANSISTOR CCT IN WHICH DOUBLE SCROLL CHAOTIC ATTRACTOR IS OB
CCT SHOWING SCAN CONTROL MOD.S COMBINING LOGIC OF AK-4 DTMF. DECODER & PRO-57 SCANNER/MOD. M
FET.-INPUT LOW-NOISE PREAMP. WITH LOW-INPUT CONDUCTANCE
CCT THAT AFFORDS DELAYS OF 330S ON POWER-UP, TAKING PS. DIRECTLY FROM MAINS, INCLUDING FET.S, BR
CCT USING DALLAS AUTO-RESET DEVICE (ECONORESET) TO MONITOR UP.'S PS. VOLTAGE & RESET UP. IF VOLT
CCT USING DUAL QUAD OA. WITH 50UA-MAX SUPPLY CURRENT FOR EACH AMP., OFFSET VOLTAGE OF 70UV MAX
MOTOR-CONTROL INTERFACE (ISOLATING CCT) THAT ISOLATES COMPUTER PORT FROM STEPPER MOTOR, USIN
CCT WHICH PREVENTS CREATION OF LARGE TRANSIENT FIELDS AT SWITCH ON BY DELAYING CONNECTION OF
CCTS SHOWING 1ST SMART SIPMOS. DEVICE SWITCHING CURRENT FOR INCANDESCENT LAMP (RESISTOR), IND
CCT THAT MEASURES CHANGES IN CHARGE ON CAPACITIVE RH. SENSOR TO DERIVE VOLTAGE PROPORTIONAL
CCT THAT USES AUDIO SUBCARRIER TONES & DTMF. RECEIVER CHIP TO SWITCH EQUIPMENT ON & OFF
ULTRA-LOW-NOISE BALANCED PREAMP. CCT WITH COMBINED NOISE & DISTORTION OF <0.028%/CCT USING SPR
CCT USING LINEAR TECHNOLOGY DUAL MICROPOWER OA.
CCT TO TRIGGER XENON FLASH TUBE (LAMP), USING SIDAC TRIGGER TO DUMP CAPACITOR'S CHARGE INTO TUB
MOTION DETECTOR CCT USING IR. SENSOR & QUAD MICROPOWER SINGLE-SUPPLY OA./RIAA PHONOGRAPH (AC
CCT THAT PRODUCES AUDIBLE TICK EACH TIME RADIATION OR COSMIC RAY PASSES THROUGH RADIATION DET
CCT FOR HV. COMMUTATION ON POCKELS CELL
CCT TO MEASURE UNKNOWN RESISTANCE VALUES TO +-0.1% BY CONNECTING THEM IN PARALLEL WITH KNOWN
CCT USING DUAL OA. THAT OPERATES FROM 5V SUPPLY & CONSUMES ONLY 50UA PER AMP., WITH OFFSET VOL
CCT USING LINEAR TECHNOLOGY CORPORATION (LTC) IC & YELLOW SPRINGS THERMISTOR WITH 26VAC. 2 WIR
CCT TO PROVIDE PROPER TRANSDUCER EXCITATION FOR BAROMETRIC PRESSURE SENSOR WHILE MINIMIZING
CCT PROVIDING HIGH-EFFICIENCY NEGATIVE VOLTAGE REGULATION, USING LOW-DROPOUT POSITIVE-VOLTAGE
CCT TO CONVERT CURRENT OUTPUT OF PHOTODIODE TO FREQUENCY/CCT TO TRACK RH./LEVEL TRANSDUCER/
BATTERY-POWERED REGULATOR CCT THAT AUTOMATICALLY SHUTS ITSELF DOWN WHEN BATTERY IS DEPLETE

CCT TO TEST BYPASS CAPACITORS/LEVEL-SHIFTING CCTS (3)/CCT USING TUNNEL DIODE TO GENERATE VERY C
 CCT USING MICROPOWER DC.-DC. CONVERTER TO PROVIDE +-5V FROM 1 ALKALINE OR NICD. CELL, OUTPUTTING
 INTERFACE BETWEEN 1167 MEMORY-MAPPED COPROCESSOR & 80386-BASED SYSTEM, INCLUDING PLD., MULTIP
 CCT FOR PARALLEL-PROCESSING (DOWNLINK) METHOD FOR DOPPLER-SHIFT FREQUENCY CORRECTION, USING
 CCT USING LOW-DROPOUT (1V) LINEAR PS. REGULATOR WITH 7.5A CURRENT OUTPUT
 MOTOR-SPEED CONTROLLER WITH HIGH SWITCHED-CAPACITOR SAMPLING RATE FOR GOOD DYNAMIC RESPON
 ULTRA-LOW-POWER (2.4UW) THERMOSTAT FOR TEMPERATURE REGULATION OVER RANGE OF +50 TO +100DEG
 CCT DEMONSTRATING SWITCHING ACTION OF 1 TRANSISTOR/SCHMITT TRIGGER/LIGHT TRIGGERED SWITCH/MO
 CCT USING LINEAR TECHNOLOGY CHOPPER-STABILIZED MONOLITHIC IA. WITH MAXIMUM TOTAL OFFSET OF 10U
 CCT THAT IMPROVES TEMPERATURE STABILITY OF CRYSTAL OSCILLATOR BY FACTOR OF 20 BY TUNING CRYST.
 CCT TO HOLD TEMPERATURE OF STABILIZED CCT WITHIN +-0.5DEG C, SENSING TEMPERATURE USING THERMIS
 CCT USING SWITCHING REGULATOR, TO DELIVER FLASH-MEMORY PROGRAMMING FUNCTION, PROVIDING CARE
 CCT PROVIDING COLD-JUNCTION COMPENSATION FOR THERMOCOUPLE/CCT THAT SENSES WHEN THERMOCOUP
 CCT USING DIGITAL NETWORK INTERFACE CHIP ACTING AS MASTER/CCT USING INTERFACE CHIP TO LINK LINE C
 CCT TO PULSE HOLLOW CATHODE LAMPS (HCL'S), CONSISTING OF HCL IN SERIES WITH VARIABLE HV. PS. & 100
 CCT USING LINEAR TECHNOLOGY SWITCHING-REGULATOR IC TO RUN OFF SINGLE-CELL 1V BATTERY WHILE USI
 CCT DEMONSTRATING SWITCHING ACTION OF TRANSISTOR/SCHMITT TRIGGER/SIMPLE LIGHT TRIGGERED SWIT
 CCT TO PROVIDE LEVEL SHIFTING & AMPLIFICATION OF VOLTAGE OUTPUT OF ELECTROLYTIC TILT SENSOR, USI
 2-TERMINAL SYNCHRONOUS RECTIFIER THAT SWITCHES AUTOMATICALLY BY SENSING CHANGE IN LOAD-CURR
 CCT TO CONVERT TEMPERATURE SENSOR'S OUTPUT TO FREQUENCY/TEMPERATURE-FREQUENCY CONVERTER
 CCT TO REPLACE FUSES OF HIGH & LOW CURRENT RATINGS BY SEMI-CONDUCTOR TRIP SYSTEM USING TRIAC
 ULTRA LNA./PRECISION 5V POWERED IA.
 MOTOR-SPEED CONTROL/VIDEO AMP.S (2)/VFC.S (3)/LEVEL SHIFTER SWITCH/CRYSTAL OSCILLATOR/VOLTAGE R
 CCT USING 1-CHIP CHOPPER-STABILIZED OA. WITH 741 OA. TO DELIVER DISGUSTING NOISE & TEMPERATURE-DR
 CCT TO MOMENTARILY INTERRUPT 0 TO 600V VOLTAGE (CHARGING POTENTIAL) TO CHARGING ELECTRODE, TO
 0 TO 5A ISOLATED CONSTANT-CURRENT SOURCE USING ANALOG DEVICES ISO-AMP. WITH ISOLATED LOAD CCT
 OPTICAL-TO-DIGITAL CONVERTER USING PHOTODIODE ARRAY, HALF-FLASH ADC. & 12-BIT DAC./PHOTODIODE-AR
 CCT USING BROOKTREE IMAGE-DIGITIZING 8-BIT 15MHZ FLASH ADC. INCLUDING ON-CHIP LOOKUP TABLE, 4-CHA
 ALTERNATIVE 2 TERMINATION CCT ADOPTED BY SCSI.-2 COMMITTEE, USING 1 110OHM PULL-UP RESISTOR PER
 CCT USING FAST JFET.-INPUT IA. WHOSE OUTPUT SLEWS 20V AT BETTER THAN 25V-US, WITH SETTTLING TIME OF
 CCT USING SWITCHING (SWITCH-MODE) REGULATOR, TO CONVERT POWER IN 1.1V BATTERY TO 5V AT 40MA/CC
 CCT SHOWING UP. ADDRESSING BT110 OCTAL 8-BIT DAC./WINDOW COMPARATOR
 CCT SHOWING GENERATION OF DATA & ADDRESS LINES/CORRELATOR CONTROL & 'PUNCH' OF STORE DATA
 OPTO-ISOLATED HV. DRIVER
 CCT USING MULTIPLIER & ALU. MAPPED INTO MEMORY, TO ADD HIGH-SPEED COPROCESSING TO 80386 UP. (BBE
 CCT TO TEST DYNAMIC CURRENT SHARING, TO OBSERVE EFFECTS OF MATCHING OR MISMATCHING FET.S/450V
 D.T.N. WILLIAMSON'S POWER AMP. OF 1947
 CCT USING ULTRA-ZENER THAT CONTAINS BURIED ZENER JUNCTION & HEATER, INCLUDING OA., RESISTOR THA
 WATER-LEVEL DETECTOR THAT ENERGIZES MUSICAL CHRISTMAS CARD TO SIGNAL LOW WATER LEVEL IN CHRIS
 ULTRA-ZENER CCT USING IC CONTAINING BURIED ZENER JUNCTION, HEATER & 2 SENSING TRANSISTORS, MEET
 CCT USING MAXIM SWITCHING REGULATOR WITH EFFICIENCY >90% FOR LOAD CURRENTS FROM 2 TO 225MA/SY
 CCTS FOR UPSCALING & DOWNSCALING WITH OFFSET REMOVAL (2)/CCTS FOR UPSCALING & DOWNSCALING WI
 BATTERY-OPERATED CCT THAT ALLOWS UP. CONTROL OF UP TO 6 N-CHANNEL MOSFET.S, BASED ON UNIVERSA
 CCT USING RAYTHEON OA. WITH ULTRA LOW OFFSET VOLTAGE OF 15UV MAXIMUM & LOW OFFSET DRIFT, IDEAL
 CCTS SHOWING TYPICAL APPLICATIONS OF LINEAR TECHNOLOGY & MAXIM DEVICES THAT CAN SWING RS-232 V
 CCT OF OPTICAL DENSITOMETER, INCLUDING VATEK PHOTOCCELL (PHOTODETECTOR), LIGHT BULB, VELONIX DP
 CCT SHOWING DC. BIASING OF AVANTEK TRANSISTOR/432MHZ LNA. WITH NF. OF 1.5DB & GAIN OF 13.26DB, INCL
 CCT USING LINEAR TECHNOLOGY CHOPPER-STABILIZED IA. WITH <2UV OF ERROR, MAXIMUM OFFSET DRIFT OF
 CCT USING POWER BUFFER IN FEEDBACK LOOP OF NEGATIVE VOLTAGE REFERENCE, TO BOOST OUTPUT CURR

CCT USING POWER MOSFET. (AS RESET SWITCH) TO RESET INTEGRATING CAPACITOR OF SINGLE-SLOPE ADC. T
CCT TO CONVERT OPTICAL SIGNAL & AMPLIFY IT, USING EG&G OPTICAL DEVICE CONSISTING OF PHOTODIODE I
2-TONE PULSING & WARBLING SIREN CCT SIMILAR TO BRITISH HEE-HAW POLICE SIREN
BATTERY BOOSTER REGULATOR TO DELIVER 50A AT 52V WITH POWER FROM BATTERY WHOSE VOLTAGE CAN V
CCT SHOWING OUTPUT DRIVER DELIVERING HIGH CURRENT TO COLOR SHUTTER
CCT TO CONDITION & STEP UP VOLTAGE OF SONAR TRANSMIT SIGNAL/CCT TO RECEIVE, FILTER & AMPLIFY REF
CCT USING INDUCTION MOTOR ENERGY SAVER TO ELIMINATE POWER WASTE WHEN MOTOR OPERATES BELOW
INTERCHANNEL COMPARISON CCT/SUMMING, ENERGY TO TRANSVERSE MOMENTUM CONVERSION & OFFSET C
CCT FOR DRIVING ELECTROLUMINESCENT FLAT-PANEL DISPLAY CONTAINING QUARTER-MILLION PIXELS
CCT TO TEST PRINCIPLE OF OPERATION (CAPACITANCE CHANGE) OF VOLTAGE-VARIABLE CAPACITORS (VVC'S)
CCTS SHOWING OPTIONS FOR INPUT & OUTPUT CCT OF TRANSMITTER (3)/SAME OF RECEIVER (2)/96-CHANNEL F
CCT THAT FUNCTIONS AS PEAK DETECTOR & FILTER TO REDUCE NOISE SPIKES ON POWER LINE, TO REDUCE P
CCT CONSISTING OF HV. PS., ENERGY STORAGE CAPACITOR, & DISCHARGE CCT CONSISTING OF CAPACITANCE
CCT TO OBSERVE PERIOD DOUBLING OF VOLTAGE SIGNAL, CONSISTING OF INDUCTOR IN SERIES WITH VARACT
CCT USING MONOLITHIC ANALOG SWITCH & OA., THAT REDUCES ERROR CAUSED BY SERIES ON RESISTANCE
SATELLITE DOWNCONVERTER THAT CONVERTS 3.7-4.2GHZ SIGNAL FROM LNA. TO 70MHZ IF. SIGNAL, INCLUDING
ULTRA-FAST MOSFET. SHUNT CCT OF REVERSE-BIAS SOA. (RBSOA) (2ND BREAKDOWN) TESTER/GATE DRIVE CO
CCT FOR CRO. (OSCILLOSCOPE) USED WITH APPARATUS TO MEASURE SPEED OF LIGHT, INCLUDING VACUUM P
CCT FOR TEMPERATURE CONTROL & DIGITAL READOUT OF CURRENT & TARGET TEMPERATURES TO ACCURAC
CCT TO OBTAIN 4 CHANNELS OF HIGH PRECISION, BUFFERED VOLTAGE FROM OUTPUT OF 1 14-BIT DAC., USING
INTELLIGENT, FULLY ISOLATED, SOLID-STATE AC. RELAY (SSR.) WITH RESETTABLE 10A ELECTRONIC FUSE, CAP
NETWORK INTERFACE CONTROLLER USING MICROCONTROLLER IN CONJUNCTION WITH MEMORY ADDRESS DIR
CCT SHOWING IMPLEMENTATION OF FIFO. BUFFER USING SINGLE-CHIP FIFO. RAM. CONTROLLER (FRC) & HIGH S
CATHODE PREAMP. FOR CATHODE PAD, WITH GAIN OF 200MV-PC/PULSE-SHAPING CATHODE POST-AMP. CONTA
DATA CONCENTRATOR
DATA CONCENTRATOR TO SPARE MAINFRAME FROM HANDLING INDIVIDUAL CHARACTER BYTES, ARRIVING FRO
CCT TO MUX. 2 ANALOG SIGNALS FOR DISPLAY BY TRACE CHOPPING ON FAST CRO., USING SCHOTTKY RING DIC
CCT USING "SMART" POWER-CONTROL SUBSYSTEM TO LINK PROCESSOR WITH POWER LOADS & SENSORS, PAS
CCT SHOWING CLOCK & PS. REQUIREMENTS FOR SIGNETICS 8X300 UP./TYPICAL SYSTEM CONFIGURATION SHO
CCT SHOWING CLOCK & PS. REQUIREMENTS FOR SIGNETICS 8X300 UP./TYPICAL SYSTEM CONFIGURATION SHO
CCT SHOWING DATA FLOW IN SIGNETICS 8X300 MICROCONTROLLER (8-BIT BIPOLAR UP.) SYSTEM INCLUDING RO
OCTAL DAC. SUPPLIED WITH UNREGULATED 10V BY VOLTAGE-DOUBLER CHARGE PUMP, ENABLING CONVERTER
OCTAL DAC. CCT THAT OPERATES ON 5V & PROVIDES 8 DIGITALLY-ADJUSTABLE OUTPUT VOLTAGES, INCLUDING
CCT OF TEST FIXTURE FOR LOW POWER SAW. STABILIZED MONOLITHIC PULSE AM. MICROTRANSMITTER, WITH I
CCT TO EXTEND RANGE OF SOUND GENERATOR CHIP TO 62.5KHZ & ENVELOPE ATTACK-DECAY TIMES TO MINUT
CCT THAT LETS SERVO SYSTEMS SURVIVE BURSTS OF INCREMENTAL-ENCODER FEEDBACK SIGNALS WITHOUT
INTERFACE BETWEEN MCA. & COMPUTER, INCLUDING 4-BIT DECIMAL-TO-BINARY ENCODER & UART./STROBE-DE
DATA-RATE SELECTOR & UART. OF COMM-80 SERIAL & PARALLEL INTERFACE/SECTION SHOWING CONNECTIONS
CCT USING 1 GENERAL INSTRUMENTS IC, TO PROVIDE 10 BLACK-&-WHITE ACTION VIDEO GAMES FOR NTSC. (52
MOTOR CONTROLLER WHOSE INPUT SIGNALS ARE DERIVED FROM PC. & WHOSE OUTPUT SIGNALS PROVIDE CO
NITROGEN LASER USING EG&G THYRATRON & 20KV HV. SOURCE
CCT TO RUN GENERAL INSTRUMENT COMPLEX SOUND GENERATOR FROM COMMODORE PET'S PARALLEL USER
CCT USING UART., TO MATCH (INTERFACE) 600-BAUD TRS-80 COLOR COMPUTER TO 300-BAUD PRINTER
CCT USING DUAL-PORT SRAM. THAT ALLOWS 2 UP.S TO ACCESS DATA AT DIFFERENT SPEEDS, WITH INTERNAL I
CCTS TO REPLACE REGULATOR ON MOTORCYCLE WHEN ORIGINAL COMPONENT FAILS (2)
SOUND SCRAMBLER-DESCRAMBLER FOR RADIO OR TELEPHONE VOICE MESSAGE OR CASSETTE TAPE, USING B
TRUE-READING DIGITAL-READOUT ENGINE TACHOMETER USING DIGITAL-COUNTER & PLL. CCTS
SOUND-ACTIVATED, SOUND-SELECTIVE AC. OUTLET THAT SOUNDS ALARM WHEN INTRUDER IS HEARD
TOUCH-CONTROLLED SWITCH USING HIGH INPUT IMPEDANCE OF CMOS. HEX INVERTER GATE, THAT USES BODY

TOUCH TONE (DTMF.) GENERATING (TELEPHONE DIALING) CCT (INTERFACE) INCLUDING TONE GENERATOR, LAT
TOUCH (PLATE) SWITCH TO TURN ON LAMPS, ETC./TIMER
CPU. OF INSTRUMENT TO SIMULATE MULTIPATH FADING, USING UP./PARALLEL IO. CCT/ANALOG INTERFACE INCI
CLUSTER FINDING LOGIC TO COMPACT DATA RECEIVED FROM FADC. MODULES, COMPARING DATA WITH THRES
SQUARE WAVE CHOPPED CONSTANT CURRENT SOURCE OF PHOTOMETER, FOR LED./DETECTOR, AMP.S, DEMO
SQUARE-WAVE GENERATOR/VCO.S (4)/SIREN/PHASOR-SOUND GENERATOR/FM. GENERATOR/RUN-DOWN CLOCK
CPU. & DRIVER CCTS OF LOGIC ANALYZER THAT IS COMBINATION DIGITAL STORAGE OSCILLOSCOPE (DSO) & 8-C
TOUCH-ACTIVATED ELECTRONIC BUG THAT GENERATES DITS AUTOMATICALLY & OPERATES WITH MOST SOLID-
TOUCH SWITCH/SINEWAVE-TO-SQUAREWAVE CONVERTER/SQUAREWAVE OSCILLATORS (2)/MICROPHONE AMP./
CPU. GROUP CONTAINING CPU., CLOCK GENERATOR & DRIVER, & SYSTEM CONTROLLER & BUS DRIVER THAT G
SHUTTER SPEED TIMER TO ALLOW AMATEUR PHOTOGRAPHER TO CHECK CAMERA LENS APERTURE TIMING AC
COURTESY LIGHT EXTENDER
SQUARE-ROOT COUNTER
SOUND-EFFECTS GENERATOR TO GENERATE EUROPEAN POLICE-CAR SIREN, BIRD NOISES & SPACESHIP SOUN
GAUSSIAN PSEUDORANDOM NOISE GENERATOR, CONSISTING OF DIGITAL WHITE-NOISE GENERATOR & CORREL
SOUND-CONTROLLED SOUND GENERATOR USABLE AS SOUND-CONTROLLED ALARM OR OBJECT FINDING DEVIC
TOUCH-OPERATED SUPPLY ON SWITCH & DELAYED SUPPLY OFF SWITCH, FOR APPLICATIONS REQUIRING A FEW
DOUBLE RESONANCE COMPENSATOR THAT SUPPLIES RF. VOLTAGE TO LOWER PLATE OF ICR. ANALYZER CELL
PLUG-IN MODULE USING RAM.S, TO REPLACE 2532 EPROM. DURING DESIGN STAGES OF ROM.-EPROM./PS.
DOUBLE-PULSE SHUTTER DRIVER CONSISTING OF MATCHED PARALLEL CCTS TO GENERATE 2 SEQUENTIAL GIA
HOUSEHOLD BATTERY CHECKER
CPU.-ASSISTED SCSI. HOST ADAPTER (BBB)/DMA.-SLAVE SCSI. HOST ADAPTER USING PLD./BUS-MASTER-TYPE A
THUMBWHEEL SWITCH PROGRAMMABLE VARIABLE-PHASE CLOCK GENERATOR, FOR DELAY & SCR.-TRIGGERING
BAUD RATE GENERATOR FOR RATES OF 75 TO 19200 BITS PER SECOND/INPUT SIGNAL CONDITIONING SECTION
COUNTER NEEDING ONLY 10 OUTPUT LINES TO STORE TIME INTERVALS FROM 1US TO 1S (BBB)
BOUNCE-FREE, BIDIRECTIONAL, LOW-RFI., ISOLATED SWITCH USING VOLTAGE DOUBLERS (CAPACITIVELY COUP
DOUBLING CCT TO GENERATE 2 PULSES FOR EVERY 1 THAT COMES IN, TO MAKE DOUBLE STEPPER FOR COCO
COUNTER CCT (PSEUDO RANDOM-NUMBER GENERATOR) USING OCTAL D-TYPE LATCH (FF.), DECADE COUNTER
PLUG-IN APPLICATION CARD FOR PC., INCLUDING INTERFACE ELECTRONICS, TO ALLOW PC. TO CONTROL 40-CH
COUNTER CCT TO MEASURE POSITIVE- OR NEGATIVE-GOING PULSES FROM MICROSECONDS TO SECONDS TO 3
SQUARE WAVE MASTER OSCILLATOR TO DIGITALLY GENERATE 3 120DEG PHASE SHIFTED SQUARE WAVES/BALA
MOUSE MONITORING HARDWARE INCLUDING USER PORT CARD, CAGE CARD & PHOTODETECTORS USING IR. DE
COUNTER ARBITER(BBB)/PHOTON COUNTERS & OVERFLOW CONTROLLERS(BBB)/REGISTERS & RAM.S/TRANSFE
BLUMLEIN PULSE GENERATOR TO PRODUCE NANOSECOND HV. PULSES, USING MERCURY-WETTED REED RELAY
COUNTER-DECODER-DISPLAY CCT
SHUTTER CONTROLLER
STUDENT LOCK-IN AMP. INCLUDING SIGNAL-PROCESSING CCT, GATE-DRIVING CCT, & SYMMETRY & PHASE CON
COUNTER & DISPLAY MODULE/SCALING CCT THAT AUTOMATICALLY SELECTS RANGE/TIMING MODULE/INPUT MO
HOURLY CHIMER FOR DIGITAL ELECTRONIC CLOCK, USING 1HZ COUNTING FREQUENCY FROM CLOCK (OUTPUTS
SQUARE WAVE GENERATOR REQUIRING 5 COMPONENTS (SCHMITT TRIGGER WITH POSITIVE FEEDBACK)
COUNTER DEVELOPMENT CENTER
PLUG-IN MODULE THAT CONNECTS TO UP. BUS, ALLOWING "ON-SITE" PROGRAMMING OF EPROM.S ASSOCIATED
COUNTER CCT TO MULTIPLY INPUT SIGNAL'S FREQUENCY BY INTEGER FRACTION, USING COUNTERS & LATCHES
COUNTER CCT THAT DIVIDES INPUT BY 5 & PRODUCES 50-50 & 40-60 DUTY CYCLES REGARDLESS OF FF. DELAYS
COUNTER (VARIANT OF STANDARD DIGITAL DIVIDER) THAT DIVIDES BY 3.5 BY FEEDING BACK 4-BIT COUNTER OU
PSU BASED ON OA. TO DETECT OUTPUT VOLTAGE ERROR & APPLY CORRECTING CURRENT TO OUTPUT TRANSI
FAULT MONITORING CCT OF COMPUTER-INTERRUPT DRIVEN SHUTDOWN INTERFACE, TO MONITOR SYSTEM CO
PLUG-IN CARTRIDGE THAT CONVERTS VIC-20 COMPUTER INTO DYNAMIC KEYBOARD EMULATOR THAT ALLOWS I
COUNTER-DECODER CCT SHOWING CLOCK & START-STOP LOGIC

APU INTERFACE COMBINING IO. & MULTIPROCESSOR MODES (BBB)/NUMBER CRUNCHING UNIT INTERFACE IN IO
 CPU. BOARD BUILT AROUND Z80 UP., & INCLUDING UART., 64K SRAM., 32K EPROM. DISK, CONTROL & ADDRESS E
 "SUBTRACTION" TEST SET-UP DUE TO BAXANDALL USEABLE WITH STEADY-STATE & TRANSIENT SIGNALS/AMP. C
 COUNTER CHAIN INCLUDING 122.88KHZ MASTER CLOCK/VIDEO-SYNC BOARD INCLUDING VOLTAGE DIVIDER & EM
 SHUTDOWN CCT THAT MAKES CLOSED-LOOP OVERVOLTAGE SHUTDOWN POSSIBLE, WITH SHUTDOWN VOLTAGE
 CPU., SERIAL INTERFACE & GENERAL CONTROL SECTIONS OF CART/4-PLANE MEMORY ARRAY SECTION/RULE T
 SQUARE-WAVE GENERATOR/FREEZER ALARM/MOTOR-SPEED CONTROLLER/REV-COUNTER CCT
 TOUCH-TRIGGERED BI-STABLE FF.
 SOUND-EFFECTS GENERATOR
 SQUARE PULSE GENERATOR INCLUDING MONOSTABLE MULTIVIBRATOR, SIGNAL INVERTING ADDER & ATTENUA
 SOUND-GENERATING CCT USING SOUND-GENERATOR IC, TO BE ATTACHED TO COMPUTER SYSTEM THROUGH F
 EPU/GENERALIZED HARDWARE EPU (HEPU) INTERFACE/SLAVE INTERFACE/10MHZ HEPUS INTERFACE USING HIGH
 SOUND-TRIGGER CCT USING PIEZOELECTRIC MICROPHONE THAT RESPONDS TO LOUD & SUDDEN NOISES, & 40
 PLUG-IN ADAPTER BOARD TO REPLACE 16-BIT 68000 CPU. WITH MORE POWERFUL 32-BIT 68020 CPU. THAT OFFE
 CPU. BOARD OF CONTROLLER TO DRIVE SMOKING MACHINE, INCLUDING 8-BIT PROCESSOR, EPROM. & 2 VIA.S/P
 CPU. BOARD THAT INPUTS SENSORY INFORMATION & TELLS LAWN RANGER (LAWN MOWER THAT CUTS GRASS I
 MPU. CONTROL FOR UP.-BASED TIME MEASUREMENT SYSTEM USING ARRAY OF IR. PHOTOGATES AS TIMING SE
 CPU. CARD USING 68000 PROCESSOR, PAL., 2 EPROM.S CONTAINING OS., SRAM. ARRAY & MULTIFUNCTION IC TO
 SOUND AMP. CCT TO PLUG INTO ADAM HOME COMPUTER'S EXPANSION SOCKETS, TO PROVIDE BUILT-IN SOUND
 MPU. (UP.) CONTROLLED SERIAL INTERFACE UNIT (BBB)/CCT SHOWING ADDRESS SELECT & TIMING CONNECTIO
 EMULATOR SECTION OF MICROCONTROLLER PROGRAMMER/CONTROL CCT/SECTION TO SELECT PAGE/INTERFA
 EQUIVALENT HIGH-SPEED INTERFACE CCT WITH MTITP (EQUIVALENT MINIMUM TIME INTERVAL BETWEEN 2 PULS
 SOURCE OF 115V, 400HZ POWER WITH LOW DISTORTION, USING DUAL POWER OA. IC WHOSE 1ST AMP. IS CONN
 PLUG-IN ADAPTER (METER) TO ACCURATELY MEASURE RESISTANCES TO 0.01OHM WITH DMM., USING CONSTAN
 MCU (MICROCOMPUTER) CARD USING LOW POWER CMOS., INCLUDING PROCESSOR CONTAINING CPU., RAM., EP
 SOUND GENERATION CCT OF EVALUATION CCT OM1099/AUDIO AMP. OF OM1099/STEREO SOUND GENERATOR C
 COUNTER CONTROL & READOUT/EHT. CONTROL USING LATCHES & VIA./CCT SHOWING DIRECT CONNECTION OF
 SOURCE DRIVE CCT THAT LIMITS CURRENT TO 100MA/2-STAGE PRE-AMP. WITH OVERALL GAIN OF ~10000, INCLU
 MOUSE-JOYSTICK SWITCH FOR AMIGA COMPUTER, TO AUTOMATICALLY DETECT WHEN JOYSTICK OR MOUSE IS
 SNUBBER CCT FOR MOS.-CONTROLLED THYRISTOR, FOR USE IF MCT IS TO TURN OFF RATED CURRENT NEAR V
 SLUSH (ALMOST ICE.) USING PROCESSOR (MICROCONTROLLER), INCLUDING CCT USING DRIVER-RECEIVER TO I
 SQUELCH CCT USING FM. IF. IC/FREQUENCY DETERMINING PORTION OF WEATHERADIO LO., USING VARIABLE-C
 1 UNIT OF COINCIDENCE CCTS CONSISTING OF EDGE-TRIGGERED FF./CONTROL CCT FOR COINCIDENCE MATRIX
 COUNTING CCT FOR 1 FILTER OF PHOTOMETER, USING INTERSIL COUNTER CHIP/FILTER-WHEEL ELECTRONICS
 MPU. FOR DMA., SHOWING INTERCONNECTION OF CLOCK CHIP WITH UP. & CCT/ADLC-DMA. LOOP BOARD SHOW
 BRUSHLESS DC. MOTOR DRIVE CCT USING SENSE-CELL MOSFET.S INTERFACED TO IC THAT DECODES ROTOR-F
 PLUG-IN MODEM FOR DIGICOM>64 TNC. EMULATOR PROGRAM, THAT WORKS ONLY ON 10M, VHF., & UHF. AT 120
 BRUSHLESS DC. MOTOR CONTROLLER THAT CARRIES OUT COMMUTATION ELECTRONICALLY USING GEMFET. P
 CPU. SECTION WITH UP., ADDRESS LATCH & ADDRESS DECODER/MEMORY CCT (BBB)/SERIAL PORT/PARALLEL P
 COUNTING CCT FOR FULLY SYNCHRONOUS 5-DECADE ECL. COUNTER/INPUT CONDITIONER
 EMULATOR BOARD FOR LIQUID CRYSTAL GRAPHS TO PROVIDE DEPTH SCALES FOR DEEP-WATER INSTRUMENT
 COUNTING CCT USING 4-DIGIT COUNTERS/DRAFT COUNTING BANK/VFC. USING OA.S/MONOSTABLE MULTIVIBRA
 NEURACTOR CONTROL CARD USING MICROCONTROLLER, WHICH, WHEN USED WITH ROTARY NEURACTOR, CON
 COURTESY LIGHT DELAY-LIGHTS MINDER TO PROVIDE SWITCH-OFF DELAY FOR CAR COURTESY LIGHT, & REMIN
 COUNTERSURVEILLANCE MONITOR (BUG DETECTOR) (HIGHLY SENSITIVE, WIDEBAND RECEIVER) TO HELP SEAR
 CPU., ADC. & EPROM. MEMORY, INCLUDING ADDRESS LATCH/MODEM INCLUDING TX FILTER, GAIN CONTROL, RX:
 CPU. & SERIAL IO. SECTION OF SPOOLER (PRINTER BUFFER) (2)/PARALLEL IO. SECTION/EPROM. & DRAM. CCT FC
 TOUCH KEYS, CONSISTING OF DOT & DASH DETECTORS, DOT MULTIVIBRATOR & SIDETONE OSCILLATOR
 COUNTER LOGIC USING 2ND PHOTO EYE

CPU., ADDRESS LATCHES & SERIAL IO. TRANSCEIVERS/LOGIC TO GENERATE CONTROL SIGNALS/CCT PROVIDING TRUE RMS. RF. (HF.) AMMETER FOR USE IN MEASUREMENTS OF POWER OUTPUT & RF. LEAKAGE OF ELECTROSTATIC COUNTER LOGIC CCT

DOUBLY TERMINATED LINEAR PHASE FDNR (FREQUENCY DEPENDENT NEGATIVE RESISTOR) LPF./SALLEN & KEY

TRUE RMS. AC. TO DC. CONVERTER TO MEASURE INPUT RMS. AC. VOLTAGE & INDUCED EMF. GENERATED ACROSS COUNTING CCTS OF TIMER THAT APPLIES AC. LINE POWER TO ELECTRICAL APPLIANCE FOR PREPROGRAMMED COUNTING-LOSS CORRECTION CCT USING RETRIGGERABLE MONOSTABLE MULTIVIBRATOR/400-700V BIAS SUPPLY

COULOSTATIC ELECTROCHEMICAL DETECTOR FOR USE IN FLOWING STREAMS, USING DAC., 12-BIT ADC., CPU., TOUCH CCTS (2)/ASTABLE MULTIVIBRATOR/SQUARE-WAVE GENERATOR/MOTION DETECTOR USING PLL./PLL.-BASED SQUARE ROOT EVALUATING ADC. USING 2 DAC.S, CU (SAR.) & 2 OA.S

TOUCH-CONTROLLED LAMP DIMMER CCT THAT HANDLES 450W LOAD & SMALL INDUCTIVE LOADS, SUCH AS AC. MOTOR

TOUCH ALARM THAT IS ACTIVATED BY TOUCH OF HAND, DEPENDING ON SOURCE OF 60HZ SIGNALS, INCLUDING FLUORESCENT LAMP INVERTER FOR 12V SUPPLY

SQUARE-WAVE GENERATOR CONSISTING OF SCHMITT-TRIGGER OSCILLATOR, TO PRODUCE ACCURATE 5V OUTPUT

COUNTER CCT SHOWING COUNTER, VIA. & CONTROL CCT/UP. CCT IN CONTROL MODULE

SQUAREWAVE GENERATOR/SIMPLE INVERTING AMP./BUFFERS (2)/BUFFER-AMP./MOSFET. SWITCH/NON-INVERTING

DEUTERIUM LAMP PS. (VERY STABLE CONSTANT CURRENT SUPPLY FOR DEUTERIUM LAMP), ADJUSTABLE FROM 0 TO 100mA

DOUBLE-PULSED SH. CCT FOR GREATER ACCURACY

EQUILIBRIUM FIELD CCT TO CREATE VOLTAGE DIFFERENCE BY USING GTO.S TO CHANGE VALUE OF RESISTANCE

FLUORESCENT LIGHT DIMMER INCLUDING TRIAC & RAMP GENERATOR USING NORTON OA., WITH TIMING DERIVED FROM

SHUNT REGULATOR THAT CHARGES BATTERY WHEN SOLAR CELL OUTPUT VOLTAGE IS HIGH, & FORMS MINIMUM CURRENT

LOUDSPEAKER PROTECTOR PROVIDING UP TO 1500W OF DC. & OVER-POWER PROTECTION, REQUIRING NO SUPPLY

SHUNT REGULATOR TO REPLACE BALLAST RESISTORS IN SWITCHING PS.'S MAIN OUTPUT, PROVIDE AUXILIARY CURRENT

PLUG-IN SPEECH AMP. FOR HEATH SB-400 OR SB-401 TRANSMITTER, TO GIVE ADDITIONAL DRIVE POWER TO TRIGGER

PSU (PS.) USING VOLTAGE REFERENCE & DARLINGTON POWER TRANSISTOR, WITH FEEDBACK, RESULTING IN 5% TOLERANCE

EQUIVALENT BOOST CONVERTER TO SIMULATE INTRA-CYCLE BEHAVIOR OF (HIGH-PG.) HPF CONVERTER/CCT USING

UNUSUAL PHONO AMP. USING ADJUSTABLE-SHUNT REGULATOR/LINEAR OHMMETER

SHUNT REGULATORS (5)/DIFFERENTIAL AMP. & OA. PARALLEL REGULATORS (2)/CURRENT SOURCE REFERENCE

COUNTER & ANALOGUE CCTS (INVERTER-FOLLOWER & PEAK DETECTOR) FOR DATA CAPTURE/ADC. CCT CONTROL

AQUARIUM THERMOSTAT USING TEMPERATURE-SENSITIVE CONSTANT CURRENT IC THAT ALSO PROTECT AGAINST

COUNTER INPUT CCT/CAPACITANCE MEASURING CCT/HIGH-LOW LIMIT DETECTOR/

PSU THAT CAN SUPPLY EXPANSIONS, SUCH AS COLOUR PALETTE, & PROVIDES +5V AT UP TO 1.25A

FLUID FLOW METER/25A AC.-LINE SWITCH/REFERENCE FOR CALIBRATING OTHER METERS

DRUM SIMULATOR TO DETECT TAPPING OF STICK & AMPLIFY SIGNAL/SIMULATOR USING CAPACITOR SENSOR TO

GAUSSMETER USING MAGNETIC FIELD DEPENDENT PROPERTIES OF UJT. THAT FORMS PART OF RELAXATION OSCILLATOR

TRUE RMS. VOLTMETER THAT MEASURES EFFECTIVE AC. VOLTAGE RATHER THAN AVERAGE VALUES

TRUE IA. WITH VOLTAGE GAIN OF 100, INPUT RESISTANCE OF $>10^{14}$ OHM, & INPUT CURRENT OF <100 FA, USING

DOUBLE PULSER CCT WITH NEGATIVE OUTPUT FOR ELECTRON INJECTION IN P-DOPED SAMPLES & NEGATIVE FEEDBACK

ALU., & RAM. THAT STORES UP TO 64 8-BIT INSTRUCTIONS & DATA WORDS, OF SIMPLE INSTRUCTIONAL COMPUTATION

SOUND-LEVEL METER USING DOT-BAR DISPLAY DRIVER & DUAL OA./ELECTRONIC BAGPIPE USING UJT. OSCILLATOR

TRUE RMS. POWER METER TO MEASURE POWER OF LOAD CONTROLLED BY PHASE ANGLE THYRISTOR CONTROL

SOUNDBYTE JR. THAT CAN BE EMBEDDED IN VOICE ANNUNCIATION APPLICATIONS, USING TI CVSDM. VOICE RECORDING

SHUNT REGULATOR USING ZENER DIODE & DARLINGTON POWER TRANSISTOR/SERIES-REGULATED PS./2 TO 25V

UNUSUAL DECODER (DESCRAMBLER) THAT RESTORES GATED SYNC PULSES OF SCRAMBLED TV. SIGNALS, INCLUDING

DOUBLE-BALANCED MODULATOR USING DBM., FOR AUDIO & RF. FREQUENCIES/TRANSCEIVE UNIT'S 35DB GAIN

SOUND-INTO-LIGHT CONVERTER (LADDER OF LIGHT)

SOUND TO LIGHT UNIT USING 3 TYPES OF ACTIVE FILTERS & LED.S

SOUND-ACTIVATED PHOTO FLASH

FAULT-TOLERANT CPU. SYSTEM, DESIGNED AROUND 32-BIT BIPOLAR BUILDING BLOCKS

SQUIRT-GUN TAG (ELECTRONIC WATER-GUN GAME) IN WHICH BUZZER SOUNDS FOR 4S WHEN TARGET (VEST) IS
COULOSTATIC ELECTROCHEMICAL DETECTOR CCT FOR FLOW INJECTION ANALYSIS & HPLC.
SQUARE-LAW DEMODULATOR (BALANCED DETECTORS ASYNCHRONOUS DEMODULATOR) (BDAD), USING SCHO
DOUBLE PULSE CSOA (COMMUTATING SOA.) TESTER TO MEASURE REVERSE RECOVERY OF POWER MOSFET. D
TOUCH SWITCH/MINIATURE BC. RECEIVER/SPEAKER AMP./SOLAR-POWERED RADIO/ENLARGING METER USING
DOUBLE-COMPENSATED WHEATSTONE BRIDGE FOR LOW SHOCK PRESSURE RECORDING (MEASUREMENT) DOV
50UA MICROPOWER RF. OSCILLATOR FOR BIOTELEMETRY USING HF. TRANSISTOR, TO GENERATE RF. CARRIER
COUNTING & DISPLAY UNIT FOR PLANIMETER, CONSISTING OF 7 SEGMENT DISPLAY, BCD. TO 7-SEGMENT DECO
SOURCE-COUPLED FET. OSCILLATOR FOR TESTING OF TUNED CCTS & SELF-RESONANT COILS, CONSISTING OF
DOUBLY BALANCED (CROSS-COUPLED) FET. PRODUCT DETECTOR (PD) WITH UNBALANCED INPUTS, REQUIRING
FAULT-RESISTANT, NORMALLY ON AC. SWITCH FOR TELECOMMUNICATIONS/5MA TO 500MA CURRENT REGULATO
EQUIVALENT CCT OF PARAMETRIC TRIPLER FOR 23CM THAT PRODUCES ~38MW AT 1306.5MHZ USING SILICON H
TOUCH SWITCH/IMPEDANCE MATCHER (1-FET. ATTENUATOR) TO PERMIT USE OF HIGH IMPEDANCE MICROPHON
SHUTTER-SPEED TESTER FOR CHECKING AMERA SHUTTERS FOR TIME-INTERVAL ACCURACY
TOUCH-SENSITIVE SYNTHESIZER IN WHICH AMPLITUDE OF ENVELOPE IS PROPORTIONAL TO HOW HARD KEY IS
SQUARING CCT (SQUARER) WHOSE OUTPUT IS CURRENT PROPORTIONAL TO SQUARE OF INPUT VOLTAGE, USIN
"AUDIO ARTIST" SOUND-EFFECTS MACHINE
SQUARE-WAVE GENERATOR USING FREQUENCY-GENERATOR IC & BCD. CODING SWITCHES, PROVIDING 57 STA
SOUND ACTIVATED SWITCH APPLICATIONS SUCH AS BABY OR BURGLAR ALARMS & VOICE ACTIVATED TAPE REC
DOUBLE-BALANCED FET. MIXER THAT BRINGS 50MHZ SIGNAL DOWN TO 4MHZ (FREQUENCY-EXTENDER CCT)
CPU.-CONTROLLED TRAINER (CODE-PRACTICE OSCILLATOR) FEATURING BURNED-IN PRACTICE GROUPS, USABL
EQUIPMENT USED FOR FLUCTUATION ANALYSIS, INCLUDING CELL & AMP., SHIELDED BY HEAVY BRASS & STAINL
DOUBLE CFD. (DCFD) IN WHICH CURRENT PULSE GENERATED BY PHOTODIODE IS FED TO FAST COMPARATOR V
COUNTER USING IC CONTAINING 4 DECADE COUNTERS, STATUS MEMORY, MUX. & 7-SEGMENT DECODER/PREAM
SQUARE WAVE PULSE GENERATOR WHOSE OUTPUT PULSE WIDTH CAN BE ADJUSTED, CONSISTING OF DRIVING
FLUX-GATE COMPASS THAT USES SINE & COSINE VOLTAGE OUTPUTS TO STEER AIR-CORE RESOLVER/DIGITAL-
SQUARE-WAVE-TO-SINE-WAVE CONVERTER USING GATES, 4 MOSFET.S & 2 PARALLEL-RESONANT LC. CCTS, WIT
SQUARE WAVE GENERATOR WITH POWER MOSFET. AS SWITCH, WHOSE OUTPUT PULSE HAS ADJUSTABLE WIDT
BAUD RATE CONVERTER INCLUDING CLOCK GENERATOR & RATE-PROGRAMMING SOCKET, & INPUT & OUTPUT S
STUD FINDER WITH SMALL PARTS COUNT
DOUBLE AVALANCHE GENERATORS USED FOR INJECTION PULSE GENERATION
COUNTING LOGIC OF GENERATOR/DAC.-TUNED STATE-VARIABLE FILTER & OUTPUT AMP.
SOURCE CCT WITH TRIMPOT TO TRIM OUT INITIAL OFFSET, USING FET.S, TO ALLOW SERVO TO COPE WITH TEM
TOUCH-CONTROL DIMMER SWITCH (LAMP-CONTROL CCT) USING MOS. DIMMER-AC. MOTOR CONTROLLER FOR A
TOUCH-TONE CONTROLLER USING TOUCH-TONE DECODER CHIP, ABLE TO SELECT BETWEEN 2 VIDEO & AUDIO S
SHUNT REGULATOR USING POWER FET., WITH LOAD REGULATION OF 0.1%, FOR SHUNTING UP TO 100MA AT 50V
DOUBLE SUPERHET RECEIVER TEST CCT/TRANSMITTER CCT USED WITH RECEIVER TEST CCT/PAGER APPLICAT
WAVEGATE FOR SORTING NERVE ACTION POTENTIALS, USING TIME-WINDOW, FOR DIGITAL STORAGE OSCILLOS
LEVEL CONTROL TO POWER PUMP WHEN WATER REACHES PREDETERMINED LEVEL/INTERFACE BETWEEN VEH
WAVEFORM GENERATION & SIGNAL CONDITIONING CCT USED FOR AUDITORY (AUDIO) TRACKING EXPERIMENTS
WAVEFORM GENERATOR CONSISTING OF DC. AMP., VCO. & OUTPUT BUFFER, & RESPONSE DETECTOR CONSIST
INVERTER TO RUN FULL SIZE 40W FLUORESCENT LAMP FROM 12V CAR BATTERY SUPPLY, DRAWING ~4A
INVERTER CCT TO DELIVER STEPPED OR QUASI-SINUSOIDAL OUTPUT VOLTAGE OF 220VRMS. FROM CAR BATTE
DIVIDE-BY-32 CCT THAT, WITH ADDED GATES, CREATES PULSE APPROXIMATELY EQUAL TO TRANSMITTED HORI
ENVELOPE GENERATOR USING FF., WITH ATTACK & DECAY VARIABLE FROM MILLISECONDS TO SECONDS
ENVELOPE GENERATOR FOR MUSIC-BOX
INVERTING PS. TO PROVIDE LOW-CURRENT NEGATIVE SUPPLY, USING CMOS. HEX INVERTER, INCLUDING 4200H
LEVEL DETECTOR OF UNDERVOLTAGE RELAY (UVR), CONSISTING OF DARLINGTON TRANSISTOR, WITH PEDESTA
DIVIDER NETWORK FOR FAST PULSE APPLICATIONS WITH PMT.S, USING ZENER DIODES TO MAINTAIN 300V BETW

WAVELENGTH CONTROL FOR A PULSED DYE LASER USING THE OPTOGALVANIC EFFECT
VTVM (VACUUM TUBE VOLTMETER) CONTAINING HIGHLY SENSITIVE BRIDGE CCT USING MEDIUM-MU MINIATURE
MOVING-COIL CARTRIDGE AMP. USING VALVES (DUAL TRIODE) CONNECTED IN SERIES, & LOW-NOISE TRANSISTOR
DEVICE THAT GENERATES DELAYED PULSE, WHERE DELAY IS INCREASED IN STEP-LIKE MANNER
LEVITATOR CCT THAT SUSPENDS 1IN STEEL SPHERES UP TO 2.5MM OFF REFERENCE SURFACE, INCLUDING OPTO
30V RAMP VOLTAGE GENERATOR FOR ANODE SUPPLY, USING OA. CONFIGURED AS MILLER INTEGRATOR/CCT FOR
DIVIDE-BY-N COUNTER OPERATING AS HIGH AS 48MHZ, WITH RANGE OF OUTPUT FREQUENCIES FROM 48MHZ TO
DEVICE TO MONITOR RESPIRATORY SIGNAL, USING MERCURY-IN-RUBBER STRAIN GAUGE AS DETECTOR FOR BI
HRV (HEART RATE VARIABILITY) LEVEL RESTORER TO USE WITH HRV SIGNAL GENERATOR, TO REDUCE DROP-O
LEVEL DETECTING CCT IN WHICH RED LED. IS BIASED ON WHEN LIQUID LEVEL FALLS/PTC. LEVEL DETECTOR AD
REVISED CCT TO GENERATE SEQUENCE OF TTL. PULSES TO CONTROL SPEED & DIRECTION OF STEPPER MOTO
DIVIDE-BY-5 WALKING RING COUNTER WITH SYMMETRY RESTORED USING 2 GATES & FF. (BBB)
WAVESHAPING NETWORK USING INVERTING & NONINVERTING SUMMERS & AMP. TO INTEGRATE EXTERNAL COS
DIVIDER CCT OF FOURIER SYNTHESIZER/CCT FOR COARSE PHASE CONTROL, FILTERING, FINE PHASE & AMPLIT
INVERTING DC.-TO-DC. CONVERTERS (2)
DIVIDE-BY-N COUNTER
WAVE-SHAPING NETWORK CONSISTING OF INTEGRATOR & FUNCTION GENERATOR, TO GENERATE ISI. & JITTER
DEVICE TO CONTROL STEPPING MOTOR, INCLUDING RETRIGGERABLE MONOSTABLE MULTIVIBRATOR & NAND G
REVISED CCT TO DERIVE 3RD SEPARATE CENTER CHANNEL FROM STEREO LEFT & RIGHT SIGNALS, CONTAINING
INVERTER THAT POWERS WOTAN 9W FLUORESCENT LAMP, GIVING UP TO 5HR OF FULL BRIGHTNESS FROM 1 25
INVERTER/CHARGER PS./CHARGER & INVERTER CONTROL CCTS (2)/ALARM CCT TO INDICATE FAILURE OF CHAR
INVERTED MONOSTABLE CCT INCLUDING INPUT DIFFERENTIATOR/TIME DELAY RELAY CCT/SET-RESET (R-S) FF./
DIVISION CCT USING PEAK DETECTOR & DISCRIMINATOR, & SEQUENCE CONTROLLER/TDC./MCA. INTERFACE/CC
DEVICE WHICH, WHEN FITTED TO BICYCLE, TRIGGERS ALARM WHEN WHEELS ARE TURNED OR LIGHTS ARE TAM
A-V O₂ ANALYZER (SPECTROPHOTOMETRIC DEVICE THAT DETERMINES ARTERIOVENOUS OXYGEN DIFFERENCE
2-VOLTAGE PS. THAT RELIES ON TIMER TO SUPPLY HV.S AT BEGINNING OF CYCLE & LV.S IN MOMENTS FOLLOWI
ENVELOPE GENERATOR
REVISED CW. TRANSMITTER USED AS CLASS C AMP. FOR 10M FM. OPERATION
LEVEL-1 TRIGGER CCT FOR 1 TOWER
LEVEL TRANSLATOR, CHANNEL FF. & GATE, LINE DRIVER & ARBITER CCT OF MUX.-SWITCH CONTROLLER FOR EX
WAVEFORM-GENERATION CCT CONSISTING OF 2 DUAL 4-BIT LATCHES, 2 BINARY FULL ADDERS & 8-BIT DAC./CCT
+5V TO -5V (NEGATIVE VOLTAGE) CONVERTER/NEGATIVE VOLTAGE CONVERTER USING TIMER CHIP CONNECTED
24V PP-282 PLUG-IN PS. USING SHUNT-DRIVE VIBRATOR, FOR RECEIVER, MOD. FOR 12-14V DC. INPUT, WITH 135V
WAVEFORM-GENERATING CCT THAT PRODUCES BRIGHT-UP PULSES FOR FEEDING TO Z-MODULATION INPUT OF
12V PS. TO PROVIDE BETWEEN 3 & 20A/RUGGED 12V PS. TO PROVIDE BETWEEN 15 & 30A AT 5 TO 28V WITH REG
+5V PS. USING VOLTAGE REGULATOR
2-VOLTAGE, SINGLE-POLARITY DC. PS. PROVIDING +12V & +24V, FOR SPECTRUM ANALYZER
DEVELOPMENT SYSTEM FOR Z8671 SINGLE-CHIP MICROCOMPUTER WITH BASIC-DEBUG, INCLUDING 2K OF RAM.
MOVING MAGNET STAGE (STANDARD VERSION)/UPGRADED MOVING MAGNET STAGE FOR MOVING MAGNET STE
12V DC. PS. TO ALLOW PAY-TV. DECODER TO OPERATE FROM 117VAC.
LEVEL CONVERTER USING LEVEL-CONVERTER CHIP, TO CONVERT TANDY DIRECT CONNECT (DC) MODEM PAK T
ADVANCED PHOTOVOLTAIC SYSTEM/SHUNT REGULATOR/AH METER USING IMC 520 DIGITAL AMPERE-HOUR INTE
INVERTING AMP. WITH GAIN OF 10/UNITY-GAIN VOLTAGE FOLLOWER/OA. INTEGRATOR/DIFFERENTIAL-INPUT IA./S
WAVE-SHAPING CCTS/PHASE-DETECTOR & PHASE-LOCK CCTS INCLUDING RF. PHASE SHIFTER, ERROR INTEGRA
DEVICE TO OBTAIN VOLTAGE PROPORTIONAL TO M-E RATIO, USING 2 HALL PROBES PLACED IN PARALLEL BETW
DIVIDE-BY-6 FREQUENCY DIVIDER INCLUDING DIVIDE-BY-3 & DIVIDE-BY-2 SECTIONS, USING MICROWAVE ASSOC
LEVEL SENSING LOGIC TO DETECT PRESENCE OF LIQUIDS & WHOSE SENSOR WON'T OVERHEAT/CCTS SHOWING
INVERTING PREAMP. WITH CLAMPING TO MEASURE DAC. SETTLING TIME/CCT USING SUCCESSIVE-APPROXIMAT
+5V TO -5V INVERTING DC.-DC. CONVERTER USING BOOTSTRAPPING TO INCREASE EFFECTIVE SUPPLY VOLTAGE

DEVICE FORMING TIME INTERVALS (DEVICE ATTACHED TO CCT FOR CONTACTLESS MEASURING OF TIME INTERVALS)
WAVEFORM INTEGRATOR FOR SIGNAL AVERAGING
2KV PIEZOELECTRIC DRIVE USING APEX MICROTكنولوجيا SPECIALIZED POWER OA. RATED AT 1200V
+5V POWERED DVM. WITH +-3.5V INPUT RANGE, USING INTEGRATING ADC. & LED. DISPLAY/CCT USING RS-232 TO PC.
ATV. DOWNCONVERTER THAT RECEIVES LOWER SIDEBAND, OPERATING WITH OSCILLATOR ON UPPER SIDE OF BAND
4KV HV. PS./CONTROL CCT OF 50UA TO 4MA CONSTANT-CURRENT GENERATOR, INCLUDING SINEWAVE OSCILLATOR
LEVEL DETECTOR, WAVE SHAPER & GATE, OF CCT TO REDUCE AM. DISTORTION OF FM. & PM (PHASE-MODULATED FM)
1KV IFTOF APPARATUS BASED ON FLOATING SCHERING BRIDGE NETWORK/SWITCHABLE GAIN, WIDE-BW. MOSFET DRIVER
INVERTING UNITY-GAIN CCT/CCT WITH VOLTAGE GAIN OF 100/CCT WITH AC. COUPLING OF LOAD RESISTOR
DIVIDE BY 6 COUNTER USING VERY FAST 10KH ECL. LOGIC, WHOSE OUTPUT SUPPRESSES 2ND, 3RD, & 4TH HARMONICS
REVOX 2-4 TRACK STEREO TAPE RECORDER
I-V CONVERTER USING FET.-INPUT AMP./INTEGRATOR/INTEGRATOR WITH RESETTING/PRECISION PEAK DETECTOR
DEVICE TO RECEIVE TELETEXT ON PC., USING NETWORK PROCESSOR/CCT TO STRIP TELETEXT DATA FROM RADIO
12V BATTERY CHARGER RECOMMENDED BY EAGLE-PICHER FOR 15-30AH HIGH CAPACITY GEL-CELL BATTERIES
DEVICE FOR CONTROL OF PUMP, INCLUDING ADJUSTABLE IMPULSE GENERATOR & TRIAC REGULATOR THAT ALLOWS
DIVIDE BY 7 COUNTER USING RCA CMOS. JOHNSON DECADE COUNTER
I-V DISPLAY CCT USING 4 (2 DUAL) OA.S TO GENERATE 300HZ SINE WAVE, BUFFER SIGNAL TO DRIVE DUT., PROVIDED
INVERTING AMP.
WAVE SHAPER OF FRINGE SIGNAL GENERATOR, TO CONVERT TRIANGLE FUNCTION VOLTAGES INTO HALF OF SINE WAVE
ENVELOPE RECEIVER (DETECTOR) INCLUDING FET. BUFFER, RF. AMP. & LIMITER, BALANCED DEMODULATOR, DIODE
TEVATRON CLOCK (TCLK) DECODING CCT
DIVIDE-BY-2 VHF. ANALOG FREQUENCY DIVIDER WITH 90-130MHZ OUTPUT FOR 180-260MHZ INPUT, WITH 50OHM INPUT
ENVELOPE EXTRACTOR, DOUBLE-RECTIFYING (ENVELOPE FOLLOWER)
DEVICE TO FLASH SPOT OF LIGHT ON FILM MARGIN AT KNOWN TIME INTERVALS, ALLOWING CALCULATION OF FOCUS
DEVICE TO MEASURE MAXIMUM UPSTROKE VELOCITY OF CARDIAC ACTION POTENTIAL (AP), CONSISTING OF SHOT TRIGGER
DEVICE USED TO CONTROL DISSOLUTION OF GIVEN AMOUNT OF IRON IONS FROM "ELGILOY" MICROELECTRODE
LEVEL MONITOR THAT MEASURES CHANGE IN CAPACITANCE OF COAXIAL PROBE/FILL CONTROLLER TO READ PHOTO
I-V CONVERTER TO DETECT OUTPUT CURRENT FROM PHOTODIODE-SCINTILLATOR DETECTOR, USING OA., WITH
LEVEL SELECTION CCT CONSISTING OF 4-BIT COUNTER, 4-LINE TO 16-LINE DECODER, & ANALOG SWITCHES TO
MOVING-MAGNET OR MOVING-IRON PHONO PREAMP. WITH LOW NOISE & DISTORTION/MOVING-COIL CHANGES/SIGNAL
LEVEL I SUMMERS OF CALORIMETER TRIGGER/LEVEL II SUMMERS INCLUDING INVERTING FEEDTHROUGH CCT (2)
LEVEL INDICATORS (DETECTORS)/TIMER TO SWITCH AC. LOADS/EASY-TO-MAKE TIMER
25V AC. PS. WITH VOLTAGE STABILIZED BY COMPARING PEAK VALUE WITH PRESET VOLTAGE, WITH ERROR SIGNAL
LEVELING CCT
C-V METER FOR SEMICONDUCTOR DETECTORS OF NUCLEAR RADIATION, WITH HIGH ACCURACY AT LOW SIGNAL LEVELS
INVERTING COMPARATOR OF NEURON OF 4-BIT ADC., WITH SUPPLY LINE FOR COMPARATOR OBTAINED FROM RAMP
INVERTING & NON-INVERTING COMPARATORS (2)/EXCESS-CURRENT-WARNING MONITOR/END-OF-CYCLE MONITOR
12V NICD. BATTERY MONITOR (INDICATOR) USING LED. BAR-DOT DISPLAY DRIVER TO INDICATE VOLTAGE STEPS
DIVIDER CONSISTING OF 2 4-BIT SLICES, CONTROLLED BY MICROPROGRAM SEQUENCER, INCLUDING PROM. CO
INVERTING & NON-INVERTING TRIGGER CCTS WITH SPEED-UP CAPACITORS (2)
12V BATTERY-VOLTAGE MONITOR BUILT AROUND BAR-DOT DISPLAY DRIVER TO INDICATE BATTERY-OPERATING TIME
ADVANCED DRAM. CONTROLLER WITH DYNAMIC BUS SIZING & ABILITY TO HANDLE MISALIGNED DATA
INVERTING SCHMITT TRIGGER CCT INTENDED FOR TRIGGER VOLTAGES OF 2 & 4V & OUTPUT LEVELS OF +-11V
-5V PS. USING ZENER DIODE/-5V PS. USING 3-TERMINAL REGULATOR/CCT TO GENERATE -12V SUPPLY, USING DO
12V LAMP DRIVER/NIGHT FLASHER/AUDIO AMP./17 BIT PSEUDO-RANDOM-SEQUENCE GENERATOR TO PRODUCE
NOVEL, INEXPENSIVE LOGARITHMIC-NETWORK-BASED CCT TO REALIZE LOGARITHMIC TRANSFER FUNCTION FOR
MOVING-DOT VOLTMETERS (3)/VU (VOLUME-UNIT) METERS (2)/AUDIO POWER METER/CONVERSION CCT FOR CAP
DEVICE CONTROLLER USING FUSE-PROGRAMMABLE CONTROLLER & PLD., TO HANDLE DATA-TRANSFER & INTER
LEVEL GAUGE USING CMOS., INCLUDING PS. & WIDE GAP TYPE PHOTOINTERRUPTER/LEVEL GAUGE USING SELF

DIVIDE-BY-2 CCT USING HARRIS GAAS. FF. & DELAY LINE, WITH 1GHZ OUTPUT FOR 2GHZ INPUT
12V LEAD-ACID BATTERY CHARGER/UNIVERSAL CHARGER TO CHARGE LEAD-ACID, NICD. & GEL-CELL BATTERIES
WAVEFORM DISPLAY CCT THAT PERMITS SLOWLY CHANGING SIGNALS TO BE FULLY DISPLAYED IN REAL TIME
DIVIDE-BY-CLOCK CCT
DEVIATION METER CCT THAT CAN BE USED IN MOST FM. VHF. RECEIVERS (RADIOS), WITH HOOKUP OFF FM. DISC
INVERTING DC.-TO-DC. CONVERTER USING NATIONAL SEMICONDUCTOR PWM. SWITCHING REGULATOR, WITH E
NOVEL NONINVERTING VCVS WITH FLAT MAGNITUDE & PHASE RESPONSES OVER WIDE (EXTENDED) FREQUENC
ATV. MODULATOR
WAVEGUIDE-MOUNTED MICROWAVE DIODE DETECTOR-MIXER
CAVITY-AMP. FILAMENT & BIAS SUPPLIES
INVERSION OSCILLATOR/VHF. (107MHZ) INVERSION OSCILLATOR/AUDIO (1300HZ) INVERSION OSCILLATOR/SERIE
25V 700MA VARIABLE STABILIZED (REGULATED) PS. WITH METER/0-30V 1A VARIABLE STABILIZED (REGULATED) P
WAVEMETER USING SMALL-SIGNAL DIODES
LEVEL-SENSING CCT THAT PROVIDES FAST, CLEAN SWITCHING NEEDED TO PROGRAM & VERIFY 512K-BIT EPRO
LEVEL TRANSLATION CCTS SHOWING HOW ECL. CAN DRIVE HIGH-SPEED BIPOLAR-TTL. & CMOS. IC'S, WHICH HA
LEVEL-SENSING SWITCH FOR SUMP PUMPS, THAT SOUNDS ALERT IF WATER LEVEL RISES OR PUMP ISN'T WORK
12V REGULATOR INCORPORATING LOW-CURRENT SHUNT REGULATOR THAT PROVIDES FOLDBACK PROTECTION
LEVEL SENSOR & CONTROL CCT FOR 1 STAGE OF DISTILLATION, USING LED., PHOTOTRANSISTOR (DETECTOR) &
WAVEFORM SHAPER THAT SUBTRACTS TRIANGULAR COMPONENTS FROM SINE WAVES & CANCELS CUSPS OF T
13V-DC. PS. USING 1 POWER TRANSISTOR FOR EACH 5A OF OUTPUT, & 15V IC REGULATOR WITH SHORT-CCT & H
LEVEL CONTROLLER USING THERMISTORS TO TRIGGER R-S-TYPE BISTABLE VIA 2 TRANSISTORS/PS.
NOVEL IMPROVED IA. THAT MINIMIZES MAGNITUDE & PHASE ERRORS, USING PRECISION UNITY GAIN DIFFERENC
12V BATTERY CHARGER/CCT USING TONE GENERATOR TO DEVELOP 60HZ SQUAREWAVE, & SHAPE IT INTO SINE
REVISED PORTION OF DH-110, INCLUDING PHONO STAGE AMP. USING IC OA. & PULLDOWN (CURRENT SOURCE)
INVERTING OA./INTEGRATOR/OA. CCT SHOWING EFFECT OF HIGHER FEEDBACK RESISTANCES/PHOTODIODE AM
WAVELENGTH READ-SCAN CONTROL/MEMORY BUS BUFFER/15MHZ PHOTON COUNTING-MULTICHANNEL SCALEF
DEVICE THAT MODIFIES UNIPOLAR OUTPUTS OF ELECTRICAL STIMULATOR TO PRODUCE BALANCED RECTANGU
F-V CONVERTER WITH 0 TO -10V OUTPUT FOR 0 TO 10KHZ INPUT FREQUENCIES, USING SCHMITT-TRIGGER IC'S S
VLVCO. NETWORK TO MAXIMIZE FREQUENCY-DEVIATION CAPABILITY/TEST CCT TO GAUGE COMMON-EMITTER IN
ATV (AMATEUR TV.) CONVERTER INCLUDING RF. SECTION (PREAMP.), OSCILLATOR, IF. AMP., & DBM. (MIXER)/ALT
INVERTER OUTPUT STAGE/OVERCURRENT SENSING CCT USING CURRENT TRANSFORMERS TO DETECT CURREN
15V DC. PS. USING INTERNATIONAL RECTIFIER OFF-MAINS DC.-DC. VOLTAGE REGULATOR & ONLY 3 COMPONENT
I-V CHARACTERIZATION SYSTEM INCLUDING OFFSET CCT & DIFFERENTIAL AMP., ANTILOGARITHMIC AMP., VOLTA
INVERTER PHASE-LEG FOR FRACTIONAL-HP INTEGRATED ECM (ELECTRONICALLY-COMMUTATED MOTOR) DRIVE
INVISIBLE NET HARDWARE ("KEY") USING DALLAS SEMICONDUCTOR QUAD-PORT SERIAL RAM., THAT SITS ON CO
MOVEABLE CROSS-HAIR DEVICE TO MEASURE LENGTH OR DIAMETER OF OBJECTS ON RECORDED VIDEO TAPES
INVERTING AMP. USING CURRENT-FEEDBACK OA./40MHZ ACTIVE BANDPASS FILTER/BANDSTOP FILTER/CCT USIN
LOW-COST BENCH-PORTABLE INSTRUMENT TO TEST BIPOLAR TRANSISTORS IN- & OUT-OF-CCT, USING CMOS. N
LOW-POWER, HIGH-EFFICIENCY (74%) PUSH-PULL DC.-DC. CONVERTER THAT CONVERTS +5V TO +6V & DISSIPAT
LOW GAIN STREAMER CHAMBER PREAMP. USING ECL./CCT TO AMPLIFY INPUT SIGNAL & STORE PROPORTIONAL
LOW-COST CMOS. KEYS WITH IAMBIC & ELECTRONIC BUG OPERATION, DOT & DASH MEMORIES & PERFECT WE
POWERFUL MICROCOMPUTER WHOSE 2 MAIN PROCESSORS CAN OPERATE IN PARALLEL & INDEPENDENTLY, IN
POWER AMP. & ERROR AMP. FOR MOD. TEMPERATURE CONTROL SYSTEM/PROTECTION CCT TO PREVENT DAMA
LOW-POWER VCO. THAT IS LINEAR OVER WIDE RANGE OF VOLTAGES
POWER CONTROLLER OF SYSTEM FOR PRODUCING SMALL (<4UM) DROPLETS OF CONTROLLED SIZE, TO VARY H
POWER SAMPLER
LOW-COST RS-232-C DRIVER FOR UP.-BASED INSTRUMENTS THAT LACK NEGATIVE VOLTAGE SUPPLY
LOW RESOLUTION PULSE GENERATOR
LOW POWER VOLTAGE REGULATOR USING JFET. AS SERIES PASS ELEMENT, REQUIRING NO PRE-REGULATION,

POWER STRIP TO PROTECT EQUIPMENT FROM HIGH-ENERGY POWER-LINE TRANSIENTS & LOW-ENERGY EMI. & POWER TRANSISTOR (MOSFET.) MODULE & DRIVE CCT, INCLUDING OVERCURRENT PROTECTION CCT/INVERTER
2-WAY OPTOISOLATOR
POWER CONDITIONING CENTER (POWER CONDITIONER) INCLUDING CONSTANT-VOLTAGE TRANSFORMERS, EMI
1KW 160M AMP., USING GROUNDED-GRID DESIGN WITH 6 TRIODE TUBES IN PARALLEL & 50OHM INPUT IMPEDANCE
LOW-DISTORTION STATE-VARIABLE OSCILLATOR
LOW-COST MULTIBUS-COMPATIBLE GRAPHICS GENERATOR, USING GRAPHICS DISPLAY CONTROLLER (GDC)/SYSTEM
NEWCOMB CLASSIC 1500R PHONOGRAPH AMP. INCLUDING POWER AMP. & REMOTE CONTROL UNIT INCORPORATED
LOW-CURRENT (200UA) RESISTOR PMT. BASE FOR HODOSCOPE USED IN EXPERIMENT AT TEVATRON PROTON-ACCELERATOR
LOW COST CONVERTER CONSISTING OF ADC. USING 4 OA.S, 2 TRANSISTORS & 2 TTL. IC'S, & BUILT-IN-PROGRAMMABLE
LOW-NOISE NARROW-BAND JFET. PREAMP. PRF-1 FOR USE IN NMR. IMAGING OR SPECTROSCOPY SYSTEM
POWERED-DOWN PROM. CCT/POWERED-DOWN PROM. MONITOR BOARD (BBB)/PROM. PROGRAMMER (3)/BIPOLAR
R-WAVE DETECTION CCT INCLUDING BAND PASS FILTER & ABSOLUTE VALUE CCT, THAT RECEIVES OUTPUT OF
LOW-COST, 8-CHARACTER, LED.-DISPLAY DRIVER OPERATING UNDER UP. CONTROL, TO DISPLAY ANY COMBINATION
LOW-COST COMPROMISE HIERARCHICAL-INTERRUPT CCT USING BLOCKING MODES IN DAISY-CHAIN SYSTEM
LOW-COST ANALYZER
LOW COST DIGITAL IC TESTER FOR TESTING COMMONLY USED TTL. & CMOS. LOGIC GATES WITH REMOVAL FROM BOARD
NEW PSYNCH CCT TO BRING NORTH STAR ZPB-A1 PROCESSOR BOARD TO MODERN IEEE-696 (S-100) STANDARD
LOW-DISTORTION LOW-COST AUDIO GENERATOR
LOW-COST CCT USING COUNTER, DECODER & SSR.S, TO DRIVE STEPPER MOTOR IN APPLICATION WHERE ACCURATE
SAWTOOTH-FIXED VOLTAGE COMBINER CCT USING 3 OA.S TO PROVIDE COMBINATION TUNING VOLTAGE/CCT USING
DEW-SENSOR TEST (SENSING) CCT USING CMOS. SCHMITT TRIGGER, NPN TRANSISTOR, LED.S & PANASONIC DE
LOW-COST IEEE-488 MULTIFUNCTION BUS CONTROLLER BOARD FOR IBM PC., WITH PROGRAMMABLE DIGITAL IO
LOW-END (CHEAP) DIGITAL COMPASS WITH VERY POOR RESOLUTION, USING DINSMORE HALL-EFFECT SENSOR
LOW-COST PRE-EMPHASIS NETWORK FOR FREQUENCY RESPONSE TESTS ON PHONO PREAMP.S & FM. TUNERS
LOW-TEMPERATURE ALARM CCT (THRESHOLD CCT) (COMPARATOR CCT) TO ACTUATE BUZZER WHEN TEMPERATURE
LOW-TEMPERATURE ALARM CCT USING OA. FOR COMPARATOR, & THERMISTOR, PIEZOELECTRIC BUZZER & NPN
LOW COST, RELIABLE 3-STATE TTL. LOGIC PROBE
LOW-COST EPROM. PROGRAMMER THAT CAN BURN ALL POPULAR TYPES INCLUDING EEPROM.S/PERSONALITY
POWER-STROBING CCT TO SWITCH 3-TERMINAL REGULATORS ON & OFF TO SPECIFIC PORTIONS OF SYSTEM CO
LOW COST TESTER (CURRENT TRACER) TO SENSE & INDICATE RELATIVE MAGNITUDES OF CURRENTS IN PCB. T
LOW-POWER RF. GENERATOR TO PROVIDE BURST OF RF. AT JUMPER-SELECTED SUBMULTIPLE OF CLOCK OSCILLATOR
LOW-SENSITIVITY BANDPASS FILTER USING 2 OA.S, EXHIBITING VOLTAGE TRANSFER & USING 10 PASSIVE COMPONENTS
LOW-NOISE TEST SETUP FOR MEASURING SETTling TIME OF 741S OA.
LOW-NOISE PREAMP. USING OA., MOD. TO INDICATE WHETHER OR NOT TRANSDUCER IS CONNECTED, USING LOGIC
LOW COST ENVELOPE SHAPER (SOUND EFFECTS BOX) TO ENHANCE GUITARISTS-KEYBOARD PLAYERS' SOUND,
LOW-DISTORTION AUDIO LIMITER
LOW COST CCT TO GIVE GALVANIC +-1500V ISOLATION FOR ANALOGUE SIGNALS, USING DUAL OPTO-ISOLATOR
LOW-COST LOGIC ANALYZER
LOW-BATTERY INDICATOR
LOW-COST LOGIC PULSE DETECTOR
POWER-RESET CCT TO PROVIDE RESET SIGNAL DURING POWER-UP, WHEN SUPPLY VOLTAGE FALLS BELOW 4.5V
LOW-COST VOLTAGE TRIPLER THAT OSCILLATES AT 4KHZ TO 350KHZ, & GENERATES 15V FOR 5V DC. IN, USING
LMW 2304 13CM TRANSVERTER TX (TRANSMIT) MIXER BOARD THAT DEVELOPS 400-500MW OUTPUT MAXIMUM AT
LOW-COST ALARM THAT PROVIDES 2-TONE HE-HAW SOUND PRODUCED BY 2 ASTABLE (OSCILLATOR) CCTS USING
LOW-POWER HEATER USING MULTIVIBRATOR, THERMISTOR & UNITY-GAIN NONINVERTING OA., WITH FEEDBACK
LOW-COST VIDEO-EDIT CONTROLLER FOR PROFESSIONAL-QUALITY VIDEO EDITING, CONSISTING OF 4 MONOSTABLE
LOW-COST MOTORIZED MICROMETER CONTROLLER PROVIDING VARIABLE OFF PERIOD AT END OF TRAVEL (2)/TRIP
POWER LINK CCT INCLUDING DRIVER, COUPLING & RECEIVER CONVERSION SECTIONS/DATA LINK CCT/STIMULATOR

LOW-COST, HANDHELD AUDIO-VISUAL TESTER TO IDENTIFY SHORT, OPEN & WORKING CAPACITORS, USING CMOS
LOW-COST TIMER SYSTEM THAT CUTS OFF AUDIO ON CUE FROM LISTENER & RESTORES IT AFTER 1MIN, TO ELIMINATE
POWER-ON PLUS MANUAL-RESET CCT INCLUDING NOR GATE TO COMBINE 2 PULSES/MOD. MANUAL-RESET CCT
POWERFUL SIREN ALARM CCT THAT PRODUCES VARIETY OF DISTINCTIVE ATTENTION-GETTING SOUNDS & PROTECTIVE
LOW-NOISE PREAMP.

LOW-COST DOT-BAR GENERATOR

POWER MOSFET. VARIABLE RESISTOR/POWER MOSFET. MOTOR SPEED CONTROLLER INCLUDING TIMER CONNECTION
50W AMP. USING LOW-NOISE OA. AS GAIN STAGE, INCLUDING PHASE SPLITTER & CURRENT MIRROR, WITH OUTPUT

LOW-COST BATTERY-OPERATED NANOAMMETER (TO MEASURE EXTREMELY LOW CURRENTS) WHOSE INPUT SIGNAL IS

LOW COST CMOS. LOGIC PROBE USING TTL. DESIGN WITH CMOS. INVERTING BUFFER AT FRONT END (BYTE7701)

LOW-NOISE DC. AMP./DC.-REVERSAL ERROR CORRECTION CCT USING COMPARATOR IC & 1 OF 16 SELECT IC/THAT

LOW-COST BURGLAR-ALARM SYSTEM ALLOWING USE OF MULTIPLE NC. CCTS WITH 12VDC. SOUNDING DEVICE, INCLUDING

LOW POWER 4-DIGIT SEQUENCE TOUCH TONE(R) DECODER USING CMOS. DECODER IC, MAGNITUDE COMPARATOR

LOW-COST DISPLAY PROCESSOR INCLUDING UP-DOWN, VIDEO DISPLAY GENERATOR, I/O., EPROM., MEMORY, REFRESH

POWER DISTRIBUTION BOX USING SOLID-STATE SERIES REGULATOR, TO ENABLE USE OF ALTERNATIVE POWER

POWER CONVERTER THAT PROVIDE 8V DC. OUTPUT WHEN USED WITH CAR CIGARETTE LIGHTER OR AC.-DC. WALL

LOW-COST UP.-CONTROLLED ELECTRONIC ALARM CLOCK THAT TELLS TIME USING SPEECH-PROCESSOR IC

LOW-POWER OFF-LINE PS. THAT TRANSFERS POWER FROM 120V AC. LINE TO VOLTAGE REGULATOR BY DISCHARGING

80W DUAL CHANNEL AUDIO DUMMY LOAD BANK CONSISTING OF 16 20HM, 10W POWER RESISTORS IN PARALLEL

LOW POWER 30M (10MHZ) TRANSMITTER (RIG) USING VXO (CRYSTAL OSCILLATOR) (FOR FREQUENCY CONTROL)

POWERED PROTOTYPING BOARD THAT CONTAINS PS.S OF +5V & +12V DC., USING VOLTAGE REGULATORS, TO PROVIDE

POWER & AUDIO CCTS OF K9GXU-R REPEATER CONTROLLER, INCLUDING MIXER, RING DETECTOR & PHONE LINE

2-WAY SERIAL (RS-232-TO-IR.) COMMUNICATIONS LINK (ADAPTER) INCLUDING IR. RECEIVER & TRANSMITTER, USING

SAWTOOTH VOLTAGE GENERATOR-AMP. (SGA) WITH OUTPUT FREQUENCY TUNABLE BETWEEN ~475 & 575HZ & MODULATED

POWER-FAILURE ALARM/FLOOD ALARMS (2)/VIBRATION SENSOR/"PROXIMITY" SENSOR/TOUCH SENSOR/SIRENS

LOW-COST ANALOG AUDIO DELAY LINE

SAWTOOTH GENERATOR/VCO. USING JFET. AS VVR (VOLTAGE VARIABLE RESISTANCE)/ARDS INCLUDING SWEPT

LOW-POWER CCT THAT PROVIDES DIGITAL CONTROL OF 1KW, WITH ZCD. ENSURING INTEGRAL NUMBER OF CYCLES

LOW NOISE PREAMP., INCLUDING CURRENT-TO-VOLTAGE CONVERTER, VARIABLE GAIN AMP., GAIN 1 LINE RECEIVER

LOW-COST CLOCK-FREE ADC. USING QUAD BIMOS.-E OA., THAT OPERATES ON CHANGES IN ANALOG INPUT, WITH

POWER-LINE-FAILURE INDICATOR USING SCR. TO DETECT VOLTAGE DROPOUTS, THAT LIGHTS RED LED. WHEN

LOW-COST CURRENT-VOLTAGE CONVERTER USED WITH HAMAMATSU R928 PMT., WITH BW. >200MHZ & FIXED AC

RAW BOARD & CAS FAST COMPARATOR SYSTEM (2)/CAS BOARD, LINEAR SWITCHES & SUMMING NETWORKS/GR

LOW-DRIFT DC. AMP. WITH MOSFET. INPUT STAGE DRIVING INTEGRATED VIDEO-AMP. WITH DIFFERENTIAL INPUT

LOW-DRIFT 0-TO-200NA CURRENT SOURCE USING INPUT PMOS. TRANSISTOR (FET.) INSIDE CD4007A, & OA. (WITH

POWER LINE-SWITCHED ZERO-VOLTAGE SWITCH/DARK-ACTIVATED ZERO-VOLTAGE SWITCH/CCT FOR REMOTE-

LOW COST PREAMP. FOR READOUT OF PIN PHOTO DIODE, WITH GOOD RESOLUTION, LOW POWER DISSIPATION

POWER MIXER (CURRENT-TO-VOLTAGE CONVERTER)/OSCILLATOR & PSD.S/RAMP GENERATOR

LOW-PASS AUDIO FILTER

LOW-POWER ULTRASONIC AMP. FOR LF. (<=40KHZ) ULTRASONIC WAVES THAT COVER LARGE DISTANCES, USING

NEW TV. SET WITH ANALOG SIGNALS IN & OUT, BUT WITH ALL SIGNAL PROCESSING DONE DIGITALLY

LOW POWER CONSUMING MOS. BASED VCO. FOR LOW LEVEL CONTROL VOLTAGES, USING 3 CMOS. NOR GATES

20W AUTOMOTIVE AUDIO-POWER BOOSTER/15W AMP./8W AMP./7W AUTOMOTIVE-AUDIO AMP./2.5W BRIDGE AMP

LOW VOLUME PRESSURE SENSOR AMP. FOR HIGH-PRESSURE DILATOMETER, USING HYBRID AMP. CHIP, STRAIN

DOWNCONVERTER FOR RECEPTION OF AMATEUR TV. SIGNALS ON STANDARD TV./CCT PROVIDING DOWNCONVERSION

LOW-POWER LINEAR PHASE MODULATOR USING FF., THAT WORKS WITH INPUT SIGNALS HALF, OR LESS, OF CAP

LOW-COST RF. MODULATOR TO ENABLE COMPUTERS & GAMES TO PRODUCE EXCELLENT COLOR ON TV. RECEIVING

LOW-COST DIGITAL MAGNETIC FIELD METER TO MEASURE 50HZ MAGNETIC FIELDS, INCLUDING PICKUP COIL, AND

LOW-COST FSK. GENERATOR CONSISTING OF QUAD ANALOG SWITCH & DUAL OA. THAT FORMS 2 WIEN-BRIDGE

LOW COST LCA (LOGIC CELL ARRAY) DESIGN PROTOTYPING BOARD FOR USE AS VERIFICATION TOOL FOR LCA-
2-WAY AMP. FOR LINES WHOSE IMPEDANCE IS PRIMARILY RESISTIVE, WITH GAIN OF 2
NEWLY DESIGNED AMMETER, OPERATED BY CURRENT TRANSFORMER WITH TOROIDAL CORE
LOW COST CAPACITOR TESTER USING CMOS. OA., CMOS. 555 TIMER, & LED.S THAT FLASH TO INDICATE VALUE,
25W PS. USING SWITCH MODE (OFF-LINE SWITCHING) REGULATOR & POST REGULATION/1.2A 5V UNINTERRUPTIBLE
LOW POWER INSTRUMENTATION-METER DRIVER
POWER CONTROL CCT TO AUTOMATICALLY ADJUST INTENSITY OF LIGHT SOURCE, USING SIEMENS PHASE-CON
50W DISCONTINUOUS MODE FLYBACK MAINS SWITCHING PS.
LOW POWER FM. TRANSMITTER SYSTEM
POWER LINE INTERFACE MODULE INCLUDING 120KHZ OSCILLATOR, OUTPUT DRIVE CCT, OPTOCOUPLED SIGNAL
POWER MONITOR THAT INDICATES EITHER APPLIED LINE VOLTAGE OR POWERLINE NOISE DETERMINED BY PAS
LOWERCASE-UPPERCASE HARDWARE INTERFACE THAT CONNECTS BETWEEN KEYBOARD & COMPUTER, USING
LOW-POWER, NARROW-BAND FM. IF. USING MOTOROLA IC INCLUDING OSCILLATOR, MIXER, LIMITING AMP., QUAL
VSWR. PROTECTION CCT TO ACCOMPLISH SOLID STATE RF. POWER AMP. PROTECTION AGAINST LOAD MISMATC
LOW-BATTERY ALARM WITH AUTOMATIC LOAD DISCONNECT, USING OVER-UNDER-VOLTAGE DETECTOR & CMOS
LOW-RESOLUTION STATIC JOYSTICK INTERFACE/HIGH-RESOLUTION STATIC INTERFACE (2)/SOFTWARE-DRIVEN I
LOW COST (\$30) SPEECH SYNTHESIZED DC. VOLTMETER TO CONVERT INPUTS OF 0 TO 25.5V INTO PLAIN-ENGLIS
20W CLASS-B OUTPUT STAGE
POWER-DOWN CCT BASED ON RTC. IC, FOR APPLICATIONS INVOLVING INTERMITTENT UP. USE, TO CUT POWER
POWER METER TO MEASURE AVERAGE POWER CONSUMED BY LOAD BY MEASURING VOLTAGE DROP & MULTIP
CCW 75KHZ TRANSMITTER/ADAPTER BETWEEN AC. LINE & RECEIVER'S ANTENNA INPUT/75KHZ MONITORING RE
LOW COST, HIGH SPEED 12-BIT ADC.-DAC. INTERFACE BOARD FOR USE WITH APPLE II MICROCOMPUTERS, FOR
20W 80HM AUDIO POWER AMP. USING TRANSISTORS/DARLINGTON TRANSISTOR REPLACEMENT FOR 2ND STAG
LOW-PASS-BAND-PASS DIGITAL FILTER USING TRW MULTIPLIER-ACCUMULATOR, EPROM., RAM., LATCHES, FF.S
LOW-NOISE DETECTION SYSTEM CONSISTING OF INGAAS. PIN PHOTODIODE WITH CHARGE INTEGRATING AMP. (I
20W STEREO-AUDIO AMP. INCLUDING PREAMP. (VOLTAGE AMP.) & 2 BRIDGED AUDIO POWER AMP. IC'S, POWERE
POWER CONTROLLER THAT LETS SMALL PUSHBUTTON CONTROL POWER TO LOAD THAT DRAWS <=10A, USING
LOW-COST CCT TO USE KOALA TECHNOLOGIES' KOALAPAD GRAPHICS PAD WITH ZENITH Z-100 COMPUTER
LOW-RESISTANCE-MEASURING CCT USING SYNCHRONOUS DEMODULATOR (DETECTOR), IA. & PRECISION OA., F
LOW-COST HIGH-PRECISION CLOCK GENERATOR WITH RANGE OF 19 OUTPUT FREQUENCIES
POWER AMP. BRIDGE/RC. WEIN BRIDGE AUDIO OSCILLATOR
NEW +-14V REGULATOR CCTS FOR PHILIPS DAC960 DAC./NEW ANALOG OUTPUT CCT/MOD. DIGITAL INPUT SELEC
NEW DAC960 LINE STAGE/ACTIVELY BUFFERED DIGITAL OUTPUT CCT FOR CDB460-560-650 SERIES CD. PLAYERS
LOW-CURRENT CCT TO EXTEND CAPABILITY OF PTS (PROCESS TEST SYSTEM) DOWN TO 10PA
LOW-COST PROGRAMMABLE SHORT-TIME WAKE-UP ALARM FOR SENIOR CITIZENS & OTHER WHO TAKE THERAPE
ROW OR COLUMN DRIVER/VOLTAGE LEVEL SELECTOR/SQUARE-WAVE GENERATORS/RAM. CLOCK GENERATOR
LOW-COST MULTICHANNEL DAS.
25W 80HM AUDIO POWER AMP. INCORPORATING LOAD-STABILIZING (MOD. THIELE) (LRC) NETWORK & RFI. FILTE
LOW-OVERHEAD RADIX-4 FFT. PROCESSOR USING 2 ARITHMETIC, LOGIC, & SHIFT UNITS WITH FLOATING-POINT
POWER AMP. TO DRIVE TRANSMITTING COIL (LOOP) WITH Q OF 30 & SELF-RESONANCE FREQUENCY OF 55KHZ, V
POWER CONTROL CCT/CMOS.-BASED VOLTAGE TRIPLING CCT/PROGRAMMABLE FILTER USING SWITCHED CAPA
LOW-COST (~\$10) DAS. (INTERFACE) FOR APPLE II+ COMPUTER, WITH MAXIMUM RATE OF 8000 POINTS PER SECO
LOW POWER CHARGE SENSITIVE INVERTING CASCODE AMP./VOLTAGE LEVEL DISCRIMINATOR/MULTI-CHANNEL
LOW-BATTERY DETECTOR USING DUAL COMPLEMENTARY PAIR OF MOS. TRANSISTORS, & BUFFER-INVERTER TH
LOW-POWER WATCH-CRYSTAL-BASED CLOCK GENERATOR (OSCILLATOR) USEFUL AS RTC. FOR BATTERY-POWE
LOW-COST BEAT OSCILLATOR FOR LEARNING MORSE CODE WITH AM.-FM.-SW. RECEIVER, TO BE ADDED TO REC
LOW-CURRENT AUDIO CONTINUITY TESTER THAT AUDIBLY & VISUALLY INDICATES WIDE RANGE OF RESISTANCE
LOW-DISTORTION AMP./RIAA PHONO PREAMP. USING DIFFERENTIAL AMP. & OA./CONTROL BOARD CCT/TAPE BU
POWER SPLITTING & AMPLIFICATION CCTS FOR 30MHZ REFERENCE/LIMITER/MIXER SECTION (DEMODULATOR)/F

35W, SOLID-STATE LINEAR AMP. FOR 23CM BAND, WITH DRIVE OF 7-10W REQUIRED, USING NEC MICROWAVE PO
 LOW-NOISE NAB RESPONSE AMP. (PREAMP.) THAT ACHIEVES NAB EQUALISATION CURVE BY ADDITION OF FREQ
 LOW-COST AIR CONDITIONER SENTRY TO PREVENT COMPRESSOR DAMAGE DUE TO BROWNOUTS OR BLACKOU
 LOW DISTORTION QUADRATURE OSCILLATOR/POWER AMP. & SPECIMEN TANK CCT/QUADRATURE DETECTOR, F
 20W OUTPUT CLASS A LINEAR POWER AMP. WITH 1.6GHZ & 2.3GHZ OPERATING FREQUENCY, WITH HIGH GAIN I
 LOW NOISE MWPC. PREAMP. (VOLTAGE AMP.) WITH GAIN OF ~200, USING 120MHZ UNITY GAIN BW. VIDEO AMP. W
 LOW-COST HYGROMETER RUNNING FROM 100UA, 4.5V SUPPLY, BASED ON PRINCIPLE OF CAPACITANCE OF DIE
 POWER CONTROL CCT INCLUDING ZERO CROSSING CCT TO PROVIDE 120HZ PULSE TRAIN, COUNTER CCT & TRI
 LOW-OVERHEAD VOLTAGE (0.1V) REFERENCE USING PMI PRECISION LV. MICROPOWER OA. IN 8-PIN DIP, PROVID
 LOW TEMPERATURE FRONT END OF SPECTROMETER, USING GAAS. MESFET./AMBIENT (ROOM) TEMPERATURE C
 50W 3-STAGE VOLTAGE-DIVIDER CUK CONVERTER USING N-CHANNEL MOSFET.S & SCHOTTKY DIODES, THAT OF
 LOW-COST DAC. PROVIDING 10-BIT CONVERSIONS WITH 0.05% LINEARITY, THAT TRANSFORMS BITS INTO AC. WA
 LOW-NOISE PRECISION CHARGE INTEGRATING AMP. FOR 1 CHANNEL, USING OA.S, TRANSISTORS & HIGH IMPED
 WOW & FLUTTER METER/INTERNAL METERING CCT FOR WOW & FLUTTER
 POWER BOARD OF ROBOTIC LAWN MOWER, INCLUDING RIGHT & LEFT MOTOR POWER DRIVES, CUTTING MOTOR
 LOW-NOISE BROADBAND AMP. FOR USE AS PREAMP. FOR RECEIVER, PROVIDING 10DB OF GAIN FROM 10-600MH
 LOW NOISE CHARGE SENSITIVE PREAMP. WITH HIGH CURRENT FET. AT INPUT, FOLLOWED BY SHAPING (FILTER)
 LOW-NOISE HALL PROBE PREAMP. USING BOTH DIFFERENTIAL INPUT & OUTPUT
 40W ALL-MOSFET. POWER AMP. INCLUDING CASCODE-DIFFERENTIAL INPUT STAGE, N-CHANNEL-P-CHANNEL PU
 40W ALL-MOSFET. POWER AMP./+30V FULL-WAVE PS. USING BRIDGE RECTIFIER & 15V REGULATORS/+65V REGU
 LOWTHER 26W LL26 AMP. INCLUDING HUMDINGERS
 POWER UNIT OF LASER, INCLUDING LOSS-FREE RESISTIVE ELEMENT (LFR), INCLUDING TRANSISTOR DRIVEN BY
 LOW-NOISE 2-4GHZ PREAMP. USING MITSUBISHI 4 GAASFET.S, FOR USE IN STOCHASTIC BEAM COOLING EXPERI
 40W SWITCH-MODE STEP-UP DC.-DC. CONVERTER WITH FIXED FREQUENCY OF 35KHZ, USING PWM. METHOD OF
 1KW INDUCTION HEATER PS. DELIVERING 10KHZ OUTPUT PROPORTIONAL TO CONTROL SIGNAL MAGNITUDE/PO
 LOW-NOISE HIGH-GAIN CURRENT-TO-VOLTAGE AMPLIFICATION CCT FOR 1 OF 2 MATCHED REFERENCE PHOTOD
 LOW-COST ANALYZER THAT TRANSFORMS VARIABLE-FREQUENCY PULSE TRAIN TO HISTOGRAM, USING INTEGR
 LOW DISTORTION 40W POWER AMP. USING WIDEBAND OA. IN BRIDGE CONFIGURATION, WITH FULL-POWER BW.
 25W, 50W OR 100W AMP./SHORT CCT CURRENT LIMITING CCT/25W AMP./AMP. WITH CONSTANT CURRENT SOURC
 LOW-DRAIN BATTERY SUPPLY REGULATOR FOR POWERING UP SUPPLY-SENSITIVE CCTS WITH BATTERIES
 SAW. RESONATOR OSCILLATOR AS 2ND LO. FOR CATV. CONVERTERS, USING DUAL-GATE FET. AMP. & 674MHZ R
 POWER SWITCH FOR DRIVING PIEZOELECTRIC VALVE (AMP. TO DRIVE VALVE WITH 250V PULSE AT 100UA)
 12W CONVERTER TO GENERATE HV. FOR FIRING HELIUM-NEON LASER TUBES, USING STANDARD HV. FLYBACK T
 40W ELECTRONIC LOAD CCT
 60W POWER AMP. WITH VERY LOW DISTORTION, EMPLOYING 2 NESTED DIFFERENTIATING FEEDBACK LOOPS
 60W NDFL AMP.
 40W 12V DC. TO 120V AC. INVERTER TO PLUG INTO CIGARETTE-LIGHTER RECEPTACLE IN CAR, VAN OR CAMPER.
 POWER CONTROL SECTION (TRIGGERABLE POWER CONTROLLER) USING TOKO DEVICE THAT IS COMBINATION I
 LOW NOISE PREAMP. WITH BALANCED (PUSH-PULL) OUTPUT
 2-WIRE INPUT CCT WITH FILTER-CODEC PAIRS OPERATING ON SINGLE & PLUS-&MINUS SUPPLIES (2)/CONFEREN
 POWER STAGE OF 60W OFF-LINE SWITCHING PS. (SWITCHER), USING FLYBACK REGULATOR TRANSFORMER/CO
 8-WAY STEREO SELECTOR/GUITAR PRESHAPER/CHEAP TOUCH SWITCH/TOUCH CONTROLLED PRE-AMP./LOW CU
 20W CLASS A BEAM TETRODE (TUBE) AMP. INCLUDING 1ST VOLTAGE-AMPLIFYING STAGE (USING PENTODE), PHA
 LOW-NOISE CASSETTE REPLAY AMP./CASSETTE RECORD AMP./CASSETTE RECORDER BIAS & ERASE OSCILLATO
 LOW-COST DIGITAL PHOTOTACHOMETER THAT MEASURES RPM. BY OPTICAL MEANS & FEATURES 2-DIGIT LED. F
 LOW-COST STEREO PARAMETRIC EQUALIZER
 LOW-POWER LINCOS. 5V SWITCHING REGULATOR WITH SHORT-CCT PROTECTION, DRAWING 350UA IN STANDE
 LOW-COST HANDS OFF INTERCOM USING DYNAMIC MICROPHONE/CALL-TONE CCT TO USE WITH STREET DOOR
 LOW COST HANDS OFF INTERCOM, USING SEPARATE AMP.S, MICROPHONES & SPEAKERS/CALL-TONE CCT

LOW-LEVEL MODULATOR THAT SUPERIMPOSES FRACTION OF 10V TRIANGLE WAVE ON PRESET DC. VOLTAGE, T
LOW-DROP 5V REGULATOR USING 5V VERSION OF SHORT-CCT-PROOF IC THAT IS PIN-COMPATIBLE WITH 7805 &
LOW-COST CCT USING PIEZOELECTRIC BUZZER, TO ADD HEADLIGHT ALARM TO CAR'S IGNITION CCT
LOW NOISE WIDEBAND CHARGE PREAMP. FOR LOW CAPACITANCE SOLID STATE DETECTORS, USING JFET.S, US
POWER-MEASURING DEVICE (SMALL POWER CHECKER) (OUTPUT METER)
LOW COST, LOW NOISE, CHARGE-SENSITIVE PREAMP. FOR SEMICONDUCTOR RADIATION DETECTORS, USING M
LOW & HIGH-PASS DIGITAL FILTER
LOW-COST SENSOR THAT GIVES TEMPERATURE READING ON DMM. (WHEATSTONE BRIDGE WITH DIODE IN 1 LE
LOW-COST VARACTOR-TUNED VHF. CRYSTAL SET TO HEAR PILOT-TO-CONTROL CONVERSATIONS WHILE IN-FLIG
LOW-COST, RELIABLE REMOTELY CONTROLLED COAXIAL SWITCH THAT PERMITS SELECTING FROM AMONG 6 AN
LOW-NOISE RF. PREAMP.S & SWITCHING UNITS (2)
LOW-PRICE KILOWATT AMP./KILOWATT PS.
NEW TAPE RECORDING FILTER CCT USING CHEAP JFET. AS SOURCE FOLLOWER, TO IMPROVE RELIABILITY OF S
LOW-NOISE LIQUID HELIUM-COOLED FET.-BOLOMETER (DETECTOR) IMPEDANCE TRANSFORMER AMP. (PREAMP.
PPWD AS PULSE SORTER
NEW AUDIO-AMP. STAGE & PS. FOR 75S-1 RECEIVER/PLUG-IN DIODE DETECTOR TO REPLACE TUBES
POWER-LINE FREQUENCY METER
LOW INPUT IMPEDANCE CHARGE SENSITIVE PREAMP. FOR POSITION SENSITIVE GAS DETECTORS, WITH LOW NF
LOW NOISE BROADBAND (500HZ-20KHZ) PREAMP.
LOW-LEVEL (DRIVER) STAGES OF 6M TRANSMITTER/FINAL-AMP. BOARD INCLUDING LPF.
NEW TIMING SELECTION CCT TO ALLOW 5IN & 8IN DRIVES TO WORK VIA DMAF2 CONTROLLER
NEW RANGE SWITCH FOR CMOS. 2M SYNTHESIZER TO ADD 144-146MHZ COVERAGE (HARA7912)
POWER CONVERTER TO STEP UP VOLTAGE FROM 12V TO 75V FOR FINAL STAGE OF AMP., USING DPDT. RELAYS
2-WIRE VOLTAGE DIVIDER NETWORK INCLUDING SCR./ELECTRONIC SETUP FOR RESISTANCE WIRE SHOT USING
POWER SOURCE FOR 12V AUTOMOBILE LAMP USED FOR ILLUMINATION IN RAECO OPTICAL PAPER TAPE READE
LOW-COST LOW-POWER AM. TRANSMITTER
LOW-PRICED HANDHELD LOGIC PROBE
POWER WATCHDOG FOR COMPUTER
LOW COST LOCK-IN AMP. USEABLE FROM 10HZ TO 10KHZ, INCLUDING QUADRATURE OSCILLATOR & DEMODULAT
POWER & PULSE SUPPLY OF ELECTRON GUN, FOR ACCELERATING VOLTAGE/PULSE CCT FOR PULSED HEATER
LOW NOISE WIDEBAND AMP. WITH NEGATIVE FEEDBACK TO CLOSELY DEFINE GAIN & BW., WITH BW. OF 15MHZ &
LOW-NOISE BROADBAND TR. CCT WITH NF. OF 2DB, USING PIN DIODES & TRANSISTOR COMPRISING PEAK DETE
LOW-NOISE VOLTAGE-SENSITIVE SERIES-FEEDBACK PREAMP. WITH OUTPUT BASELINE STABILIZATION BY POLE
LOW-COST RF. CABLE MODEM FOR LAN.S USING 75 OR 50OHM COAXIAL CABLE, INCLUDING TRANSMITTER & REC
LOW-LOSS VOLTAGE DROPPER THAT REPLACES RESISTOR WHEN POWERING LOW-CONSUMPTION SMPS. (MOS.
LOW NOISE BRIDGE USING OA.S & THERMISTORS, CONTAINING 2 SETS OF ZEROING DEVICES FOR RESISTIVE BA
LOW-COST WHITE-PINK NOISE GENERATOR (AUDIO NOISE SOURCE)
LOW-NOISE, AC.-COUPLED VOLTAGE PREAMP. & BASELINE RESTORER PREAMP., TO CONVERT PHOTOCURRENT
LOW-PASS SALLEN-KEY FILTER/REDESIGNED (BUTTERWORTH) FILTER THAT ACCEPTS CURRENTS AS INPUT, WI
LOW-NOISE HIGH SPEED IA. USING LINEARISED CROSS-QUAD CCT AS PRECISION DIFFERENTIAL OUTPUT VOLTA
LOW-NOISE CURRENT TRANSDUCER USING LOW-DRIFT FET. INPUT OA. WITH LOW BIAS CURRENT, & TEMPERATU
LOW-NOISE PREAMP. (BIAS & READOUT CCT) USING DUAL JFET. THAT IS THERMALLY ISOLATED FROM COLD PLA
LOW-CURRENT AMMETER
LOW-NOISE ACTIVE VOLTAGE SOURCE TO DRIVE COMPONENTS SENSITIVE TO EXTRINSIC NOISE & PS. ZERO-CR
LOW-NOISE FET.-INPUT DIFFERENTIAL AMP. USED AS 2ND STAGE DOR DC. SQUID. IN INSTRUMENTATION OF GRA
LOW-COST CONDUCTIVITY APPARATUS USING BLINKING RED LED. THAT WILL BLINK OR GLOW IN RESPONSE TO
60W MOS. POWER FET. PUSH-PULL CLASS B AMP.
LOW-NOISE CHARGE-SENSITIVE PREAMP. USING LECROY MONOLITHIC CCT CONFIGURED AS CHARGE-TO-VOLTA
60W VHF. AMP. USING SPLITTING-COMBINING TECHNIQUES, THAT OPERATES FROM 150 TO 175MHZ, USING 2 MO

DOWNCONVERTER TO RECEIVE 2.4GHZ VIDEO SIGNALS FROM MICROWAVE OVEN ATV. TRANSMITTER, WITH OUTPUT 60W P.E.P. LINEAR HF. AMP. WITH 40DB GAIN & 2-30MHZ FREQUENCY RANGE, USING RF. POWER FET.S, CLASS A

50W 500KHZ QUASIRESONANT BUCK CONVERTER TO VERIFY DC. VOLTAGE-CONVERSION RATIO PREDICTED BY

LOW-COST 1-BASE-5 COMPATIBLE TERMINAL USING TRANSCEIVER CHIPS & COMMUNICATION CONTROLLERS (BI

POWER MOSFET. MODULE WITH GATE OVERVOLTAGE PROTECTION USING CLAMPING ZENER DIODE, & SOURCE

POWER STAGE OF 20-100W BUCK PWM. ZCS (ZERO-CURRENT SWITCHING) QRC (QUASI-RESONANT CONVERTER)

LOW-POWER X-BAND RADAR TRANSMITTER CONSISTING OF 1-TRANSISTOR OSCILLATOR WITH 9TH HARMONIC A

POWER STAGE OF CLAMPED MODE SERIES RESONANT CONVERTER (CMSRC), BELOW RESONANT FREQUENCY,

50W 3.6MHZ DUAL RESONANT FORWARD CONVERTER WITH PRE-REGULATOR WITH SWITCHING FREQUENCY OF

POWER-LINE CARRIER-CURRENT MODEM/TYPICAL FSK. CCTS (2)

POWER STAGE OF PWM. DC.-TO-DC. CONVERTER CONSISTING OF CASCADE OF PASSIVE & ACTIVE BUCK STAGE

75W SOLID-STATE 6M LINEAR AMP.

15W CLASS-C AMP./SWITCH-AROUND DEVICE TO USE AMP. WITH HAND-HELD TRANSCEIVERS

POWER AMP. USING COMPLEMENTARY HEXFET. DEVICES IN OUTPUT STAGE, DELIVERING 60W INTO 40HM LOAD

1KW-LEVEL BUCK-TYPE SCRC (SINGLE-CYCLE RESONANT CONVERTER) INCLUDING 2 ACTIVE SWITCHES, FOR DC

50W 40V-5V DRFC (DUAL RESONANT FORWARD CONVERTER) (DC.-DC. CONVERTER) INCLUDING PRE-REGULATOR

25W 2M RF. POWER AMP. USING MOTOROLA BIPOLAR RF. TRANSISTOR ABLE TO DEVELOP 10DB GAIN AT 146MHZ

POWER-BACKUP CCT TO PROVIDE CONSTANT CHARGING CURRENT TO BATTERY, & SWITCH FROM VCC WITHOUT

40W QSK CW. MOSFET. AMP. FOR TRANSMITTING & RECEIVING, USING POWER MOSFET. & PNP TRANSISTOR, INC

1KW WIDEBAND 10-90MHZ FET. PUSH-PULL RF. AMP. USING 2 HIGH POWER MOSFET.S MATCHED FOR G1FS & GA

25W AUDIO AMP. USING POWER DRIVER MODULE/400W PUSH-PULL BRIDGE CCT USING 2 MODULES/MAGNETIC F

LOW-POWER MYOELECTRIC ELECTRODE SIGNAL AMP. CONSISTING OF VARIATION OF 3 OA. IA. CCT, USING BIPO

POWER-SWITCHING CCT THAT ACTS AS ADJUSTABLE, RESETTABLE CCT BREAKER, PROVIDING ON-OFF SWITCH

LOW-NOISE FET. CHARGE INTEGRATOR (PREAMP.) OF 2 IDENTICAL DETECTION CHANNELS, TO WHICH PHOTODI

DOWNCONVERTER USING MMIC.S/UPCONVERTER USING MMIC.S

POWER CHOPPER INCLUDING 6A GATE DRIVERS, POWER FET.S & OPTOISOLATORS WITH FAST DATA RATE FOR

LOW-NOISE CHARGE-SENSITIVE PREAMP. CONSISTING OF HYBRID UNIT WITH FET. IN 1ST STAGE, & 2 BUFFER AM

LOW-CURRENT WIDEBAND SPDT. SWITCH USING 2 ANTI-SERIES PAIRS OF SURFACE-MOUNT PIN DIODES FOR GO

"SWEET TALKER II" 3RD-GENERATION PHONETIC SPEECH SYNTHESIZER FOR APPLE COMPUTER BUS

LOW-COST RTC. ACCESSORY FOR TRS-80 BASED ON OKI SEMICONDUCTOR IC THAT FUNCTIONS AS RTC.-CALEN

4-WIRE INTERFACE TO ALLOW UP. TO CONTROL REMOTE 4-CHARACTER 7-SEGMENT LED. DISPLAY MODULE THA

20W CLASS-A MOSFET. AMP. USING FET.S IN OUTPUT STAGE, INCLUDING DIFFERENTIAL AMP., VOLTAGE AMP. &

LOW NOISE PREAMP. THAT IS COUPLED DIRECTLY TO DETECTOR

POWER-SAVING LOGIC CCT FOR CMOS. UP.S, USING BUILT-IN POWER-DOWN-POWER-SAVE OF UP. DURING INAC

POWER AMP. COMPRISING FINAL & DRIVER AMP.S INCLUDING ALL PASS NET WORKS, RESONATOR & TETRODE T

LOW-NOISE CHARGE-SENSITIVE PREAMP. FOR TRD, WHOSE INPUT JFET. IS PROTECTED AGAINST POSSIBLE SUR

LOW-NOISE PREAMP. BASED ON COMMON-DRAIN JFET. INPUT, FOR PREAMPLIFICATION OF 0.1 TO 10MHZ SIGNAL

LOW-COST, 1200 BAUD, FULL-DUPLEX MODEM TO INCREASE RANGE OF LOCAL DATA TERMINAL COMMUNICATIO

POWER CONTROL UNIT OF DEVICE FOR FLASHING XENON TUBES, USING TTL. PULSES TO TRIGGER XENON TUBI

LOW-COST DIGITAL INDICATOR TO DISPLAY TOTAL PLAYING TIME OF PHONO STYLUS

50W CLASS-D ZVS (ZERO-VOLTAGE-SWITCHING) RESONANT INVERTER WITH ZERO TURN-ON & TURN-OFF SWITC

TRW 1007 FRONT-ENDED WITH TRACK & HOLD AMP.

LOW-COST PRECISION BAROMETER INCLUDING CURRENT SOURCE THAT SENDS 1.5MA THROUGH PRESSURE TR

LOW-BATTERY DETECTOR/2-WIRE TEMPERATURE TRANSDUCER/THERMOSTAT CONTROLLER

LOW-POWER SH. CCT USING PRECISION OA. WITH LOW SUPPLY CURRENT, SINGLE-SUPPLY OPERATION & 0V HA

LOW-NOISE, LOW-DRIFT DC. AMP. THAT COMBINES LOW-NOISE OA. WITH CHOPPER-BASED CARRIER-MODULATIO

LOW NOISE, LOW POWER MICROPHONE PREAMP./PS. TO LEFT & RIGHT CHANNELS/CCT WITH OA. IN HIGH GAIN C

POWER-MOSFET. H-BRIDGE CCT TO DRIVE FRACTIONAL-HORSEPOWER MOTORS BIDIRECTIONALLY EFFICIENTLY

30W 140MHZ RF. POWER AMP. FOR CW. CO₂ WAVEGUIDE LASER EXCITATION, REQUIRING 40W FROM 28V DC. PS

90W POWER FLASHER TO REPLACE MECHANICAL DIRECTION-INDICATOR FLASHERS, CONSISTING OF ASTABLE MULTIVIBRATOR, LOW-TO-MEDIUM CURRENT DRIVER/HIGH CURRENT DRIVER USING POWER INTEGRATIONS IC DRIVING NPN POWER TRANSISTOR, LOW-COST ELECTRONIC BICYCLE ODOMETER THAT INDICATES DISTANCE TRAVELED IN MILES ON LCD. MIXER & 3 RF. AMP.S/IF. OR RF. AMP./SINGLE-ENDED ACTIVE MIXER/SINGLY BALANCED ACTIVE MIXER MUX.ED TEMPERATURE-SENSING CCT TO ACQUIRE & TRANSMIT 15 TEMPERATURE SIGNALS OVER 1 COMMUNICATIONS CHANNEL. TEXAS INSTRUMENTS PROFESSIONAL COMPUTER'S SYSTEM UNIT BOARD (BBB) MSX 8-SLOT BUS BOARD VOX (VOICE-OPERATED SWITCH) TIMER TO ENABLE VOX, COMPRISING OSCILLATOR & COUNTER, DIGITAL PULSE GENERATOR, MAXIMUM-VOLTAGE DETECTOR MIXER DESIGNED TO ALLOW TOY TANK TO BE CONTROLLED FROM RESISTIVE JOYSTICK CONTROLLER HEX KEYPAD ENCODER WITH RAM. MUX. TO ALLOW EXPANSION OF APPLE MAC COMPUTER TO 512K OF RAM. 32X8-BIT PROM. CCT WHOSE CONTENTS GENERATE REPEATING 4-LINE OUTPUT SEQUENCE WHEN DRIVEN BY CLOCK. HEXADECIMAL DISPLAY BOARD/CCT TO AUTOMATE PROGRAMMING/GANG-PROGRAMMING BOARD HEX FF. PORTION OF CCT FOR 6-LANE RACE JUDGE/DISPLAY CCT/DETECTOR USING 6 PHOTOTRANSISTORS & NPN TRANSISTORS. MIXER BASED ON D FF.S, THAT OVERCOMES PROBLEM OF OUTPUT JITTER CAUSED BY INPUT PHASE NOISE, USING 2 CHANNELS. MUX. INCLUDING LEVEL SHIFTER/1 CHANNEL OF VOLTAGE AMP. WITH GAIN OF 500, INPUT RESISTANCE OF 60K OHMS. PIXEL-TO-SOUND CONVERTER THAT TRIGGERS BUZZER WHEN PIXELS ARE ACTUATED, USING PHOTODIODE & COMPARATOR. PIXEL CLOCK GENERATOR CONTROLLED BY HORIZONTAL SYNC PULSE OF DIGITAL VIDEO SYSTEM, NOT REQUIRING EXTERNAL CLOCK. FIXED-FREQUENCY TRIANGLE-WAVE GENERATOR, THAT FUNCTIONS BY CHARGING & DISCHARGING CAPACITOR WITH A TRIANGULAR WAVEFORM. MUX. TO DISPLAY 2 PRESSURE SIGNALS ON 1 OSCILLOSCOPE CHANNEL, USING 2 CMOS. ANALOG SWITCHES ENABLING EITHER CHANNEL. TOXIC GAS ALARM THAT DETECTS GASES SUCH AS CARBON MONOXIDE & METHANE, & SOUNDS WARNING BEFORE GASES REACH HAZARDOUS LEVELS. MUX.-TONE & 3-POLE LPF. WITH FLAT RESPONSE WITHIN 0.5DB TO 15KHZ & -24DB AT 19KHZ/INPUT STAGE FOR 4 CHANNELS. AUXILIARY EPROM. PROGRAMMER BOARD THAT PLUGS INTO PIA. PARALLEL-PORT CONNECTORS ON BCC180. AUXILIARY CCT OF UP. OF PROGRAMMABLE CARDIAC STIMULATOR, INCLUDING CHANNEL SELECTION, STIMULATION RATE, & STIMULATION DURATION. NEXT COMPUTER INCLUDING OPTICAL DRIVE, 25MHZ CPU., BUILT-IN FLOATING POINT, DSP., 8MBYTES OF RAM. & 128KBYTES OF EPROM. NEXT COMPUTER INCLUDING BUFFERED DMA. CONTROLLERS TO ORCHESTRATE DATA FLOW, CPU., & DSP. CHIP. DAX VERSION OF SINGLE-AMP. BANDPASS NETWORK/OA. WITH SINGLE-POLE ROLL-OFF COMPENSATION/SAME VOLTAGE GAIN. AUXILIARY DEVICE (SUMMING OA.) FOR MULTICOMPONENT POTENTIOMETRIC TITRATION WITH 2 INDICATOR ELECTRODES. MUX. WITH POSITIVE & NEGATIVE GAIN/INVERTING ANALOG MUX./DUAL-OUTPUT PULSE GENERATOR MAXIMUM-MINIMUM VOLTAGE DETECTOR THAT TRACKS HIGHEST OR LOWEST VOLTAGE, USING DAC./LIGHT-SENSITIVE RESISTOR. MIXER, FILTER, & VFO. SECTIONS/DETECTOR, IF. AMP., & BFO./AUDIO SECTION MEX6801 MICROCOMPUTER EVALUATION MODULE THAT PERMITS SYSTEM DESIGNER TO CONFIGURE HARDWARE. AUXILIARY DIGITAL OUTPUT CCT USING AUDIO DIGITAL OUTPUT CCT, TO CONVERT DIGITAL DATA TO PHILIPS-SOUND. MUX.ED INTERFACE BETWEEN UP. (MPU.) & CMOS. RTC. COMBINING CLOCK & CALENDAR, 50 BYTES OF SRAM. & 128 BYTES OF EPROM. PBX.-CPU. INTERFACE THAT APPEARS AS MODEM TO CPU., & AS PHONE TO PBX., WITH SELECTABLE RS-232C RATE. MAXIMUM VALUE DETECTOR COMPOSED OF WIRED-OR CONNECTION OF LED.-CDS PHOTOCOUPLEDERS USED AS SENSORS. HEXFET. VARIABLE VOLTAGE SWITCH INCLUDING PHASE SPLITTER/XENON FLASH CCT USING OPTOCOUPLER TO DRIVE. FIXED-FREQUENCY PWM. PERMANENT-MAGNET STEPPER MOTOR DRIVE THAT GIVES 800 MICROSTEPS PER REVOLUTION. MUX.ED LED. DISPLAY CCT USING SINGLE 22401 PRECISION TIMER-DRIVER IC TO DRIVE DISPLAY (BBB) MUX.ED INTERFACE THAT ALLOWS 12- OR 16-BIT ADC. TO OPERATE WITH 8-BIT UP., WITH DATA ENTERING UP. VIA SERIAL PORT. TCXO TO TRANSMIT TO TRACKING SATELLITE OR TO HORIZON/SMALL TRANSMITTER TO LOCATE UNCONSCIOUS PERSON. PIXIE GRAPHICS DISPLAY SYSTEM/CCT THAT MAY BE USED TO REPLACE CRYSTAL USED IN ELF MICROCOMPUTER. MUX.ING SYSTEM TO COMBINE MEASUREMENTS FROM 3 SOURCES/MUX. DRIVEN BY 4-PHASE CLOCK/DEMUX./ANALOG MULTIPLEXER. AUXILIARY INPUT BUFFER/MICROPHONE PREAMP./PHONO PREAMP/MIXING & MONITORING CCT/OUTPUT STAGE/ANALOG MULTIPLEXER. MUX. DAS. USING SH. CCT/4-BIT DAC./LEVEL CONVERTER USING ANALOG SWITCH/AUDIO & VIDEO SOURCE SELECTOR. BOXCAR SIGNAL AVERAGER USING INTEL 8085AH 8-BIT UP., FOR PROCESSING FREE-INDUCTION DECAY (FID) SIGNALS. MAXIMALLY FLAT BUTTERWORTH CCT USING SWITCHED-CAPACITOR IC FILTER (SCF)/5TH-ORDER LOW-PASS (LP) FILTER. MIXER WHOSE GAIN CAN BE VARIED CONTINUOUSLY BETWEEN +1 & -1 FOR WORK IN MULTI-MICROPHONE RECORDING.

MIXER & MOD. OSCILLATOR OF TYPICAL TRANSISTOR AM. RADIO/BFO. USING 455KHZ IF. TRANSFORMER, & PRO
MIXER CCT USING DBM. IC/MIXER CCT SUITABLE FOR "FRONT END" FOR HIGH PERFORMANCE HF. RECEIVER, WI
TEXAS INSTRUMENTS' SN28827 SONAR RANGING MODULE THAT TRANSMITS 16 CYCLES OF ULTRASONIC WAVES
RPX-EVL1 INTERFACE TO PC. AT HOST (2)(BBB)/CCT USING RPX TO CONTROL DRAM./RASTER-PRINTER (PRINTER
MUX. USING REED RELAYS, CONTROLLED VIA 6522 VIA. INTERFACE CARD PROVIDING 8 LATCHED CONTROL LINE
MIXER THAT MIXES AUDIO SIGNALS BY SAMPLING SIGNALS AT ~40KHZ IN SEQUENTIAL ORDER, INCLUDING 2ND-C
TEXAS INSTRUMENTS SN28827 SONAR-RANGING MODULE USING SONAR-RANGING CONTROLLER-RECEIVER SET
FIXED-OUTPUT, ADJUSTABLE & PROTECTED REGULATORS USING 3-TERMINAL REGULATOR IC (3)/REGULATOR W
MAXIMUM ENTROPY (MAXENT) MULTIPLY CONNECTED CCT INCLUDING SIGNAL NODE #1, AVERAGE THROW CON
MUX. SWITCHED BY OPTIOCAL PULSES FROM MICROCONTROLLER/CCT USING VFC./CCT USING UP. TO COMPUT
BAXANDALL TONE-CONTROL CCT USING DIGITAL POTENTIOMETERS TO CONTROL AUDIO USING UP./CCT TO COM
MPX-16 COMPUTER SYSTEM'S MAIN CCT BOARD (8088-BASED SYSTEM WITH PRINCIPLES OF OPERATION SIMILAR
AUXILIARY SERVO CONTROLLER OPERATING BIDIRECTIONAL SERVO VALVE (HYDRAULIC CCT), FOR CONTROLLE
MUX. TO REDUCE 7 TWISTED-PAIR LINES FOR 4-TO-20MA SIGNALS TO 1, USING 8 ANALOG SWITCHES DRIVEN BY
SWX6 SW. RECEIVER INCLUDING MIXERS, IF. AMP.S, VFO., AGC., DETECTOR & AUDIO AMP./CRYSTAL-CONTROLLE
FIXTURE TO TEST TRANSCIEVER'S ABILITY TO OPERATE ON MODE-A AMTOR/10HZ OSCILLATOR WITH 50% DUTY
HEXADECIMAL DISPLAY CCT THAT LOOKS AT DATA FLOW BETWEEN COMPUTERS & PERIPHERALS IN RS-232-C LI
50X AUDIO PREAMP.

MUX.ING CCT USING 0.5IN, 7-SEGMENT, COMMON-CATHODE DISPLAY TO PROVIDE LARGE, EASY-TO-READ OUTB
AUX-7 PROGRAMMING BOARD SUBSTITUTE CCT FOR ADDING NEW WARC.S BANDS TO DRAKE TR-7 TRANSCIEVE
MUX. OF TELEMETRY SYSTEM, INCLUDING STRAIN GAGE AMP.S, ANALOG SWITCHES & CONTROLLER/PCM. INCLU
TEXT-TO-SPEECH (COMPUTER VOICE) SYNTHESIZER THAT ACCEPTS OUTPUT FROM RS-232 PORT & CONVERTS
AUXILIARY-LINE AMP. WITH IMPROVED CMRR. & PSRR, WITH ADDED CASCODED INPUT & OUTPUT STAGES/FET. C
MIXER CCT WITH LPF. IS USED FOR OUTPUT/BALANCED MIXER IN PRODUCT-DETECTOR/9MHZ DSBSC GENERATO
MAXIMUM POWER TRACKER (MPT) TO TRACK AMOUNT OF POWER SUPPLIED BY SOURCE TO LOAD & CONTROL S
MIXER CCT THAT CONVERTS 880MHZ RF. INPUT SIGNALS INTO 45MHZ IF., USING 835MHZ LO./LOW-NOISE 850-TO-
FAX-MATE THAT ALLOWS BOTH FAX (DIGITAL DATA) & VOICE COMMUNICATION ON SINGLE TELEPHONE LINE, USI
MUX. FOR 4-TO-20MA ANALOG PROCESS-CONTROL SIGNALS/+-10V DAS.

MUX.ED PWM. VIDEO TRANSMITTER FOR OPERATION WITH 1V PPK COMPOSITE VIDEO SIGNALS INTO 75OHM/MU
KEYER USING 2 LOGIC-CCT ELEMENTS: 2-INPUT NAND GATES & JK FF.S/CCT USING KEYING TRANSISTOR FOR CA
KEYPAD DEMONSTRATOR USING 16-KEY ENCODER CHIP, MICROCONTROLLER, 4X4 MATRIX-ENCODED KEYPAD,
SKY BUDDY (HALLICRAFTERS S-19R RADIO) INCLUDING OSCILLATOR-MIXER, IF. TUBE, DETECTOR-1ST AUDIO AM
CRYSTAL (TRANSDUCER) DRIVER, WITH SINUSOIDAL SIGNAL FROM FUNCTION GENERATOR AMPLIFIED BY OA., V
FLY-FORWARD CONVERTER/SINGLE-HEXFET. 25W SMPS.

CRYSTAL-CONTROLLED TIMER COVERING 3S-6HR RANGE AT 1S RESOLUTION, INCLUDING FREQUENCY GENERA
KEYER BASED ON CURTIS IC/SWR. METER/METER SWITCH CCT/AUDIO THUMP SUPPRESSOR TO SUPPRESS THU
KEYBOARD ENCODER EMPLOYING BCD.

KEYER & OUTPUT CCTS OF ELECTRONIC KEYER, USING KEYER CHIP/DISPLAY SEQUENCING LOGIC/COUNTER & V
THYRISTOR SPEED CONTROL FOR MILLING MACHINE TABLE FEED DRIVE SYSTEM, GIVING STEPLESS CONTROL I
KEYBOARD TESTER TO DECODE OUTPUT OF ASCII.-ENCODED KEYBOARD INTO HEXADECIMAL REPRESENTATION
CRYSTAL CONTROLLED FREQUENCY AND AMPLITUDE CALIBRATOR FOR OLDER HF. RECEIVERS & SPECTRUM AN
FLYING-CAPACITOR MUX. FOR LOW-LEVEL SIGNALS, USING 2 PHOTOVOLTAIC RELAYS & CAPACITOR
FLYING SPOT SCANNER CCT TO ALLOW STANDARD SEM. TO BE CONVERTED INTO LOW-COST ELECTRON BEAM
CRYSTAL-CONTROLLED OSCILLATOR/TRIANGLE WAVE GENERATOR/TRIANGLE-TO-SINE WAVE CONVERTER/SUM
CRYSTAL-CONTROLLED OSCILLATOR FOR TELESCOPE'S SYNCHRONOUS-MOTOR DRIVE

KEYBOARD AUTO-REPEAT CCT THAT GIVES USER REPEAT FACILITY ON EVERY KEY ON KEYBOARD, USING MON
KEYBOARD ENCODER THAT HAS ROLL-OVER PROTECTION & LETTERS-ONLY SHIFT LOCK, & CAN PRODUCE 128 A
ASYNCHRONOUS SORTING CCT TO SORT SMALL FRUITS FOR RIPENESS, CONSISTING OF MATURITY DISCRIMINA
KEYBOARD-SPLITTER CCT TO COMBINE 2 SIGNALS IN 1/FUNCTION-KEY-GENERATOR CCT USING 20-KEY ENCODE

JOYSTICK INTERFACE USING DUAL TIMER CONFIGURED AS 2 MONOSTABLE MULTIVIBRATORS, WITH INTERVAL C
KEYBOARD AUTO-REPEAT CCT
TOY ORGAN
KEYBOARD ENCODER THAT PERFORMS FUNCTIONS OF PARALLEL OR SERIAL KEYBOARD, INCLUDING UP., PRO
PHYSICAL ACTIVITY RATE METER THAT MEASURES ACCELERATION OF BACK WITH STRAIN GAUGE ACCELEROM
KEYBOARD CCT USING ENCODER/MEMORY BOARD/CENTRAL PROCESSOR INCLUDING CPU./BUS-BAR INDICATOR
CRYOGENIC PREAMP.
KEY-GENERATOR LOGIC/MICROCOMPUTER-BASED DATA ENCRYPTOR/LEVEL-CONVERTER
CRYSTAL OSCILLATOR USING DIFFERENTIAL AMP. WITH BUFFERED OUTPUTS, WITH LOWER OUTPUT IMPEDANC
CRYSTAL-CONTROLLED TRANSMITTER INCLUDING PRESSURE TRANSDUCER (PT), AMP., VCO. SUBCARRIER MOD
OXYGEN GAUGE, THERMOCOUPLE AMP.S & ANALOGUE DIVIDER/REFERENCE VOLTAGE CCT, ERROR & POWER A
KAYCOMP 68000 UP. (COMPUTER) BOARD WITH G64 BUS INTERFACE & PERIPHERAL IC'S (DUART. & PERIPHERAL
KEYER THAT USES SIMPLE UNENCODED KEYBOARD OR ASCII.-ENCODED KEYBOARD, USING SINGLE-CHIP UP., 2
KEYLESS LOCK CCT THAT COMPARES MORSE-CODED PULSE SEQUENCE ENTERED WITH PRESELECTED CODE
CRYSTAL-CONTROLLED UJT. OSCILLATOR/CMOS. CRYSTAL OSCILLATOR/CLOCK GENERATOR/60HZ & 1HZ TIMEB
CRYSTAL BRIDGE INCLUDING PHASE SHIFTER, AMP., LIMITER & ENVELOPE DETECTOR, TO MEASURE PARAMETE
KEY-THUMP SUPPRESSER FOR HEATH HW-9 RIG, USING CMOS. CHIP (CONTAINING SWITCHES) TO MUTE AUDIO V
CRYSTAL OSCILLATOR USING 2 INPUT NAND GATE/OSCILLATORS USING INVERTER (2)/OVERTONE OSCILLATOR
CRYSTAL-CONTROLLED FREQUENCY-SYNTHESIZED DC.-AC.-INVERTER/LINE-POWERED SUPPLY
CRYSTAL CONTROLLED RF. TEMPERATURE TRANSMITTER TO TRANSMIT PULSES WITH INTERVALS PROPORTION
OXYGEN ASHING SUPPLEMENTARY CCT USING CMOS. ANALOG SWITCHES & FAIL-SAFE SYSTEM TO PREVENT O
FLYBACK DC.-DC. CONVERTER FOR 5V TO 2000V, USING CMOS. NONINVERTING BUFFERS/DC.-DC. CONVERTER F
KEYBOARD THAT CAN PRODUCE EVERY CODE BUT CAN BE HOOKED UP AS STANDARD KEYBOARD, USING MATR
JOYSTICK INPUT CCT FOR PCJR (PC.JR) COMPUTER, USING QUAD TIMER IC
CRYSTAL MAINTAINING CCT (3)/FREQUENCY-TO-VOLTAGE (F-V) CONVERTER/FILTRATION CCT/CLOCK-DIVIDER S
ASYNCHRONOUS DM. INVERTER (ADMI) USING DIFFERENTIAL AMP. THAT COMPARES INPUT & FEEDBACK SIGNAL
KLYSTRON ANODE DRIVER OF HOMODYNE MICROWAVE-BRIDGE SPECTROMETER WITH AFC. CCT, INCLUDING IN
CRYSTAL TESTER FOR RF. OSCILLATORS IN 1-120MHZ RANGE
CRYOGENICALLY COOLED 1-2GHZ LOW-NOISE PREAMP. USING MITSUBISHI GAASFET.S, WITH AVERAGE GAIN OF
CRYSTAL-CONTROLLED TOUCH-TONE(R) PAD FOR INITIATING TELEPHONE CALLS FROM VEHICLES
CRYSTAL-CONTROLLED 12W 80M TRANSMITTER USING 6L6 TUBE/HV. PS. & LV. SUPPLY, WITH RELAY FOR RECEI
FLY-BACK-TRANSFORMER SWITCHING REGULATOR/LOW-BATTERY DETECTION CCT/SAME WITH BACKUP CCTS (2
CRYOGENIC AF. AMP. WITH CLOSED LOOP VOLTAGE GAIN OF 100, USING DUAL N-CHANNEL JFET. & OA. CHIP, TO
OXYGEN (PI02) CONTROL CCT FOR HYPOXIA CHAMBER, INCLUDING CURRENT-TO-VOLTAGE CONVERTER, SUMM
ASYMMETRICAL-TO-SYMMETRICAL CONVERTER TO ELIMINATE HUM-&-NOISE LOOPS BY PROVIDING ISOLATION E
X-Y LED. DRIVER TO DRIVE DIGITAL OSCILLOSCOPE DISPLAY CONSISTING OF 100 LED.S IN 10X10 SQUARE, USIN
KEYBOARD CONVERSION CCT USING 3 HEX 3-STATE BUFFERS TO CONVERT SPST. KEYBOARD OUTPUT TO COLU
CRYSTAL OVEN USING \$2 IC TEMPERATURE CONTROLLER (CONTROL & SENSING CCT), & PILOT LAMPS FOR HEA
CRYSTAL CALIBRATOR/ATTENUATOR/MIXERS (2)/CRYSTAL OSCILLATOR/VFO./IF. AMP.S (4)/IF. BUFFER & NOISE L
JOYSTICK CCT INCLUDING PIA.S, COMPARATOR & ANALOG SWITCH/LIGHT DETECTOR USING CDS PHOTOCELL/T
CRYSTAL RADIO RECEIVER USING IC OUTPUT AUDIO AMP.
JOYSTICK-CONTROLLED MIXER AMP./DUAL-TONE MIXER/PERCUSSION-INSTRUMENT SYNTHESIZER/CCT USING A
CRYSTAL TESTER USING TRANSISTORS/IMPROVED CRYSTAL TESTER USING LED.S FOR GO-NO-GO & BATTERY I
CRYSTAL-CONTROLLED TIME BASE FOR FIELD USE WITH DEVICES SUCH AS DIGITAL CLOCKS & SPORTS TIMERS
CRYSTAL BOX MEAN-TIMER CCT TO DETERMINE AVERAGE OF TRANSIT TIME OF LIGHT FROM EVENT IN SCINTILL
CRYSTAL OSCILLATOR BASED FREQUENCY GENERATOR & BIMORPH DRIVER CCT, INCLUDING ADC. & BINARY DC
KEY-CHAIN TRANSMITTER TO GENERATE RED OR NIR. BEAM THAT PULSATES AT 725HZ/OPTOELECTRONIC RED-
FLYBACK CONVERTER FROM SMPS. CCT/FORWARD CONVERTER/VOLTAGE REGULATOR FOR OPTICALLY POWER
CRYSTAL-CONTROLLED 40KHZ ULTRASONIC TRANSMITTER/ULTRASONIC RECEIVER/PERIOD-TO-VOLTAGE CONV

Sheet1

CRYSTAL DETECTOR PROBE FOR USE WITH ANY SCOPE
CRYSTAL-CONTROLLED HARTLEY OSCILLATOR/COLPITTS OSCILLATOR/ASTABLE MULTIVIBRATOR/AUDIO AMP./A
CRYSTAL-CONTROLLED TRANSISTOR REFLECTION OSCILLATOR USING CONCEPT THAT TAKES ADVANTAGE OF C
KLYSTRON PS. & SQUARE WAVE GENERATOR (BBB)
CRYSTAL TESTER TO TEST ANY CRYSTAL FROM 50KHZ THROUGH VHF. & DRIVE COUNTER TO CHECK FREQUEN
CRYSTAL OSCILLATOR (TESTER) TO TEST DUAL-GATE MOSFET., USING GERMANIUM DIODE DOUBLER & HF. FUN
CRYSTAL OSCILLATOR FOR PROVIDING SPOT FREQUENCIES/SIMPLE INEXPENSIVE VHF.-UHF. SIGNAL GENERAT
KEYBOARD ENCODER
CRYSTAL RADIO (RECEIVER) USING GERMANIUM DIODE & TAPPED RF. COIL & VARIABLE CAPACITOR TO ALLOW I
KEY PULSE GENERATOR TO WHICH BLUE VIDEO OUTPUT OF RGB. DECODER IS ROUTED IN CHROMA-KEY INTER
KRYTRON-BASED PULSE GENERATOR FOR POCKELS CELL, SUPPLYING EHT. PULSES WITH AMPLITUDES BETWE
CRYSTAL-CONTROLLED PIERCE OSCILLATOR/1-TRANSISTOR LOW-POWER CW. TRANSMITTER
CRYSTAL RADIO (CRYSTAL RECEIVER)
CRYSTAL-CONTROLLED COLPITTS OSCILLATORS (2)/MILLER OSCILLATOR USING FET. & TUNED-DRAIN CCT
CRYSTAL SET/REGENERATIVE RECEIVER CCT
DRY CELL CHARGER
CRYSTAL-CONTROLLED Q METER/SOURCE FOLLOWER & RF. AMP. STAGES/IC-REGULATED 12V SUPPLY
CRYSTAL CHECKER
CRYSTAL CALIBRATOR CCT
JOYSTICK INTERFACE USING ADC. TO GIVE X & Y COORDINATES OF JOYSTICK POTENTIOMETERS, WITH 500US C
CRYSTAL-CONTROLLED SIGNAL GENERATOR/TUNABLE HF.-BAND SIGNAL GENERATOR/AF. GENERATOR
FLYBACK-TYPE PS. USING MOS. SWITCH, PRIMARY OVERCURRENT PROTECTION & SOFT-START/CURRENT-MODE
CRYSTAL-CONTROLLED SIGNAL SOURCE/AF.-RF. SIGNAL INJECTOR/SIMPLE LOW-POWER TRANSMITTER/VFO. CO
CRYSTAL OSCILLATOR WORKING AT FUNDAMENTAL FREQUENCY IN UHF. & MICROWAVE PART OF SPECTRUM, U
CRYSTAL OSCILLATOR USING MOTOROLA BIPOLAR TRANSISTOR, WITH FUNDAMENTAL RESONANT FREQUENCY
CRYSTAL-CONTROLLED 1-TRANSISTOR POWER OSCILLATOR
CRYSTAL TEST OSCILLATOR TO TEST 5TH OVERTONE CRYSTALS CUT FOR 65 TO 72MHZ AT HIGHER-ORDER OVE
KEYSWITCH ENCODER THAT SENDS SWITCH-CLOSURE INFORMATION OVER GREAT DISTANCES IN NOISY ENVIR
FLYBACK CONVERTER WITH OUTPUT OF 114V DC. & 250OHM WIRE WOUND RESISTOR LOAD/DRIVEN PS. INCLUDI
FLYBACK CONVERTER CCT TO CHECK TRANSFORMER PERFORMANCE (TO CARRY OUT PERFORMANCE VERIFIC
KEYING CCT OF KENWOOD TR-7010 TRANSCEIVER/ACTIVE KEY-CLICK FILTER
KEYBOARD-SOLENOID INTERFACE OF INSTRUMENT THAT ENABLES NUMBER TO BE RADIOGRAPHICALLY RECOR
THYRATRON PULSE GENERATOR TO DRIVE PULSED METAL (COPPER) VAPOR LASER (MVL), WITH PULSE-REPETI
THYRATRON CCT (HV. PULSER) FOR PULSING BUNCHER, INCLUDING AVALANCH TRANSISTOR, & ZENER DIODE T
KEYPAD SCANNER FOR CRT. CONTROLLER, INCLUDING 1-OF-8 DATA SELECTOR TO SENSE KEYPAD MATRIX, & 1-
1HZ SIGNAL SOURCE (CLOCK) USING NATIONAL SEMICONDUCTOR CHIP & 32768HZ CRYSTAL
NRZ. TO MANCHESTER II ENCODING CCTS FOR RECORDING NRZ. DIGITAL DATA FORMATTED WITH 1 BIT DIGITIZ
SIZE 3 DECODER OF COMPARE-&-DECODE SCHEME OF 1-D SIZE 5 MEDIAN FILTER, FOR COMPUTATION OF MEDIA
1HZ-10MHZ FREQUENCY COUNTER USING 7-DECADE COUNTER, OSCILLATOR CONTROLLER & BIFET. OA., USING
1HZ TIMING PULSE GENERATOR & PENDULUM CCT OF CLOCK/COUNTER-DECODER FOR SECONDS & MINUTES S
NRZ. TRANSMITTER USING TTL. DRIVER TO DRIVE LED./NRZ. RECEIVER WITH FRONT END CONSISTING OF INTEGR
E-Z COLOR GRAPHICS INTERFACE INTENDED FOR USE WITH APPLE II COMPUTER, USING VIDEO DISPLAY PROC
FUZZ CCT THAT CAN BE ADDED TO EXISTING AMP.
1HZ-TO-1MHZ VFC. WITH INPUT CURRENT CONTROLLED BY OUTPUT FREQUENCY
1HZ TO 30MHZ VFC.
CO₂ INTERFACE CCT FOR MONITORS THAT INCORPORATE DC.-PULSED OR AC. METHOD OF TRANSDUCER EXCI
LN₂ MONITOR TO PROTECT DETECTOR SYSTEMS AGAINST WARMUP BY MONITORING LIQUID LEVEL IN DEWAR &
AU⁻ (GOLD) ION GUN WITH 3-ELEMENT FOCUSING LENS (PLATES) & CS⁺ (CESIUM) ION GUN FILAMENT CONTROL

Sheet1

EXTRAKW,C,50	A_D,LEIFOPR	COREM1,C,5	
DIODE/VOLTAGE DROP/FLASH/LIGHTS/OPEN-CCT/SHORT CCT	D	1 N N	
TYPES OF BOARDS/PHOTO-ETCHING/PHOTOSENSITIVE/PCB.	A	3 Y N	
PUMP/ENERGY/TEMPERATURE/OSCILLATOR/RIPPLE COUNTER	DA	2 N N	E
INTEL/MICROCOMPUTER/OA.S/555 TIMER/DISPLAY/GATES	DA	8 N N	C
HARD/UP./FLOPPY DISC/CPU.	D	2 N	
SYRINGE/AUTOTITRATION/MEASUREMENT/BACKGROUND	DA	6 N N	C E
DESELECT/REMOTE/LOCAL/STROBE/SET/RESET/TTL.	DA	2 N N	C
FOR CMOS./TTL./VOLTAGE/VARIABLE/0.5%	A	3 N	
FOLLOWERS/SUBTRACTOR/CONDUCTIVITY CELL/DUMMY/<\$1CA	2 N N	C	8
PREREGULATION/POWER TRANSISTOR/VOLTAGE/INDUCTORS	AD	7 N N	C
MMIC. AMP./MOSFET./WIDEBAND	A	2	C
SHIELD/VARIABLE CAPACITORS/TUNE/SOURCE/"DEAD BUG"	A	3 N N	
VFC./TTL./COMPARATOR/JFET. INPUT OA./PHOTOMETER	AD	5 N N	C
ADJUSTABLE CURRENT SOURCE/BIASING/RABBIT/CDF/X16	A	4 N N	C
SCR. CROWBAR/OVERVOLTAGE PROTECTION	A	4 N	
AC./VOLT-AMP METER/BRIDGE RECTIFIER	A	3 Y	C
WORD-RECOGNITION/RS FF./ADDRESS OR DATA BUS/UP.	D	2 N N	C
GAME IO./PROGRAM/<\$20/AMPLIFICATION	A	3 N Y	
OSCILLATOR/LED./MULTIPLICATION/PARALLEL	D	5 N	C
PORTABLE INSTRUMENTS/BCD./AND GATE/SHIELD/COUNTERS	D	3 N N	C
ADDRESS SCAN/AUTOMATIC CW./VARIABLE CLOCK/RELAY	D	4 N N	C 31
GPIB./BUS TRANSCEIVER/NRFD ARBITRATOR	D	3 N	C
RF./MICROSTRIP IMPEDANCE/COAXIAL CABLE/TESTING	AD	5 N N	C
MEASURING NOISE/VU/OA.S/DBM/DECIBEL	A	4 N	
PMT.S/AND GATES/DRIVER DECODERS/SHIFT REGISTERS	DA	3 N N	C
HIGH IMPEDANCE/OUTPUT RESISTOR/NEGATIVE PULSE	D	1 N N	C
MINUTES REMAINING/MANUAL RESET SWITCH/SOUND/RIGS	D	1 N N	
10MIN/STATION/QSO/LIGHT/TIMING CYCLE/PUSHBUTTON	AD	1 Y N	
		1	
SCAN & UNSCAN/DAC.S/COMPUTER-CONTROLLED/PC./STEM	AD	5 N N	C
MICROCOMPUTER SOFTWARE DEVELOPMENT/EPROM./MEMORDA		1 N N	
AA BATTERY HOLDER/SPST. TOGGLE SWITCH/CAPACITOR	A	2 N N	2/30
UP./BROWNOUTS/DC.	A	1	
SWITCH SELECTABLE BAUD RATES/DATA TRANSFER/LINES	DA	2 N Y	
7-SEGMENT DISPLAY/MEASURING DIODE RESISTANCES	A	3 N N	C
BCD./PH-MILLIVOLT METER/7446/MEASUREMENTS	AD	1 N N	C
UP./VSP/ADAPTIVE DELTA MODULATION (ADM)/GENERATOR	DA	3 N Y	C
PULSED WITH 20KV/HGCL ₂ /SCANNING MONOCHROMATOR/UV.	A	3 N N	C
BUFFER/IN & OUT OF CCT/RAM./ROM./COMPUTERS/2MHZ	DA	6 Y N	C
LOW-DROPOUT LINEAR REGULATOR/TRANSFORMER/EEPROM.S	A	1 N N	C
12-KEY KEYBOARD/DISPLAY/GATES/MACRO CELL/PLA.S	DA	9 Y Y	C
STABILIZES/MATCHING CCT/VHF. AMP./RF./PLASMA	A	5 Y N	C 25
SENSOR/ADC./SENDER WIRE/MONITORING/ANNUNCIATOR	AD	7 Y N	C 30
SERIES PASS TRANSISTOR/HIGH CURRENT/6V D-CELL/5AH	A	6 N N	
RCA/3.5 DIGIT DVM.S/LCD./LED./VOLTAGE REGULATOR	AD	2 N N	C 39
TRANSISTORS/VOLTAGE-CONTROLLED RESISTOR/AUDIO/SNR.	AD	4 N N	
CHROMINANCE/CCD./DE-EMPHASIS/NOISE CANCEL	A	2 N	
DPM./PCB.S/REDOX TITRATIONS/MEASUREMENTS/CHEMICAL	A	3 N N	C

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LATCHES HIGH/UNTIL IT IS RESET/DRAWS 1.5UA	AD	2 N	N	10
REED SWITCH/TELEPHONE/UP.	AD	4 Y		
PULSE DETECTOR/CHANNEL SELECT LOGIC/POWER ON RESET	AD	7 Y	N	
REFLUX OESOPHAGITIS/DATA/FET.-INPUT ELECTROMETER	A	4 N	N C	
HV./DETECTOR/BARREL SCINTILLATION COUNTERS/TRIGGER	A	9 N	N C	
"TRACKBALL-SIMULATOR"/MICROCOMPUTER/PROBES/SENSOR	AD	6 N	N	
UP./ADDRESS TAGS/EXCLUSIVE-NOR/HIGH-SPEED/DATA	D	6 N	N C	
FILAMENT/CATHODE-DRIVEN/GRID/PROJECT	A	5 N		
RF. DRIVER/MIX DOWN AMP./OSCILLATOR	AD	6 N	C	
OUTPUT LATCH/BUFFER/ANALOGUE SWITCH	AD	6		
SAWTOOTH WAVEFORM GENERATOR PROGRAM	AD	4 N		
SMATCH/FREQUENCY DISCRIMINATOR/ANALOG DIVIDER	AD	9 N	N C	
QUADRATURE DETECTOR/MOSFET./RF./PREAMP./VHF./HAMS	A	5 Y	N	AJ
ON-FREQUENCY PRODUCT DETECTOR/LO./AUDIO AMP./VFO.	A	3 Y	N C	
MEMORY ADDRESS/ANALOG/DATA ACQUISITION	DA	4 Y	C	
4 DIFFERENTIAL CHANNELS/TIMER/GAIN	DA	5 N	C	42
LOAD CURRENT/IA./FEEDBACK LOOP	AD	4 N	N C	
PORT/SOFTWARE/ANALOG-DIGITAL/INTERRUPT	DA	6 N	C	
PULSE HEIGHT STORE/BINARY COUNTER/SPECTROSCOPY	AD	5 N	N C	61
BUCK REGULATOR/INVERTING/STEP UP	A	4 N		
FRAME TRANSFER/TTL./REGISTER/VIDEO	DA	7 N	C	
\$10/FORWARD GAIN, 22DB/MOD./220 & 432MHZ/RESPONSE	A	2 Y	N	
CONVERTER/MOSFET./PI-ATTENUATOR/HF./COIL	A	4 Y		
PEAK DYNAMIC-RANGE EXPANDER/DISCS	A	5	C	
CLOCK PULSES/2 PHASE/INTEGRATOR/SUBTRACTOR	AD	2 N	N C	
VARIABLE CAPACITOR/ON-BOARD VXO/PI NETWORK/+12V	A	1 Y	N C	
CORE/10V FULL SCALE/INPUT FREQUENCY/OFFSET ADJUST	A	2 N	N C	
4TH-ORDER/FORWARD/BACKWARD DIFFERENCE INTEGRATOR	AD	4 N	N C	
OPTOCOUPLER FEEDBACK/POWER MOSFET.S/ERROR AMP.	AD	8 N	N C	
START-UP CCT/CURRENT-LIMIT PROTECTION/SPIKE/SMPS.	A	4 N	N C	
OSCAR 10/STATION/ANTENNA ROTATORS	A	7 N		
HEATER CURRENT/REFERENCE VOLTAGE/AMP./SWITCH	A	3 N	N C	
PARALLEL-TUNED INPUT/50MHZ/RF./QRP	A	3 N		
HIFI/PUBLIC ADDRESS/CUT/BASS/BOOST	A	1 N		
+/-10%/SCHMITT TRIGGER/OA./1-TO-20 VOLTAGE DIVIDER	AD	1 N	N C	
POWER FET./DC.-TO-DC. CONVERTER/0.0001OHM/TIMER	A	4 Y	N C	
SENSOR/REFERENCE INPUT/IO. PORT/DATA ACQUISITION	DA	3 N	Y C	
MONOLITHIC/3-TERMINAL/PROGRAMMABLE	A	1 N	C	
PLL./UPGRADES TUNERS		5		
3-TERMINAL		2		
ADDRESS/DATA BUS/CMOS./INVERTERS/RESISTORS/CELLS	D	3 N	N	
S-BUS/X-BUS/IBM PC./DMA./MOTHERBOARD/CPU./DRAM.	D	4 N	N	42
PNP/TRANSISTOR/VERY LOW SATURATION VOLTAGE/CELLS	A	1 N	N C	
COMMUNICATION/QUADRUPLE THROUGHPUT/RADIO/HF. SSB.	AD	3 N	N C	
52KHZ SWITCHING CONVERTER/BUCK REGULATOR/TRICKLE	AD	2 N	N C	
VACUUM TUBES/HV./CRT./8000V PULSE/LASER/AC./DC.	AD	9 N	N C	
ANALOGUE ACQUISITION/IO./SRAM./ISA/33MHZ/HOST PORT	DA	4 N	N C	
NONVOLATILE/MEMORY MAP/EXPANSION PORT	D	4 Y	C	
CURRENT/VOLTAGE ADJUST/SOLID TANTALUM	A	2 N	N C	

Sheet1

OA./CLAMP/VOLTAGE ACROSS DIODE/CURRENT/100PA	A	1	N	N	C	E
OA./CURRENT CONTROLLED CURRENT SOURCES (C.C.C.S.)	A	4	N	N	C	
0.03%/REFERENCE/PI CONTROLLER/PHOTOMETER/NOI2	A	4	N	N	C	
AM./VERY WIDE MODULATOR FREQUENCY RESPONSE/FM.	A	4	Y	N	C	
MOBILE/CIGARETTE LIGHTER SOCKET/13.8V/TRANSCEIVER	A	2	N	N	C	
SRD.S/AM.-TO-PM CONVERSION/CARRIER COLLAPSE/~15THZ	A	7	N	N	C	2
TRANSFORMER/DIODE/TRIGGER/DISCHARGES CAPACITOR	A	1	N	N	C	
FRONT END & FILTERS/INTERFACING/KENWOOD TS-940	A	9	N	N	C	
DAS./TTL./PC./INCLUDING THE COMPUTER IS <\$2000	D	5	N	N	C	
JITTERS/CURRENT DRAIN: 500UA/SMALL/1.5V PP INPUT	A	7	Y	N		
RF. PICKUP/4 DIODES/HF. SSB. TRANSCEIVER/100MW	A	5	N	N		
DAS.S/QUAD MONOLITHIC TRANSISTOR/TEMPERATURE/DRIFT	A	1	N	N	C	
INEXPENSIVE/DIODE MATRIX/THUMBWHEEL	AD	5	N			
100DB CMRR./OA.S/IA.	A	8	N	N	C	
JFET./MIXER/MOSFET./LO.	A	4	Y			
BROADBAND/SWR. INDICATOR/TOROID CORES/14MHZ/7MHZ	A	2	N	N		
RF./4:1 STEP-DOWN TRANSFORMER/50OHM/KEY/RADIO	A	3	Y	N	C	
RF. SIGNAL/GATE/DRAIN/440MHZ/DOWN TO 2MHZ/DIODES	A	3	Y	N	C	
QR/SWITCHING/TRANSISTOR/STRESSES/CURRENT/INDUCTORSA	A	9	N	N	C	
RF./MORE THAN ADEQUATE GAIN/LO. CHAIN/14MHZ TUNED	A	2	N	N		
ADD-ON FEATURE/TEST DEVICE	AD	2				
TO 1A LOADS/TEMPERATURE RANGE OF -40 TO +85DEG C	A	1	N	N	C	
MICROWAVE TRANSCEIVING/DOUBLERS/FILTERS	A	7	Y			
ELECTRIC FIELD/BUSY CCT/RF. FEEDBACK PROBLEM/VFO.	A	2	N	N	C	
LOSSES/PWM./LOW EMI./INDUCTANCES/350W, 500KHZ	A	9	N	N	C	
SHUTDOWN SENSOR/XENON TUBE/25KHZ/ZETEX E-LINE	A	1	N	N	C	E
XENON TUBE/SHUTDOWN SENSOR CONSERVES BATTERY/LOA	A	1	N	N	C	E
PS./PROGRAMMABLE REFERENCE/N-CHANNEL/45 TO 100KHZ	AD	1	N	N	C	
ISOLATED POWER/BUILT-IN PROTECTION/IC	A	6	N		C	
WORST-CASE REGULATION IS BETTER THAN 4%/EFFICIENCY	A	2	N	N		10
ASIC.S/"PC. ON A CHIP"/"POACH"/CMOS./VOLTAGE	A	3	N	N		
+30KV DC. PS./HV. PULSE/LUMPED-ELEMENT DELAY LINE	A	5	N	N	C	
ESU MOD./RF. CURRENT HEATING/ELECTRODE/TISSUE	A	3	N	N	C	
PARALLEL/HEX INVERTER/CMOS. ANALOGUE SWITCHES	DA	6	N	N		
FREE-RUNNING MULTIVIBRATOR		2			C	
CPU./SOFTWARE-HARDWARE INTERFACE/VIRTUAL MEMORY	D	7	N	N	C	
IMPROVEMENTS/TONE GENERATOR/CMOS.-TTL./DECODER	DA	3	N	N	C	
HIGH RELIABILITY/PROTECTED/GLITCHES/GENERATOR	A	4	N	N	C	
RADIOS/\$20/RF./7000-7300KHZ/COILS/BRIDGE RECTIFIER	A	3	N	N	C	
FULL-WAVE RECTIFIER/FILTER CAPACITOR	A	3	N		C	
POT CORE/BOBBIN/COIL/FERRITE TOROIDS/PROGRAMMER	AD	9	N	N	C	
VOLTAGE/TEST INSTRUMENTS	A	5	Y			
TX-RX SWITCH/COIL/WINDING/AM./RADIO/ANTENNA/QRP	A	3	N	N	C	
NTSC./UHF. CCTS/NICD./9V/CRYSTAL SWITCH/COIL/RF.	A	6	N	N	C	
DAC./RESISTOR NETWORK/R-2R/CLOCK/SCHMITT TRIGGER	DA	1	N	N	C	
CONDUCTION/4-DIGIT LCD./DIODES/THYISTORS/PROBE	D	5	Y	N		
HIGH-RESOLUTION/ASYNCHRONOUS/1-SHOT/PERIODIC	D	2	N	N	C	
0.001HZ TO 63KHZ/32-STEP/DIVIDE-BY-N/OSCILLATORS	DA	3	N	N	C	
INTERFACE/INTERLEAVED/CACHE/DATA BUSES/CMOS./RAM.	D	1	N	N	C	

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UART./CPU./PROGRAMMABLE LOGIC CONTROLLERS (PLC'S)	D	5	N	N	
FERMILAB/PHOTOTUBE/GATE/DISCRIMINATOR	DA	4	N		C
UP.S/RAM./CPU./MOTHERBOARD/CMOS./VLSI./EMS/5MBYTES	D	5	N	N	C
CPU./PAL./MICROCOMPUTERS/HIGH TRANSFER RATES/BUS	D	8	N	N	C
HIGH-POWER/SGS/-12-100MA/-5V-100MA/TRANSFORMER	A	3	N	N	C E
BCD./LASCR./CAMERA FLASH/REED RELAYS	AD	5	N		
TRANSMISSION LINES/IMPEDANCE/REFLECTION/TDR./HD+80	DA	7	N	N	C 57
MOD. OF L-MATCHING NETWORK/IF./RF./AUDIO/Q/EXCITER	A	2	N	N	
NOISE-SHAPING/DISTORTION CANCELLATION/FLASH ADC.	AD	9	N	N	C 4
RTTY./CW./ANALOG/TRS-80C/TRANSMIT SOFTWARE	AD	5	N		
CLOCK/RAM./ADDRESS/DATA/TIMER/PHOTOTRANSISTORS	DA	5	N	N	
PACKET STATION/RED-GREEN/CROSS-COUPLED/PAKRATT	D	1	N	N	C
1ST ON, LAST OFF		1			C
COMPARATORS/INTEGRATOR/JFET.S/MONO PERIOD/WAVEFORAD		2	N	N	E
DELAY/CHARGED/DISCHARGED/VERY NARROW PULSES/5-12V	DA	1	N	N	C
END-AROUND CARRY/BINARY/ADDITION	D	2	N		C
PRESSURE-REGULATED/PULSE RATE/SOLENOID-OPERATED	AD	4	N	N	C
BUFFER AMP.S/SSB./MEASUREMENT/VELOCITY/FILTERS/RC.	A	6	N	N	C
LOAD/HIGH SPEED 50OHM DRIVER/DATA OUTPUT/PHASE	DA	2	N	N	C
\$300/INCLUDES/5MBYTE DRIVE/HARD DISK	D	6	N		
8835/DATA TRANSCEIVERS/4116/SWTP 6800	DA	5	N		
TTL./COMMON EMITTER/DUTY CYCLE/EXCEEDED/NMR.	DA	3	N	N	C
BASIC/Z80 CPU./2114-TYPE/UP TO 32K BYTES	DA	7	N	Y	C
SINGLE-ENDED-INPUT/TRANSMIT LINE/RECEIVE/PORT/CRT.	AD	1	N	N	C
RESET PERIODICALLY/EXCLUSIVE-OR/FEEDBACK/DELAY	D	2	N	N	C
LDR./DOORWAY/MONITOR	DA	3	N		
GLITCHES		3			
CAMERA/8-BIT SYNCHRONOUS UP-COUNTER/REGISTER/LATCH	DA	9	N	N	C
SWITCH DEBOUNCER/UP-DOWN COUNTERS/TOO SLOW/MOD.	DA	2	N	N	C
MASH BUS/MICROCOMPUTER/INTERFACE/LATCHES	D	5	N		C
GYRO DATA/SMOOTHING/MUX./MATRIX	D	3	N		C
DECODED/INTERFACING/UP./EDUCATIONAL	D	4	N	Y	
LATCH RESET SYNCHRONISATION/BEAM	DA	6			C 42
RESTORES POWER AUTOMATICALLY		1			
GOOD/BAD/PNP/TIMER/12HZ MULTIVIBRATOR	DA	2	Y		
DIGITAL/FIXTURE/55107/55109/55110/+ -5V	DA	2	N		C
LASER/DRIVER PROGRAM/WEATHER	DA	6	Y	Y	
VIA./MEMORY/SIGNAL AVERAGING/COMMODORE 64	DA	9	N		C
BINAR COUNTER/EPROM./DISPLAY/40HZ OSCILLATOR/LED.S	DA	3	N	N	
RCA/TRIAD/2 SEPARATE SUPPLIES/RECTIFIER/HEATER	A	4	N	N	42
DRAM./6 SERIAL CHANNELS/16K BYTES OF NONVOLATILE	D	2	N	N	C
PROCESSOR/SINGLE-CHIP/32 IO. LINES/SERIAL PORT	D	9	N	N	C
CRTC/EPROM./MOD./RS-232 CONVERTER/CRT.	DA	8	N		C
AUTO/CAR/DC./VOLTAGE REGULATOR/RECORDER	A	2	N		C
AM.-FM./AGC./15V STEPDOWN TRANSFORMER/MEMORY/DIODE	A	5	Y	N	C
KEYBOARD INTERFACE/PC.-COMPATIBLE HOST/ROM./IO.	D	4	N	N	C
LIGHT/DETECTION/"SPIKE COMPENSATOR" CCT/HV./FET.S	AD	3	N	N	C 25
MULTIPLYING BIPOLAR/WEIGHTING/CURRENT	AD	1	N		
RESISTORS/CAPACITORS/INDUCTORS	A	9			C

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POWER TRANSISTOR/B+/-150V/5V REGULATOR/ASTABLE	A	2 Y	N	C
RELAY-TRANSFORMER/HYSTERESIS/SENSORS/SOLENOIDS	A	1 N	N	C
		4		C
HIGH-GAIN/WIDE-BAND AMP.S/120MHZ	AD	7 N		C
THERMOCOUPLE/HEATER/SENSOR/OSCILLATIONS	A	3 N		C
DAC./0-TO-10V INPUT SIGNAL RANGE	DA	2 N		C
ELECTROGONIOMETRY/JOINT/DATA/MINICOMPUTER	AD	9 N	N	C 4
DC. CONVERTER/VOLTAGES/TTL. LOADS	AD	1 N		C
TTL./CMOS./POWER SAVINGS/REDUCING SUPPLY CURRENT	D	1 N	N	C
SIMULATED INDUCTOR/RESONANT CCT/667HZ AT/51DEG C	A	2 N	N	C
AUDIO/ACTIVE-FILTER/OA./2 5-CHANNEL	A	1 N		C
SERIAL COMMUNICATIONS/DB25/LOGIC/ASYNCHRONOUS CODEDA		6 N	N	C
RS-422 TO TTL./TTL.-TO-RS-232/TERMINATING RESISTOR	DA	1 N	N	C
TNC.S/MODEMS/DUAL-VOLTAGE/INVERTER/VOLTAGE DOUBLERAD		1 N	N	
SQUARE WAVES/SINE/INTEGRATOR/TRIANGULAR	A	3 N		
RF./INDUCTION COIL/DETECTION/COUPLING/LINE/CASCADE	A	2 N	N	C
VOICE-OUTPUT PROCESSOR/EPROM.S	AD	4		C
ON-CHIP RAM./LOW-POWER OA./COMPARATOR/TIMER/20MS	AD	2 N	Y	C
PLL./RUDIMENTARY		2		C
USER IO./NULL MODEM/COMMUNICATE/TERMINAL PROGRAMS	DA	1 N	N	C
TRANSCEIVER/RECEIVER/ASCII./LCD./LINES/CPU.	DA	5 Y	N	C
STRIP LINE/BACKPLANE/SPEED/DELAYS/GROUND BOUNCE	D	5 N	N	C
6522 VIA./6502 UP./ADDRESS BUS DECODING/IO.	AD	5 Y	N	C
UP-DOWN COUNTER/ECL./AGC./SNR. DETECTOR/FILTER	AD	5 N	N	C 7
RAMP/DELAY/VERY CHEAP/MEMORY/DISCHARGE TIME, RC.	AD	3 N	Y	C
DAC./CMOS. TIMER/CMOS. LATCH/TRACKING SOFTWARE	AD	6 Y	Y	
TV./PREAMP./ULTRASONIC/WALKIE-TALKIE INTERFACE	DA	9 N	Y	C
GATE-SOURCE CAPACITANCE/ZENER/VOLTAGE DIVIDER	A	1 N	N	C
CI-V/AMATEUR RADIO/RTTY./~\$10/9V BATTERIES/735	DA	2 N	N	C
STORE & RETRIEVE/SAMPLES IN RAM./RESPONSE/14KHZ	AD	5 N	Y	C
MULTIVIBRATOR/CLOCK/COMPARATOR/BUFFERS	DA	4 N		C
INTERFACING/COMPUTER/DAC./BUS/TRIMMING/CRT./10V	AD	6 N	N	C
PEDESTAL/MUX.ED AT 10MHZ/ANALOG SWITCH/FIFO./RAM.	AD	5 N	N	C
LATCHES/OR GATES/GC.-MS./Z80 UP./25US CONVERSION	DA	6 N	N	C 39
SPECTRUM ANALYZER/~\$200/CRT./TV./VCR./UHF./LPF.	AD	8 N	N	C
UART./ASCII.-TO-18-SEGMENT DECODER-DRIVER	D	8 N		C
4 REGISTERS/CONTROL/STATUS/INTERFACE/ASYNCHRONOUS	D	9 N	Y	C
MICROMASS MODEL 602/ADC./NOISE/UP./DAS./RECORDING	AD	6 N	N	C
DROPOUT/POWER/SENSORS/TRANSDUCERS/PARASITIC/TEST	AD	9 N	N	C
POWER MOSFET.S/SCR.S/REFERENCE IC		2		C
VHF. TRANSCEIVER/RF./FREQUENCY-LOCKED LOOP/FLL	A	3 N	N	
ZIF. SOCKET/REFERENCE IC/LOGIC ANALYZER/MONITOR	D	7 Y	N	C
LED./DUAL TRANSCONDUCTANCE AMP./FET.-INPUT OA.	A	3 Y	N	C
LPF./OSCILLATION FREQUENCY/3.5KHZ	A	3 N	N	C
WHIP ANTENNA/RF./RECEIVER/LOW NOISE/NF./9V/BATTERY	A	4 Y	N	C
SUCCESSIVE APPROXIMATION/UP.-BASED/AMP./PGA	AD	8 N	N	C
DUAL FET.S/PRE-PREAMP./OA./FEEDBACK/SOUND/CASCADE	A	9 Y	N	
HIGH-OFF/TRANSMISSION/ADC./DAC./TIMING/SAMPLING	AD	1 N	N	C
PCM./16X2 MATRIX SWITCH/LED./LOGIC/100M BITS-SEC.	AD	3 N	N	

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UART.S/PGA/NEC PC-8201A/DATA/MICROCONTROLLERS/AMP.	DA	2	N	N	C	
MONOSODIUM GLUTAMATE (MSG)/ENZYMES/WATER/PH/LDH	A	9	N	N	C	E/25
COMPUTER/UP TO 500MA PER OUTPUT/LOADS/50V/CLOCKED	D	1	N	N		
ANGLE DETECTOR/SENSING/MAGNETIC FIELD	AD	3	N		C	
IMPEDANCE/STUDIO ENGINEER/CD. PLAYERS/THD. OF .01%	A	3	N	N		
CROSSTALK NETWORK/ANALOG MUX./MWPC./PRESSURIZED	A	9	N	N	C	
DECREMENT/INCREMENT/COMPUTER/WAFER/PROBE STATION	D	2	N	N	C	
BISTABLE (FF.)/AUDIO/RESET/STANDBY/RELAY/SWITCHES	AD	1	N	N		
ON-BOARD VGA SWITCH/30MHZ VIDEO EXPANSION BUS/PC.	A	5	N	N	C	
COMPARATORS/NOR GATE/SIGNAL STRENGTH	DA	4	N			
RADIATION/OA./COMPARATOR/GERMANIUM DIODE/LED.S	A	5	N	N	C	
SETTLING TIME TESTER/VOLTAGE COMPARATOR/DAC./LOGIC	AD	5	N	N		E
AM2900 UP./AM2902 CARRY LOOK-AHEAD GENERATOR/SHIFT	D	9	N	Y	C	
COMPARATOR/RADIO SHACK/POTENTIOMETER/INPUTS/DAC.	AD	7	N	Y		
DC. MOTOR CONTROLLER/AUDIO-POWER AMP./LAMP/AM.	AD	3	N	N	C	
DAC./HIGH-SPEED/CLOCK-MODULATION/COMPARATOR	AD	8	N	N	C	
OVER-RANGE ALARM/BUZZER/1000V/DOT-BAR-DRIVER	AD	4	N	N	C	
GAUSSIAN/NEON LAMP/VHF./UHF./DIODE/OA.S	D	2	N	N	C	
DB-25 CONNECTOR/MC1489 INPUT CCT	AD	2				
VFO./MEMORY SCAN	AD	4				
PULSE TRAIN/BUZZ/CASSETTE RECORDERS/OA./LED.	A	4	Y	N		
7-BIT CODE/127 PRESTORED MESSAGES/16-SEGMENT	D	3	N	Y	C	
	AD	1	N			E
SUBTRACTS/1ST IF./DECODER/SELECTIVITY FILTERS	AD	9	N	N		
SLOW OR FAST		2			C	
AV (AUDIO-VIDEO)/I (INTENSITY)/IBM COMPATIBLE/OA.	AD	3	N	Y		
SLIDING SCALE METHOD/DAC.S/MCA./<10US/PROGRAM CODE	AD	5	N	Y	C	12
SINGLE TEST/CONTINUITY/SHORTS		1			C	
0 TO 10KHZ/+1.5V PEAK/DAC./DARLINGTON PAIRS/OA.	AD	2	N	N	C	
CORE DRIVERS/DIGITAL LOGIC/LOAD INDEPENDENT/COIL	AD	9	N	N	C	
DATA-TRANSFER-SHIFT-REGISTERS/IO./LIGHT PULSE	D	3	N	N	C	
SSB./MODE RX/BLOCK DIAGRAM/OSCILLOSCOPE	A	5	N			
ANTENNA/TRANSMITTER/CABLE/TRANSMATCH/STATION	A	1	N	N		
HOME CONTROL SYSTEM/HCS/X-10/COMMANDS/AC./60HZ	DA	7	N	Y		
INTEGRATOR/SCR./AC. LINE/LED./INVERTER	AD	1				
ROBOT RADIO/COMPUTER-CONTROL/YAESU	DA	3			C	
RTTY./LIGHT/LED.S/PHOTOTRANSISTORS/REED RELAY	DA	2	N	N	C	
KEYER/TRANSISTOR/CATHODE KEYED/CW./DIODE	A	4	Y	N		
DOT-BAR DISPLAY DRIVER/TRIAC/OPTOISOLATOR-COUPLED	AD	4	N	N	C	
PRINTERS/GEARS/UP.S/BASE	DA	9	Y		C	
INTEGRATOR/SINGLE SLOPE/INPUT BUFFER/LOGIC/DMM.	AD	5	N	N	C	
SWITCHED-CAPACITOR INPUTS/TRANSIENT LOAD CURRENT	AD	6	N	N	C	
DIGITAL ADAPTER FOR SUBSCRIBER LOOP/SLIC./CCITT.	DA	9	N	N	C	
HV. PS./LED.S/LIGHT/ADC./CAVIAR MICROCOMPUTER	AD	9	N	N	C	
SHARPS/FLATS/SOUNDS/SYNTHESIZERS/MUSIC	AD	9	Y		C	42
VOLTAGE & CURRENT STRESSES/PS.S/PWM./QR/RECTIFIER	A	9	N	N	C	
FEEDBACK AMP./BIAS/SHORT-CCT PROTECTED/LOAD/DIODE	A	2	N	N	C	E
SPEED/DRIVER/SINGLE POTENTIOMETER	A	1				
TOSHIBA/<0.05% THD./PARASITIC TRANSISTOR/MOSFET.S	A	1	N	N	C	

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DROPOUT VOLTAGE/EFFICIENCY/80%/SWITCHED-CAPACITOR	AD	9 N	N	C	
BIPOLAR UP./COMPUTER/SASI BUS	D	5 N		C	
PC.-AT/IO. PORT/ADDRESS DECODING/INTERFACE/FF.	AD	9 N	Y		
COMPUTER/ENERGY MANAGEMENT/SECURITY	DA	9		C	
SIMPLE/LOW LEVEL AM./VMOS./DRAIN CURRENT/FEEDBACK	A	3 N	N		
DRIVER STAGE/PHASE-SPLITTING/JFET.	A	3 N		C	
50MHZ BAND/AMATEUR RADIO/COMMUNICATION	A	6 N		C	
		3			
RECEIVER/TO PROGRAM & MEMORIZE STATION PRESETS/OA.	DA	5 Y	N		88/AJ
PHOTON COUNTER/TIMER/KEYBOARD DISPLAY	D	2 N		C	
CONTROL SIGNALS & POINTS/MONITOR TRACK CCTS/TIMER	D	7 N	N	C	
ADC./IO. PORTS/MEMORY/FAULTY PHASE/8-BIT/TIMER	AD	7 N	N	C	
OPTOISOLATOR & LATCH/CPU./MUX./RS 232-C LINK	DA	9 N	N	C	42
PENDULUMS/MAGNETIC PICKUP/JOSEPHSON JUNCTION/KINK	DA	6 N	N	C	
CONTROL OF POWER TRANSFORMER/POWER TRANSMISSION	D	9 N	N	C	
SSR.S/5V PS./CLOCK/LED.S/PORTS/PUMP/TINY BASIC	DA	4 N	N	C	
STATIC VAR COMPENSATOR/PPI./PIT./THYRISTORS/ZCD.S	AD	5 N	N	C	
PIT./PPI./DRIVER/LPF.	DA	4 N	N	C	
SPEECH SYNTHESIZER/KEYBOARD/RAM./DECODER/LATCH	D	5 N	N	C	
DEDICATED IC/3 SIGNAL SOURCES		3			
CURRENT MIRROR/ARRAY/INPUT (0-20MHZ)/0-12V/LOGIC	DA	1 N	N	C	
TRANSMITTER/RECEIVER/DOPPLER/ADC.S	DA	5 N		C	
NOISE-EQUIVALENT BW.S/RING-OF-3/SNR./LF./DC.	A	5 N	N	C	
HEXADECIMAL KEYBOARD/MBQ/EPROM./TIMER/MEMORY MAP	D	4 N	N	C	
ANTENNA/MICROSTRIPLINE/UHF./DETECTOR/METER/ARMS	A	8 Y	N		
COMPUTER/1ST DERIVATIVES/DILATE/TIME BASE/ADC.	DA	4 N	N	C	
COMPARATOR/IR. LED./TV. UP./RS-232/CARRIER/RAM.	DA	9 N	Y		
PULSE COMPRESSION/250MHZ/THRESHOLD ERROR IS NULLED	DA	2 N	N	C	
AM. RADIOS/INEXPENSIVE DEVICE		3			
OPTOCOUPERS/TTY/RS-232C/LSC/MEMORY/PRINTER PORT	D	3 N	N	C	42
LOCALLY/FROM A DISTANCE/STATUS INDICATORS/LATCHES	AD	9 Y	N		
40KV-RATED PICTURE TUBE HV. WIRE/GROUND/ELF. TO MF	AD	1 N	N		
LED./CMOS. HEX NON-INVERTING BUFFER/INVISIBLE	D	2 Y	N	C	
TONE-MODULATED/TV./LAMPS/TOYS	AD	4 N			
100KHZ TANK CCT/EDDY CURRENTS/RF. MAGNETIC FIELD	A	6 N	N	C	
		1		C	
RAM./LATCHED ADDRESS/MUX.ED ADDRESS-DATA/SCROLL	D	5 N	Y		
MEASUREMENT/PHASE DIFFERENCE/ADC./IO. PORTS/LED.	DA	8 N	N	C	
IO./KEYBOARD/EXPANSION BUS/NMI./PARITY CHECK CCT	D	4 N	N	C	
ALGORITHMS/REDUCE PROGRAMMING TIME/SC84/RS232C	DA	4 N	N	C	
BACK EMF./SPEED OF ROTATION/INTERRUPTS/ADC./IR.	DA	5 N	N	C	
AUDIO POWER AMP./SOUND/DETECTION/BALANCED-MIXER	A	4 Y	N	C	
CMOS. RAM./SYSTEM CONFIGURATION/ADDRESS/DATA/UP.	D	9 N	N		
SRAM./EPROM./LOG TELEPHONE-MODEM-FAX USAGE/CALLS	DA	7 N	N	C	
C CHANGED PERIODICALLY/VIDEO MIXER	D	1			
BUFFER/CMOS. IC/VCO./DUAL CHANNEL/OSCILLOGRAMS	AD	4 N	N		
IREL./INVISIBLE BEAM/40KHZ IR. CARRIER/TIMER	AD	7 Y	N		
PZT./CCD./COUNTERS/STORAGE/OPTICAL FIBRE/ADC.	DA	7 N	N	C	39
HAM/DIVIDE BY 6/10/2/4/2M/1.25M/70CM/HARMONIC-RICH	DA	2 Y	N	C	

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80-15M/2KW P.E.P./10M	A	7			
ENGLISH, HINDI, TAMIL OR MALAYALAM/DOT MATRIX	D	6 N	N	C	
PHOTOEMISSIVE TUBE/OZONE/IRRADIANCE	A	3 N		C	
DELAY GENERATOR/TRIGGER PULSE/LASER/JETS/LIQUIDS	A	9 N	N	C	42
PULSE-FORMING NETWORKS (PFN'S)/TRANSFORMER/PS.	A	5 N	N	C	
LESS DRAIN		1		C	
SKELETAL MUSCLE FIBER/BICEPS BRACHII/MYOELECTRIC	DA	5 N	N	C	
PHOTOGRAPHY/LIGHTING EFFECTS/LASCR/PHOTOCELL	A	5 Y	N		
PULSE SEQUENCE/MAGNETIC FIELD/CONTROL/RF.	AD	6 N		C	
SCR.S/SWITCH/RELAY/BRIDGE RECTIFIER	A	2 N		C	
8.5KV/CURRENT/12A/14KV MAX./DAC./LASER PULSE SHAPE	A	4 N	N	C	
COIL/TRANSDUCER/ZERO SHIFTER/DIFFERENTIAL AMP.	AD	3 N	N	C	
IMPEDANCE CONVERTER/PHOTOMULTIPLIER/CBM	AD	5 N		C	
CATALYTIC CARRIERS/NOISE/PULSED 100HZ	A	5 N			
CERN. SPS/SVX CHIPS/UHV/MONTE CARLO TRIGGER/CAMAC	A	9 N	N	C	12
STEREO/OUTPUT/TRANSISTORS/AF. AMP.	A	2 N		C	
CAPACITOR-DISCHARGE/CD/TIMER/SPARK/ZAP	A	2 N		C	
COMPUTER/WEFAX/BUS ADDRESS/SSTV./ADC.	AD	7 N			
AF./STEREO/COMPUTER/BASIC/DAC./SOFTWARE	AD	9 N		C	
DATALINES ARE BUFFERED/PORTS/CNC/RELAYS/COMPUTER	D	5 Y	N		
DB-25 CONNECTOR/ENCLOSURE/TEST/EDGE CARD CONNECTOR	D	4 N	N		
PORT ADDRESS/ZIF. SOCKET/PROGRAM/BREADBOARD/PIN	D	5 N	Y	C	
POSITIVE/NEGATIVE/SPLITTER/.05%/TRACKING	A	2 N	N		
VFC./PULSE SHAPER/LINE DRIVER	AD	9 N		C	
PROGRAMMABLE PERIPHERAL/PULSES/REVERSE	DA	2 N		C	
SEQUENCE/POWER/NON-SINUSOIDAL/LOOK-UP TABLE/CPU.	AD	5 N	N		
LED./PHOTODETECTOR/EXPANSION CARD/PC./PID./AMP.	DA	9 N	N	C	E
COLOR TV./FIELDS, FRAMES, & INTERLACE/TTL./CMOS.	D	3 N	N	C	
CONDUCTORS/VOLTAGE/CURRENT/SENSOR/SWITCH	A	4 N			
ADC./FET. SWITCHES/TTL./OA.S/PEAK DETECTION	DA	3 N	N	C	61
PROBES/PCB./COIL/DETECTOR/LIMITER/1.36 TO 60MHZ	A	3 N	N	C	
RESISTANCE/CONTROL CURRENT/TRANSCONDUCTANCE OA.	A	1 N	N	C	
SENSOR/WIDE/RANGE/ABSOLUTE/COMPARATOR	AD	2 N		C	
INVERTING COMPARATOR/FOLLOWER	A	1			
ADDRESSES/RAM./DRIVE LED.S/MEMORY MAPPED/PRINTER	D	5 Y	Y		
BINARY/LIGHT BOX/BULBS/ADDRESS BUS/PROCESSOR	D	4 N	Y		
ADC./INTERRUPT/DATA/IOR LINE/TEMPERATURE SENSOR	D	3 N	Y		69
LSTTL./1K IO. ADDRESS/MEASURE 65MS/1US RESOLUTION	D	2 N	N		
USER-ADJUSTABLE/NO COIL OR TRANSFORMER/RECTIFIER	DA	1 N	N	C	
DIODE/MINIMISATION OF RFI./SSR./DISPLAY/MONOSTABLE	DA	3 N	N	C	
INTERFACE/FREQUENCY DIVIDERS/60HZ POWER LINE/PULSE	DA	2 N	Y	C	
CODED TONE/RECEIVER/SILENT CHANNEL		6			
INTEGRATOR/BIPOLAR & CMOS./CHARGE BALANCING/\$3.49	A	2 N	N	C	
DIGITAL/RESISTORS/ADDING/AVERAGING	A	3 N			
COMPARATOR/NMR./MAGNETIC FIELD/LCD./PANEL METER	AD	2 N	N	C	
ROTATION/POSITION/DAC.S/DC./8080/MDS 800/CONTROL	DA	4 N	N	C	42
MUX./ADDER/MEMORY/ADDRESS/LATCH	D	4 N		C	
TURBULENT FLOW/X-WIRE/PROBE/WIND TUNNEL/VELOCITY	A	7 N	N	C	
BINARY UP-DOWN COUNTER/MONOSTABLES/LOW BACK EMF.	DA	2 N	N		E

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UP.S/TTL./ROM./STATE MAP/TONE DECODER/TOUCHTONE	DA	9Y	Y	C	
SKIRTS/RESPONSE STEEPER/RECEIVER/QRM	A	4N			
COMPUTER/CUSTOM-TAILORED/PARALLEL IO.	D	6N		C	
NTC. THERMISTOR/42R1/FEEDBACK/DIVIDER	A	1N		C	
REFLECTED/300V TRANSIENT PULSE/TOKAMAK/ZENER/LPF.	AD	5N	N	C	
BANDPASS/LPF./MONOSTABLE/DEMODULATOR/MIXER/ZCD.	AD	2N	N	C	
EM. PROPULSION/REPULSION/BCD./OPTOISOLATOR-COUPLER	AD	4N	N	C	
FLOATING PS./NONINVERTING	A	2N		C	
OPTO-ISOLATOR/LIGHTING/LAMP/HIGH-INTENSITY/BREAKER	AD	3N	N		
OA.S/GAAS. MICROWAVE/FINITE-GAIN AMP.S/BIQUAD	A	6N	N	C	
PHOTOVOLTAIC RELAYS/HV. REGULATOR/ROBOTIC IMAGING	AD	1N	N	C	95
BUFFER GATE/OPTICALLY-ISOLATED/AC./DC./SWITCHES	DA	8N	Y		
OPTOISOLATOR-COUPLER/HEXFET./POWER MOSFET./UJT.	AD	5N	N	C	
LIGHT/VISIBLE SPECTRUM/PHOTONS/ANODE/CATHODE/UJT.	A	6Y	N	C	
HLMP3950/COLLIDER DETECTOR AT FERMILAB/TEST BEAM	AD	9N	N	C	12
RADIO/RELAY/COAXIAL TRANSFORMER/SENSITIVITY	A	3N	N		11
CHEAP/TTL./PICK-UP LOOP/AMPLIFIED & RECTIFIED	DA	4N	Y		60
RAM./EPROM./2716	D	4N		C	
VFC./DAC./PC./PMT./INTENSITY/LIGHT MEASUREMENT	AD	5N	N	C	42
THERMAL COMPENSATION/LOW HARMONIC DISTORTION	A	7N	N	C	
REFERENCE/PRECISION FREQUENCY SOURCE/PRINTER PORT	DA	9Y	Y		
15222 OR 15122/IRRADIATION/ANIMALS/HEALTH/FEEDBACK	A	8N	N	C	E/42
AMP./TRANSISTOR/HIGH-GAIN/COMPRESSOR/LIMITER/DSP.	A	2N	N	C	
COLLECTIVE DECISION CCTS/COMMON COLLECTOR/NEURONS	A	9N	N	C	
LED./PHOTOCURRENT/SPEAKER/EARPHONE	A	1N			
DECODES/EXECUTES INSTRUCTIONS		8		C	
2 RESISTORS/2 CAPACITORS/LOW SENSITIVITIES	A	4N	N	C	
LIGHT/RADIO SHACK/BATTERY	A	1N	N		
TEST STRIPES/RESISTANCE MEASUREMENT/BIAS/FAILURE	AD	9N	N	C	
MEASUREMENT/DYNAMIC SUSCEPTIBILITY	A	4N		C	
INVERTER/TRANSFORMER/CLASSIC CARS	AD	1N		C	
UP TO SEVERAL KHZ/ELECTROCHEMICAL ETCHING/SUPPLY	A	9N	N	C	61
3MHZ/MICROPROGRAMMABLE/INTEL 3000/PERIOD 320NS/MCU	DA	8N	Y	C	
OCTAL FF./OCTAL BUFFER/OPTICAL-COUPLER/LOGIC/PPI.	D	7N	N		
TIMING/PC./ADDRESS & DATA PORTS/DECODER/FF.S	D	1N	N	C	
TEST/MEMORY/REMAPS ADDRESSES/IO./DATA TRANSCEIVER	D	9N	N	C	
2-PHOTON FLUORESCENCE/FLUCTUATIONS/COMPUTER	AD	3N	N	C	
GENERATOR/COMPUTER/CARRIER/TWIN LEAD/ANTENNA	DA	1N	N	C	
3 TO 6V/CHARGE PUMP/NEGATIVE SUPPLY/BIPOLAR/OA.S	AD	1N	N	C	
FDMS/OA./TRANSISTOR	A	6N		C	42
SQUAREWAVE/INPUT/DIVIDED BY 10, 100, OR 1000	DA	3Y	N	C	
LC., CRYSTAL & MECHANICAL/DISCRIMINATOR	A	4N			
ASTABLE FREE-RUNNING OSCILLATOR/MONOSTABLE/TIMING	A	1N	N		
1-SHOT/SWITCH/NAND GATES/TRANSMISSION/DOT & DASH	AD	3N	N		
2310HZ/200HZ FSK./DIODE/ACTIVE FILTER/RADIO/CW.	A	2N	N	C	
TRANSIENT-INDUCED MALFUNCTION/COUNTER	D	1N		C	
HV.-LOW CURRENT REGULATOR/FILAMENT PS./TRIGGER	AD	7Y	N		
IR. LED./ASTABLE MULTIVIBRATOR/TIMER/TONE/IR. WAND	A	3N	N	C	
FAST/60HZ/POWER SYSTEMS/SETTLING TIME/RIPPLE/UPS.	A	6N	N	C	

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LO./IF./MIXER/POWER AMP.S/MICROSTRIP CCT/FILTER	A	4	Y	N	
CHARGE INJECTION CCT/RICH/TPC./SHAPER SHAPER	A	9	N	N	C
ANALOG SWITCH/OA./PMT./GDL-AES/GLOW DISCHARGE LAMP	AD	9	N	N	C 25
POWERING, LOADING & GROUNDING HIGH-SPEED OA.S	A	5	N	N	C
SHIFT REGISTER/FF./LINEAR TIME-INVARIANT	D	4	N	N	C
REMOTE MUTING/CMOS./REMOTE-CONTROL	DA	5	N		C
DIFFERENTIATION/PHYSIOLOGICAL		2			C
HIGH IMPEDANCE/HEX CMOS. SCHMITT TRIGGER	AD	8	N		C
TIMER/MULTIVIBRATOR/AUDIO TRANSFORMER	AD	1	N		
ELECTRODES/CO2/PHOTOTRANSISTOR	A	2			C
B-H CURVE/LINEAR PS./50KHZ	A	2	N		C
VOICE/PHONEME CODE/VOTRAX/MICROCOMPUTER	DA	9	N		C
TUBES/CURRENT IS LOW/LIGHT/COHERENT/EM. RADIATION	A	7	Y	N	C
80UA AT 12V/LED./INDICATOR/RESET/SWITCH/DIVIDER	AD	3	N	N	C
CADMIUM SULFIDE/LDR./SUN/HV.	A	2	N	N	C
HF. COMPENSATION/DC. FEEDBACK/DTA/PHASE SHIFT	A	7	N	N	C
VOLTAGE COMPARATOR/ZCD./SIGNAL CONDITIONER/1-SHOT	A	4	N	N	C
DTMF./OPTO-COUPLEDERS/ADC./X-10/TOUCH-TONE/PHONE	DA	8	N	N	C
DUAL MONOSTABLE/UP./FM./DIODE OR GATE/MULTI-MODE	DA	3	N	N	C
ASTABLE MODE/IO./PRINTER PORT/MEASURING/QUICKBASIC	AD	5	N	Y	C
REVERSING/STOPS/CONTINUOUS-LOOP RUNNING/RDC/MODEL	DA	2	N	N	
POLARITY PROBE/LIGHT/BATTERY ZAPPER/HEATER MONITOR	A	5	N	N	C
RAMP/TIME-BASE/SAWTOOTH GENERATOR/FREQUENCY METE	FAD	7	N	N	C
PARKING LOT/FINDING/ANTENNA/100MW/TUNED/POINT	A	1	N	N	C
TRANSFORMER/FERRITE CORE/TIMER/TEST/VSWR./GRID DIP	A	5	N	N	
DUAL TIMER/LOGIC INVERTOR/TTL. COMPATIBLE/CARRIER	AD	2	N	N	
RUSSIAN PART NUMBERS/OPERATES ON/2.5 TO 10V	AD	1	N	N	C
INTERFACE/DRAM. CONTROLLER/ADDRESS MUX./68000	D	5	N	N	C
REGULATING ZENERS/HEIGHT/BATTERY POWERED/0-200UA	A	7	N	N	C
160M CRYSTAL/SUFFERED PARASITIC OSCILLATIONS	A	5	N	N	
INTERFACE/RAM./CHIP ENABLE/CROSSTALK	D	6	N		
5KV/PULSE REPETITION RATE/5.5KHZ/TUBE/JACKET/BRICK	A	3	N	N	C
ELECTRO-OPTIC MODULATORS/ULTRASHORT LIGHT PULSES	A	8	N	N	C 39
RF./LAB-GRADE PRECISION/4 DIGIT LCD./COMPARATOR	DA	7	Y	N	C
DOS./BOOT/BIOS./DISABLING ACCESS TO FLOPPY DRIVE A	D	6	Y	Y	C
ASSEMBLY LANGUAGE/MESSAGE/REPEATING BEACON/CRYST/DA		4	Y	Y	
COLOR TV./COMPUTER/NTSC./RGB./MCU/CHROMA PROCESSOFAD		9	N	N	
UNMARKED COMPONENTS/JFET./RESONANCE	A	2	N		
CONTROL CCT/MATCHING SYSTEM/RELAYS	A	3	N		
WAVEFORMS/COMMUTATION/HF. LINK POWER CONVERSION	A	9	N	N	C
INPUT AMP./2M/220MHZ/LINK TRANSCEIVER/CW. MESSAGES	DA	6	N	N	
8255/INTERFACE/COMPUTER/INTERRUPT/DATA/GLIDER	AD	6	N	N	C
SCALING FACTOR/DAC./RAM./EPROM./HAND-SHAKING	DA	4	N	N	C
BALANCING/DETECTING/SAMPLE COIL/LINEAR/FIELD/AF.	A	3	N	N	C
DISPLAYS/NUMBER/7-SEGMENT LED./INTRUDER/SENSORS	DA	5	Y	Y	
CHIP COUNT CUT DOWN/EFFICIENCY IS ALSO IMPROVED	D	2	N	N	C 10
BIOMECHANICS/FES/MUSCLE/MOTOR NEURON/POSTURE	AD	9	N	N	C 28
MICROCOMPUTER/UP.S/12 BIT ADC./VDU.	AD	9	N	Y	
CHANNELS/ACTUATORS/RCA/MICROSYSTEMS/RAM./EPROM.S	DA	7	N	N	C

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OPTO-ISOLATORS/FIRING ANGLES/POWER/PWM./MARK/SPACE	AD	9 N	N	C	
SWITCHING PATTERN/DUAL BRIDGE INVERTER/3-PHASE	DA	9 N	N	C	60
COMPOSITE/HORIZONTAL/VERTICAL SYNC/COLOR BURST	A	5 N	N	C	
CPU./PHOTON COUNTING/MICROCOMPUTER/TRS-80	D	9 N		C	42
VOLTAGE/DYNA TRANSFORMER/ZENERS	A	1 N	N		
SEMI-BREAK-IN CW./SWITCHING/KEYING DELAY	AD	6 Y			
SENSOR/FLOWCHART/CALIBRATION/MAXIMUM/MINIMUM	A	6 N	N		
CPU./PROGRAMMED EPROM./COMPUTERS/MEMORY MAP/RELA	DA	8 N	N		
CPU./RAM./7-SEGMENT LED.S/SHIFT REGISTER/PROGRAM	DA	6 N	N	C	
DETECTOR/RECORDER/MEASUREMENT/TEMPERATURE/PROBEA		2 N	N	C	14
'SUCKS' & 'PUFFS'/MPU./ACIA./EPROM./SWITCH/ASCII.	D	3 N	N	C	
LATCH/ZILOG/FREQUENCY-SYNTHESIS/IO.	DA	9 N	Y	C	
REMOTE-CONTROL/LCD./CONTROL POWER DOORS, TRUNKS	AD	5 Y	N	C	
INEXPENSIVE HOME-BUILT/TV./MONITOR	A	4		C	42
BIT FOR BIT/NO BATTERIES/ELECTRICAL ERASURE	A	4 N	N	C	
RECEPTION/DUAL-PORT RAM./DISTRIBUTED/STAR NETWORKS	D	8 N	N	C	
12.5, 21, & 25V/5V/CHARGER/NICD./TTL.	AD	1 N		C	
MUSICAL TONE		2		C	
VOLTAGE/MEMORY/6-DECADE COUNTER/MN9106	AD	5 N		C	
BREADBOARD/BRIDGE/RECTIFIER/AC. POWER SWITCH	A	5 N	N	C	
60HZ HUM/SPEAKER/RECEIVER/LINE/TV./LAPTOP COMPUTER	A	6 N	N		
PCB./SINGLE CHIP/4 BIT RESOLUTION/FF.S/CMOS.	DA	6 N	Y		
RS-232-C INTERFACE/DMA./PIA./CPU./ACIA./RAM./PROM.	D	5 N	N	C	
HV. TRANSFORMER/OIL-FILLED CAPACITORS/DRIVE/FILTER	A	7 N	N		
INPUT DATA WORD/INITIALIZATION/IO./GRAPH THEORY	D	8 N	N	C	
CX4 UP./AGRICULTURAL MACHINERY/PORTABLE/FARM/ERROR	DA	5 N	N		
SOUTHWEST TECHNICAL PRODUCTS 6800/PIA./7158/IO.	AD	7 N	Y	C	
VOLTAGE REGULATOR	A	1 N		C	
METER/LED. INDICATOR/1A, 3-TERMINAL/REGULATOR	A	1 N	N		
ADC./DISPLAY/CLOCK/RECORDERS	AD	2 N		C	
RCA'S C86003E FIBER-OPTIC DATA LINK		5			
TO 2MA/ADC. INTERFACE/TIME-MUX.ED/RESOLUTION/1V	AD	9 N	N	C	28/61
LOW-POWER/~50FT/19KHZ PILOT CARRIER/RF./CRYSTAL	A	4 N	N	C	
3 NIMH CELLS/RESET/DC.-DC. CONTROLLER/MOSFET.	AD	1 N	N	C	
ELECTROCUTANEOUS/SKIN/TOUCH/BURST/VERY FLEXIBLE	AD	9 N	N	C	
ERASE-WRITE CYCLE/BOOST CONFIGURATION/OA./8MA	AD	1 N	N	C	
AC. TO DC. CONVERSION/FREQUENCY BAND/RODS/QMA	A	7 N	N	C	
OSCILLATOR/200KHZ/INDUCTORS/PS.S/75-82% EFFICIENCY	AD	2 Y	N		
PIA./ACIA./EPROM./RECORDER/DAC./COMPUTER/RAM.	DA	5 N	N	C	
COMPUTER/CONVERTING/ANALOG SIGNALS TO DIGITAL DATA	A	9 N	Y	C	
DBM./RF./GRID DIP OSCILLATOR/WILKINSON HYBRID	A	3 Y	N	C	
DIFFERENTIAL INPUT/BUFFER/POWER OUTPUT	A	3 Y			
PRODUCT DETECTOR/OSCILLATOR/DOUBLER		5			
MOSFET. RF. AMP./MIXER/MARKER	A	7			
OA./CONTROLLER/CURRENT/FILAMENT/HOT-CATHODE/DIODE	A	3 N	N	C	
KIM-1/WAVEFORM/PULSE POLAROGRAPHY (VOLTAMMETRY)	DA	5 N	Y	C	
PROCESSING ELEMENTS/REAL-TIME SOLUTIONS/PROBLEMS	A	3 N	N	C	
MOSFET. DRIVER/4 ALKALINE/NICD. CELLS/BUCK-BOOST	A	2 N	N	C	E
CALIBRATING RESISTORS/HOUSING	A	1			

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RAM. CARDS/DMA./DATA BUS/IS BUFFERED/ADDRESSING	DA	7	Y	N	
FLOW VOLUME/PEAK HOLDING/BUFFER/PULSE SHAPER	A	4	N	N	C
UPPER & LOWER ROWS/STATIC/DYNAMIC DRIVING/MUX.ED	D	8	N	Y	C
SINGLE CHIP/SINGLE -12V PS./PEP-4/SLAC/DIGITIZER	A	9	N	N	C 61
KITS/LOW-ESR. CAPACITORS/200KHZ OSCILLATOR	A	1	N	N	C 10
MATES WITH THE PC. VOICE RECORDER/SPEECH/DISPLAY	AD	4	N	N	
AMP.- OSCILLATOR/FILTERS/LEVEL CONTROL/FET./DIAL	A	4	N	N	C
HIGH INPUT IMPEDANCES/1.5X10 ¹² OHM/BIAS CURRENT	AD	3	N	N	C
CURRENT-SUMMING AMP./DATA TRANSMISSION/SQUARE-WAVE	A	1	N	N	C
TIME-CALENDAR DISPLAY/ALARM/SNOOZE	AD	2	N		
KELVIN CONNECTIONS/INPUTS RANGING FROM 10.1 TO 18V	A	1	N	N	C
PID. FILTER/POWER AMP./PRECISION POSITIONING	AD	8	N	Y	E
RF. INPUT/RF. STAGES/CARRIER/AF./LIMITING AMP.	A	1	N	N	C
40MA/TRANSFORMER/ZENER DIODE/AC.-LINE VOLTAGE	A	1	N	N	C
IF. FILTER/TUNER/INTERCARRIER SOUND	A	4	N		
DISPLACEMENTS/TRANSDUCER/51.5MHZ/DEMODULATOR	A	9	N	N	C
CRYSTAL/TRANSDUCER/MULTIVIBRATOR/INTEGRATOR/PMT.	AD	8	N	N	C
OUTPUT NOISE/5MV/EMG./ECG./BIFET./LF./OA./OFFSET	A	3	N	N	C 39
DETECTION/DE-EMPHASIS/AUDIO/RCA XL-100 TV./PM200	A	3	N	N	C
RLC. RESONATOR/ANTENNA/GRAVITATIONAL WAVES/150K	A	8	N	N	C
2 INDUCTORS/SCHOTTKY DIODE/VOLTAGE	A	6	N	N	C
SERVO PROCESSOR/FOCUS/TRACKING/AMP.	DA	2	N		
CASCADE AMP./SPICE CCT SIMULATOR/SOFTWARE	A	6	N	N	C 4
DIELECTRIC CONSTANT/ADSORPTION OF WATER/CHANGE/OA.	AD	2	N	N	C
HEATER/FERRO-RESONANCE VOLTAGE STABILIZER/SHUNT	A	3	N	N	C 61
0.002HZ-200KHZ/AMP.S/ABSOLUTE VALUE EXTRACTOR	AD	9	N	N	C 25/28
BIMOS. OA.		5			
CHUG-CHUG/MOSFET.-INPUT OA.	A	5			C
TRANSDUCER/VARIABLE DURATION (100-700US)/RESONANCE	A	2	N	N	C
FIGARO/HAMAMATSU/UVTRON/DETECT A MATCH AT 10FT	A	8	N	N	C
MAXIM/POWER FET./INDUCTOR/RF. CHOKE/D CELL/SWITCH	A	2	N	N	88/94
EMF./PEAK AMPLITUDE/MEASURED/VELOCITY PICKUP COIL	A	2	N	N	C
RECTIFIER/CURRENT/PCB./DECODER-DRIVER/SWITCH	AD	3	N	N	C
DC.-DC. CONVERSION/SMPS./DC. MOTOR CONTROL	A	1	N	N	10
FURNACE/THERMOCOUPLE	AD	3	N		C
STI/USART./INTERFACING/Z80/PORT/DATA/CONTROLLER	D	4	N	N	C
RECORDING/REFERENCE/PSD.S/AFC.	A	9	N	N	C
BRIDGE-RECTIFIER/CAPACITORS/INTERFACING/RS-232	A	6	Y	N	C
COUNTER/FM. TUNER/FREE DECAY/VIBRATION	A	4	N		C 51
CROSS-CORRELATION/TIME-RESOLVED SPECTROSCOPY/LIGHT	A	7	N	N	C E
90KHZ/D MOSFET.S/CAN DISSIPATE 500W/HYBRID/GAIN	A	3	N	N	C 5
HIGH-RESOLUTION/SERVO-CONTROLLED/LIGHT/FRINGES	A	5	N	N	C
PHASE SHIFTER/DC. HEATED ELECTRIC BULB/50OHM	A	2	N	N	C
KEITHLEY/SCANNER/ZI-TECH/PROGRAMMABLE RESISTANCE	AD	5	N	N	C
CAPTURE EFFECT/IF. TRANSFORMER	A	2			C
DEMODULATOR/BANDPASS FILTER/FM./CARRIER	AD	4	N		C
RF./WIDE TUNING RANGE/TRANSISTOR/INPUT CAPACITANCE	A	1	N	N	C
CURRENTS & VOLTAGES/MOD. FOR REACTIVE LOADS	A	1	N	N	C
9.2MHZ-12.19MHZ/140-160MHZ/LPF./VCO. TANK CCT/VCM	AD	8	N	N	

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64KBYTE/PAGED/CPU./MPU./SERIAL PORTS/PRINTER PORT	D	7	N	N	C	
PWM./POWER AMP.	AD	2	N		C	
DATA ACQUISITION ANALYSIS/CONTROL/RAM.	D	2	N		C	
VAPOR PHASE/LINEARLY POLARIZED/LIGHT/INTENSE	A	8	N	N	C	
BACKSPACE COMMAND/DEFAULT/TR./PROM.	DA	7	N	Y		
TEMPERATURE SENSOR/PROGRAM/BCD./INTERRUPT/KEYBOARD	DA	2	N	N	C	
FEEDBACK/POTENTIOMETER/MOTOR DIRECTION CONTROL	CC`AD	2	N	N	C	
FINE TUNING/CHANNEL UP-DOWN/ON-OFF	DA	7			C	
INVERTER/RECTIFIER/SYNCHRONIZATION CCT/HALL-EFFECT	AD	9	N	N	C	
JFET./DAC./CURRENT AMP./+10^-13 TO +10^-8A	AD	1	N	N	C	
CRYSTAL FILTER/DBM./GILBERT TRANSCONDUCTANCE CELL	A	5	N	N	C	
KEYPAD MATRIX/CABLE-TV. CONVERTER/LED.	D	4	Y		C	42
HV. OA./PUSH-PULL/MUX./DIFFERENTIAL AMP./PS./NERVE	AD	9	N	N		
NQR./COUNTER/PULSER/PROBE/BOX CAR/DIVIDER	A	6	N		C	
NIC (NEGATIVE IMMITTANCE CONVERTER)/OSCILLATOR	AD	4	N	N		
VARACTOR DIODES/LOOP FILTER/VXO/FILTER/EPROM./RAM.	DA	9	Y	N	C	
PLL./DUAL MODULUS/COMMUNICATIONS/VCO./KEYBOARD	DA	5	N	N		
NULLING OF DRIFT & NOISE/LF. (<20HZ)/LPF./SNR.	A	3	N	N	C	
IONIZATION		4				
EMISSION MEASUREMENTS/TOKOMAK	AD	3			C	
TRANSISTOR/TRANSDUCER GAIN/IC/ADMITTANCE/STABILITY	A	9	N	Y		
VLSI./IC'S/TRANSISTORS/LOGIC GATES/MUX./FF.	DA	9	N	N	C	
WRITE/ERASE/11 TO 17V SIGNALS/TTL./DATA/FET./LATCH	DA	5	N	N	C	
CERN./INTERFACE/COUPLER/DIGITIZER/PAL./PLD.	D	5	N	N		73
BINARY UP COUNTER/BUFFER/DECODER/HEXADECIMAL/CMOS.	D	5	N	N	C	
TEST PROGRAM/MONITOR PROGRAM/COMMANDS & FUNCTION	D	5	N	N	C	
DC. VOLTMETER/REGULATOR/TRANSFORMER	A	3	N			
CONTROL GRIDS/VALVES/40W INPUT/2000V	A	9	N		C	
10M FM./CRYSTALS/RADIO/CB.	A	3			C	
SUPERVISORY/TONES/TRANSMISSION/CMOS./UART./DTMF.	DA	9	N	N	C	
3KV/1A/LOW-COST/5V REFERENCE/HV. POWER TRANSFORMER	A	3	N	N		
RF. PROBE/GAIN OF 40DB/60DB AGC. RANGE/80DB RANGE	A	4	Y	N		34
0.5W/AMP./AC. LINE/30KHZ/CARRIER CURRENT/HF.	AD	9	N	Y	C	
8-BIT CMOS. MICROCONTROLLER/SOLENOIDS/TAPE-DECK	AD	3	N	N	C	
THRESHOLD/FEEDBACK/LONG DURATION/DUTY-CYCLE/EDGE	AD	1	N	N	C	
PROGRAMMING/INPUT SIGNAL/SH./BIFET. OA.	AD	5	N	Y	C	
REFERENCE CCT/ZENER DIODE/DISCRETE	A	2	N	N	C	
RF.PULSE/OSCILLATOR/CW./RECEIVER/SIGNAL GENERATOR	DA	3	N	N	C	
50HZ TO 2300HZ BW./INTEGRATOR/LIMIT DETECTOR	AD	3	N	N	C	
PHOTODIODE ARRAY/FLASH DUTY CYCLE/8.3W/HPLC./DC.	DA	6	N	N	C	
MOSFET.S/UNILATERAL/TMOS./13KHZ/GATES	AD	5	N		C	
8-16-32 BIT/MICROCOMPUTER/8-BIT EXTERNAL DATA BUS	DA	5	N	N	C	
DRIVER/2KHZ/TRAIN OF PULSES/CURRENT MEASURING/LOOP	AD	4	N	N	C	E
REMOTE THRESHOLD ADJUST/MEASUREMENT/DEADTIME/GAS	AD	5	N	N	C	61
RF. COILS/TUNE-UP/SSB. TRANSCEIVER/14MHZ/MOSFET.	AD	9	N	N	C	
30A/HV./VACUUM TUBE/EIMAC/MONITORED/SPUTTERING	A	9	N	N	C	
PHOTODIODE/LED./INVERTING/IGBT.S/HV./LIGHT/PWM.	AD	3	N	N	C	
SCR./REGULATOR CHIP/HEATSINK/COAXIAL PLUG	A	3	N			
EMP/EM. PULSE/MUX./8-BIT ENCODER/FET.S	AD	3	N	N		

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LONGWAVE/BELOW 550KHZ/ACTIVE ANTENNA/BC.	A	6 Y	N	C	
HIGH GAIN TETRODE/UNTUNED PASSIVE GRID INPUT CCT	A	4 N	N		
PRECISION RECTIFIER/BUTTERWORTH LPF./PHASE SHIFT	A	9 N	N	C	
DATA COMMUNICATIONS/CERAMIC FILTER/COLPITTS	A	1 N	N	C	
PORT/RESISTANCE/CAPACITANCE/SENSOR	A	5			
MONOSTABLE 1-SHOT/"DIVIDE-BY-10"/PLL./SELENIUM	DA	9 N	N	C	25
MICROCOMPUTER/DAC.S	AD	1		C	
FREQUENCY-MULTIPLYING/PLL./1MHZ/STEP-DIVIDED/NBS.	DA	6 Y	N	C	
25US TO CONVERT/DELAY/UNIPOLAR-BIPOLAR MODE	AD	1 N	N	C	
LPF./BPF/OSCILLATOR/SURGES/TRANSIENTS/OVERVOLTAGES	AD	5 N	N		
STEREO/<\$10/VCO./LPF./DEEMPHASIS/PULSES/RECTIFIED	AD	1 N	N	C	
SYNTHESIZER/VHF. FM. BC./AF. AMP./VCO./VARICAPS	AD	6 Y	N		
SIGNAL SYNTHESIZER/COMPUTER MONITOR/DISPLAY/BUS	AD	6 Y	N	C	
OUTPUT POWER/VERTICAL OUTPUT/TV. SETS	A	2 N			
1.3GHZ/CCIR/VIDEO AMP./1.5W OF AUDIO/FM./LO.	A	6 N	N	C	
3.5 DIGIT BCD. POTENTIOMETER/DUAL FET. CHIP, OA.	AD	1 N	N		
PPM./IS1U60 REMOTE CONTROL SENSOR/OPTICAL IC	A	3 N	N		
ANALOG DEVICES/FREQUENCY SYNTHESIZER/>500MHZ/TTL.	AD	1 N	N	C	
LOW-POWER MOSFET. LADDER/TRIANGULAR-WAVE/BW./~1MHZA		6 N	N	C	
AIR HOP/PIN DIODE/COMMUNICATIONS/AUDIO/DATA	AD	7 N	N	C	
FREQUENCY-TO-VOLTAGE CONVERSION	DA	5 N		C	
RF./UPCOUNTER/2M/OSCAR/UPCONVERT/144-TO-145MHZ	AD	4 N	N	C	
STEREO PRE-AMP./LED./5X8 PROM./DIGITAL/TREBLE/BASS	AD	5 N	N	C	
NEBULIZER/LIGHT/TUNED AMP./CMOS. BILATERAL SWITCH	AD	9 N	N	C	12/42
ELECTRODE ARRAY/IMPEDANCE/OA./CURRENTS GENERATED	A	5 N	N	C	
COUNTERS/MOTOR/3-PHASE/THYRISTORS/D-PARTITION	AD	9 N	N	C	
DAC./ERROR/OFFSET/GAIN/LINEARITY	AD	9 N		C	
BINARILY/SWITCH/LATCHES/SIMPLE/BINARY	D	1 N	N	C	
BIPOLAR PUSH-PULL STAGE/HIGH-EFFICIENCY/SMALL	A	3 N	N	C	
READOUT/NEP./DIFFERENTIAL AMP./PSD./RESISTORS	A	7 N	N	C	
BEAM/IR./PRESET PERIOD		8			
2'S-COMPLEMENT/DIGITAL WORD/BASIC PROGRAM/NATIONAL	DA	2 N	Y	C	60
100HZ MAINS-SYNCHRONISED PULSE GENERATOR/ADC./DAC.	AD	9 N	N	C	
SBD/UNITED DETECTOR TECHNOLOGY/DETECTORS/PLASMA	A	8 N	N	C	
150W/INPUT & OUTPUT MATCHING NETWORKS/TRANSMITTERS	A	5 N	N		
FULL WAVE/FAST/1 TO 200KHZ/ST-EPR.	A	3 N	N	C	
TELEPHONE/FREQUENCY-LOCKED LOOP/70KHZ IF./AMP.	AD	6 Y	N	C	
SYNCHRONISATION PULSES/MIXING/BIAS/RECEIVER/ARRAY	AD	3 N	N	C	
PIN-TYPE PHOTODIODE/TV./VCR./ENERGY/FARADAY SHIELD	AD	9 Y	N		
INTEL/DISPLAY CRT./MOD.S/RASTER ADDRESSING/DATA	DA	6 N	N	C	
OA./STEPPER MOTOR/SFC/AIR REGULATOR/COMPRESSOR	AD	9 N	N	C	42
NEON LAMP/PHOTOCELL/PIEZOELECTRIC/SOUNDS/120V AC.	AD	2 N	N	C	
44.1KHZ SAMPLING RATE/DIGITAL AUDIO/RC. NETWORK	A	7 Y	N		
REED RELAY/5VDC.	A	1 N	N	C	
IMPULSE NOISE/BAND PASS FILTER (BPF)/COUPLING	AD	2 N	N	C	
LED.-DRIVER/POWER MOSFET./HOLE/40KHZ/TV./REGULATOR	A	3 N	N		
INTERFERENCE/ENVELOPE DETECTOR/DELAY	A	4 Y			
GILBERT TRANSCONDUCTANCE CELL/VHF. RECEIVERS/CLAPP	AD	6 N	N		
RF./MEASUREMENT/SOUND VELOCITIES/ATTENUATION/VCO.	AD	7 N	N	C	

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OA./DETECTION/RESONANT FREQUENCY/DAMPING/FET.	AD	8 N	N	C	28
RF. TUNING/CPU./BUS/CHANNEL SELECTOR/ROM.	AD	4 N			
BRIDGE DRIVER/CURRENT-ERROR CORRECTION	A	3 N		C	
VCO./PHASE DETECTOR/AUDIO/AMP./SIGNAL/OSCILLATOR	A	1 N	N	C	
SOUND/REGULATOR/FEEDBACK LOOP/LOAD/GAIN/AUDIO	A	2 N	N		42
SWITCH/PS./PERCUTANEOUS/PULSE/PHOTODIODE	D	2 N	N	C	
0 TO 600DEG C/4-LEAD RESISTANCE MEASUREMENT	A	3 N	N	C	
DC./RELAY/HIGHPASS FILTER/SWITCH/BUFFER AMP.	A	4 Y	N		
65PS PULSES/RF./800MHZ LPF./ISI./SNR./NRZ./PULSES	A	3 N	N	C	
CB. CRYSTAL/FILTER/10.7MHZ IF. TRANSFORMER/ANTENNA	A	4 Y	N	C	E
RF./VFO.S/COLPITTS OSCILLATOR/WORKS TO 500MHZ	A	2 N	N	C	
OA./FEEDBACK LOOP/600UF PHOTOFLASH/CAPACITOR	A	3 N	N		33
24V & 28V/PNP/NPN	A	1 N	N	C	
OSCILLATOR/COMPLEMENTARY/TRANSISTORS/TRANSFORMER	A	1 N	N	C	
LUMPED CCT MODEL/GAAS./FIXED FREQUENCY/LOAD-PULL	A	5 Y	N	C	
FEEDBACK/PHOTOTRANSISTOR/PIN PHOTODIODE/LO./40KHZ	AD	1 N	N	C	
VARACTORS/DBM./AUDIO AMP./TANK/OSCILLATOR/BFO./AM.	A	5 Y	N	C	
DYNODES/HIGH CURRENT FLOATING PS.S/BEAM	A	4 N	N	C	
LEAKAGE CURRENT/1NA/CHARGING/HOLDING CAPACITOR	AD	1 N	N	C	
	AD	2 N	N	C	
COMMUNICATIONS/LINKS/LED./PHOTO DETECTOR/STEREO	A	8 Y	N	C	
FM. IF. LIMITER/DEMODULATOR MULTIPLIER/DISTORTION	A	7 N	N		
HV. PULSER/BANK OF CAPACITORS IN PARALLEL/DIODES	A	3 N	N	C	
49.82 TO 49.90MHZ BANDS/LO./3RD OVERTONE COLPITTS	AD	2 N	N	C	
10HZ, 100HZ, 1KHZ & 10KHZ/TIMER/PSU/MULTIVIBRATOR	A	1 Y	N		
INTEL/NMOS./UP./SRAM./8-BIT ADC./BATTERY-OPERATED	AD	5 N	N	C	E
40KHZ/SAWTOOTH/HIGH INPUT IMPEDANCE	A	2 N		C	
<US\$25/ON-LINE MONITORING/HEART/WIDE DYNAMIC RANGE	A	4 N	N	C	
SENSITIVE/INDICATOR/TEST INSTRUMENT	A	2 N		C	
LOW COST/REFERENCE/METER/JFET. INPUT/COMPARATOR	A	6 Y	N	C	
MOTOROLA/UHF. TRANSISTOR/DROPS ~3DB PER OCTAVE	A	2 Y	N		
DYNODE CHAIN/ABSORBANCE/SH./ACCELERATOR	A	6 N	N	C	
LOCK-IN AMP.S/HALL PROBES/RESISTANCES/OHMIC	A	2 N	N	C	
CHILLED-MIRROR HYGROMETER/RH.	AD	9 N	N	C	
PSD./LPF./AUDIO AMP./SH./ANALOG MULTIPLIER	AD	9 N	N	C	91/92
SELF-TUNING/LAMP/MAGNETIC FIELD/RESONANT FREQUENCY	A	2 N	N	C	
INTEGRATOR/REFERENCE/GENERATOR/SUMMING	AD	9 N		C	
RAMPED SMOOTHLY/MODULATION/RATE/LOAD	A	3 N		C	
DISCRETE FT./FFT./NOISE/MEASUREMENTS	A	9 N	N	C	
PWM./MATCHING FET.S/TRANSFORMER/SOUND/DRIVERS	AD	9 Y	N		
2-CHANNEL, 12-BIT, DAS./102MW	AD	5 N	N	C	
DAC./VFC./DIGITAL INPUT/JFET. OA./0 TO 10V/HEIGHTS	AD	2 N	N		E
REGULATOR/BRIDGE RECTIFIERS/NULLING/TRANSFORMER	A	6 Y	N	C	
FRONT END/250KHZ/12 BIT/MPX4/HIGH SPEED/PRIORITY	DA	7 N	N	C	61
MEASURING/ULTRASONIC/VELOCITY OF SOUND/MOD./PEO	A	2 N	N	C	
		1		C	
GATE/LOGIC/TRANSDUCER/SOUND PROPAGATION/TRIGGER	AD	3 N	N	C	
ADC./BUFFER AMP./ECL./LINE DRIVER	AD	2 N		C	
BUNCHER/KLYSTRONS/135KV/DROOP-COMPENSATION CCTS	A	3 N	N	C	

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MONOSTABLE/INVERSE FUNCTION MODULE/COMPARATOR/TTLAD	5 N N C
DRIFT/DROOP RATE/HIGH INPUT IMPEDANCE/FLOWMETER	A 2 N N
TRANSFORMER/THERMAL/SWITCHES/FORCED AIR	A 5 N C
MULTIPLIER/QUOTIENT/SQUARER/SQUARE ROOTER/QUOTIENT	A 5 N N
CLAMPING/BACK PORCH/BLANKING/BLACK LEVEL	AD 1 N
PRIMARY-SIDE REGULATION/ISOLATION/CURRENT LIMITING	A 1 N N C
DARLINGTON PAIR/TRANSISTORS/SCR./TRIPPED/SIMPLE	A 2 N N
UNIVERSAL-MOTOR/SPEED CONTROLLER/OPTICALLY COUPLED	A 7 N N C
LED./IMSAI/PHOTOTRANSISTOR/PDP 11 MINICOMPUTER	DA 4 N N C
UNIVERSAL/LAMP/GLOBE/IGNITION/PLASMA-TUBE/COIL	A 8 Y N C
POTENTIAL/POWER AMP./HV. ATTENUATOR/HV. SPIKE	A 7 N N C
ZENER DIODE/PS.S/LINEAR VERSION OF/MARX GENERATOR	A 4 N N C
THERMISTOR/SPIKE ABSORBER/SPIKE SUPPRESSION/TRIAC	A 9 Y N
IGNITION COIL/PHOTOGRAPHY	4 C
DIRECT COUPLING/AUDIOAMP./OUTPUT	A 2 N
RADIO/AM.-FM./CASSETTE AUTO	A 3 C
-10 TO +23DBM IN 50OHM/DC./50KHZ OSCILLATOR/CMOS.	AD 6 N N
CROSS-OVER/LOUDSPEAKER/COMPLEMENTARY	A 3 N C E
PERIPHERAL/SYSTEM CONTROLLER/CPU./DATA BUFFER/FPU	D 2 N N C
TRANSMISSION-LINE DRIVING/ADC./150MHZ	A 7 N C E
RESET/SERIAL/DISK CONTROLLER/BAUD-RATE	DA 9 Y C
BIQUADS/POLE/ZERO/RIPPLE/0.5DB/NOTCH-TYPE/OA.S	A 5 N N C
LIN CMOS./DEVICE STABILITY	A 1
CHARGE PUMP/SERVO/GAIN-BW. PRODUCT/COUNTER	AD 9 N N C
BALANCED MIXER/DETECTOR/TBA651/CA3123E	A 4 N
IO./BASIC/8088/EPROM./RAM.S/BACKUP	DA 8 Y C
MULTICHANNEL/200UA/UP TO 5.5KV/CAMAC/INTERFACE	AD 9 N N C 39/61
HIGH SLEW RATE/LOW BIAS CURRENT/ACCURATE	A 6 N C
ACTIVE AUDIO FILTER/AUDIO/VCA./BI-QUAD	A 4 N
LED. INDICATOR/PATIENTS/CEREBRAL VASCULAR ACCIDENT	AD 4 N N
MEASURE/ELECTRODES/CAPACITOR BLOCKS DC. CURRENTS	A 4 N N C
TIMER/BILATERAL SWITCH/BAR-GRAPH/RADIO/OPTOCOUPLER	AD 6 N N
LIGHT WEIGHT/BALLOON/ANODE/PULSE HEIGHT	AD 8 N C
IGNITRON/ADJUSTABLE/EMISSION SPECTROSCOPY/SPARK	A 9 N N C E/25
PPI./IBM PC. BUS/VIA./PIA./C LANGUAGE/PROGRAMMING	DA 8 N Y C
PHOTOTRIAC/SSR./LIGHT BULB/HIGH-POWER/110VAC.	AD 7 N N C
FAST OA.S/ABSORB/ENERGY/PORT/VOLTAGE/MATCHING/RF.	A 5 N N
ADC./PC./TIME-DEPENDENT DIELECTRIC BREAKDOWN/TDDB	A 5 N N C
RC. ACTIVE FILTERS/"STATE VARIABLE"/HEADPHONE JACK	A 4 N N E
OVER-CURRENT/OVERLOAD/TOROID TRANSFORMER/LOAD	A 2 N N C
HEAT SINK/HT/BATTERY PACK/NICD./SWITCH/12V DC. IN	A 1 N N
SUPERIOR/STABLE/SERIES-PASS TRANSISTOR/GAIN	A 1 N N C
LED.S/CAN BE USED WITH ANY POWER AMP./ZENER DIODES	AD 2 Y N AJ
FILTER TEST CCT/TQF-2599 FROM TOYOCOM/FD12/LED.S	A 3 N N
DISCRIMINATOR/OA./TNC./MODULATION/BW./TRANSMITTER	A 3 Y N C
FM. DETECTOR/TREBLE/BASS/POWER-AMP.	A 7 Y C
VALID-STATION DETECTOR/NOISE/LO.	A 6 N N C
OFFSET VOLTAGE TOO HIGH/OFFSET CURRENT/OUTPUT	A 1 Y N C
ELECTRICAL CHARACTERISTICS/LOGIC/OSCILLATOR	D 2 N N C

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CHOKE/COIL/USER'S PORT/COUNTER/COMPONENT/ACCURATE	AD	3	N	Y	C	
APPLE GAME PORT/FACSIMILE/PROGRAM	AD	6				
RESOLVE/100HZ/FREQUENCY/TRANSCEIVERS	DA	4	N		C	
VOLTAGE DIVIDER/NEGATIVE FEEDBACK	A	1	N			
		1			C	
RH/TRANSDUCERS/SENSOR		4			C	
MOSFET. RF. AMP./BW./FM.-RADIO/NOISY	A	7	N	N	C	
FREQUENCY STABILITY/GAIN/CMRR./INPUT IMPEDANCE	A	3	N	N	C	
AMP./MORSESHOE CHAOS/MELNIKOV'S/POINCARÉ MAPS	A	9	N	N	C	
PULSE WIDTH/TIME DIFFERENCE/ACCURACY/1DEG	AD	1	N	N	C	
ZCD./BUFFERS/LOW-PASS INTEGRATING FILTER/1-SHOT	DA	2	N	N	C	
CHARGING A NICD. BATTERY/3-TERMINAL REGULATOR IC'S	A	3	Y	N	C	
HV. PS./TUBES/AMATEUR RADIO/RF./PI NETWORK/SWR.	A	7	N	N		
COMPARATOR/1-SHOT/CURRENT SENSE TRANSFORMERS	AD	1	N	N		42
RF./FM.-MODULATED/ANTENNA/IDER/IMPATT	A	6	N			
MONITORS/INPUT/RESET SEQUENCE	AD	1				
2025HZ/2225HZ/20M BAND/TIMING COMPONENTS/MODEM	A	1	N	N	C	
DOWNCONVERTERS/LOW COST, <\$200/MAGNETRON/FM. VIDECA		6	N	N		
3.500V/VOLTAGE REGULATOR/HEAT TRANSFER/NMR. TUBE	A	9	N	N	C	42
8080A/PROM./THYRISTOR/DARLINGTON TRANSISTOR/CELL	DA	5	N	Y	C	39
PHOTOTRANSISTOR/VISIBLE OR NIR./45MHZ/RECEIVER/PS.	AD	7	N	N	C	
VOX HEADSET/RIG/COMMUNICATOR/49MHZ FM./MICROPHONE	A	2	N	N	C	
PRIVATE LISTENING/MUSIC/BATTERY/POTENTIOMETERS	A	3	Y	N	C	
GSM-5/METER/MOD./MONITOR/FALSE SAFE READINGS	A	3	N	N	C	61
SPEAKER OR HEADPHONES/CURRENT DRAIN/UP TO 0.7W	A	1	N	N	C	
INTEGRAL FEEDBACK/WIDTH MODULATED PULSES	AD	3	N		C	
SENSOR INTERFACE/PIN PHOTODIODE	A	4			C	
JUMP RESONANCES/GAIN/SINUSOIDAL/MOTOROLA/NATIONAL	A	5	N	N	C	
EMITTER/RADIATION/PM./PIN PHOTODIODES/ECG./EEG.	AD	9	N	N	C	42
MODULATED/LIGHT BEAM/RANGE/50FT		4				
STABLE FREQUENCY/DIGITAL MIXER/DATABUS/HF. HEATING	AD	5	N	N	C	
HV. EXCITATION/MOSFET.S/LOW BW./300HZ/OA.	A	1	N	N	C	
STRANGE ATTRACTORS/LORENZ CCT/FRACTALS/POINCARÉ	A	9	N	N	C	
<\$60/LED. BARGRAPH DISPLAY/DIRECTION FINDING	AD	5	Y	N	C	
RECOVERS SIGNALS BURIED IN NOISE/SPECTROMETER	DA	8	N	N	C	
INPUT DIVIDER/OA./LINEAR DIFFERENTIAL VOLTAGE AMP.	A	1	N	N	C	
PLAYBACK/1-BIT BIT-STREAM &/10-BIT D-TO-A/GIC	AD	1	N	N	C	
IBM PC./PULSE GENERATOR/INTEGRATOR/COSTS	AD	9	N		C	
CONDITIONS/ICE/DARK/AIR/LED./AUDIBLE ALARM/SENSOR	A	4	Y	N		
LINEAR REGULATOR/STANDBY MEMORY	AD	1			C	
TEST INSTRUMENTS/LIMITATIONS/VOLTAGE MEASUREMENTS	AD	4	N	N		E
GERMANIUM DIODE/VCO./OA.S/BROAD BAND/ENERGY/CHOKES	A	3	Y	N	C	
EDUCATION OR EXPERIMENT/SET & HOLD/ANALOG SWITCH	AD	5	Y	N		
AC./POWER CONTROLLER/DETECTOR/RECEIVER-DEMODULAT	CAD	6	N	N	C	
SECURITY-SYSTEM/RADAR/RF. OSCILLATOR/~1.0GHZ	A	5	Y	N	C	
INTERFERENCE/PLL./AUDIO/RADIO WAVES/RECEIVER/CAR	AD	9	Y	N	C	
CLASS-B OUTPUT STAGE/GATES/CURRENT/IMPROVED	AD	2	N	N	C	
ESR./EMI./DISTRIBUTED PS.S/SOFTWARE/SWITCHERS	A	3	N	N	C	
CROSSING DETECT/NO-LOAD COMMUTATION ANGLE/TIMER	DA	6	N	N	C	

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ANALOG DIVISION/SUPERIOR GAIN-MATCHING/CD. PLAYERS	A	7 N	N	C	
	A	5 Y		C	
RELAY MODULE/TV./VCR./ANTENNA/CABLE/VCO./SPLITTER	AD	8 Y	N	C	
CRT./IF./RF. & LO. TUNING CCT/SCANNING/AGC./<\$10	A	4 Y	N	C	
WATCHDOG RESET/ADJUSTABLE VOLTAGE-SENSING CCT	AD	2 N	N	C	E
OA./2.5V/8-BIT/RAMP VOLTAGE/COMPARATOR/ERROR/LF.	AD	1 N	N	C	
POWER-AMP. IC/OSCILLOSCOPE/TRANSIMPEDANCE AMP.	A	3 N	N	C	
TELEPHONE-BASED AC. POWER CONTROLLER/PRINTER PORT	AD	6 Y	N	C	
METER/OUTPUT JACKS/TRANSFORMER	A	4			
HIGH/ANODE CURRENT/SECONDARY EMISSION/DYNODES	A	9 N	N	C	
REPEATED/FRAUNHOFFER DIFFRACTION/LIGHT/WAVES	DA	7 N	N	C	
REMOTE/SENSOR/FM. RECEIVER/SIREN	DA	7		C	42
DC.-DC. CONVERTER/0.01V TO 9.99V IN STEPS/SWITCHES	A	2 N	N	C	
SQUARE-WAVE/REGULATOR/WAVEFORM-GENERATOR/REFEREA		5 N	N	C	
RF. COUPLER/TTL. PULSE/LC. FILTERS/150MHZ/VAPOR	AD	7 N	N	C	25
TIMER-OSCILLATOR/60HZ TO 100KHZ/POTENTIOMETER	A	1 N	N	C	
SIMPLE/SPEAKER/FROM <30HZ TO FULL-OPEN/Q OF 25	A	3 N	N	C	
ADC./SRAM./ROM./IMPACT BRUISING/ACCELEROMETER	AD	5 N	N	C	E
PROCESSORS/COMPUTER/CRT./INTERFACE/MONITORS/VDP	AD	8 N	N	C	
1030-DYN-CM AT 1500V/0.8MW AT 80 RPM./N-HEXANE	A	3 N	N	C	
VCO./LED./TRANSCEIVERS/ZERO-BEATING/600-800HZ	A	2 Y	N	C	
SCHOTTKY DIODES/FREQUENCY-SELECTIVE VOLTMETER	A	2 N	N	C	
MOD./DC. SERVO-MOTOR/AMP./TORCH BOX/CHARGED IONS	A	9 N	N	C	
SCR./OA./PERMANENT-MAGNET, BRUSH-TYPE/TRANSISTOR	A	3 N	N	C	
ALU./REGISTER/MUX./MEMORY/DIGITAL/ERROR-DETECTION	D	7 N	Y	C	
AMPLITUDE CONTROLLER/ELASTIC MODULUS/INEXPENSIVE	AD	5 N	N	C	
WIRE/CAPSULE/DATA/CODLING MOTH/ACTIVITY/LIGHT	A	4 N	N	C	
TESTER CCT/SENSE VOLTAGE/IN SITU TESTING	A	3 N		C	
VARACTOR DIODE TUNING/BJT./DUAL-GATE MOSFET./Q	A	5 N	N	C	
EFFECT OF OA. 2ND-POLE ON CCT STABILITY/SIMULATION	A	4 N	N	C	
SHUTS OFF/REGULATOR/SCR./COMPARATOR/TTL.	A	1 N	N		
CASCADE-CONNECTED DIFFERENTIAL/BIO MEDICAL/EEG.	A	3 N	N	C	
AUDIO CASSETTE/MONITORING VARYING DC. SIGNALS	A	1 N	N		E
LOW TC./LINEAR TECH/SIMPLE CCT/HURLEY/CURRENT	A	1 N	N		E
KENWOOD/KEY CLICKS	A	1			
RADIATION PATTERN/GRID-DIP METER/WAVELENGTH	A	2 N	N		
SEPARATE STATIONS MORE EASILY/CAPACITORS/365PF	A	1 N	N	C	
\$3/CAPACITOR/POTENTIOMETER/DC. METER/POWER	A	1 N	N	C	
TRANSFORMER/TRANSISTORS/WINDING/FERRITE POT CORES	A	7 N	N		
POWER-SWITCHING/78% TO 80%/LOSSES/VARIABLE-VOLTAGE	A	2 N	N	C	
IC/SENSORS/TRANSDUCER/ULTRA-LOW OFFSET	A	3 N		C	
CALIBRATE/ICOM 745/TRANSMITTED/CONTESTS	A	1 N	N		
VARIABLE/CURRENT LIMITER/VOLTAGE	A	5 Y			
VCO./SATELLITE/WEFAX/TIROS/NOAA/SINGLE-EVENT/IR.	AD	3 N	N	C	
RAMP VOLTAGE/STIMULUS/ELECTRODE/IMPLANT/PACEMAKER	AD	9 N	N	C	
SWR. METER/FORWARD/REFLECTED VOLTAGE/2 DIODES	A	1 N	N	C	
RF./4KW PEAK INPUT & 2.5KW PEP OUTPUT/TRANSFORMER	A	6 N	N		
JITTER/+30PS/BIAS/AVALANCHE/MCP./FAST/+4.0KV	A	7 N	N	C	E
QSK/TRANSCEIVER/FERRITE BEAD	A	1 N			

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POT-CORE INDUCTOR/TOROIDS/ROD/SHIELDING	A	6 N			
Z80/OPTICALLY COUPLED/PS./LED. INDICATOR/SWITCHES	DA	5 N	N	C	5/61
BYPASS CAPACITORS/SIMPLE MOD.S/LOAD/TERMINATION	A	2 N	N	C	30
DUPLEX/SATELLITES		1			
LOCK-IN AMP./INPUT CAPACITANCE/POLYSTYRENE	A	5 N	N	C	
VOICE COMMUNICATIONS/CAR RADIO/AM./MORSE CODE	A	3 N	N	C	
RF./MOS. SWITCH/FET./OSCILLATOR/NPN/PNP	A	5 N			
23CM BAND/1295MHZ/FULL-WAVE BRIDGE/1.5KV/1A	A	2 N	N	C	
NMR./<\$900/+0.035DEG C/REFERENCE VOLTAGES/ADC.	AD	8 N	N	C	88
BC.ER/EASY TO BUILD/AMP.	A	3		C	
MOSFET. SWITCH/ZCD.	AD	4 N		C	
GAP/AVALANCHE/PYROELECTRIC DETECTOR	A	4 N		C	
RECEIVER/COUNTER/3MHZ UPWARD/100KHZ	A	1 N			
AMSAT-OSCAR 8/BUFFER/CRYSTAL-CONTROLLED	A	4 N			
PARALLEL RESONANT CCT/TO 50UH/TO ~1000PF/4MHZ	A	3 N	N		
VOLTAGE REGULATOR/TRANSFORMER/RECTIFIER DIODE	A	3 Y	N	C	
MOSFET./IR. DETECTOR MODULE/LED.S/PIN PHOTODIODE	DA	8 Y	N	C	
DOUBLER/CRYSTAL/MODE-J FILTER/FET./OSCAR	A	5 N			
AM.-RECEIVER/SHIELDED ENCLOSURE/DIGITAL	A	6 N		C	
PASSIVE FET./DIODE/DBM./VLF./HF.	A	9 N	N		
COAXIAL CABLE & AN RF. DETECTOR CCT/TRANSFORMER	A	3 N	N		
DRIVE-SHUNTING TRANSISTOR/LIGHT/LED.	A	1 N		C	
SWR./VEHICLE/MOBILE/RADIATION/RF. POWER	A	2 N			
DUAL-PURPOSE FRONT END		2		C	
UP TO 30MHZ/DC. VOLTMETER/RMS.	A	1			
MC1350/COLLECTOR CURRENT/TRANSISTOR/FEEDBACK	A	2 N	N		
SOUND EFFECTS/DATA/AMP./CLOCK GENERATOR/8-BIT	DA	2 N	N	C	
PHOTOTRANSISTOR/SWTP 6800/PIA./LIGHT/OPTICAL/LAMP	AD	2 N	N	C	E
ALLOY/NICKEL/CHROMIUM/LED./AC. POWER/NEON LAMP	A	6 N	N	C	
THERMISTOR/TEMPERATURE COMPENSATION/POWER SOURCE	A	1 N	N	C	E/AJ
TRANSISTOR/SWITCH/PRE-AMP./CATHODE/DRIVING SIGNAL	A	8 N	N	C	
AUDIO/SOUND WAVES/LISTENERS/FM. RECEIVER/CARRIER	A	3 Y	N	C	
TTL./DRAM./CPU./6-BIT CHECK/DATA/LATCH/BUFFERS	D	8 N	N	C	
CONVERT/RF./RADIOS/TUNE/WINDING THE COIL/NOISE	A	2 N	N	C	
VTVM/VOLTAGE/HV. CAPACITORS/READING/TEST	A	1 N	N		
HIGH-IMPEDANCE	A	1 N			
~\$10/COLECO/CABLE/ANTENNA/MATCHING COIL/DIODE/EMF.	A	3 Y	N	C	
KEYS THE 2ND LOOP/6800/COMPUTER/PROGRAM/MODEL 15	A	1 N	N	C	
MEASUREMENT/REMOTE/E-FIELD/H-FIELD/EMI.-RFI.	A	6 N	N		
CONVERTER/WARC. BAND/TR. SWITCHING	A	4 Y			
PICOSECOND LIGHT PULSE/100HZ/PHOTO TRANSISTOR	A	4 N	N	C	
VCO./TUNING VOLTAGE/MIXER/VHF. TRIPLER/JFET.	A	4 N	N		
CALCULATORS/TV./HV. WINDING	A	6 N			
METER-SHUNT SELECT/ERROR-V/REGULATOR	A	4 N			
BDT/CRYSTALS/UHF./GROUP-TYPE UNIVERSAL TRANSDUCERS	A	5 N	N	C	
PIN DIODES/VARACTOR/TUNNEL/RF. OSCILLATOR/RECTIFY	A	5 N	N	C	
NEGATIVE REACTANCE/METAL-CAN-TYPE/EMITTER/BFO.	A	2 N	N		
PS./BIOMEDICAL/>100KHZ/EFFICIENCY/82%/LOW AS 200MV	A	9 N	N	C	
ACCEPTS TTL.-LEVEL/DARLINGTON-CONNECTED/TRANSISTOR	AD	7 N	N	C	

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SUPER-SENSITIVE/INCREASE SELECTIVITY	A	3	N	N	C	E
AUGER SPECTROSCOPY/AES./MCP./RF. MODE/DAC./XPS/UV.	A	9	N	N	C	
7.5KV/ISOLATION/THYRISTORS/ZERO-VOLTAGE SWITCHING	AD	5	N	N	C	
SWITCHES/THYRISTORS/SCR./PROGRAMMABLE UJT./PUT	A	6	N	N		
TTL./PHOTO-DARLINGTON/PATIENT/TRIAC/LIGHT	AD	8	N			
AUDIO PREAMP.S/PHONO/RIAA	A	7	N		C	
QSK/KEYING/ANTENNA	AD	4				
LEVEL SHIFTER/MICROCONTROLLER/PWM/PHASE STEERING	AD	1	N	N	C	
GONSET 972/CONVERTED/POWER/144MHZ	A	7			C	
SOLID-STATE/COILS/FERRITE ROD/SPEAKER/EARPHONES	A	5	N	N	C	
IA./LATCHES	AD	2	N	N	C	
LIGHT INTENSITY/DIFFERENTIAL MONITORING/NOISE	AD	8	N	N	C	
CMR./AC./DC. CMRR./MISMATCH/OFFSETS/GAIN ERROR	A	2	N	N		
GENERATOR CCT/X & Y DEFLECTION/SCANNER/FIELD/TV.	A	6	N	N	C	
JFET./VOLTMETER PROBE/LC. TANK/DIODE/GIMMICK COIL	A	5	N	N	C	
FAST/REFERENCE JUNCTION/SENSOR/PRECISION OA./LED.S	A	7	Y	N		
CURRENT-SENSING RESISTORS/TRANSISTORS/LOAD/CURRENTA		3	N	N	C	
MAINS/PULSE TRANSFORMER/TRANSISTOR/SHUNT REGULATO	AD	1	N	N	C	
REED RELAY/IR. DIODE-PHOTOTRANSISTOR/SLIDING/ALLOY	A	3	N	N	C	16
PHASE-MARGIN/FEEDBACK NETWORK/HIGH-SLEW-RATE OA.S	A	9	N	Y	C	
NOISE/CODES/LIGHT/40KHZ CARRIER/PULSES/BURSTS	A	4	N	N	C	
SNR./HIGH-SPEED DATA ACQUISITION/SINGLE-POLE	A	4	N	N	C	
MATCH/IMPEDANCE/ANTENNA/FET./FERRITE CORE	A	1	N		C	
FILTERED/BW. OF ~300HZ/RF./NMR. COILS/DRESS	A	9	N	N	C	
PHASE MODULATION/JFET./PSRR/IA./RF. ISOLATION AMP.	A	8	N	N		
SPICE SIMULATIONS/CMRR./FLICKER (1-F) NOISE	A	8	N	Y	C	
RESISTOR VALUES/PARAMETERS/NOISE-CURRENT DENSITIES	A	3	N	Y	C	
HARMONIC MIXER/PHASE DETECTOR/INTEGRATOR/LASERS	AD	4	N	N	C	
SURFACE BARRIER DIODE (SBD)/PULSES/SILICON	A	9	N	N	C	
GAASFET./GAAS. HEMT/NMR./NQR./EPR./LOW-TEMPERATURE	A	6	N	N	C	
WIDE BW./10KHZ TO 25MHZ/LO./HIGH-SPEED/AMP.S	A	9	N	N	C	
SERVO SYSTEM/MIXER/OSCILLATOR/PENDULUM	A	6	N		C	
FEEDBACK/DOUBLE PEAK RECT./FILTERS/RAMP	A	5	N		C	
SOCKET/+5V/REGULATOR/+47V/UP.	A	4	Y			
LOW-OFFSET/NOISE/MEASUREMENT/TEMPERATURE/SENSOR	A	4	N	N	C	E
COUNTER EMF./DYNAMIC BRAKING/SERVO LOOP/SOA./LM12	A	5	N	N	C	
KEYBOARD/OPTOISOLATOR/BASIC/RAM./TONE	A	5	Y			
ENVELOPE CORRECTION FEEDBACK (ECFB)/TRANSMITTER	A	8	N	N		
REGULATOR/CCT BREAKER/INDUCTOR/CAR	A	3	N			
ANTIPARALLEL DIODE/HF./VOLTAGE-CONVERSION RATIO	A	9	N	N	C	
DUAL OUTPUT VOLTAGES/RECTIFIER & FILTER CAPACITORS	A	1	N	N		
HIGH-EFFICIENCY/80.3%/FULL LOAD TO INFINITY	A	4	N	N	C	
PRECISE/COUNTER/LED. DISPLAY/FET./FUNCTION	AD	5	Y		C	
100MHZ/VSWR./NETWORK/MATRIX/SHORTED/OPEN/STUB/RLC.	A	7	N	N		
HAMS/DC./4.8A/HIGH-POWER TRANSMIT/POWER FAILURE	A	1	N	N		
RESONANT LC./TANK CCT/VARACTOR DIODE/10^8HZ/~100PS	A	4	N	N	C	25
CURRENT SOURCES/"ANALOGUE FUNCTION ARRAY"/SAMPLER	AD	4	N	N		E
RESISTANCES/FULL LOAD TO INFINITY/POWER/PWM./1MHZ	A	9	N	N	C	
AMP./GAIN MAY BE SET BY VARYING BIAS CURRENT I\B	A	1	N	N	C	

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SPICE/BRIDGE RECTIFIER/HF./BIDIRECTIONAL SWITCHES	A	6	N	N	C	
CONTROL RELAY/DEMODULATOR-DECODER/FUNCTION GEN.	A	3	N	N		
REFLECTION HIGH-ENERGY/RHEED/WINDINGS/ELECTRON GUN	A	9	N	N	C	E
COMMUTATING INDUCTOR & CLAMP DIODES/PWM.	A	9	N	N	C	
HANDIE-TALKIE/INDUCTOR/CHOKE/CAPACITOR/POWER/CABLE	A	1	N	N		
ANTENNA/FERRITE LOOPSTICK/FERRITEBAR	A	1	N		C	
VOLTAGE-FED FULL-BRIDGE RESONANT/PS.S/RF./CLASS E	AD	9	N	N	C	
CMRR./DIFFERENTIAL INPUT/BALANCED/COMMON-MODE	A	1	N	N	C	
4-8FT/AUDIO SIGNAL/FAIRLY DIRECTIONAL	A	1	N	N		
3-4M (10-13FT)/DISTORTION/1-2%/AUDIO SIGNAL/LIGHT	A	1	N	N		
98% POWER CONVERSION EFFICIENCY/2-5MA	A	1	N			
P^2\CMOS/COUNTER-TIMERS/ADDRESS SPACE OF 64KBYTES	DA	6	N	Y	C	
LOW SWITCHING &/CONDUCTION LOSSES/WIDE LOAD RANGE	A	7	N	N	C	
PASSBAND/LOCK/RTTY./CW.	AD	4				
VHF./GERMANIUM TRANSISTORS/ANTENNA	A	1				
USER-VARIABLE/EFFICIENCY IS ~82%/POWER/LOOP/1400V	A	2	N	N	C	
2-TERMINAL INDUCTOR/REDUCE HARMONICS/ANALOG CCTS	AD	9	N	N	C	
BATTERY/PORTABLE COMPUTERS/COUPLED-INDUCTOR/LOSSEA		9	N	N	C	
1200V/MILLER EFFECT/CCT LOADING	A	4	N		C	
TRACKS/WITHIN 200MV/50 TO 500MA/ADAPT IT TO +-5V	A	2	N	N	C	
SLIT/TOF.-SIMS/BEAM/WIEN FILTER/DEFLECTOR/DETECTOR	A	6	N	N	C	
20US/DETECTOR/PHOTOTRANSISTOR/FREE ELECTRON LASER	AD	4	N	N	C	12
DIFFERENTIAL INPUT/CONSTANT CURRENT SOURCE	A	9	N	N	C	
ULTRA-HIGH-PRESSURE/DENSE GC.	A	3	N	N	C	
DIODE/SCR./HV. GAIN/OF 20/HIGH EFFICIENCY/5KHZ	A	3	N	N	C	
MICROPHONE/TANK CCT/CAPACITOR/RADIOS/RC. FILTER	AD	3	Y	N		
INPUT PHOTODIODES/TRANSCONDUCTANCE AMP./FEW HERTZ	A	1	N	N	C	
VCO./SIGNAL GAIN/ISOLATION/COUNTERS	A	4			C	
BW./LOW LEVEL RF. MEASUREMENTS/BYPASS CAPACITORS	A	1	Y	N	C	3
SERIES-SEQUENTIAL TECHNIQUE/BW./BRIDGE CAPACITANCE	A	5	N	N	C	
TIMING CCT/ELECTRO-OPTIC MODULATOR DRIVER/TTL.	AD	9	N	N	C	
OFFSET/+4 LSB.S/INTEGRAL-LINEARITY ERROR/+1 LSB.	AD	1	N	N	C	
COMPUTER-GENERATED SMITH CHART/PC./RAM./RESPONSE	A	2	N	N	C	53
OSCILLATORS/PZT./HIGHLY STABLE/RESONANCE/VIBRATION	AD	6	N	N		
ADD-ON ACCESSORY/DIGITAL READOUTS		6			C	
USED GEAR/SURPLUS EQUIPMENT/TRANSFORMER/CAPACITORS	A	3	N	N	C	
HV. CAPACITOR/ELECTRON BEAM/SWITCHED/35HZ/RGH	A	4	N	N	C	16
HT./LT/TRANSMITTER/LEADS/PLUGS/TUNING CAPACITORS	A	5	N	N		
HV./SWR./PI-NETWORK/TUBE-TYPE TRANSCEIVER	A	4	N			
BLEEDER RESISTOR STACKS/TOP-BAND/3000VDC./TOROID	A	8	N	N		
PADDLE/STRAIGHT KEY/MICROPHONE JACK	AD	2	N	N		
WARBLING ALARM		1				
BIQUAD/100:1 RANGE/INDUCTORLESS RECEIVERS	AD	1	N	N	C	
JOHNSON COUNTER/WALKING RING/DAC./2M	DA	2	N			
CALORIMETERS/HEAT/OSCILLATOR/SENSORS/MATCHING	A	4	N	N	C	
GR2716/6116/2732/2532/CODE/ZIF. SOCKET/TRANSFER	D	1	N	Y	C	
VHF./UHF./IF. AMP.S/DETECTOR/MIXER	A	6	Y			
WIDE-BW. RF. AMP./DIVIDE-BY-10	AD	2	N		C	42
SPECTROMETERS/FIELD MODULATION/SWITCHING SPIKES	AD	5	N	N		

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2K BIT STATIC BUFFER MEMORY/DATA/FIFO.	DA	3 N	C	
SINCLAIR ZX-81 MICROCOMPUTER/RAM./LED./DC. MOTOR	DA	9 N	N C	
MODELING/PARTITIONING/TESTABILITY	D	9 N	C	
DETECTOR/HV./ARCING/AMP.-DISCRIMINATOR/HODOSCOPE	AD	4 N	N C	
8-BIT MAGNITUDE COMPARATOR/ADDRESS LATCH/1-SHOTS	D	9 Y	N C	
MEASUREMENT/3-TO-8 LINE DECODER/CS./60MHZ CLOCK	DA	9 Y	N C	
DUAL J-K FF./TIMER/EME/TRANSFORMER	DA	1 N		
NF. OF 2.65DB/10DB GAIN	A	1		
LOCK-IN AMP./TUNGSTEN STRIP LAMP/PLANCK/OSCILLATOR	A	5 N	N C	39
TERMINAL COUNT SIGNAL/LOADING/FT.-NMR./CLOCK/<\$400	D	5 N	N C	
PASSBAND/CAN BE CASCADED/OA.	A	2 N		
TRIGGERING		1		
IBM PC./IO. BUS/VIA./RAM.	D	6 N	Y C	
WATER VAPOR/AIR/ZAP/5%/\$50/DEW POINT	DA	7 Y	C	
TTL./MUX.ING/CAE. TOOLS/FPLA./FPLS/SEQUENCER	D	6 N	Y C	
~\$25/BCD. THUMBWHEEL SWITCHES/SELECTION/DIODES	D	4 Y	Y C	
RAM./APPLICATION CODE/PROGRAM BREAKS/BREAKPOINT	D	9 N	Y C	
MICROCOMPUTER/IO./PORT/LATCH/LEVEL SHIFTERS/DATA	DA	7 N	Y C	
IO./WRITE MODE/+12V/INTERFACE/FAMOS. TRANSISTOR	DA	8 N	Y C	
RECEIVING/TRANSMITTING/GROUND/TV./COAX TR. RELAY	A	4 N	N C	
CHIP CAPACITORS/NF. OF <0.6DB	A	1 N		
TEST/MONITOR PROGRAM/8-BIT DATA/IO./ADDRESS/ASCII.	D	4 N	Y C	
EMULATION POD/SOCKET/CLOCK GENERATOR/CRYSTAL	D	3 N	N C	
TRIGGER ADDRESS/DECODING/BLANKING/SWITCHES/IO.	D	1 N	N	
UP./RAM./ROM./IO./ADDRESS/MEAN-TIME-TO-FAILURE	DA	9 N	C	
ARMADILLO/ENR 1020/NMI.S/EPROM./RESET CCT/MOTORS	DA	9 N	Y C	42
PRINTED WIRING BOARDS (PWB'S)/MICROCOMPUTER/ATE.	D	2 N	N C	
PROM./ADDRESS DECODER/DRAM./CAE.	D	8 N	C	
EPROM./SRAM./PRIORITY-ENCODER/DMA. CONTROLLER	D	5 N	N C	
KEYBOARD/INPUT PORT/OUTPUT/KEY-PAD	D	3 N	C	
DECODER/TIMER/DATA BUS INVERTER/DOS.	D	2 N		
UP./BIOS. EPROM./COUNTERS-TIMERS/KEYBOARD/RAM.	DA	7 N	N	AJ
MULTIBUS/MMU/TIMER/ARITHMETIC PROCESSING UNIT/PIT.	D	5 N	N C	
ATE./EXPERIMENT/MEMORY-MAPPED/NAND/IDENTIFICATION	D	7 N	Y	
ASM (ALGORITHM STATE MACHINE)/PROM./LATCH/4MHZ	D	1 N	N	
START/STOP VOLTAGE/ADJUSTABLE SPEED/RUN	A	4 N	C	
SHUT-DOWN/BATTERY COMPARATOR/PS./CURRENT LIMITING	A	2 N	N	94
ARBITER/TIMING/CONTROL/REFRESH RATE	D	5		
THERMAL FUSE/HEATSINK/SUBSONIC FILTER/LOUDSPEAKERS	A	6 Y	N	
3 INPUTS: RF., DIGITAL & COMPARISON/PREAMP./GATING	DA	3 N	N	
ANALOG SHIFT REGISTER/VARIABLE VIDEO	AD	4 N		
TVRO./SATELLITE RECEIVERS/LINE AMP./RF./MICROWAVE	A	2 N	N	
LOGIC/TRANSFORMER/NMR./PLATE VOLTAGE/2000	AD	4 N	C	
DEMAND-PAGED/VIRTUAL MEMORY/ATC	D	8 N	C	
COMPARATOR/HYSTERESIS/FREEWHEEL DIODE/TEMPERATURA	A	1 N	N C	
CMOS. SRAM./LED. READOUT/STANDBY	D	4 Y		
SIMPLICITY/60KHZ/ON-RESISTANCE/EFFICIENCY IS 81%	AD	2 N	N C	
DIFFERENTIAL DELAY DETECTOR DEMODULATION	A	1 N		
MEASURE VOLTAGE/CURRENT/RESISTANCE/MORE	AD	4 N	N C	

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HI-FI/AUDIO/HEAT SINKS/MOTORS/ACTUATORS	A	2 N	C	
EXCITER/RTTY./TRANSCIVERS/RF./BOOST/SIGNAL/OUTPUT	A	6 N	N	
ARRHENIUS/FLOW REACTOR/TEMPERATURE/DATA	AD	7 N	C	42
RAD-HARD/IONIZING RADIATION/THRESHOLDS/DRIVE/DELAY	D	3 N	N C	
TRIANGLE WAVEFORM/PULSE-WIDTH-HEIGHT MODULATION	A	1 N	N C	
PROGRAMMING VOLTAGE/ADDRESS/TIMING/CONTROLLER/NANDA		9 N	Y C	
ECL./TTL./DSP./DIGITAL STORAGE OSCILLOSCOPES/ADC.	DA	6 N	N C	
INSOLATION METER/PYRANOMETER/BCD. COUNTERS	DA	3 N	N C	
GROUNDING/Z-OUT, COMMON MODE, INFINITE/LOAD/GAIN	A	1 N	N	
SPICE SIMULATORS/BJT./50OHM/TRANSMISSION LINE/RF.	A	9 N	Y	11
IMD./BNC/COAXIAL LINE/HARMONIC FILTER	A	4 N		
INDEPENDENT OF LINE VARIATIONS/ANGLE/OPTOCOUPLER	AD	1 N	N C	
CMOS. MDAC.S/ERROR/TEMPERATURE/STABILITY/DRIFT	A	2 N	N C	
1MW/PHASE NOISE OF -80DBC-HZ AT A 100HZ OFFSET	A	2 N	N C	
VCO./CRYSTAL/TTL./STABILITY/2%/LINEARITY	AD	2 N		
COUNTER/PRESETTABLE MEMORY/FREQUENCY CHANGE/BEATA		4 N	N C	
HIGH TRANSCONDUCTANCE/AT 100MHZ/60DB OF AGC. RANGE	A	1 N	N C	
RADIO/LO./IF./PROPAGATION/NARROW-BAND/MULTIPATH	AD	8 N	N	
POLARITY PROTECTION/VOLTAGE REGULATION/PUSH-PULL	AD	6 Y	N	AJ
20DB NOISE REDUCTION		6		
TRANSMITTING DOUBINARY CODES/DIGITAL DATA/CARRIER	AD	8 N	N	11
CLOCK/SAWTOOTH/OA./BIPOLAR TRANSISTOR/PULSE TRAIN	AD	2 N	N C	
VOLTAGE/CURRENT CONTROL/CURRENT LIMIT/PROTECTION	A	5 N	N	
BATTERY/PS. CONDITIONING CCT ELIMINATES SPIKES	AD	3 Y	N C	
VERY LOW NOISE/DRIFT/IMPEDANCE MATCHING	A	6 N	C	
ADC./JOYSTICK/THERMISTOR/PHOTOCELL/MOTOR GENERATOF A		9 N	Y C	
80W AUDIO AMP./MOTOR CONTROL		8	C	
CRYSTAL-CONTROLLED/PHASE-CONTINUOUS	AD	6 N	C	
SERIAL COMMUNICATIONS INTERFACE/ORIGINATE/ANSWER	DA	4 N	N C	
GLIDER TRIGGERS/IR. LED./PULSE/COUNTER-TIMER/TAPE	A	3 Y	N	
COMPRESSION AMP./AUDIO MIXER/NONINVERTING/FOLLOWER A		6 N	N	
GENERATING A RAMP/100NS PULSE TRAIN/OA.S/PS./ESR.	DA	5 N	N C	
VOLTAGE COMPARATORS/GOOD ACCURACY & PRECISION/BCDDA		3 N	N C	
JFET./ECL./PLL. IF./1296MHZ-10GHZ/DOWNCONVERTER	AD	9 Y	N	
VHF./FCC RULINGS/WIDE-OPEN/LOGICAL		5		
VIDEO AMP./33CM/SATELLITE RECEIVER/PRE-EMPHASIS	A	2 N	N	
RF. CHOKES/RFC/3 INDUCTORS/NPN/85 TO 106MHZ	A	2 Y	N C	
10W OF DRIVE/AMSAT-OSCAR/SATELLITES	A	4 N	N	
COMPUTER PROGRAM/IMPEDANCE MATCHING		4	C	
SPECTRUM/EYE/VOLTAGE-DIVIDER/SCR./RESISTORS	A	5 Y	N C	
TUNING CONDENSER/10MHZ CRYSTAL/VACUUM-TUBE/RF./RIG	A	4 N	N	
LINEAR GAIN-CONTROL AMP./UNITY-GAIN INVERTING AMP.	A	1 N	N C	
COMPLEX IMPEDANCE/LINE DIMENSIONS/HF./OPEN-SHORT	A	8 Y	Y	53/54
SAMPLE/FIELD GRADIENT DRIVERS/SCR./RECEIVER/PULSE	AD	9 N	N C	E
50OHM COAX/COUNTER/TIME DIGITIZER/11C01/11C70	A	7 N	N C	
LC. IMPEDANCE MATCHING/LOAD/REFLECTION/GAIN/VSWR.	A	7 N	Y	54
CURRENT/PHASE/SINUSOIDAL/DISTORTION/2ND HARMONIC	A	5 N	N C	
APPLICATION-SPECIFIC/MOC8101-MOC8104/NOISE PICKUP	A	3 N	N C	
ALLOPHONES/ROM./LINEAR PREDICTIVE CODING/PHONEMES	DA	9 Y	Y	

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OPTICAL PICKUP SYSTEM/PHOTORESISTIVE DIOD & FET.	A	3	N	N	C	28
DX/BEVERAGE/LOW-NOISE RECEIVING	A	2	N			
ENABLE/NONSATURATING DIFFERENTIAL AMP.	AD	1	N	N	C	
FREQUENCY/OA./TRANSMITTED/GAIN-BW. PRODUCT/TC.	A	1	N	N	C	
ECL.-RAM./CAMAC/DIGITAL/TIME/MINICOMPUTER	AD	4	N		C	
PSPWM./OFF-LINE/LOAD/INDUCTOR CURRENTS/FULL-BRIDGE	A	9	N	N	C	
WIDE RANGE OF SUPPLY VOLTAGES/DIE/FEEDBACK/CORE	A	5	Y	N		
DELIVERY ARM/PLATTER/MAGNET/TEST TUBES/12V/400MA	DA	2	N	N	C	E
CASCADE/BALANCED/DIFFERENTIAL INPUT/GAIN/FEEDBACK	A	9	N	N		25
INPUT DRIVE/3W/2 TRANSISTORS		2			C	
EFFICIENT/SOLID-STATE/BIPOLARS	A	7			C	
CRITICAL COUPLING/DISPLACEMENT TOLERANCE/IMPLANT	A	9	N	N	C	
LOSSES/REGULATION/TRANSISTOR/BUCK-BOOST/MOSFET.	AD	4	N	N	C	
TTL. INPUT/COIL/PULSE PROGRAMMER	AD	5	N		C	
DECODER/SEQUENCER/DIGIT COMPARATOR/AUDIO FILTERING	DA	1	N	N	C	
LIQUID NITROGEN TEMPERATURE/RESONANCE CCT	A	6	N	N		
PI-COUPLER OUTPUT/SSB./VALVES	A	4	N			
3-TERMINAL REGULATORS/BALLAST RESISTORS/SHORT CCTS	A	8	N	N	C	
SSB./TTY./INEXPENSIVE/DRIVE POWER/50W		3			C	
STRIP LINE/PCB./12V REGULATOR/L-NETWORK/220-225MHZ	A	3	Y	N	C	
DIRECTLY CONNECTED/220V AC. MAINS/'EASY TO DRIVE'	A	4	N	N		
VMOSFET.S/MILITARY COMMUNICATIONS BAND/FEEDBACK	A	6	N	N		
ZERO CURRENT/ZERO VOLTAGE COMMUTATION/ZCC/ZVC	A	3	N	N	C	
T1-E1 TRANSMISSION/JITTER-FREE/VCO./EDGE-TRIGGERED	DA	2	N	N	C	
INTERFACE/UART./HANSHAKING LINES/PARITY/STOP BIT	DA	2	N	N	C	
DRIVER TRANSISTORS/COUNTER/WINDINGS/CARRIAGE/LINES	DA	4	N	Y	C	
PL/M-80 PROGRAM/COMPUTER/REGISTER/GATES	D	1	N		C	
BANK SWITCHING/SIDEWAY RAM./MACHINE OS./BASIC	A	3	Y	Y		
CPU./SC84/EPROM.-ON-BOARD/MEMORY/TIMERS	D	5	N		C	
CRT. CONTROLLER/INTERFACE/MPU./PROCESSOR	D	9	N		C	
PS./VECTORED INTERRUPT/PAPER-TAPE READER	DA	7	N	Y	C	
WIRELESS HOME AUTOMATION/POWER-LINE INTERFACE	D	4	N	N	C	
VOLTAGE INPUT AMP./DETECTOR/RECIPROCAL GENERATOR	AD	3	N	N	C	
NON-LSI. CHIP PARALLEL INTERFACING	D	8			C	
METER/13V REFERENCE ZENER/DIODE/PASS TRANSISTOR	A	4	Y	N		
UP./BUS LINE/DECODER/RAM./UV. LIGHT	DA	5	N	N		
UC/CPU./RAM./CLOCK-TIMER/COMPUTER/BASIC/TTL.	DA	3	N	Y	C	
2KBYTES/ADDRESS/SIMPLE TURBO C PROGRAM CONTROL	D	2	N	Y	C	
TELECOMM/-48V/MOSFET./ISOLATION/500V/FLYBACK	AD	7	N	N	C	
FOR LARGE STEP-UP RATIOS/REGULATION/TRANSISTOR	AD	1	N	N	C	
WIDE RANGE OF VOLTAGES/VERY HIGH CURRENT	A	6	N			
68000/CPU./CODEC-FILTER/S TRANSCEIVER/TIMER/RS-232	DA	8	N	N	C	
30HZ-20KHZ/DC.-8MHZ/ELIMINATE/MESS/WIRES/SIGNALS	AD	7	Y	N	C	
LOW INSERTION LOSS/VHF./IMPEDANCE/IO./CAPACITANCE	A	6	Y	N		
Z-SYSTEM/OS./256K-BYTE/RAM./32K-BYTE EPROM.	DA	9	N	N	C	
GATE ARRAY/ADC./COUNTER/WINDOWS ENVIRONMENT/240MHZ	DA	5	N	N	C	
BUFFER AMP./PLL.S/REFERENCE/DIODE DETECTOR/ECL.	A	9	Y	N		E
WIEN FILTER/STEM/EELS/LENS/OA./ISOLATORS/DAC.S	A	6	N	N	C	
POWER SCALES/TRANSMITTERS/2-30MHZ	A	3				

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CABLE DELAY/TELESCOPE/SILICON DETECTORS/FRAMM	A	9	N	N	C	61
MICROCOMPUTER/PROCESSORS/CS./TIMING/TTL./IO. PORT	D	8	N	N	C	
VOLTAGE REFERENCE/COMPARATOR/PROTECTION DIODES	A	1	N	N	C	
DATA/RTTY./COMPUTER/UP.	D	2	Y			
IMAGE STORAGE/WINDOW/INSTRUCTIONS/MEMORY	D	5	N			
WEIGHING/DATA/USER PORT/PROGRAM/TTL.	D	3	N		C	42
CPU./RESET/EXPANSION BUS/X BUS/NUMERICS/HOLD/HLDA	DA	9	N	N		
UART./SERIAL/PARALLEL/CENTRONICS	DA	1				
VICE VERSA/UART./LINK/SERIAL DATA	DA	9			C	42
+12V/NEGATIVE VOLTAGE/AUTOMOTIVE/SHUNT REGULATOR	A	3	N	N		46
SERIAL DATA COMMUNICATIONS/LINE DRIVERS/LEVELS	DA	3	N	N		E
INSERTION CARD/SDA (SYSTEM DATA)/SCL/CLOCK/BUS	D	5	Y	N		
DOS./DEVICE DRIVER/REGISTER/VOLTAGE REFERENCE	DA	5	Y	Y		
FAHRENHEIT TEMPERATURE SENSOR/4-CHANNEL, 8-BIT	DA	8	N	Y		
COMPARE PHASE OR FREQUENCY/GILBERT-CELL/HF./GAINS	AD	4	N	N	C	
COUNTER OR FREQUENCY METER/DIVISION/DIVIDE BY 64	DA	4	Y	N	C	45
TVC-12GA/DOWNCONVERTER/VIDEO & AUDIO/DISCRIMINATOR	AD	3	N	N		
TTL./CONNECTOR/BAUDOT/ASCII. CODES/UART.	AD	3	N			
SYSTEM BUS/UART./TELEPHONE LINE/BELL 212A/PC.S	AD	4	N	N	C	
DCE/DTE/PATCH/DETECTOR/PCB. JUMPERS/LED.S/DIODES	AD	4	N	N		
GRID/VARIATIONS/0.2V/NATIONAL SEMICONDUCTOR	A	1	N	N	C	
MIXER/2M/LO./MULTIPLIER/IF. AMP.	A	6	N			
FET. PREAMP./INDICATOR/SPEAKER	A	5	N			
RF. TRANSISTOR/PA/KEYING CCT/RIG/30M/20M/NO-RELAY	A	2	Y	N	C	
TRANSISTOR/IO. IMPEDANCES/SOURCE/LOAD/STRIP LENGTH	A	3	N	N		
NUMERICALLY CONTROLLED MODULATED OSCILLATORS/20MH AD	AD	2	N	N	C	
MMIC. OUTPUT AMP. MODULE/PHANTOM ZERO COMPENSATIONA	AD	3	N	N	C	
HOST/COAXIAL OR FIBER-OPTIC CABLE/COMMUNICATIONS	D	6	N	N	C	
DIVIDE-BY-32/RAM./RTC.S/976US PERIOD/TIMEBASE	D	7	N	Y		
NMR./FEEDBACK/ERROR AMP./DRIVER/LPF.S/-20V IN/	A	2	N	N	C	39
ISOLATION/COMPUTER/PERIPHERAL	DA	1				
SERIAL/PARALLEL		1			C	
GENERAL INSTRUMENTS/BAUD RATES/300/4800/DIVIDER	DA	2	Y	N		
NUMBER/DATA/STOP BITS/TRANSMISSION-RECEPTION/UART.	DA	4	Y	Y		
UART./PIO/Z80 UP./TIMEX/1000	DA	9	Y		C	42
GROUNDING GRID/TRANSVERSELY EXCITED/DYE-LASER/PUMP	A	6	N	N	C	
PROGRAMMABLE INTERFACE ADAPTER/RAM./DEBUG MONITORA	AD	3	N	N	C	
MICROSYSTEMS/BUS STANDARDS/TTL./PAL./IEEE 796/DATA	D	8	N	N	C	
KERNEL TEST/DIP. CLIP/DEBUGGER/IBM PC./DEVELOPMENT	D	5	N	Y		
SELF-EXCITED OSCILLATOR/ANTENNA/MODULATOR/SW.	A	4	N	N		
AVOID DEBUGGING HEADACHES/UART.	D	9			C	
CCITT./CMOS./PC.S/RS-232-C	DA	4	N		C	
80M/40M/30M/AMP./BATTERIES/REGENERATION/PLATE	A	5	N	N		
NAND SCHMITT TRIGGER/GATE/INPUT SENSITIVITY <100MV	AD	2	Y	N		AJ
TRANSFORMER/VHF./GOOD NF./UHF.	A	8	N			
RECTIFIER PLATES/CHOKE/PICKUP/MICROPHONE TRANSF.	A	1	N	N		
ASTABLE-MULTIVIBRATOR (FREE-RUNNING OSCILLATOR)	DA	3	Y	N	C	
MONO/FADERS/GYRATOR/AUDIO SPECTRUM	A	8	Y			
PRECISE STABLE/THERMISTOR/UNITY-GAIN BUFFER/DRIVER	A	3	N	N	C	

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HIGH-SPEED/REVERSING THE CONNECTIONS	A	1 N	C	
BENCH/3A/POWER-PACK/QRP/FULL-WAVE BRIDGE/HEATSINK	A	2 N	N C	3
PULSE SHAPE DISCRIMINATOR (PSD)/X-RAY/TDC./GSO	AD	5 N	N C	4
FILTERING & TR. CCT/RFI. SUPPRESSION/BIAS	A	4 N		
200 TO 300W OF HEAT/INPUT IMPEDANCE/MATCHING/ALC	A	4 N	N C	E
DIVIDER/RF. AMP./MMIC./PREAMP.	AD	6 Y		
VCO./BO/LO./TRANSISTORS/TANK CCT/VARICAP DIODES	A	4 N	N	
CONTROLLER/APPLE/SOFTWARE/ADDRESS	DA	9 N		
1US UP TO 65MS/ICR./C64 COMMODORE/LASER/SEQUENCE	D	2 N	N C	
DC./SUMMER AMP./VOLTAGE FOLLOWER/DARLINGTON PAIR	A	4 N	N C	
INTERFACE/APU/DATA/MATHEMATICAL/MULTIPLICATION	D	2 N	Y C	
PICTURES/DIAGRAMS/COMMODORE/COMPUTERS	DA	5 N	C	42
CMOS./RS232 SERIAL PORT/LEVEL SHIFTERS/HEXADECIMAL	DA	7 N	Y C	
ADDRESS-DATA BUS/COMPUTERS/EMULATION	D	5 N		
EXCITER/LINK COUPLED/PENDERGAST/VARIABLE CRYSTAL	A	3 N	N	
BLISSYMBOLS/UP-DOWN COUNTER/DECODER/WORD CODES	DA	9 N	Y C	
MEMORY SAVER		1	C	
SCR./COIL/SPARK PLUGS/COMPATIBLE WITH/KETTERING	A	7 Y	N C	
RADIO/HI-FI AMP.S/2A3H/AUDIO	A	1 N	N	
RADIO/PLUG-IN COILS/TUNING/ROTARY CONVERTER	A	6 N	N C	
RS-232C PORT/SINGLE-CHIP/UART./REGISTERS/POINTER	DA	9 N	N C	
CMOS. LOGIC/AMP./DRIVE VOLTAGE	DA	3 N	C	
0.1DEG RESOLUTION/TEMPERATURE SENSOR	AD	5 N		
INEXPENSIVE/SAVE \$85/RECEIVER/DRIVER/OR	D	1 N	C	
RF./OUTPUT COMPENSATION/FET. BUFFER/TTL./FILTER	AD	5 N	N C	
AUDIBLE ALERT/AUTOMATIC ON/OFF/BEEP	DA	4 Y		
ZERO BEAT/TTL./IF. STAGES/RF./TRIMMER	D	2 Y		
CURRENT-MIRROR/VOLTAGE WAVEFORM	AD	2		
INJECT CURRENT THAT SLEWS THE PHASE RELATIONSHIP	A	2 N	N C	
ROTOR/AMATEUR RADIO/TORQUE/LOAD/PRESET AMP.	A	3 N	N	
OSCILLATOR-TIMER/7-SEGMENT DISPLAY/SIMPLE/PAST 9	DA	2 N	N C	
TOROID INDUCTOR/FLYBACK/PS./VOLTAGE/COLLECTOR	A	1 N	N C	
TEST/CHARGING TIME/RESISTORS/VOLTAGE/CURRENT	AD	4 Y	Y	
MOD./RECEIVERS/RF. & IF. AMP.S/AUDIO/NOISE BLANKER	DA	7 N	N	
VCO./DECADE COUNTER/LV. AUDIO-POWER AMP./1-SHOT	AD	4 N	N C	
A-TO-D SUBSYSTEM/HANDSHAKES/TRANSCEIVERS/MUX.	DA	4 N	Y C	
AIR-LIFT PUMPS/SIREN/110V AC. OR 12V DC./BATTERY	A	2 N	N	
CADMIUM SULPHIDE PHOTOCELL/TRIGGER RELAY DRIVER	A	3 N	N C	
TV./VCR./BSR/COMMANDS/REMOTE CONTROL/LED. DRIVER	DA	5 N	N	
FLYBACK REGULATOR/STEP-DOWN/STEP-UP CONVERTER	AD	9 N	N	
PARALLEL PROCESSING/DSP./BIT-SLICE/PIPELINING/MUX.	D	8 N	N C	
FISH/VCO./DAC./CONTINUOUS TRANSMISSION FM./DFT'S	AD	5 N	N C	
RANGE/AC./DC./OHMS/CURRENT/LSI./VOLTAGES	AD	6 Y	N	
RATIO/EMITTER RESISTOR/METER/CAPACITORS	A	8 Y		
DIGITAL/INPUT FET.S/OA./IA./CMOS.	AD	1 N	N C	
LM335H PROBE/INTERSIL/~\$100/LINEAR/DMM./SWITCH	AD	1 N	N C	25
ADC./STRAIN GAUGE AMP.	AD	4 Y		
PLL./SMT./MICROSTRIP/RF./DEVIATES 10KHZ/AUDIO	A	2 N	N	
DUAL-SLOPE CONVERSION/MAXIM/4 DC. VOLTAGE RANGES	AD	5 Y	N C	

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COUNTER-DRIVER/LED./CONSTANT CHARGING CURRENT	DA	2	N	N	C	E
DOUBLE SIDEBAND/VARACTORS/QUADRADYNE DETECTOR	A	4	N	N		
TONES/MICROPHONE/ACOUSTIC COUPLER/DATA	AD	4	N		C	
EPROM./MIL-STD-1553/MILITARY EQUIPMENT/RS-232C	DA	5	N	Y	C	
PDP 1103 DATA LOGGING/CLAM/ORIFICE PLATE/AIR FLOW	A	7	N	N		
PS.	AD	3			C	42
VERY TOLERANT OF MOD.	A	1			C	
SNR./DOWNLINK/RECEIVER/MITSUBISHI/SHIELD/RELAYS	A	6	N	N		
INTEGRATORS/Q/11/2 POLE/SINEWAVE/DIODES/AMP./THD.	A	2	N	N	C	
MEASUREMENT		2			C	
MIKE/OSCILLOSCOPE/ROOM ACOUSTICS		8				
DRIVE/HEADPHONES/SPEAKER/GUNN DIODE/902MHZ BAND	A	2	Y	N		
RC./LOUDNESS/SOUND LEVELS/BUZZERS/IMPEDANCE	AD	6	N	N	C	
MMICAD/TEMPERATURE SENSITIVITY/COMPONENT TOLERANCE	A	6	N	N	C	
TANK CCT/CRYSTAL/OSCILLATOR/3-TRANSISTOR/TR.	A	5	N	N		45
RECEIVERS/MEDIUM-WAVE/STATIONS/SW.-BC.	A	3	N	Y	C	
FET./DIODE/IF. AMP./GATE	A	2	N			
BUFFER/IF. TRANSFORMER/VARICAP/TRANSCEIVER/RIT	A	3	N	N	C	
VXO OR CRYSTAL CONTROL/KEYING TRANSISTOR/RF./220MA	A	2	Y	N	C	
SAFE COMPUTER PROGRAM/RESONANT RLC./SWITCH/RF.	A	5	N	N	C	
PRECISION TUNING/PTO/TANK CCT/COIL/CORE/160M	A	3	N	N		
STORAGE OSCILLOSCOPE/AIR GAP/MAGNETIZATION CURVE	A	5	N	N	C	
WEIN BRIDGE OSCILLATOR/OA./ZENER DIODES/TEST CCT	A	3	N	N		3
SIMPLICITY/BREADBOARD/DC./MOLAR ABSORPTIVITY	A	5	N	N	C	
MATCHING/STABILITY/IMPEDANCES/LOW NOISE/VSWR.S	A	4	N	N	C	
HARMONICS/TRANSMITTER/HALF-WAVE FILTER/COIL	A	2	Y	N		
FREQUENCY COUNTER/TOUCHSTONE/FREQUENCY/PHASE/PLCA		3	N	Y		
PC./INTERFACE/CPU./CRT. CONTROLLER/IRQ/USER PORT	DA	3	N	N	C	
4-BIT DECODER/MICROINSTRUCTIONS/RAM./DATA INPUT	AD	5	N	N		
8-BIT TRI-STATE BUFFER/LATCH/INTERFACE/RAS/CAS	D	3	N	N		3
TRANSMIT/FILTER/PHASE-LOCKED BRICK OSCILLATORS	A	2	Y	N	C	
BUFFER/TTLDM 75/LOGIC/HOME COMPUTERS	D	2	N			
SOCKET/SWTPC/SHELL/CLOCK/BOOT SHORTER	D	2	N			
ASYNCHRONOUS BUS/RAM./EPROM./INTERRUPT/ADDRESS MAFD		8	N	N	C	
TIMES/SAVINGS/BUCKS/SPOUSE/WHIZ		2				
ELECTRODES/WINDOW/CELL POTENTIAL/SOLUTION/FET./OA.	AD	6	N	N	C	
MOS./MPU./UP./CYCLE STEAL/STRETCH/RAS/CAS STROBES	D	6	N	N	C	
STRAIN GAUGE BRIDGE/SENSOR/AMP./2-WIRE/REMOTE	A	7	N	N		
MEMORY IC PCB./CONNECTOR/SAVE/\$100	D	4	N		C	
PC. OR CPU. BUS/MONITOR COMPOSITE SYNC	D	6	N		C	
SIGNAL STRENGTH/SQUELCH DETECTOR/RECTIFIED NOISE	AD	2	N	N	C	
RF./IF./MEASURE/WAVEFORM/VIEW/TEST BENCH/BOOSTER	A	2	N	N		
SQUID. DETECTOR/LPF./CCC/OA./FET./FEEDBACK/RATIO	AD	4	N	N	C	
PIN DIODE/RF. SIGNAL STRENGTH INDICATOR/DIVIDER	AD	8	Y	N	C	
TVG-12A FREE RUNNING OSCILLATOR/THICK-FILM/23CM	A	6	Y	N		
NETWORKS/SINGLE LINE/PERIPHERALS	D	9			C	
3 BIPOLAR TRANSISTORS/PIERCE OSCILLATOR	A	3	Y			
22.5 SAMPLES-SEC./CONTINUITY BUZZER/UP. INTERFACE	AD	8	N	Y	C	
INTERFACING/DATA/CONTROL/STATUS BUS/BUFFER-LATCH	D	9	N	N	C	

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DMA. CONTROLLER/DOT TIMING/INTERFACE/BUS	D	9 N	C	
NON-VOLATILITY/LONG-TERM DATA RETENTION/STORAGE	DA	5 N	Y C	
POWER UP/2ND HALF OF HANDSHAKE	D	4		
SWITCHING REGULATOR/D-FF./PLCC SMT./PC./EPROM.	DA	9 N	Y C	42
ROM./PROM./8-BIT/RST INTERRUPTS/256X8-BIT RAM./SID	D	3 N	N C	
MEMORY ADDRESSES/INTERRUPT/RESET/RAM./Z80	D	3 N	C	
Z80 8-BIT UP./BASIC/AUTOMATIC END-POINT SEEKING	D	5 N	N	64
LATCH/900MW/THIN FILM HYBRIDS/OA.	DA	1 N	C	
SLOT TIMES/VOICE/DATA/PHONE NUMBERS/MONITOR CALLS	D	5 N	N C	
MILLER TECHNOLOGIES/EPROM.S/AM./COMPILER	DA	3 N	C	
MODULAR DESIGN/ATTENUATOR		3		
VOLTAGE FOLLOWER/INTERPROCESSOR/APPLE/PC.	AD	9 N	C	42
SH. AMP./DEGLITCHED	AD	6 N	C	
RF. AMMETER/COAXIAL/UNBALANCED LINE/BUILT-IN BALUN	A	2 N	N	
CP-M/Z80/EXPLORER MICROCOMPUTER/TIMING	D	1 N	C	
RAM./ROM./IO. DEVICE ADDRESSING/MEMORY	D	8 N	C	
DEBUGGING/IBM PC./EPROM./RAM./ROBOT ARM/CONTROL	D	9 N	Y C	
CPU.-ISOLATED/PROGRAMMED IO./MEMORY-MAPPED	D	2 N	N C	
NON-SATURATED/RELAXATION OSCILLATORS/>50MHZ/PS.	DA	9 N	N C	
FERRITE LOOPSTICK/TV. RECEIVER/VCO./PHASE DETECTOR	DA	4 Y	N C	
TRANSVERTERS/TUNE-UP	A	4		
NF./SERIES-PASS TRANSISTOR/SAFETY CCT	A	4 Y	N	
BUFFER/FF.S/PIPELINE REGISTER/INTEGRATOR	AD	3 N	N C	28
HARMONIC ENERGY/48MHZ/DIODE CURRENT	A	1 N		
DIODES/FILTER CAPACITOR/6.3VAC./PIV OF 50V/CHARGES	A	1 N	N C	
SLOW AGC./CASCADE XTAL FILTERS/JACK/REJECTION/CW.	A	2 N	N	
	A	1	C	
SUPER-REGENERATIVE DETECTOR/LOCAL	A	3		
WEFAX/WEATHER FACSIMILE/TVRO. DISH/SWR./MICROSTRIP	A	7 Y	N	
ALC THREHOLD MOD./RELATIVE POWER METER CCT MOD.	A	1 N	N C	
EIMAC/GLASS CHIMNEY/DIODE BOARDS	A	4		
BOB-IN-CUP/GUARD RING/FLUID-AIR/AMP./TEMPERATURE	A	5 N	N C	
CPU./DEVELOPMENT/IO./9600 BAUD/8MHZ/EPROM./RAM.	D	5 Y	N	
TWIN-T/BREAK-IN DELAY/CURTIS KEYS/VXO	AD	5 N		
LF./DIVIDER/SH./FET.	AD	1 N	C	
SHUTTER SPEED/DELAY TIMES/TRIGGER/CAMERA	D	4 Y		
PULSES/BISTABLE/BINARY/FREQUENCY	D	1 N		
		2	C	
ASTABLE/BISTABLE		1		
EXERCISE/HEART RATE/MICROCOMPUTER/STIMULATOR/ECG.	AD	5 N	N C	
TALK-BACK/TOTAL PRIVACY/HANDSET/MICROPHONE/SPEAKER	A	6 N	N C	
TIME-LINEAR/RC./MHZ RANGE/VCO./LEVEL COMPARATOR	DA	4 N	N C	
VOLTAGE REFERENCE/COMPARATOR/OUTAGE WARNING/AUDI	AD	3 N	N C	
CMOS./IMPEDANCE MEASUREMENT/BREASTS/RESISTIVITY	D	6 N	N C	
TRIMMER/POTENTIOMETER/CALIBRATE/9V BATTERY	D	1 N	N C	
STATE-MACHINE/MULTIPROCESSING/HOLD-ACKNOWLEDGE	D	3 N	Y C	
VLSI./ASIC./JOINT TEST ACTION GROUP (JTAG)/PATTERN	D	6 N	N	
PROTECTS/OVERLOAD/SHORT CCT/POLYCARBONATE FOILS	AD	3 N	N C	61
OA.S/SINE-WAVES/A & B INPUTS/INTEGRATOR NETWORK	AD	3 Y	N	

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PIXELS/CPU./DMA./CRT./DRAM./512X512X4/REFRESH RATE	D	8 N	N	C	
INPUT MEMORY/OA.	AD	2 N		C	
AMATEUR RADIO/CODE/CW./JACK/RIG/CAMPING/PADDLES	A	2 N	N	C	
TOUCHTONE^TM/KEYPAD/LEVEL/TRANSMITTER/LOGGING TAPEDA		9 N	N		
TRANSFORMER WELDING/MICROSYSTEMS/UP./150A/REACTOR	A	5 N	N	C	
MODE-LOCKED LASER/HIGH-SENSITIVITY IMAGE-ORTHICON	AD	6 N	N		
MPU./SH./2 STEPPER MOTORS/DISH/COMMUNICATIONS	DA	5 N	N	C	42
DISK-CONTROLLER/IBM PC./BUS/MICROCOMPUTER/INTEL	D	2 N	N	C	
BALANCED MODULATOR/CRYSTAL OSCILLATOR	A	4 N			
FEW WPM TO 30+ WPM/AMATEUR RADIO/IF. FILTERS/SWR.S	A	5 N	N		
COIL/FM. BAND/RADIO RECEIVER/FM./DIAPHRAGM/CORE	A	7 N	N	C	42
BATTERY-BACKED/DC.-TO-DC. CONVERTER/8-BIT/MEMORY	DA	6 N	N		
THERMISTOR PROBE/VFC./+-1.1%/RESOLUTION/0.1DEG C	A	6 N	N	C	91
HCSII IR.-LINK/512 CODES/9-BIT CODE/FET. DRIVER	DA	9 N	N		
PHASE-SHIFTER/2 GATES/SATELLITE TDMA	D	2 N		C	
ANALOGUE SWITCH/TIMER/FF./PRESSURE/IMPULSE	AD	4 N	N	C	
PHOTON DETECTION/HIGH-ENERGY PHYSICS/POSITION	A	8 N	N	C	39/61
CURTIS/PROJECT/PLEASURE/EFFICIENCY	A	5			
75OHM/COMPOSITE VIDEO/PIXEL/256 BY 244/FLASH ADC.	DA	9 N	N	C	
COMPUTER/IMAGING/SRAM./FLASH ADC./"FIELD" GRABBER	DA	9 N	N	C	
CODED/REMOTE CONTROL/LIGHTING/KEYPAD/AND/NOR/LOGIC	AD	5 Y	N	C	
STROBING/FREQUENCY/74393/74157/REFRESH ADDRESSES	D	5 N	N	C	
DIVIDER/COW/RECEPTION COIL/DIVIDER/RADIO RECEIVER	AD	9 N	N	C	91
SENSOR/AIR FLOW/SILICA GEL/0.3%/WATER/EVAPORATION	AD	3 N	N	C	
LH0042/OA./MERCURY F-H TUBE/RC./SAWTOOTH/QUANTUM	A	4 N	N		
DVM./SAMPLING/CLOCK PULSE/RELIABLE/PEAK CURRENTS	AD	1 N	N	C	
ZCD./EPROM./RAM./TRIGGER/AC. POWER/INTENSITY	AD	7 N	N		AY
DATA LINK BETWEEN 2 ASYNCHRONOUS SYSTEMS/LOGIC	D	9 N	N	C	
FEEDBACK/8-BIT/IO./CSI/FUNCTION GENERATOR/COUNTER	DA	9 N	N	C	
80HM SPEAKER/INVERTING AMP./BUFFERS/CHIME EFFECT	D	2 N	N	C	E
CORRELATION/MULTIPLYING/ADDING/EPROM./PARALLEL	AD	7 N	N	C	
ONE IC/EASY TO BUILD/DELAY		1		C	
LED. BLINKING/QUAD NOR GATE/SCR./RESET/<\$120.00	AD	6 Y	N		
DATA ACQUISITION/RETICON/COMPUTER/SELF-SCANNED	AD	9 N	N	C	
BATTERY CONDITION/FIFO. MEMORY/STORE/PRELOADING	DA	5 N	N	C	
IMPLANTED/HF./OA./SWITCHING TRANSISTOR/LINK/~0.5MI	AD	8 N	N	C	42
PEAK-SENSING ADC./VERY FAST BUS (VFB)/DETECTORS	AD	8 N	N	C	
SSB./PLL./LO./DX/10GHZ/VOLTAGE TUNED	AD	9 N	N		
PAL. EQUATIONS/ELIMINATE WAIT STATES	D	5 N		C	
CROSSOVERS/CATHODE FOLLOWER/CARBON RESISTORS/AMPA		3 N	N		
TUBE/OPTICAL DETECTOR/PC./UP./PHOTOTRANSISTOR/LED.	D	7 N	N	C	
TIMERS, INTERRUPT CONTROLLER, DMA. CONTROLLER/RTC.	DA	3 N	N	C	
CPU./1000000-TRANSISTOR/FLOATING-POINT, & GRAPHICS	D	9 N	N	C	44
CMOS.		4			
PHASE MODULATION/SSB./PLL. VCO./RECEIVER/AMP.	AD	3 N	N	C	
CMOS./SWITCHES/OA.S/CAPACITOR/FET.-INPUT AMP.	A	2 N	N	C	
THERMALLY STIMULATED CURRENT/CDS/THERMOCOUPLE AMFAD		7 N	N	C	
2 ADDRESSABLE OUTPUT PORTS/SWITCHES/DATA	DA	5 Y		C	
ACCELERATION & DECELERATION RATES/WAVEFORM/RELAY	AD	2 N	N	C	

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QUADRATURE/FET. PROBE/ANALYSIS/LITHOGRAPHY/AMP.	A	2 N	N	C	
SCHMITT TRIGGER/HYSTERESIS	AD	3			
		1		C	
FOURFOLD DECOUPLED/IONIZATION CHAMBER/DETECTOR	A	9 N	N	C	
ROLLOFF/LD/SPICE/FLAT FREQUENCY RESPONSE/TO 2.0GHZ	A	4 N	N	C	
REACTANCE/CONTINUOUS COVERAGE FROM 3.5 TO 30MHZ	A	3 N	N		3
DC.-DC. CONVERTER/DPDT. SWITCH/MOSFET.S/COMPARATOR	A	1 N	N	C	
DRIVEN BY A SINUSOIDAL VOLTAGE/1MHZ/5V/DIODE	A	9 N	N	C	
COMPUTER/COUNTER/<\$375.00/1000MOHM/R/F/FEEDBACK	AD	3 N	N	C	
SH./ANALOG MUX./PARALLEL PROCESSING/UP.	AD	8 N	N	C	12
COMPARATOR/D-FF./+-180DEG	AD	4 N		C	
CMOS./INITIALIZE REGISTERS/RAM.S/PROM./PROM./PAL.	D	4 N	N	C	E
STATIC ELECTRICITY/PROGRAMS	AD	1 N		C	
PRECISION REFERENCE/FET.-INPUT/MEASURE, MONITOR	A	3 N	N	C	
INTEGRATORS/INVERTER/WIDE BW./100KHZ	A	5 N	N	C	E
RAIN GAUGE/HUMIDITY/WEFAX PICTURE/VIDEO/GRAPHICS	DA	6 N	N		
GATE/MULTI-METER/150V/HIGH SOURCE RESISTANCE	A	1 N	N		46
SRAM./UC/IO. EXPANDERS/INTER-IC/INTERFACES/8-BIT	DA	5 N	N	C	
FET./VERY LOW NOISE/X-RAY DETECTORS/TELESCOPES	AD	6 N	N	C	
HIGH IMPEDANCE/DC.-COUPLED 1KHZ/1KHZ BANDPASS	A	2 N	N	C	8
Z80 BASED UP./DETECTOR/DAS./MICROCOMPUTER/TRIGGER	AD	9 N	N		12/60
DROOP/INPUT IMPEDANCES/MOSFET.S/2N4393	A	1 N			
COMPUTER/PEAK DETECTOR/LED./MENISCUS SENSOR/TUBE	AD	4 N	N	C	
POSITION/LED.S/LIMITS/STEPPER MOTOR/PULSES/LOGIC	AD	4 N	N	C	
2 DIODES/RESISTORS/REDUCE LOOP GAIN	A	1 N	N	C	
TRANSVERSE-EXCITED ATMOSPHERIC PRESSURE (TEA)	AD	9 N	N	C	
GATE/DRAIN/DAMAGED/ADJUSTABLE-VOLTAGE/JFET.	A	1 N	N	C	
	A	1 N	N		36
	A	1 N	N		
FILTER/SWITCH DEBOUNCER/BCD./FF./~\$200/COMPARATORS	DA	3 N	N	C	
SPECTRUM ANALYSER/GPIB./COMPUTER/TEMPERATURES/LAM	A	6 N	N	C	12
3 PRIMARY COLORS/3 MEMORY PLANES/CRT.	D	8 N		C	
INVERTER/IMPEDANCE-ADMITTANCE/CONDUCTIVITY/MEASURE	AD	9 N	N		25
3-4FT/BATTERY/108 DAYS/BIO MEDICAL/THERMISTOR/TUNER	A	3 N	N	C	28/44
TO >2.5GHZ/DUAL-TRACE SAMPLING/AUTO-CORRELATION	AD	5 N	N	C	
500HM/LARGE PARTICLE DETECTION/SCINTILLATION	AD	4 N	N	C	
BIOS./8514/UP.S/CO-PROCESSOR/CHIPS & TECHNOLOGY	DA	1 N	N		
REGULATOR/TRANSISTOR/TRICKLE/RATES/15MA/150MA/LED.	A	5 Y	N		
IO. PORT/BUS DRIVERS/DECODING/MAGNITUDE COMPARATOR	D	7 Y	Y	C	
POWER TRANSISTOR/HEATER/EASY TO BUILD/BRIDGE/DC.	A	2 N	N	C	
HIGHER DATA RATE/SERIAL-TRANSMISSION/LINK/STREAM	D	1 N	N	C	
FAST REACTION		1		C	
PRESSURE TRANSDUCER/DIFFERENTIAL AMP.S/RAYTHEON	A	2 N	N	C	94
PROGRAMMABLE/DATA-COMMUNICATIONS	D	9 N		C	
EPROM./RAM./FIRING CCTS/SERIAL/PARALLEL INTERFACE	DA	7 N	N	C	
COMPUTER-CONTROLLED DAC./AMP.S/SCALED/HIGH-PASS	A	7 N	N	C	
ACCURATE TO 0.1%/INEXPENSIVE/OUTPUT PULSES/COUNTED	AD	2 N	N	C	
VARIABLE CURRENT SOURCE/OA.	A	7 N	N	C	
UPS./SHARED-MEMORY/LAN. COPROCESSOR/INTERFACE/HLDAD		5 N	N	C	

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BUFFERED/INTEL UP./HORIZONTAL/SYNC-GENERATOR/NTSC.	D	2 N	N	C	
INDUCED EMF./CHARGE PULSE/MAGNETOMETERS/HALL/FET.	A	2 N	N		
POLYCARBONATE/RADON DOSIMETERS/CELLS/LV.	A	3 N	N	C	
256 BY 256 PIXELS/VGA/RS-170/SYNC SEPARATOR/OA.	AD	7 Y	N	C	
SCINTILLATION/DETECTOR/PSD/DATA/ZERO CROSSING	A	9 N	N	C	61
DO-EVERYTHING		4			
ANALOG TERMINAL/OA.S/ALTAIR 8800B/8080 UP./ADC.	AD	5 N	N	C	
OA./EQUATIONS	A	3		C	
NSC800 INTERRUPT/UP./BUS	D	6 N		C	
STABLE/VSWR. IS <1.2/ATTENUATOR/PI NETWORKS/RELAYS	A	6 N	N		
ADDRESS STROBES/MEMORY/CPU.	D	1 N		C	
POSITIVE/NEGATIVE		1		C	
EXCHANGE/ADDRESS/SEMAPHORE REGISTERS	D	3 N			
DRY/GLOWS/TURNS OFF/PROBES/CALIBRATING	A	1 N	N	C	35
RAM./COMMON MEMORY/EPROM./PRINTER/DRV-11 INTERFACE	D	2 N	N	C	
RADIATION MEASURING/VERY FAST RECOVERY	D	2 N		C	
V TO F CONVERTERS/VFC.S	A	1			
COUNTERS/INTERRUPT/PC.	D	8 N		C	
ABSOLUTE VALUE/ARITHMETIC/MSB./BIT	D	1 N		C	
CLK/POSITIVE FEEDBACK/TRUTH TABLE	D	1 N	N	C	
SIMPLE & RAPID/TEST/PLASTIC/BATTERY-OPERATED	A	3 N	N	C	
DIVIDES/PIN DIODE/SPDT./BESSEL FUNCTIONS/TIMER	AD	7 N	N		
BCD. TO DECIMAL/MARX BANK/FIRING SEQUENCE/STORE	D	3 N	N	C	
MEASUREMENTS/ANALOG COMPUTATION/LOG-ANTILOG	A	4 N	N	C	25/73
FUSIBLE LINKS/NON-VOLATILE DATA STORAGE/COUNTER	DA	8 Y	N		
RED-GREEN LED./PASS-FAIL INDICATOR/60-200NS/PAL.S	DA	9 Y	N	C	
DETECTORS/JFET./ADC./MCA./NEUTRINO REST MASS/NOISE	AD	7 N	N	C	7/12
BILATERAL SPST. SWITCH/SQUELCH LOGIC/5V/LED./RADIO	D	2 N	N		
COMPUTER/GRAY-CODE SHAFT ENCODERS/READ	D	4 N		C	
SWITCH-POSITION/1-OF-16 MUX.	D	1 N		C	
AMPERE-HOUR CAPACITIES/DISCHARGE RATES/FAST	A	4 N	N	C	
PWM./INTERFACE CCTS/KEY SWITCH MATRIX/MOTORS/UP.	AD	4 N	N	C	
1-SHOTS/FF./SIGNAL CONDITIONER/DELAY LINE/RC.	D	2 N	N	C	
MUX.ING/LATCH/ONESHOT/DATA/REMOTE ADDRESS COUNTER	DA	3 N	Y	C	
PULSE/NAND/8-BIT EQUALITY DETECTOR/PCM.	D	1 N		C	
SERVO/TRANSFORMER LAMINATIONS/POWER TRANSISTORS	A	2 N	N	C	
8-BIT DATA BUS/COMPARATOR/OCTAL LATCH	D	1 N		C	
MICROSHOCK/MACROSHOCK/HF./INTERFERENCE REDUCTION	AD	7 N	N	C	
0.001NM/RATE & THICKNESS/GOLD/TEMPERATURE/TTL.	DA	5 N	N	C	
AM./DETECTOR CCT/RC. INTEGRATOR/AMP./RECTIFIER	A	4 N	N		76
PS./LAMP IGNITER/LIGHT/CIRCULAR DICHROISM (CD)/MCD	A	2 N	N	C	
INDUCTOR/OSCILLATION/NON-PERIODIC/UNSTABLE	A	1 N	N	C	
SOUND/SCR./HANDS/RELAY/TV./RADIO	DA	1 N			
RS-232 INTERFACE/ASCII. TERMINAL/COMPUTER	DA	5			
AMATEURS/HEATHKIT TRANSCEIVER		2			
TLC/DETECTORS/QUADRUPOLE/FF./OPTOISOLATOR	DA	5 N	N	C	16
8088-8086 UP.S/CRASH/PROGRAMS/SRAM./DOWN-COUNTER	D	2 N	N	C	
PLAYER/PUSHBUTTON/REFLEXES/LOW-POWER/WINNER/GO	DA	4 Y	N	C	
BALANCED MODULATOR-DEMODULATOR/OSCILLATOR-TIMERS	A	3 N	N	C	

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OA./SHORT DISTANCES/MICROPHONE-FED/LAMP/TRANSISTOR	A	3 Y	N	C	
POWER-ON SELF-TEST/PHOENIX BIOS./LED.S/COMPUTER	D	3 N	Y	C	
OVER-CURRENT/1-PHASE/3-PHASE/TRANSIENT	A	4 N		C	
CMOS. OA./RADIO LINK/STIMULATOR	A	6 N	N	C	
		1			
EXPONENTIAL DECAY TIME/CHEMICAL	A	9 N		C	42
LOCATION/ALARM/STACK OVERFLOW/POINTER/Z80/BUS	D	1 N	N	C	
VOTERS/BUSES/MONITOR/PRIORITY ENCODERS/DECODER	D	1 N	N	C	
DEWAR/OA./TEMPERATURE SENSING RESISTOR/BRIDGE	A	2 N	N	C	
TRANSDUCER/FET. INPUT OA.S/INTERFACE/IO./ADC./SH.	AD	9 N	N	C	39/42
PIEZOMETER/~\$35/POTENTIOMETER RESISTANCE/MEASURES	A	2 N	N	C	
CLOCK/BEARCAT 210 SCANNER/5-LED. S-METER/1-SHOT	DA	2 N	N	C	
CASSETTE/MICROCOMPUTER/MEMORY/ROM./BUS	DA	4 N			
PICK-UP STRIP/DETECTOR/TRIGGER SCINTILLATION/TRIAC	DA	9 N	N	C	
OFFSET VOLTAGE/CAPACITOR/PULSE LENGTH/MEASURE	DA	4 Y	N	C	
SPARK COIL/SCR./FREE FALL EXPERIMENT/ELECTROMAGNET	AD	2 N	N	C	
ISOLATED/POWER/PULSE TRANSFORMER/HIGH SPEED	AD	4 N	N		
OSCILLATOR-TIMER/VARIABLE TRIP-POINT/ZENER DIODE	A	3 N	N	C	
Z80A/CPU./PROCESSING/DIGITAL SWITCH	DA	9 N		C	
PROCESSOR/BUS TRANSCEIVER/CONTROL LINES/LOGIC/\$80	D	9 Y	N	C	
HEIGHTRAN/CMOS. DIGITAL/PHOTOTRANSISTOR/COUNTERS	DA	6 N	N	C	
ZEUGMATOGRAPHY/COIL/PROJECTION/FT.	D	7 N	N	C	
2708, 2716 & 2532/ASCII./RAM./PROGRAM SUPPLY/TTL.	AD	3 N	N	C	
OA./HEATER/DARLINGTON/TRANSISTORS/633NM/FREQUENCY	A	4 N	N	C	
DEFLECTION/HORIZONTAL/VERTICAL/DECODER	DA	1 N		C	
PHOTOMULTIPLIER/OCTAL LATCH	A	2		C	42
MOBILE/MUX./UNIBUS/TRIANGULATION/SENSOR/INTERFACE	D	6 N	N	C	
COMPARATOR/VIRTUAL DMA./PARALLEL PROCESSING/CPU.	D	5 N	N	C	
BCD./DECODER DRIVER/TTL./COMMON CATHODE/COMPUTER	D	2 N	N		3
COMPARATOR/ESCAPEMENT/PHOTOTRANSISTOR/BCD. DECODAD	2 N	N	C	39	
PHOTOELECTRON PULSE/CLOCK/DIVIDER/ADC.	AD	4 N		C	
MILLER INTEGRATORS/DEBOO/BIQUAD	A	5 N		C	
ROCKING CURVE/HV. PS./PZT.	AD	2 N	N	C	
6522 VIA.S/COMPUTERSCOPE/DATA COLLECTION/IBM PC.S	DA	9 N	N	C	12/42
HOST COMPUTER/PARALLEL PORT/DATA TRANSFER/HEX FET.	DA	7 Y	N		
STARTS AGAIN & AGAIN WHEN ALL LED.S LIGHT/PEDAL	AD	1 N	N		
PROGRAMMING/CW./CONTROL LOGIC/MEMORY	DA	3 N			
DETECTOR/RESISTANCE/ETHANOL/ATMOSPHERIC POLLUTANT	A	7 N	N	C	
LIGHT/LAMP/CRANKSHAFT/WHITE & BLACK/SPEED/CARS	A	1 N	N		
OSCILLATOR/STRAIN GAUGE/PRESSURE	A	6 N		C	
FOLLOWER/3-POLE FILTERS		3		C	
BARKAUSEN CRITERION/OA./100KHZ	A	3 N	N	C	
POWER MOSFET.S/CROSS/AUTOCORRELATION/SNR./METROTEDA	8 N	N	C		
SPICE/INVERTING & NONINVERTING AMP.S/SIMULATIONS	AD	9 N	N	C	
		1			
BUZZER/STROBE LIGHT/MAGNETIC FIELD/RELAY	AD	2 N	N	C	
MODEL ROCKETS/AUDIO OSCILLATOR/SEVERAL 100 YARDS	A	1 N	N	C	
BINARY COUNTER/LED.S/HIGH-SPEED LOGIC/NEAREST 0.1S	DA	3 N	N		
SCR./OSCILLATES/TRAFFIC/INCANDESCENT BULBS/DIODE	A	2 Y	N	C	

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4130/CURRENT FOLLOWERS/PHOTOELECTRIC DETECTION/OA.	AD	7	N	N	C	25
MONOSTABLE/CHOPPER REFERENCE/NAND GATE/PMT./LAMP	AD	5	N	N	C	25
EFFICIENCY/NOT HIGH/EVEN UNLOADED/DRAWS/~15MA	A	2	N	N		
SQUARE WAVE/RESPONSE/FM. IN STEPS/DECADE COUNTER	DA	2	N	N	C	
OVERVOLTAGE/REVERSE-VOLTAGE PROTECTION/DRAIN/GATE	A	4	Y	N	C	
ADC.S/CHAMBERS/TRANSISTORS/LEP DETECTORS/READOUT	A	6	N	N	C	12
BASIC DRIVER/BIDIRECTIONAL IO. PORTS	D	3	N		C	
0.25 HORSEPOWER/TRIGGER/AC./LAMPS/ANGLE	A	1	N			
SWR./CW./RF.-OUTPUT/TIMER/RELATIVE-POWER	AD	3	Y			
MICROWAVE & LASER BEAM DETECTION/THERMAL/AF./TIMER	A	9	N	N		42
DETECTED/PROGRAMMABLE DIVIDER/PASS/SHAPING/FILTER	AD	4	Y	N		
FF./CHANNEL/8 CCTS/MONOSTABLE/WINDOW DISCRIMINATOR	AD	1	N	N	C	
RISE TIME/CABLE/PHOTO-DIODE/AMPLIFYING/RECEIVER IC	AD	8	N	N	C	
SNR./CHEBYCHEV/LPF./IMPULSE NOISE/CHROMATOGRAPH	A	3	N	N	C	
ACCURACY OF 0.005%/VERY FAST AMP.S/PHA./DPM.	AD	6	N	N	C	
LED./OSCILLATOR/EMITS A TONE/VCO./PIN DIODE/AMP.	AD	4	Y	N	C	
MONOSTABLE MULTIVIBRATOR/OA./BUFFER	A	1	N		C	
AD590/SENSOR/MATCHING/RECORDER/SAMPLING	DA	2	N		C	E
SRD.S/OPTICAL TDR. (OTDR)/PULSE BROADENING/BW.S	A	6	N	N	C	
4 CUPS/<\$35/RS-232-C/MEASURE RESISTANCE/TIMER/OA.	AD	7	N	Y		
CHARGED DROPLETS/ADC./DAS./INTERFACE/CORONA	A	5	N	N	C	
TIMER/FREE-RUNNING MULTIVIBRATOR/BATTERY/3-PHASE	A	2	N	N	C	
		2				
COMPUTER/FM./LAMINAR PROPORTIONAL AMP./LPA	AD	8	N	N	C	
25KA PER DEVICE/4900A/SCR. SWITCH/EM. LAUNCHER/PS.	A	6	N	N	C	
HF. RIG/PADDLE/DOT/DASH/CW./PS./80HM SPEAKER	AD	2	Y	N	C	
CLOCK-TO-TAPE 'INTERFACE'/TIMING DISC/UP-DOWN	D	3	Y	N	C	
CASCADE/DBX ARRAY/CURRENT-STEERING CELL/SERVO AMP.	A	9	N	N	C	
VOLTAGE/EMF./LED./100 TIMES LARGER THAN/STANDARD	AD	2	N	N		
SHIFT REGISTER/CONVERT/PARALLEL/SERIAL/EPROM./X-Y	D	4	N	N	C	E
PIONS/BISMUTH GERMANATE/CERN./ELECTRONS/EM. SHOWERA	A	9	N	N	C	
MAN/SNR./FM. TAPE RECORDER/MUSCLE	AD	6	N	N	C	42
LOCAL-AREA PAGING/AM. 49890MHZ RF. CARRIER/BEEPER	A	5	N	N	C	
"PAIR OF 45'S IN PUSH-PULL"/HAMS/PLATES/GRIDS/KEY	A	4	N	N	C	
GAME PORT/OSCILLATORS/CONVERSION	AD	6			C	
2 STAGE BAND PASS FILTER/ENVELOPE DETECTOR/LED.	A	4	N	N	C	E
RANGE LIMIT/TRACKING/READINGS/VOLTAGES/BENCH	AD	7	N	N	C	
10MHZ MASTER OSCILLATOR/PHASE-FREQUENCY DETECTOR	DA	5	N	N	C	
UP-DOWN COUNTER/PS./LED.S/1-SHOT/BCD.-TO-DECIMAL	DA	5	Y	N		
VIA. TIMER/EPROM./SRAM./MEMORY REFRESH/MUX. TIMING	D	7	N	N	C	
CRT./DIGITIZE COLOR IMAGES/PMT./FET./ADC./DISPLAY	AD	9	N	N	C	42
PLASMA TUBE/ELECTRODES/18KV/20KA/PULSE	A	4	N		C	
PHOTORESISTOR/IEEE-488-1975/BUS/ADC./DAC.	AD	8	N		C	
SUN MICROSYSTEMS/CPU./TTL./ECL./MMU/BIT/20MIPS	D	3	N	N	C	
MDS 501 DMA. CONTROLLER/MORE RAPID/TTL./DATA BUS	D	3	N	N	C	
PHASE-SENSITIVE DETECTION/REFERENCE/LOCK-IN AMP.	AD	3	N	N	C	
BC.S/WEATHER BULLETINS/TONE DECODER/SCR./LED.	A	3	Y	N	C	
DETECTOR/NEGATIVE IONS/ASPIRATOR	A	6	N	N	C	
MODULATING/PROGRAM/SCR./TONE DECODERS	AD	2	N			

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12-BIT/SCINTILLATIONS/PHOSPHOR/VIDICON	AD	9 N	C	
ASSEMBLY LANGUAGE PROGRAMS/CHARACTER	AD	2 N	Y	
FEED POINT/RF./VARIABLE CAPACITOR/TUNING	A	3 N		
LED./PHONE JACK	A	1 N	C	
ADC./PMT. ANODE CURRENT/ATTENUATORS/HEART MOTION	A	9 N	N	C
CAPACITORS/DIODES/1000PIV/TR. SWITCHING/LINEAR	A	2 N	N	
LED. DISPLAYS/TIMERS/RELAY/DETECTOR/DEAD VOLUME	DA	2 N	N	C
SEVERE INTERFERENCE/TV./CARRIER TRANSMISSION	AD	4 N	N	E
BASIC/IO./MEMORY EXPANSION/PRESSURE TRANSDUCER	AD	5 N	N	C
OE (OUTPUT ENABLE)/CE (CHIP ENABLE)/EEPROM.S/UP.	D	6 N	N	C
INTERFACE/PROGRAMMABLE DELAY GENERATOR/CAS/RAS	DA	9 N	Y	
MCP.S/MONOSTABLE/INTERRUPT REQUEST/2401/COMPUTER	DA	7 N	N	C
WIDE FREQUENCY RANGE/TIMERS		1		C
HYBRID PREAMP.S, POST AMP.S/MULTI-HIT TDC.S/SHAPER	A	9 N	N	C
DISPLAY DRIVER/RS422 LINE RECEIVER/RAM./EPROM./IO.	D	2 N	N	C
EXPANSION BUS/6502 8-BIT UP./CPU./LINES	D	4 N	N	
4-DIGIT READOUT/AM-PM INDICATOR/LED./EPROM./60HZ	DA	5 N	N	C
UP./PROCESS CONTROL	D	2		
POSITIVE/NEGATIVE/FULL-WAVE/FIXED OUTPUT/MOS.	A	1 N	N	
LOGIC/SYNCHRONOUS BUS INTERFACE/BUS ARBITRATION	D	3 N	?	C
REMOTE DATA-PROCESSING COMPUTER/ANALYZE DATA/DMA.	D	6 N	N	C
CSF/CRYSTALS/PMT./CAMERAS/SELF-ABSORPTION	AD	6 N	N	C
ADDRESS GENERATION/COMPOSITE/VIDEO SYNC SEPARATOR	DA	2 N	Y	C
AUDIO TRANSFORMER/COILS/MOTOR	A	1 N	N	36
FILTER CAPACITOR/BRIDGE RECTIFIER/RIPPLE	A	9 N		C
ALPHANUMERICS/EPROM./TV./COMPOSITE-VIDEO/DISPLAY	DA	5 Y	N	C
UP./MPU./ON-CHIP REFRESH/READ	D	4 N		C
MICROCONTROLLERS/BASIC INTERPRETER/IO./40-PIN	D	5 N	Y	
HY5/CERAMIC/UP TO 40KHZ/PULSED POWERS >2MW	A	6 N	N	C
MICROCOMPUTER/2ND-ORDER/GAUSSIAN/STOCHASTIC	D	5 N	N	C
-1.8V TEMPERATURE SENSOR/OA./3.5 DIGIT/COMPUTER	AD	6 N	N	
MMIC. AMP./INTERFACE/5MW/5TH OVERTONE CRYSTAL	A	3 Y	N	C
COMPUTER IO. PORT/UP./DATA ACQUISITION/STORAGE	DA	3 N	N	C
DIGITAL TIMING LOGIC/VIDEO/THYRATRON DRIVER/SPARK	AD	3 N	N	C
GAASFET./TEMPERATURE/NOISE POWER/TVRO.	A	5 Y		
CPU./GRAPHICS-PROCESSING/WINDOW/SCREEN	D	9 N		C
64K/4MHZ CLOCK/REFRESH-PRECHARGE PULSE/ACCESS TIME	DA	2 N	N	C
RS-232 SERIAL PORT/IO./DISTANCE/SRM/UP./MOTOROLA	DA	9 N	N	
CAPACITANCE-COUPLED INPUT TANK CCT/L-NETWORK	A	7 N	N	
PICKUP COIL/LPF./LF. GAIN/HIGH-PASS FILTER	A	3 N	N	C
NOISE-FREE/CMOS. CHIPS/\$20/220V AC. OR 110V AC.	A	2 N	N	C
MOD./MULTIPLIER/ICM/CRYSTAL/LO. FREQUENCY/435MHZ	A	4 N	N	C
LED. FLASHER/TRANSISTOR/UNI/JUNCTION/BIPOLAR/TIMER	AD	2 N	N	C
MINES/GAS/PREVENTS FALSE & PREMATURE TRIGGERING	A	4 N	N	C
RUTHENIUM/PALLADIUM/PULSED N ₂ -DYE LASERS/SNR./LOD	A	4 N	N	C 25
NONINVERTING INTEGRATORS/SUMMING-AMP./UP TO 200MHZ	A	1 N	N	C
5 TO 10 VOLTAGE-DOUBLER CCT/INVERTER/3-STATE	AD	2 N	N	C
ERROR AMP.S/CURRENT-MODE CONTROLLER/POWER MOSFET	AD	2 N	N	C
TRANSFORMER/BWO/INTERFEROMETRY/RADIO-ASTRONOMY	A	7 N	N	C

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AGC./FET./VCO./SUMMER/INTEGRATOR/QUADRATURE ERROR	A	9	N	N	C	
SHORT WIRE/INTEGRATING/DELAY LINE SHAPING/ANODE	A	9	N	N	C	31/61
CURRENT SOURCE/CAPACITOR/VOLTAGE FOLLOWER/BIMOS.	A	2	N	N	C	
8086/LC. FILTER/IO. PORT 8255A/8259A (PIC.)/PIT.	AD	9	N	N	C	
MUX./ASSYMETRICAL/OA. FEEDBACK/FLEXIBILITY/SIGNAL	AD	9	N	N	C	
COUNTER/CLOCK GENERATOR/ABEL SOURCE CODE/PATTERN	D	4	N	Y	C	
INTEGRATOR/VOLTAGE COMPARATOR/MONOFLOP CCT/SCAN	AD	3	N	N	C	
HIGH SLEW RATE OA./SH. CCT/COMPARATOR/TRACKING	AD	3	N	N	C	12
CASCADE/PURE CLASS-A/BUT WITH BETTER EFFICIENCY	A	1	N	N	C	60
BUFFER AMP./CURRENT & VOLTAGE OFFSET COMPENSATION	AD	8	N	N	C	
STORES MAXIMUM LEVEL		2			C	
5-DOT BAR DISPLAY/LED. DRIVE/AM.-FM. RECEIVERS	A	4	N	N	C	
MANUALLY ADJUST/REMOTE/ENCODER/CONTROL/DRIVE/KNOB	DA	1	N	N	C	
NON-INTERACTIVE TUNING F PHASE & GAIN/STABLE	A	4	N	N	C	
5 VALVE/DIODE PENTODE/1930'S/AUSTRALIAN/RECEIVERS	A	4	N	N		
NANOSECOND/RISE & FALL TIMES/RINGING IS MINIMAL	A	1	N	N	C	
VARACTOR DIODES/SQUID./OSCILLATOR	A	4	N		C	
PLUG-IN/MATH PROCESSING/32-BIT/PMMU/FPU/COMPUTING	D	9	N	N	C	
CW. BAND-PASS FILTER/BUFFER/DBM.	A	7	N			
NIGHTS/PROJECT/INTRUDERS/WIFE/BEAM/DETECTORS	AD	5	Y	N		
NEGATIVE CURRENT INPUT/POSITIVE VOLTAGE REFERENCE	AD	5	N	N	C	
PRESET/ADC./FIFO./INTERFACE/DETECTORS/COMPUTER	AD	5	N	N	C	
LINEARITY/TRANSCONDUCTANCE AMP./DROOP RATE/FIFO.	AD	5	N	N	C	4
REAL WORLD/CONTROLLING/COMPUTER/RECEIVER	AD	9	N		C	
LINE DRIVERS/AUDIO POWER AMP.S/FEEDBACK LOOP	A	1	N	N		
PHOTODIODE/PC./INTERFACE CHIP/RS-232/SERIAL PORT	AD	7	Y	N		
VCO./TR./AUDIO/MUSIC/100KHZ FM. CARRIER/DRIVER	A	4	Y	N	C	
PEAK GAIN/VARIABLE-BW. FILTERING/BANDPASS	A	1	N	N	C	
SELECTIVE/AMP./MONITOR/TV. CAMERA	A	3	N		C	
INPUT IMPEDANCE/VERY HIGH/BW./5MHZ/BIPOLAR	A	2	N	N		
SPECTROPHOTOMETER/AUTOMATED/EMISSION/SETTINGS	DA	9	N	N	C	35/42
HT/BYPASSING/RF. CHOKE/MINI CIRCUITS/AMATEUR	A	2	Y	N	C	45
LOW-COST/LINEARIZING TRANSDUCER/BUFFER/SENSITIVITY	A	5	N	N	C	
VARACTOR/DRIFTS IN FREQUENCY/TEMPERATURE/RF. POWER	AD	4	N	N	C	E
0 TO PI/NEGATIVE FEEDBACK/AMP./AMPLITUDE/C & R	A	3	N	N	C	7
280MV-PC/SENSITIVITY/8NS/RISE TIME/VME/DETECTOR	AD	7	N	N	C	12/39
DAMPING FACTOR/EXCITATION/MASS/WEIGHT	A	2	N		C	
-10DBM AT 50MHZ/-30DBM AT 1GHZ/RF. SHIELDING/OVEN	AD	2	N	N		
SOA./REACTIVE LOADS/FAULT CONDITION/MOSFET. AMP.	A	7	N	N	C	
UP./TRANSFORMER/RECEIVER & DRIVER CCTS/LED.S	AD	1	N	N		
WORD/INTERFACE/SERIAL PORT/SHIFT REGISTER/CMOS.	DA	1	N	N	C	
DIRECTION-SENSITIVE/ADC./CAPACITOR STORAGE/BLOOD	AD	3	N	N	C	
CORRECTION CAPACITOR/RESISTANCE/NONLINEAR RESISTOR	A	6	N	Y		
DYNAMIC RANGE 3.5 DECADES/GAUSSIAN NOISE/15KEV	A	5	N	N	C	
EMI./IR. PHOTODETECTOR/BIMOS. OA./RECEIVING/SW.	A	2	N	N	C	
HIGH QUALITY/AUDIO/FEEDBACK/EFFICIENCY/IMPEDANCE	A	1	N	N		36
AUTOMOBILES/LED./VISUAL INDICATION/COMPARATOR	AD	6	N	N		
QRS/RR/PP/BEDSIDE/CENTRAL MONITOR/SH./MUX.S/FILTER	DA	9	N	N	C	42
DETECTOR/CRYOSTAT/TELESCOPE/MEASUREMENTS	AD	8	N	N	C	61

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CMRR./2ND-GENERATION CURRENT CONVEYORS (CCII)	A	5 N	N	C	
TRANSFER FUNCTION/RADON MONITOR/FAST	A	5 N		C	
INPUT CELL/PNP-NPN/ARRAY/BJT.S/CURRENT FOLLOWER	A	5 N	N	C	
PERMEABILITY/RELAXATION/CHART RECORDER/INDUCTANCE	DA	4 N	N	C	
PZT./SH. CCTS	AD	4 N	N	C	
COAX CABLE/HIGH-DEFINITION/MAXIM/IMPEDANCE/LOAD	A	7 N	N	C	
GC.-MS./CMOS. SWITCHES/COMPARATOR/OA./AMP.S/FF.	AD	6 N	N	C	39/42
DATA LOGGER/ASSEMBLY LANGUAGE LISTING	DA	4 N		C	
DC. 2-QUADRANT/SAMPLING PHASE/ERROR MAP/40US/TIME	AD	5 N	N	C	
VOLTAGE REFERENCE/SUMMING/BCD. COUNTER	A	9 N		C	42
HF. OSCILLATOR/NF./SIDE BAND/150MHZ/GAIN	A	9 N	N	C	
PZT./FIR/HV. DC. AMP.	A	2 N	N	C	2
MEASURE/UP TO 0.15 T/FERROMAGNETIC FOILS/IRON	AD	8 N	N	C	
LINEARLY TUNABLE/DIGITALLY PROGRAMMABLE/VFC.	A	3 N	N	C	
ALL-DIGITAL 5X5 MULTIPLIER/SHUNT/SERIES MODE/OA.	AD	3 N	N		
ACCUMULATORS/FRACTIONAL COMPENSATION/PLL./900MHZ	AD	5 N	N		
DRIVING 50OHM LOADS/PHASE DIFFERENCE/2 OUTPUTS	A	1 N	N	C	
SILICON CONTROLLED SWITCH/OSCILLATOR/EHT. DOUBLER	A	3 N	N		
FUNCTION GENERATOR/HV. AMP./SAMPLE CELL CAPACITOR	AD	9 N	N		76
RADIATION DETECTORS/FAST/DISPLACEMENT CURRENTS	A	5 N	N	C	
TMOS./NTC./CRYSTAL OSCILLATOR/RF. BUFFER/HF.	A	9 N	N	C	
REMOTELY DISABLE/CURRENT/LIFE/CAPACITY/VOLTAGE	AD	9 N	N	C	
AGC./ADAPTIVE GAIN AMP./ISDN./TRANSMISSION/ECHO	A	4 N	N	C	
O.A. DRIVES P-CHANNEL JFET./5 DIODES/MAXIM	A	1 N	N	C	
PROCESSOR/MICROCOMPUTER/RS-232/IO./TTL. MONOCHROME	DA	7 N	Y		57
PARALLEL-TO-SERIAL CONVERSION/OA./DUAL-SLOPE/FET.	AD	7 Y	Y		
FOR HIGH DETECTOR CAPACITANCE/PHOTODIODES/CRYSTAL	AD	6 N	N	C	
CURRENT DRIVER/COMPUTER/OSCILLATOR/COILS	AD	6 N		C	
GERMANIUM P-N-P/TEMPERATURE/JUNCTION	A	2 N		C	
CAVITY/1240 TO 1300MHZ/200W/RF.	A	7			
DIVIDER/LONG-TERM/LIGHTS/SPRINKLER/TRIAC/SEQUENCE	DA	2 N	N	C	E
PHOTOFACT/HOWARD W. SAMS/STRAPPING/TRANSFORMER	A	2 N	N		36/45
LINEARIZING NETWORK/VOLUME UNIT/BALLISTICS/THD.	A	5 Y	N		
DETECTION/PULSER/PHONEMES & ALLOPHONES/LANGUAGE	AD	7 N	N	C	
SENSE WIRES/TRAD/HADRON/CERN. OMEGA SPECTROMETER	AD	9 N	N	C	
DEE-VOLTAGE/RF./GATING CCT/ECL./FAST/HIGH BW.	AD	9 N	N	C	61
PS./TANK COIL/TUNED WITH AN AIR PADDER CAPACITOR	A	2 N	N	C	
LEVEL DISCRIMINATOR/CURRENT SOURCE/INTEGRATION	AD	4 N	N	C	61
MEASUREMENT/UV. RADIATION/PATIENT/FILTER/DVM.	AD	8 N	N	C	
SCR. SWITCHES/DUAL TIMER/UV./LIGHT/PMT.S/DECAY	A	5 N	N	C	
SENSITIVITY/LEVELS BETWEEN 1W & 300W/IN PARALLEL	A	2 Y	N		
MICROPOWER O.A.S/RADAR PRINCIPLE/PUSH-PULL DRIVER	A	1 N	N	C	
LIGHT BEAMS/MULTI-COLOUR LED./PHOTODIODE	AD	4 N	N	C	88
PULSE TRAIN/MONITOR/DISPLAY DRIVER	D	6 N		C	
WEIGHTED RESISTOR NETWORK/BINARY/BCD.	AD	2 N		C	
SOUND/SLIP RING INDUCTION MOTOR/DISPLAY/OVERLOAD	AD	5 N	N	C	
FLIGHT PACK/REPLACEMENT/NOISE IMMUNITY/TRANSMITTER	AD	2 N	N		
DUAL PORT RAM./SERVO/SPEED/MEASUREMENTS/VELOCITY	DA	9 N	N	C	
INDEPENDENT OF FREQUENCY/>5 DECADES/1HZ TO 13MHZ	AD	4 N	N	C	

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OPTICALLY ISOLATED/LINK/DATA/RS-232/TIME SHARE	DA	2 N	N	C	
100K DRIVERS/50OHM LOADS/RECEIVERS/LOGIC SWING	D	1 N	N	C	
16MHZ OSCILLATOR/PHASE-SHIFTING/OA./FET. BUFFER	A	3 N	N	C	
RS-232-TO-DIGITAL CONVERTER/CONTROL & "HANDSHAKE"	DA	6 Y	N		
FREQUENCY-DETERMINING NETWORK/NOTCH FILTER	A	6 N	N		
EM. INDUCTION/FARADAY'S LAW/HELMHOLTZ COIL/METER	A	2 N	N	C	
HIGH SPEED/LSTTL./MOTOROLA 6800/TO 20MS/DETONATION	DA	3 N	N	C	
SORT OUT/8-BIT DAC.S/FAST PULSE AMP.S/INTEGRATOR	AD	6 N	N	C	
0.08% AT 10HZ TO 0.31% AT 10KHZ/20KHZ POWER BW.	AD	2 N	N	C	
8-BIT MICROCONTROLLER/EEPROM./TRANSDUCERS/SENDERS	DA	9 Y	N	C	
ONCE THE BATTERY IS FULLY CHARGED/TRICKLE CHARGE	AD	7 Y	N	C	
DUAL OA.S/PS./HIGH-IMPEDANCE/VISUAL/LED./INDICATOR	A	3 N	N	C	
PULSE-SHAPED/SMD./CAMAC/NIM BIN/ARRAY/~43000/CERN.	AD	9 N	N	C	12
INTERFACE/COMPUTER/BCD.-TO-DECIMAL/DATA SELECTOR	D	5 N	Y	C	
IR./3-DIGIT LED. DISPLAY/INTERFACE/COMPUTER/EDB	DA	9 N	Y	C	
SEND CONTROL & VOICE-MUSIC/AC. POWER LINE/SENSOR	A	7 Y	N		
MIXER/LO./IF. FILTER/LIMITER	A	6 Y	N		
PULSE TRAINS/32 COMMANDS/32-CODE PACKET SET	AD	2 N	N	C	
LOGARITHMIC/CONCENTRATION/PH/SENSED SPECIES	A	6 N	N	C	12
THIN-FILM/TRANSDUCERS/NONLINEAR	A	4 N		C	
IO. INTERFACES/RS-232 SERIAL PORT/VAX/COMPUTER	D	4 N	N	C	
RESISTOR/LITTLE KNOWN/GENERAL PURPOSE	A	1 N	N		
MUSIC/DRILL POSITIONER/TURTLE ROBOT/SLOT-CAR TRACK	AD	8 N	Y	C	
OVERMODULATING/SWEEP GENERATOR/PULSE	AD	7 N		C	
LOW IMPEDANCE OUTPUT/ADC./ANODIC/PULSE-HEIGHT	AD	9 N	N	C	61
GREEN/RED LED./CMOS., QUAD 2-INPUT NOR GATES/LIGHT	DA	2 N	N	C	
TUBE/432MHZ/IDLING PLATE CURRENT/CATHODE BIAS/HF.	A	1 N	N		
ONLY POSITIVE INPUT VOLTAGES ARE TRACKED/DIODES	AD	5 N	N	C	E/39
TELEPHONE PICK-UP SENSOR/SOUND-ACTIVATED	A	5 N		C	
COIL/CONDUCTIVE OBJECTS/SENSOR/COMPUTER	DA	8 N		C	
DEFLECTS/450V/APERTURES/GUN/ACCELERATING	DA	9 N		C	
RF./VSWR./HF./AMP./COMPARATORS/DIVIDER NETWORK	A	5 N	N		
COIL/DECODER/BETWEEN 88MHZ & 108MHZ/AM./BODY/AMP.	A	2 N	N	C	60
PORT/TRANSFER/DATA/PRINTER/LINKS/DB-25	D	9 N		C	
COMPUTER/OPTOISOLATOR/DECODER/PIO/PPI.	DA	9 N		C	
CLIMB THE WALL/REVENGE/FOOP!/PFSZT!	A	3		C	42
TTL. TO ECL. TRANSLATOR/MUX./FAST READOUT/DETECTOR	DA	7 N	N	C	E
VOLTAGE DOUBLER/ID/CMOS./RF./EM. WAVES/ANIMAL/AMP.	DA	8 N	N	C	
LIGHT/PATTERN/REFERENCE BEAM/SENSORS/FF.S	DA	4 N	N	C	
CRYSTAL/LC./QUADRATURE DETECTOR/SNR./RF./AGC./VCO.	A	3 N	N		
AUDIO/BW. OF ~1MHZ/U/LM/P-I-N/DETECTION/SOUND	A	2 N	N	C	
LINE ADDRESS GENERATOR/PROM./CPU./IMAGE DIGITIZER	DA	9 N	N	C	
BATTERY-POWERED/DISPLAY/SCALING/LCD.	AD	9 N		C	
ADC./DISPLAYS/HIGHEST TEMPERATURE/NIXIE INDICATORS	AD	4 N	N	C	
ADVANCED CMOS./VME DATA BUS/NOISE	D	2 N			
QUARTZ-CRYSTAL TIME BASE/IC DIVIDER/CMOS.	D	1 N		C	
TRANSMISSION LINE/TTL. CONTROL/INTRINSIC SILICON	DA	1 N	N	C	
MAINTAINS/FLOAT LEVEL/POWER/FAST CHARGE/POLARITY	A	4 N	Y		
JFET./OA./CONSTANT CURRENT SOURCE/LOW POWER/ENC	A	9 N	N	C	12

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LEAD ACID/OA./TRICKLE/TO ~0.8-0.95 AH CAPACITY	A	1	N	N	E
NIR./BACKSCATTERED LIGHT/SKIN/BLOOD/CORRECTION	A	9	N	N	C
QRP/CW./RIG/SCHMITT-TRIGGER GATE/DOT MEMORY/DASHES	DA	4	Y	N	3
Z8671 CARD/UP.S/VDU./RAM.	D	3	Y		
COIN/ASTABLE/BISTABLE/MULTIVIBRATOR	D	2			
ARMED/DELAY/UP./AUTOMOBILES	D	2	N		C
AUDIO EFFECTS/ECHO/REVERB/BUCKET-BRIGADE	AD	6	N		C
ELECTROMETER/PICOAMPERE-RANGE/JFET.	A	3	N	N	C
CAPTURE RANGE/ENCODER/TRANSFER FUNCTION/ARMATURE	DA	9	N	N	C 2
UP./6800/DATA ANALYSIS/BUS ISOLATORS/LATCHES/PORT	DA	8	N	N	C
CORRECTION CCT/FILTER/MULTIVIBRATOR/THROTTLE SHAFT	AD	5	N	N	C
OA./FET. INPUT/HT./LOGARITHMIC SCALE/DYNODE/ANODE	A	4	N	N	C
RF./CONVERTS/FREQUENCY/HF. TRANSCEIVER/IF./RADIO	AD	7	Y	N	
VCO./DUAL-INTEGRATOR/FEEDBACK/DIODE BRIDGE/OA.	AD	2	N	N	C
VMOS. TRANSISTOR/NPN/CMOS. SCHMITT TRIGGERS/PTT.	DA	5	Y	N	
TRANSDUCER/EXCITATION/AORTA/QUAD BILATERAL SWITCH	A	3	N	N	E
DRIFT/CURRENT-TO-VOLTAGE CONVERTERS/INTEGRATOR	A	9	N	N	C E/39
CAPACITIVELY LOADED/COAX/RF./150MHZ/LUMPED CCTS	A	6	N	N	C
FET.S/FILTER/VCO./SHAPING CCT/353.5/TO 3535 RAD-S	A	9	N	N	C
EQUATION OF STATE/VOLTAGE REFERENCE/MUX./ADC.S	AD	4	N	N	C
MDAC./MEMORY/ADC./COUNTER/WINDOW COMPARATOR/IMAGE	AD	6	N	N	C
EQUALISATION/RIAA NETWORK/INPUT IMPEDANCE	A	1	N	N	C
FIBER OPTIC/AUDIO & INSTRUMENTATION/ADC./DAC./DATA	AD	4	N	N	C
PHOTODIODE/SENSOR/CHOPPER-TYPE PHASE DETECTOR/OA.	AD	3	N	N	C
RERBUS/FORK-LIFT DESIGN/MULTI-JOINTED/QUAD OA.	AD	5	N	Y	C
BALANCE/LED.S/PLUS & MINUS 180DEG/LF.S/ANGLE	AD	1	N	N	C
DARLINGTON CCT/REFERENCE VOLTAGE/3KHZ/TEMPERATURE	A	6	N	N	C
HIT COMPARATOR/FET.-INPUT OA./CAMAC/PWC/LOW NOISE	AD	7	N	N	C 61
		1			C
30KV DC./LED./FREQUENCY-TO-VOLTAGE/SCHMITT/SUPPLY	A	2	N	N	C
CAPACITORS/CONSTANT-CURRENT/FET.-INPUT OA./GATE	A	4	N	N	C
CLOCK/DISPLAY/ECG./IEEE-488 BUS/COMPUTER/HEARTBEAT	AD	3	N	N	C
SNR./FFT./ANALOG DEVICES/HF.S/DEMUX./DATA/OR GATES	AD	7	N	N	C
CHROMINANCE/LUMINANCE/RGB./FLICKERING/RECEIVERS	DA	7	N	N	C
NMR./RF./IF./ROM. TABLES/SWITCHING TIMES/PRECISION	AD	7	N	N	C
PEAK DETECTOR/HEART RATE/QRS/CARDIOTACHOMETER	DA	5	N	N	C AG
CAPTURE IMAGE/PROCESSING/3 INTENSITY LEVELS/PC.	DA	9	N	Y	C
SIGNAL-PROCESSING/2-QUADRANT/60MHZ/HIGH BW.	A	9	N	N	C
GREEN LITRONIX GL56/PHOTOMULTIPLIERS/SCINTILLATION	D	4	N	N	C
PULSE-DURATION MODULATION - PDM/ACTIVE LOUDSPEAKER	A	3	N	N	
DAC./CAPTURE/WAVEFORMS/TRACK-HOLD AMP./EVENT	DA	9	N	N	C
ABSOLUTE VALUE/SQUARER/DIVIDER/FILTER	A	2	N		C
MUX./ATTENUATOR/VCO./DAC./UP.	AD	4	N		C
VCO./RFO/IMPLANTABLE/RADIO/FM. TRANSMISSION/RF.	AD	7	N	N	C
RH./DEW-POINT TEMPERATURE (TDP)	AD	7	N	N	C
EDTA/FREQUENCY CHANGE/DEPOSITION/IONS/LIQUID	AD	9	N	N	C 12
MULTIPLIERS IN SERIES/CURRENT-TO-VOLTAGE CONVERTER	A	2	N	N	C
HIGH RESISTANCE/BCD./OA./ELECTROMETER	AD	4	N		C 42
NAND/SIREN SOUNDS/HORN/SENSORS/DETECT/OPENING/DOOFAD		1	N	N	C

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MICROCOMPUTER IO. PORT/2US MAXIMUM/FAST/AMP./Z80	AD	4 N	N	C	
MEASURING PROBES/INPUT BIAS CURRENT/<75FA/SOFTWARE	A	3 N	N	C	
DURATION/REVERSE BIASED/LED./OSCILLATION/TRIGGER	DA	1 N	N	C	
HARMONIC DISTORTION/IMD./LPF./FARADAY SHIELD/ERROR	AD	9 N	N		
HARMONIC DISTORTION/IMD./ERRORS/34MHZ/NPR	AD	9 N	N		
6800/OA.S/ADDRESS DECODE LOGIC/PROGRAMMABLE/BUS	AD	2 N	N	C	
UP.S/ROM./HI-CMOS./NMOS/SRAM./MICROPROGRAM DECODER	DA	8 N	N	C	
MICROCOMPUTER/COMPUTER/LASER PULSES/CCD./VIDICON	AD	4 N	N	C	
VERTICAL DRIVE/HORIZONTAL-DERIVED PULSES/NOR GATE	DA	2 N	N		
CARRIER-TO-NOISE RATIO (CNR)/EXOR PHASE DETECTOR	AD	4 N	N		E
X-RAY DIFFRACTION/DETECTOR/STRIPS/EPROM./OA./TRW	AD	7 N	N	C	12
FEEDBACK COMPENSATION/VCO./PHASE JITTER/CHOPPER	AD	8 N	N	C	
PS.S/SPECTROMETER/LV./OPTO-ISOLATORS	AD	6 N	N	C	
RECORDING/ANALYZING/128 PHOTODIODES/25UM CENTERS	DA	9 N	N	C	
GAAS.P DIODE SENSOR/PREAMP./THERMAL/4-380K	A	8 N	N	C	
CMOS. RAM./ZENER DIODE/MOSFET./CURRENT MIRROR	AD	1 N	N		
TEMPERATURE/FLOW RATE/MICROBRIDGE/RESPIROMETER	A	3 N	N	C	
LIGHT/PHOTODETECTOR/150KV DC./IR. LED./PREAMP.	AD	3 N	N	C	
MICROPHONE/PINKING FILTER/AMP./PREAMP./OA./LPF.	AD	5 Y	N		
APPLE II PLUS/CURRENT-TO-VOLTAGE CONVERTOR/PMT.	AD	9 N	N	C	25
OTA. SPEED-CONTROL/UNIDIRECTIONAL, HIGH-CURRENT	AD	1 N	N	C	
PULSE GENERATOR/PLL. DEMODULATOR/PHOTODIODE ARRAY	AD	8 N	N		
COMPARATORS/CLAMPER/SIGNAL AMPLITUDE	A	1 N		C	
NONLINEAR FEEDBACK/LOCKS TO THE FREQUENCY/SNR.	AD	3 N	N	C	
PMT.S/HPLC.-LIF/OPTICAL FIBER/CW./FEEDBACK LOOPS	A	8 N	N	C	E
INEXPENSIVE/COMPUTATION/DENOMINATOR	AD	2 N		C	
SECONDARY ELECTRON/SCANNING/MICROSCOPE	A	7 N	N	C	
60HZ/INTERFERENCE/HARMONICS/HIGH IMPEDANCE SOURCES	A	9 N	Y	C	42
DAC./ADC./CPU./ROM./DRAM./INTERFACE/CLOCK/MODEM	DA	9 N	N	C	
VMOS./AMP./POWER FET./CMOS. DIVIDER/RF./NOR GATE	AD	6 Y	N	C	
SOREQ ON-LINE ISOTOPE SEPARATOR/ADC.S/250KBAUD	D	5 N	N	C	61
VOLTAGE SPIKES/SUPPRESSION	A	1			
PLUGS/PHOTOCELL/PHOTORESISTOR/METER	A	2 N			
DELAY LINES/MUSIC/SOUND/SUMMING/ECHOES	AD	7 N		C	
WIDE-BW./DIGITAL/IPFD/DETECTOR/OSCILLATOR	DA	5 N	N	C	
PHASE SPLITTING/NFB/"PERFECT" DIODES/INVERTER	A	1 N	N	C	E
CARRIER/DELAY LINE/DBM.	A	2 N		C	
<\$2/LOW-NOISE/300MBAUD/ECL.	A	3		C	
0-100V/0-1000V/0-10A/0-100A/UP./ADC.	AD	6 N	N	C	
AUDIO OUTPUT/FRESNEL LENS/OA./LED./PHOTODIODE	A	5 Y	N	C	
IR. LED./HIGH GAIN AMP./VMOS. SWITCH/PLL.	AD	2 N			
DELAY/SPLIT-TIMER/TRIGGER/STROBE FLASHES	DA	9 N		C	E
LAMP FIRING/SSR./ADC./IBM PC. CLONE/XENON/QUENCHER	AD	4 N	N	C	4/25
FET. INPUT OA./VFC./20 BIT COUNTER/UV.-VISIBLE	AD	6 N	N	C	39
DIELECTRIC/MOISTURE-ADSORBING/RH./MGF2/IMPEDANCE	A	9 N	N	C	
CERN./READOUT/DISCRIMINATOR/SILICON DETECTORS	A	7 N	N	C	
RF./PIN PHOTODIODE/CURRENT MONITOR/BALUN/ANTENNA	A	8 N	N	C	16
ENERGY RESPONSE/LINEAR/GOOD RESOLUTION/FET. INPUT	A	4 N	N	C	5
PRECISION PEAK VALUE CCT/MOD./NODE/UP TO 2KHZ	A	1 N	N		

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LISTENING HOURS/DEPTHS/NIGHT/WALL		3		
		1		C
JFET.-INPUT OA./EPROM./OTA./COUNTER/TRANSMISSION	AD	5	N	N
MEASURE/PHASE ANGLE/VISCOMETER/HIGH RESOLUTION	AD	3	N	N C
LOCK-IN AMP./DETECTOR/DIELECTRICS/200HZ TO 200KHZ	A	4	N	N C
DETECTOR/WARM IRON CALORIMETER/SLAC/BEAM	A	6	N	N C
VCO./VFC./FAST RESPONSE/LOW ERROR/>2 DECADES/OA.S	A	5	N	N C
ADC./MAGNETIC FIELD/UA1/MATCHING/TRANSCONDUCTANCE	A	5	N	N C
ECL./TAC. SPECTRUM/DIFFERENTIAL AMP./ANALOG SWITCH	DA	6	N	N C 61
ZENER-REGULATED +-5V/CALIBRATION/VOLTAGE FOLLOWER	A	3	Y	N 45
THD./PSU/INPUT SWITCHING/CD. PLAYERS/BUFFER/STEREO	A	6	N	N C
PANEL METER/100UA/LOW NOISE DIODES/1KV RANGE	A	6	Y	N
POWER-SHUTDOWN CCT/400HZ SWITCHING AMP./DIVISION	A	9	N	N C
FIELDS/EHT./CURRENT/ION/AVALANCHE/TRANSRESISTANCE	A	9	N	N C E
EXCITER/COMPARATOR/AUDIO AMP./BUTTERWORTH LPF.	AD	6	N	N C 25
SENSOR/AIR POLLUTION/STANDARD GAS MIXTURES	A	7	N	N C
TEMPERATURE SENSOR/DATA TRANSMISSION/POTENTIOMETE	AD	7	N	N C
4 DIVIDE-BY-2 STAGES/EMITTER-COUPLED "OSCILLATOR"	A	1	N	N C 60/88
DAC./DC. MAGNETISATION LOOPS/MAGNETIC RIBBONS/ADC.	A	6	N	N C 8
SH. CCT/COMPARATOR/GOOD ACCURACY/FAST	A	5	N	N C
SMP/CNV/DUAL-SLOPE ADC./INTEGRATOR/COMPARATOR/OA.	AD	4	N	N C
LONG DISTANCES/RS-232/TRANSFERRING/PC./RF./75OHM	AD	8	Y	N
QAM./FREQUENCY DIVISION MUX.ING/OA.S/ECG.S/DATA	AD	5	N	N C
EXCITING RESISTANCE BRIDGES, DETECTING/BALANCE	AD	3	N	N C
NATIONAL/EXCLUSIVE-OR (XOR) PHASE DETECTOR/CUTOFF	AD	2	N	N C
DYNAMIC RANGE OF ~3.5 DECADE/EM./HADRONIC/DETECTOR	A	7	N	N C 12
RECTIFIER/PEAK STORE/DISCRIMINATOR/DIFFERENTIATOR	AD	2	N	N C
TRIGGER/PROPORTIONAL TUBES/PHOTONS/MIPS/DETECTOR	A	8	N	N C
SERVO OA./NOISE- & CLICK-FREE TURN-ON & TURN-OFF	A	9	Y	N
TIMING & SEQUENCING/OA./FILL/DATA CYCLE/16-1 MUX.	AD	9	N	N 12
ROM./DATA ACQUISITION/PROCESSING/LOAD	AD	4	N	C
FT. SPECTROMETER/SPACE-CHARGE REGION	A	4	N	N C
TRANSCEIVER/FULL-DUPLEX/19.2K-BPS/COMMUNICATIONS	AD	1	N	N C
NOISE/NEGLIGIBLE/BLIP/PULSE RESPONSE/PHOTON FLUX	A	9	N	N C
TUNING RANGES/~100MHZ AT 2.2GHZ/RADIATION PATTERN	A	3	N	N C
FEEDBACK/JOHNSON NOISE/NYQUIST/NOISE TEMPERATURE	A	4	N	N
LINEARITY/0.25%/BW.S UP TO 28 & 40MHZ/SQUARE-LAW	A	3	N	N C 39
Q-SWITCHED, CAVITY DUMPED/JITTER AT <20PS/RF./OA.	A	3	N	N C
MICROPHONES/STRAIN GAUGES/20KHZ	A	1		
PICKUP/10DB BUFFER AMP./UNITY GAIN BUFFER/AUDIO	A	9	Y	N
MICROWAVE/2M RIG/IF./LO./MIXER/RADIO/DC. BIAS	A	3	N	N C
4-CHANNEL MUX./PEAK DETECTOR/RMS. TO DC. CONVERTOR	AD	5	N	N C
40HM/MOSFET./RELAY/REFERENCE/OA./135W/INTO 80HM	A	7	Y	N C
SCR./FLASHTUBE/LIGHT/FLASHBOARD/HV. PULSE/ARCING	A	5	N	N C
ADC./X-RAY SOURCE/PARTICLE BEAM/ANODE/CATHODE	AD	9	N	N C
STORAGE OSCILLOSCOPES/FF./SAMPLED & HELD	AD	3	N	N C
BUTTERWORTH FILTER/ANALOGUE GATE/500KHZ	AD	8	N	C
PHASE/QUADRATURE/DRIFT FREE	AD	5		C
VOLTAGE REGULATOR/COMMUTATION/300MA CONTINUOUSLY	A	1	N	N C

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ABSORBER/SUBSTRATE/ATTENUATOR/ELECTRODES	A	7 N	C	
BCD./RANDOM OR SEQUENTIAL ORDER/RS232/MEMBRANE	AD	5 N N	C	25
PDP-8L/COMPUTER/NMR./DATA/ACQUISITION/DIGITIZING	AD	1 N	N C	
SH./UNITY GAIN BUFFER/FET.	AD	1 N	C	
FET. INPUT/HEATERS/10V REFERENCE/RESOLVE 0.02DEG C	AD	2 N	N C	
SH./LOCK-IN AMP.	AD	3 N	C	
REFERENCE VOLTAGE/CONNECTOR/GENERATOR/MINICOMPUTA		7 N	N C	
ABLATION CELL/TRANSFORMER/DISCHARGE/SPECTROSCOPY	A	7 N	N C	25
LOW LEAKAGE DIODE/TRANSMITTER GATING	DA	4 N	C	
DAC./INTEGRATOR/DIGITAL VALVE SEQUENCE PROGRAMMER	A	3 N	N C	
STRIP/SO\2/FLAME PHOTOMETRIC DETECTOR/LED./FV-FPD	A	6 N	N C	
LATCH/CATHODE/GATE/ANODE/TRIGGER VOLTAGE/PLAYERS	A	1 N	N	57
FILTER/FIRES (CONDUCTS) DURING POSITIVE EXCURSIONS	A	3 N	N C	
FILTER/TRANSMISSION WEDGE/HARMONIC MOTION/SPRING	A	6 N	N C	
HF., HIGH-POWER/CASCADE/CASCADE/MULTIPLE FEEDBACK	A	5 N	N C	
RS232 INTERFACE/SYSTEM BUS/SH./CMOS./FEL	AD	7 N	N C	
SCATTERING CHAMBER/HIGH LOOP-GAIN/CABLE DRIVER	A	3 N	N	
PIEZO SOUNDERS/TARGETS/GUN/PULSE STRETCHER/BURST	A	5 N	N C	
DETECTOR/ROW ACCESSED/PAL./TIMING/WAVEFORM/COUNTEID		5 N	N C	
+4V/LED.S/OPTOCOUPERS/PHOTODIODES	A	1 N	C	
STABILITY/100PPM/JOSEPHSON JUNCTION/SQUID./MOSFET.	A	4 N	N C	
KEYBOARD/BATTERY/FSK./IR. LED.S/CMOS.	D	4 N	C	
PHOTODETECTOR/SENSOR/MONOCHROMATOR/LIGHT/DVM.	AD	5 N	N C	
CURRENT TRIP POINTS/SPEAKER "Z" TESTER/IMPEDANCE	A	2 N	N C	
NRZ./JK FF./DATA/FO/LED./CONVERTING/PUM/PCM./LIGHT	D	4 N	N C	
LOUDSPEAKER POWER/POWER AMP./MONSTER/+65V/-65V RAWA		3 N	N	
FORWARD BIASED/DISCHARGE/GATE-SOURCE JUNCTION	A	6 N	N C	12
MESSAGE FORMAT/MICROCONTROLLER		6	C	
CW. RIG/MOD./REVISED/SIDETONE-CCT	A	5 N		
BRIDGE RECTIFIER/GERMANIUM TRANSISTOR	A	1 N		
HIGH-CURRENT/BRIDGE RECTIFIER/VOLTAGES	A	2 N		
SPICE/IBM PC. XT/CAD./MOUSE/SOFTWARE/SCHEMATIC	A	8 N	C	
EMG./BASE-LINE DRIFT/ECG./60HZ/INTERFERENCE/GATE	AD	4 N	N C	
OA.S/BIFET./FIA/2.5 DIGIT ICL7106/INTERSIL/METER	AD	2 N	N C	E
DISPLAY LEVELS/TRANSFER FUNCTION/LINEAR/RMS.	AD	6 N	N	
NOVICE BAND/BFO./HF./SIDETONE/TIMER/FET.S/RF. AMP.	A	3 N	N C	
CROSSOVER NETWIRK/HF./LF./75W/PROTECTION RELAY	A	9 N	N C	
PHASE SHIFT/DIFFERENCE/AF./ZCD.S/OA.S/D FF./RLC.	AD	5 N	N C	
OSCILLATOR/AFTER/NO SIGNAL FOR SOME TIME/RESUMED	AD	1 N	N	
INTERFACING BBC/MEASURING/P-N JUNCTIONS	AD	5 N	C	
SELECTABLE RATE/4-WIRE/SOLDERING IRON/CONDUCTIVITY	A	4 N	N C	42
LPF.S/BOOTSTRAP LOW PASS/RC./THD./CARTRIDGES	A	6 N	N C	
INVERSION/HILBERT TRANSFORM/PHASE/SIDEBANDS/BW.	AD	7 Y	N	
TEXAS INSTRUMENTS/HIGH-SPEED/STABLE/GAIN & ZERO	AD	1 N	N	
AC. MILLIVOLTS/FET. INPUT AMP./1000V & 10A/DECIBEL	A	6 Y	N	
DRIVER/OPTOSWITCH/CAPACITOR CHARGING/SCAN CLOCK	D	2 N	N C	
TFKS239P/REHABILITATION/SENSOR/IR./HEAD CONTROL	AD	7 N	N C	
BW.S/200MHZ/FAST 2.5NS RISE & FALL TIMES	A	3 N	N	
NEGATIVE DC. CCT/EMERGENCY LIGHTING/INVERTER	A	4 N	N C	

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TUBE/RECEIVERS/AMATEUR/CW.	A	3				
128-INPUT/1 CHANNEL/FF.S/SHIFT REGISTER/LOW NOISE	AD	4 N	N	C	5	
MICROCOMPUTER/BIOELECTRICAL/DIFFERENCE AMP.	AD	6 N	N	C	25	
SOURCE IMPEDANCE/APERTURE TIME/SWITCH	A	5 N				
TONE-DECODER/BI-STABLE LATCH/CMOS./CARRIER/VCO.	AD	6 Y	N	C		
CCT SIMULATION/SPICE/OA.S/JFET. INPUTS/ELECTRODES	A	7 N	N			
BIPOLAR DEVICE		2		C		
ADDING THE INDUCTOR & RESISTORS/NF./IMPEDANCE	A	2 N	N	C		
MATCHED/PUSH-PULL/DIFFERENCE AMP.S/BUFFER	A	2 N	N	C	E	
POWER OA./FLOATING/LOAD/NEURONAL TISSUE/STIMULUS	A	7 N	N	C		
SYNTHESIZER/PRESCALER/PLL. FM. DEMODULATOR/SSB.	AD	4 N	N	C		
3-CHANNEL/PZT.S/RF. AMP./ENVELOPE DETECTOR/OA.S	AD	5 N	N	C		
BC./RECEIVERS/RADIO/PREEMPHASIS-DEEMPHASIS	AD	8 N	N	C	9	
PLESSEY/POSITIVE/NEGATIVE PLANE/HYDROGEN THYRATRON	AD	8 N	N	C	E/61	
WIPER/SIGNAL/UNITY GAIN/INPUT IMPEDANCE/~50KOHM	A	1 N	N			
SENSITIVITY/HIGH-GAIN/MOS./MISMATCH/GAIN OF 10	A	2 N	N	C		
OCTAL/SPRAGUE/TWICE THE RESOLUTION/PROM./AIRPAX	DA	1 N	Y	C		
HIGH-SPEED/TRIPHASIC VOLTAGE/TRIANGULAR/1HZ OR 5HZ	AD	5 N	N	C		
DIGITAL CONTROLLER/SWITCHING/VOLTAGE PREPROCESSING	AD	8 N	N	C		
TRANSIMPEDANCE MODE/CURRENT-FEEDBACK	A	4 N		C		
		2		C		
COMPUTER/100KHZ/COLLECTS/REDUCES/HEART/CONTRACTIO	AD	4 N	N	C		
DATA-GATHERING/PROCESS/TRANSMIT/PROGRAMMABLE/RAM.DA	DA	5 N	N	C		
INPUT TRANSISTOR/AUDIO/HIGH FIDELITY/MEASUREMENT	A	9 N	N	C		
5-15V/VARIABLE/AUTOMATIC/ELECTRONIC SWITCHING	AD	3 N	N	C		
DYNA PAT-5/HAFLE DH-101/CROWN IC-150/AUDIO/A.V.A.	A	9 Y	N			
QUADRATURE-PSK. (QPSK)/INTERDIGITAL TRANSDUCER/IDT	AD	8 N	N	C		
RS-232-C/TEMPERATURE OR LIGHT INTENSITY/CX/SWITCH	AD	7 N	Y			
AMATEUR RADIO/MICROPHONE/PTT./HANDI-TALKIES/~\$40	A	3 Y	N	C		
DECODE MORSE/AUDIO INPUT/CONTROLLER JACK	A	3 N				
MODULATE/BALANCE/AXIAL LOAD/GAIT/UV. RECORDER/REED	A	9 N	N	C		
SPIKES/IF. FILTER/VOWELS/PRE-EMPHASIS/BC./RECEIVER	A	5 N	N	C		
PWM./250KHZ CARRIER/OA./COMPARATOR/OPTO-ISOLATORS	AD	2 N	N	C		
OPTOISOLATOR-COUPLER/TRIAC/80HM SPEAKER/117V AC.	A	3 N	N	C		
BRIDGE/OA./HEATING	A	1 N				
WEINBRIDGE OSCILLATOR/WAVEFORM/RC.	A	1				
		1				
DETECTED/QUAD COMPARATOR/TRANSDUCER	A	1 N				
FOLLOWERS/CONVERTERS/CLASS-A/CLASS-AB	A	7 N		C		
BRIDGE CCT/MEASURING/0 TO 50	A	3				
AVERAGER ANOPS-101/SPIKE TRAINS/DATA/LUNG EFFERENT	AD	6 N		C		
BIOTELEMETRY/40KHZ BW./OPTOELECTRONIC/LIGHT	AD	6 N	N	C		
PULSE/TAC./MONOSTABLE	AD	7 N	N	C	42	
HEAT SINK/FILTER CAPACITOR/30000MF/RECTIFIER	A	2 N	N			
CRO./DISPLACEMENT, VELOCITY & ACCELERATION/TIME	A	3 N	N	C		
OA.S/FM. DETECTION/ECG./PID. CONTROLLER/FEEDBACK	A	6 N	N	C		
CLIPPER/1 SHOT/VOLTAGE TRIGGER REFERENCE/ECG./QRS	A	2 N	N	C		
WHEATSTONE BRIDGE/VARACTOR DIODE/ELECTRONIC DICE	AD	5 N	N	C		
PS./ZENER/OUTPUT POWER OF 100W/~3.5A RMS./LOAD	A	4 N	N		33	

Sheet1

CURRENT-LIMITING/REVERSE BIAS PROTECTION/METER	A	3 Y	N	C	
LUMINANCE/CHROMA/SH./6-BIT FLASH ADC.	DA	9 N	Y		
NOT RECOMMENDED/BASE CURRENT/DUT./QUIET/BETAS	A	2 N	N	C	48
LASER DOPPLER VELOCIMETRY (LDV)/BLOOD FLOW/ADC.	A	2 N	N	C	
LED./ANTENNA/REED RELAY/OA./SPEAKER/RF./TRANSISTOR	A	2 Y	N	C	
WIND SPACECRAFT/INTERFACE IO./PHA. LOGIC & CONTROL	AD	9 N	N	C	
OA./GREEN/RED/SIMPLE/FAULTY/VOLTAGE/CLOCK/WARMING	AD	1 N	N	C	
CMOS. EPROM.S/AUTO- & CROSS-CORRELATION/VIBRATION	DA	6 N	N	C	
TRIGGER POINTS/SENSOR/FROST/SPRING/COLD WEATHER	A	3 Y	N		
SUMMATION/TTL./IO./CLOCK PULSES/START/PATTERN	AD	2 N	N	C	
DWI/BARGRAPH VU METER/DRINKING DRIVERS	AD	4 Y		C	42
IO. PORT/LED.S/AUTOMATED/SOFTWARE/DATA	AD	6 N		C	
MEASUREMENTS/FET.-INPUT AMP./SH./50KV/1%	A	3 N	N		
SINGLE EYE CYCLIC OPTICAL READOUT/LED./ADC./CCD.	AD	5 N	N	C	28/61
LINEAR PHASE-VOLTAGE RELATIONSHIP/RANGE/+ -2PI/IF.	AD	2 N	N	C	7
COLOR CORRECTION/DISTORTION/PALETTE/INVERTED VIDEO	AD	8 Y	N	C	
FET. OA./FLASHING LED. PILOT LAMP/AUTO FADE	AD	4 N	N	C	
OPTOISOLATOR/FIBRE OPTIC CABLE/ASYNCHRONOUS/DATA	AD	3 Y	N		AJ
PULSES/SPECTROSCOPY/SPACE/UHF./SNR./FIELD/IMAGING	AD	5 N	N	C	25
PROBE/TEMPERATURE/CONSTANT CURRENT/IC'S	A	2 N		C	
UP./DECODING/BUS/SAMPLED/10KHZ/UTTERANCES/RECORDED	AD	9 N	Y	C	
SAMPLE/TIMER/ZERO-CROSSING SSR.	AD	6 N	N		
PHASE BEHAVIOR/SHIFT/MICROCAP II/GAIN/RESPONSE	A	4 N	N	C	
DIFFERENTIAL/DIAPHRAGM/-3MBAR TO 34 BAR/SENSITIVE	A	3 N	N	C	
OPTOGALVANIC SPECTROSCOPY/LOG/WAVELENGTH MARKERS	A	5 N	N	C	
BRICK BOX/NICD. BATTERIES/CELLS/PS./CAR/HOME	A	4 N	N	C	
RADIO BC.S/DIGITAL FILTER/AUDIO INTERFACE RECEIVER	AD	6 N	N		AJ
ENDURANCE/MUSCLE/REHABILITATION/STRENGTH/DYNAMIC	AD	6 N	N	C	
HIGH-SPEED OA./MOSFET.S/20MHZ OSCILLATOR	AD	8 N	N	C	
TAC./ECL. FF./SH. CAPACITORS/ADC.	AD	4 N	N	C	
TRANSISTOR/CHANGEVER RELAY/PERISTALTIC PUMP/O ₂	A	3 N	N	C	E
EPROM./8-BIT DAC./OA./4-BIT ADDER/DIP. SWITCH	DA	8 Y	Y	C	
MONOSTABLE/OA./SUMMER/ADC./MOD./1811A/10GHZ	AD	4 N	N	C	
UTC/KEYPAD/KEYBOARD/SWITCH/STATUS/COMMON-CATHODE	DA	9 N	N	C	
SIGNAL-STRENGTH METER/6.2MHZ AUDIO SUBCARRIERS	A	5 Y	N	C	
RAILROAD/HEXFET. OUTPUT DRIVERS/REALISM/RAMP RATE	A	4 Y	N	C	
78XX/79XX/HALF-WAVE/FULL-WAVE RECTIFICATION/DIODE	A	8 Y	N	C	
CMOS./DARLINGTON-AMP./OSCILLATOR/125KHZ/AUDIO	AD	4 Y	N	C	
PZT.S/CRYSTALS/CARDIAC/HF. SOUND/IMPEDANCE/AM.	A	5 Y	N	C	
SET FUEL-LEVEL TRIP POINT/INDICATOR LAMP/FLASHES	AD	9 Y	N	C	
UHMW/ON-BOARD COMPUTER/CYBER LINKS/MOTOR/RS-232C	A	7 N	N		
UP./MICROCOMPUTER DATA-COLLECTION/AD7574 ADC./CPU.	AD	6 N	N	C	
PRESSURE SENSOR/DIFFERENTIAL AMP./GAUGE/MERCURY	AD	8 Y	N		
JFET. INPUT/MEMORY/CALIBRATOR/LF. OSCILLATOR/2S	AD	3 N	N	C	
FET.-INPUT/CCD./SSD/MWPC./DETECTORS/BETA-PARTICLE	AD	6 N	N	C	5/7
CCITT. V.23/BCD. SWITCH/INTERFACE/TELEPHONE LINE	DA	4 N	N	C	
COMPUTER/COMMODORE 64/COUNTERS	AD	5		C	42
MECHANICAL/ELECTRICAL CONVERSION		2		C	
CAPACITIVE TRANSDUCERS		1		C	

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OA.S/ACCURACY/0.055% OVER A 2-DECADE RANGE	A	1	N	N	C	
PADUKONE-MULAWKA-GHAUSI/Q-FACTOR/LOW-POWER OA.S	A	5	N	N	C	16
2-BRANCH/OPERATION SAFETY/EDM/GALLIUM/ELECTRODE	A	3	N	N	C	
HEAT TAPE/SENSE/THERMOMETERS/HYPERSENSITIZED	A	6	Y	N	C	
ON THE SAME LINE/TONE DECODER/OPTOISOLATOR-COUPLER	DA	5	Y	N	C	
SOLENOIDS/BUFFERED LINES/IO./DRIVER/AMP./COMPUTER	DA	6	N	N	C	
IR. LED./DETECTOR/CURRENT-TO-VOLTAGE CONVERTER	A	2	Y	N		
MICROCOMPUTER/SERIAL/PARALLEL/DATA/INTERFACE/PORT	DA	7	N	N	C	
MEASURING AMP. LINEARITY/PEAKING TUNED STAGES	A	7	Y	N	C	
SCR./HIGH-CURRENT/CONTINUOUS DUTY/BRIDGE RECTIFIER	A	4	N	N	C	
SHUN CAPACITOR/SINGLE-PHASE/OVERCURRENT PROTECTION	MA	8	N	N	C	
ASTABLE MULTIVIBRATOR/DIFFERENTIATOR/SWITCHING	AD	2	N	N		
DIODES/POSITIVE/NEGATIVE/PACKAGING/TRANSFORMER	A	5	N	N	C	
WORKSTATION/CAD./CAE./SSI/MSI.	DA	6			C	
BASIC PROGRAM/SATELLITE WEATHER PICTURES	AD	7	N	Y		
SCINTILLATION COUNTERS/DATA COLLECTION/HUGE/SENSOR	A	9	N	N	C	
FET.-INPUT AMP.S/COMPARATORS/4 RED LED.S/IR./VHF	A	6	N	N	C	4/2
BATTERY CHARGER/RIG/LM338K/CHOKE/BY-PASS/MONITORS	A	2	N	N	C	
UPPER/LOWER THRESHOLD/SUCCESSIVE-APPROXIMATION	A	6	N	N	C	61
AUDIO SIGNAL/HI-FI/COMMUNICATIONS/AC.	A	4	Y	N		
LV./SOLID-STATE/FUSE/METER/SWITCH	A	2				
1 OR MORE/OSCILLOSCOPE/TIMEBASE/RTTY./SAWTOOTH	AD	1	N	N		
TRIANGLE-SQUARE-WAVE VCO./200HZ TO 200KHZ/RESISTOR	A	5	N	N	C	
<\$10/NATIONAL SEMICONDUCTOR/3-TERMINAL/DIODE/RC.	A	3	N	N	C	39
GENERATORS/SOLAR PANELS/AMBIENT-LIGHT INTENSITY	AD	2	N	N	C	
VOLTMETER/CONSTANT-CURRENT LOAD/2.5A/1MIN TIMER	A	7	Y	Y	C	
NEC UPD7720 DSP. MICROCOMPUTER/DIGITAL FILTER/EVM	DA	9	N	N		
CURRENT GAIN/PNP/NPN/DRIVER/INVERTING AMP.	AD	3	Y	N	C	
RETRIGGERABLE/TRIGGER/CABLE SEGMENT/PORT/LOGIC	DA	5	N	N	C	
PROTECTION/TIMER/WARNS OF/POWER FAILURE/PC. PS.	DA	9	N	Y		
INTERDIGITATED/COMPARATOR/LOW-BATTERY/PLUMBING	A	3	N	N		
4 MAJOR CLASSES		2				
DAA/DIFFERENTIAL AMP./TRANSMITTED TONES/FCC	DA	7	N	Y	C	
RASTER BENDING/REMOVING EVEN-HARMONIC FREQUENCY	DA	1	N	N	C	
FLASHING THE LED./TRAIN OF PULSES/PETROLEUM/GAS	A	1	N	N	C	
50W/80HM/PS./PREAMP./OA./FEEDBACK/LONG-TAILED PAIR	A	5	N	N	C	
PULSE WIDTH TO AMPLITUDE CONVERTER/BUFFERS/CURRENT	TA	5	N	N	C	12
MICROCOMPUTER/ADC./CRT. DISPLAY/INTERFEROGRAM/FFT.	AD	5	N	N	C	
VOLTAGE DIVIDER/LPF./NOT USE ACTIVE	A	7	N	N	C	
DESIGN DATABASE/ASIC. TESTER/SIMULATOR :SPICEPLUS	A	4	N	N	C	4
RF./E-FIELD PROBE/WAVEGUIDE/CAVITY/VXO/TVRO./VSWR.	AD	5	N	N	C	
COMPUTER/RADIO-CONTROL/MOTORS/PWM.	A	3	N		C	
DISCONNECTS/SPEAKERS/EASY-TO-BUILD	AD	5			C	
N CHANNEL JFET./DRAIN/GATE/ON/OFF	A	1	N			
COMPARATOR/LOGIC STATE/CMOS./LOW-POWER SCHOTTKY	DA	2	N	N	C	
SENSOR/ANTILOG GENERATOR/RADIANT FLUX DENSITY/CELL	A	9	N	N	C	39/91
SERIES RESONANT CCT/TRANSCUTANEOUS RADIO LINK	A	2	N	N	C	
HEADPHONES (ANY IMPEDANCE)/TUNING/AERIAL	A	6	Y		C	
DIODE-RING MIXER/ATTENUATOR/COUPLER	A	1	N			

Sheet1

PHASE-DIFFERENCE NETWORKS/CORE	A	2 N	C	
OPTOCOUPERS/ANALOG SWITCH	AD	2 N	C	
MONITOR/CHARGER		1		
SILENCE/CONTACT/DOORKNOB		2		
HV./HF./GAS	A	9	C	42
2S/50MS/BW. IS 4KHZ/PULSES/MONOSTABLE	AD	1 N	N	C
RF./MIXER/CRYSTAL OSCILLATOR/BROADBAND/AUDIO	A	3 N	N	
CONSTANT CURRENT/SELF HEATING/IGBT./TEMPERATURE	A	4 N	N	C
HANDHELD TRANSCEIVER/RF./ANTENNA SWITCHING/70W	A	3 N	N	
PS./NEON SIGN TRANSFORMER/SELF-FIRING VOLTAGE	A	6 N	N	C 28
OSCILLATORS/FILTERS/GAIN-BW. PRODUCT (GBP)	A	5 N	N	C
SWITCHING PS.S/SNUBBER/DC.-TO-DC. POWER CONVERTER	A	9 N	N	C
DEVICES E4160/RF./INTERFERENCE/HEART/CARDIAC/MOD.	A	3 Y	N	C E/39
TRIMMED/RESISTOR/SOURCE/CD. PLAYER/MOD./CD-100X	A	4 N	N	
LINE MATCHERS/MILLIAMMETER/TRANSMITTER/SWR. METER	A	3 N	N	C
GELLED-ELECTROLYTE/INTERNAL RESISTANCE/REGULATOR	A	2 N	N	C
KRYTRON SWITCH/MODULATOR/LASERS/POCKELS	A	4 N	C	E
PADDLE/DASH-DOT RATIO/3:1/MERCURY	A	3		
CURRENT GAIN/"HFE"/"BETA"/COLLECTOR/BASE/EMITTER	A	5 N	N	
INTEGRATOR/ARRAY/HV./HIGH GAIN LOOP/PROTECTION CCT	A	4 N	N	C
MINIATURE OUTPUT TRANSFORMER/POLARITY/LEAD	A	1 N	N	C
HIGH-GAIN/RF. MIXER/HF. MULTIPLICATIVE	A	6 N	N	
NEGATIVE/ALC CONTROL CCT/KENWOOD TS-830/HAMS	A	1 N	N	C
WATER/ADSORPTION/MASS MEASUREMENTS/SENSOR/LAYER	D	9 N	N	C
PREAMP./CCD.S/1-T TAIL CANCELLATION/RC. NETWORKS	A	9 N	N	C
ADC./NUMBER-BASE CONVERSION/HEXADECIMAL/DVM.	AD	3 Y	N	C
RECEPTION/FM. RECEIVER/88-108MHZ/BC./48HR TO 1YR	A	4 N	N	C
CONTRACTING/LENGTH/MOTION/>40 TONS PER SQUARE INCH	AD	7 N	N	
BAUD/HAYES-COMPATIBILITY/COMPUTERS	A	3 N		
MODULATOR CCT/TRANSMITTER/ALERTER	AD	7 N		
RF. GATE/TTL./LO. RECEIVER	AD	9 N	N	C
LPF./PULSED TRANSMISSION LINE/TRANSIENT ANALYSIS	A	5 N	Y	C
TRACK-&-HOLD AMP.S/PHOTOMULTIPLIER	AD	4 N		C
REPEATER/RIG	A	4		C
CIGARS FRESH/CADMIUM-SULFIDE PHOTOCCELL	AD	1 N		
EXPOSURE/PULSES/FLASH UNIT/PHOTOGRAPHY/REFLECTORS	A	4 N	N	C E
TRANSMIT RELAY/RF. CHOKE/RF./RIT/SPLIT-FREQUENCY	A	1 N	N	
BIOGRAM/IMAGE/TELESCOPE/TRANSDUCERS/LIFE/STARS	AD	6 N	N	C 48
FREQUENCY RESPONSE THAT INCLUDES DC./TRANSFORMERS	A	7 N	N	C
TRANSIENT VOLTAGE SUPPRESSOR	A	5		
SSB./CW./ZENER DIODE/RELAY CONTACTS/CURRENT	A	1 N	N	
IC RF. AMP./210MHZ/330MHZ/350MHZ/LC. PHASE SHIFT	A	3 N	N	
TRIGGER/2KV PULSE/2.0NS/BLUMLEIN/ND:YAG	A	3 N		C
BELL LABS/JFET./MOSFET./PNP/NPN/JUNCTION	A	4 N		
SQUARED & DIFFERENTIATED/VOLTAGE/MULTIPLIER	D	6 N	N	C E
FERRITE TOROIDS/TANK/COUPLING CCT/FAST RECOVERY	A	5 N	N	C
2V DC. RANGE/CAPACITOR/SENSITIVE/SIGNAL LEVEL	A	1 N	N	
AMP./FEEDBACK/SWITCHING TRANSISTOR/RF. CHOKE/DIODE	A	7 N	N	C
TIME TO RECHARGE/LAMBDA DIODE/LED./FET.S	A	2 N		

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		5		
HIGH-EFFICIENCY/HIGH-CURRENT		2		
KEY/PTT./VOX RELAY/NPN TRANSISTOR/RESISTOR/JACK	A	1 N	N	
AMP./TUNING DIODE/BUFFER/JFET.	A	4		
SW-1 MEDIUM-SW. CW. EXCITER-TRANSMITTER/UP TO 2.5W	A	1 N	N C	
BETWEEN 88 & 108MHZ/FIND YOUR CAR/LOCATE A CHILD	A	3 Y	N C	
DATA ACQUISITION/TESTERS/SOFTWARE TECHNIQUES	AD	5 N	N	
GLASS CONTAINERS/RARE GASES/VACUUM/XENON/DISCHARGE	A	5 N	N C	
8035/UC/MICRO/INTERFACE/PROGRAM MEMORY/INSTRUCTION	D	3 N	Y C	
DIODES/RECTIFIERS/ZENER/LOW-IMPEDANCE	A	2 N		
VFO. FOR TRANSMITTER OR RECEIVER	A	1	C	
FF./DELAY CCT/1-SHOT/SAS/PARTICLES/WIRE/TARGET	DA	7 N	N C	
PLESSEY/8051-BASED UP./MASKED ROM./RGB./COMPOSITE	DA	1 N	N C	
BURGLAR-PROOF/CLOSED-LOOP/OPEN-LOOP	DA	3	C	
VARIABLE CAPACITOR/2 9V BATTERIES/RF. AMP.	A	1 N	N	
MULTIVIBRATOR/LED. DRIVERS/FLASHES/TYPE D FF.	DA	2 N	N	94/97
DAC./68705P3 SINGLE-CHIP COMPUTER/LONG DISTANCES	AD	2 N	Y C	
OA.S/PC./MICROCOMPUTER/RESISTANCE/COORDINATES	AD	4 N	N C	26/42
TEST GEAR/POWER/VOLTAGE DIVIDER/COAX	A	2 N		
TRANSCIVE SWITCHING/PIN DIODE/RELAY	A	3 N	C	
CALIBRATE/TEST GEAR/SHACK/POWER LEVEL/VOLTMETER	A	2 N	N	
QRP RIG/METER/2 OR 3W OUTPUT/SWR./TRANSMATCHES	A	1 Y	N	
TTL./HEATER/"BURN-IN"/SEVERAL KILOVOLTS/25NS/PULSE	AD	3 N	N C	
DRIVE TRANSISTOR/CONVERTER PS./ELECTRODE SURFACE	A	2 N	N C	
THD./DIRECT-COUPLED/CURRENT MIRROR/COMPENSATION	A	7 N	N C	
RF./ZENER DIODE REGULATOR/TOROID COILS/INDUCTORS	A	1 N	N C	45
CD-NI BATTERIES/72MHZ/PULSED/RADIATING POWER/10MW	A	4 N	N C	42
TRANSMITTERS/MATCHING TRANSFORMER/RF./SOLID-STATE	A	2 N	N	
TOROIDAL TRANSFORMER/TRIMMERS/METER/FM.	A	1 N		
JFET. IA./DIODES/CLOCK FREQUENCY IS 100KHZ	A	1 N	N C	
SMART/INTRUDER/THIEF/SOUNDER/TIMER	A	2		
DIODE NOISE LIMITER/SUPER-DIODE	A	1		
STATIC CRASHES/RECEIVER		1		
ZERO-POLE CANCELLATION/LENGTH/AMPLITUDE/LOGIC	AD	9 N	N C	
ADC.-DAC./(DE)MUX.S/COUNTERS/SHIFT REGISTERS/LOGIC	DA	6 N	N C	
INEXPENSIVE/TV./PLAYBACK/PRE-AMP./HEAD SWITCHER	A	4 Y	N C	
PMT./COMPUTER/SINGLE PHOTON COUNTING/TC-SPC	AD	7 N	N C	
INTEGRATOR/3.3KV 2NS/NEGATIVE FAST PULSE/JITTER	A	5 N	N C	
DPDT./RF./TRANSISTOR/PIEZO SOUNDER/HF./TO >200W	A	1 N	N	
30M/NEW WARC. BAND/TRANS-RECEIVER	A	3 N		
BATTERY CHARGER/VOLTAGE REGULATOR		2	C	
FULL WAVE RECTIFIER/INVERTER/ECG./QRS COMPLEX/AGC.	AD	8 N	N C	
HV./PULSE TRANSFORMER/SCR.S/CAPACITOR DISCHARGE	A	5 N	N C	39
NOISE/LAN./DATA TRANSMISSION/RECTIFIER/INTEGRATOR	AD	1 N	N C	E
IMPEDANCE/ATV./TRANSMITTER & ANTENNA/CONDUCTOR	A	2 N	N C	
AE/WEIGHTED COUNT-RATE/THRESHOLD/LASER	A	6 N	C	
N-CHANNEL JFET./RANGE/1000UF/1MOHM	A	4 Y	N	
MODULATION/SKEWED DATA SIGNALS/COUNTER	DA	7 N	C	
GAS/ELECTRONS/BEAM OF POSITRONS/SENSE WIRES/3KV	A	6 N	N C	

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<35MW/GAIN OF 4.5/DRIVER CCT/HYBRID/SCA/FOLLOWER	A	3 N	N	C	
TIME-OF-DAY CLOCK/VIC 20 COMPUTER	A	4			
VOLTAGE-REFERENCE ZENER DIODES/BRIDGE	A	7 N		C	42
MUX./LATCH/DAC.S/PROM./LSI./SH., COMPARATOR & OA.	AD	5 N	N	C	
WESTCODE/680UF/RESONANT-CHARGING/ENERGY-STORAGE	A	4 N	N	C	
DRAM./ADDRESS/ROM./ZYMOS/SMALLER/MATH COPROCESSOR	D	9 N	N	C	
FOLLOWER/DIFFERENTIAL INPUT/STABILITY	A	3 N		C	
ELECTRODE/ELECTRON DENSITY/ROCKETSONDE	A	1 N		C	
REACTIVE IMPEDANCES/PHASE SHIFT/FEEDBACK	A	3 N		C	
RF. STAGES/RIG/VARICAP DIODE/ECL. DIVIDER	AD	3 N			
SAMPLING/SENSOR/AMPLIFICATION & CONDITIONING/BEEP	DA	6 N	N	C	
60PS/10KHZ/3W/820NM/OSCILLOSCOPE/JITTER OF <+-10PS	A	3 N	N	C	
PSD'S/<5NM/LIGHT BEAM/INTENSITY/ELECTRODE GAPS	A	6 N	N	C	
BASES/DIFFERENTIAL PAIR/BURIED IN NOISE/RF./CAD.	A	3 N	N	C	
ADC./SSD'S/COMPUTER/PROCESSING/FET./OA.S/NOISE	AD	7 N	N	C	
FILTER/IF. AMP./BLOCK DIAGRAM	AD	8			
CONTINUOUSLY VARIABLE/SHARP, PRECISE/LEVELS/OA.	A	2 N	N	C	E
TUNED RAMP GENERATOR/CAPACITOR/STOP/START/JITTER	AD	4 N	N	C	
SOLID-STATE/TUNED CCT/200MV P-P AT 50OHM/TUBE CCT	A	5 N	N		
TRIGGER/PS./GRATING SPECTROMETER/LIGHT/CUVETTE	A	2 N	N	C	
HOLDING CAPACITOR/PHASE MARGIN/VOLTAGE FOLLOWER	A	2 N	N	C	
SINE-WAVE OSCILLATOR/FREQUENCY RESPONSE	A	6 N		C	
LPF./AC. AMP./VOLTAGE SOURCE/ELECTRODES	AD	6 N	N	C	
GRAPHICS KERNEL SOFTWARE/COLOR/VIDEO RAM./NATIONAL	DA	3 N	N	C	
2KV/RISETIME <2NS, JITTER <100PS/30A LOAD CURRENT	A	6 N	N	C	
6502 UP./EXPANSION SLOTS/CRT./BLANKING	DA	4 N	N		
PHOTOGRAPHS/CAMERAS/PICTURES/LIGHT/HARSH SHADOWS	A	3 Y	N	C	
TEMPERATURE/RELAY/RESISTANCE/LIGHT LEVEL/OA.S	A	2 Y	N		
TOF./NIM MODULE/DEAD TIME/START PULSE/STOP/LASER	AD	9 N	N	C	
PHASE DETECTORS/0.12NM/LASER/MICROBOT/MICROSCOPE	A	8 N	N	C	
CURRENT DETECTOR/LV. SUPPLY/ERROR SIGNAL/~10MHZ	A	2 N	N	C	
DRUMSKIN/COMBINATIONAL TONES/SHIP STABILITY/OA.	A	5 N	N	C	88
DIODES/LOW TEMPERATURE DRIFT/DRIFTS OF <0.1%	AD	2 N	N	C	42
MEMORY MAPPED IO./8-BIT UP.	D	2 N		C	
IA./ACTIVE FILTER	A	5 N		C	
RESISTOR/BIPOLE UNDER TEST (BUT)/TRANSIMPEDANCE	A	6 N	N	C	
MASTER/ETHERNET/CHEAPER NET NODE/LAN./NIC	D	7 N			2
BUS-INTERFACE UNIT (BIU)/CMOS./416MBITS-S/CRC/NRZ.	DA	5 N	N	C	
ON-LINE MONITOR/PULSE TRAIN/STOP CLOCK/CRID/TPC.	AD	9 N	N	C	
HIGH EFFICIENCY AT HF.S/82.64%/MOSFET./PWM. CUK	A	4 N	N	C	
MATCHING NETWORKS/NF./COIL/GAIN	A	1 Y		C	
HF./CLASS-E TUNED POWER AMP./EFFICIENCY/93%	A	8 N	N	C	
THYRISTOR FIRES/PHASE ANGLE/POWER/POTENTIOMETER	A	1 N	N	C	
RECEIVER/MOD.S/<\$100/REJECTION OF/INTERFERENCE	A	1 N	N		
SWITCHING MODE/1MHZ/ZERO-VOLTAGE SWITCHING/HF.	A	9 N	N	C	
HF., HIGH EFFICIENCY/LOADS/PWM. POWER/EMI.	A	5 N	N	C	
ANTIPARALLEL DIODE/TUNED/ZERO-VOLTAGE SWITCHING	A	7 N	N	C	
ZERO-VOLTAGE-SWITCHING AMP./1MHZ/PS.S/REGULATORS	A	9 N	N	C	
ESR./ESL/1MHZ/RIPPLE VOLTAGE/HALF-SINE WAVE	A	9 N	N	C	

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HF./0.5MHZ/PS.S/REGULATION/DC.-DC. CONVERTER	A	8	N	N	C	
INPUT TRANSFORMER/RF./SERIES TUNED OUTPUT FILTER	A	5	N	N		
CURRENT SWITCHES/FSK./THD. IS <0.5%/OUTPUT AMP.	A	8	N	N		
OPERATIONAL TRANSCONDUCTANCE	A	2				
TRANSCONDUCTANCE OA./CUT-OFF	A	1			C	
RECORD/PLL./SHAPE/SINUSOIDAL WAVEFORMS	AD	9	N		C	
TTL. COMPARATOR/PULSER/LEADING-EDGE DISCRIMINATORS	AD	6	N	N	C	
MOSFET.S/LIQUID DISCHARGE/PZT./DOWN COUNTERS	AD	9	N	N	C	25
BUFFERED/DRIVER/NETWORK/9:1 IMPEDANCE RATIO	AD	2	N	N	C	
EXCITER OUTPUT POWER/POWER/DISTORTION	A	4	N			
AC./DATA-COMMUNICATION/TRANSMISSION/PC.S/<\$100	AD	5	N	N	C	
QUADRATURE-PSK. (QPSK)/RF./PARALLEL FEEDBACK	A	3	N	N	C	11
AUTOCORRELATION/PADE/LF. SIGNALS/1-50KHZ/RC. LPF.	A	8	N	N	C	
OSCILLATOR/SH./ERROR AMP.	AD	5	N		C	
TDC./LEP/CHERENKOV LIGHT/UV./DETECTOR/ADC.	AD	9	N	N	C	
~100W/50OHM INPUT/OUTPUT IMPEDANCE/ENDOR/VSWR.	A	7	N	N	C	
RELAYS/PS./HF. INDUCTION/HEATING/MOSFET.S	AD	2	N	N	C	
EXAR/AUDIO/TONES/TU/MODEM/LED.S/COMPUTER & RADIO	AD	5	N	N		E
N-CHANNEL/RECTIFIES/AUDIO/TO PROVIDE POWER/SENSOR	AD	4	N	N	C	
MUX./CPU./ADDRESS/REDUNDANT/NIBBLE MODE	D	5	N		C	
MAXIBUS/DRAM./ADDRESS/DATA/PROCESSOR	D	1	N		C	
PULL THE CRYSTAL FREQUENCY ~800HZ/VFO./KEYED	A	1	N	N	C	
CLASS AB/LOW EFFICIENCY/DISTORTION/HI-FI/FET.S/TIM	A	5	Y	N		
VIDEO/NOT NEEDING A SEPARATE PS./75OHM/RGB.	AD	1	N	N		
OSCILLATOR/COIL/LOAD MATCHING CAPACITORS/RESONANT	AD	9	N	N		
PCM./VCR./MOD.S/DIGITAL AUDIO PROCESSOR	D	9	N		C	
DIRECTION-OF-ROTATION DETECTOR/CMOS. COUNTER/LCD.	DA	6	N	N	C	
DRIVER/TTL./FAST (50NS) RISE-TIME HF./1000V/SWITCH	AD	4	N	N	C	
SILICON DETECTORS/ENERGY/RADIATION/TO SHAPING AMP.	A	9	N	N	C	12
FLYBACK/TV. TUNER/CONVERTER TRANSFORMER/2 IC'S	A	3	N	N		
DOUBLE GATE-LENGTH/EQUIVALENT NOISE CHARGE (ENC)	A	9	N	N	C	39
ELECTROSTATIC ABSORPTION/IMPULSE NOISE/MFC/POWER	A	4	N	N		
DAST/"DIRECT ANALOG STORAGE TECHNOLOGY"/EEPROM.	AD	8	N	Y		
HV. DISCHARGE/INSULATION/METAL SURFACE/SENSOR/GAIN	A	6	N	N	C	
VCF/VOLTAGE CONTROLLED FILTER/MUSICAL/AUDIO/BLEND	A	5	N	N		
NCH METER/GATE SOURCE-VOLTAGE (GSV)/DRAIN CURRENT	A	7	N	N	C	
TRIGGER SYSTEM/LINEAR SUM AMP./ANALOGUE/1GEV	A	9	N	N	C	
CHERRY SEMICONDUCTOR/CLOSED/Q OF THE CCT CHANGES	A	1	N	N	C	
GATE CAPACITANCE/SHAPING AMP./INTEGRATE & SHAPE	A	6	N	N	C	
BIFURCATION/PIECEWISE-LINEAR V-I CHARACTERISTIC	A	9	N	N	C	12
CONTROLLER/DRIVER/ANTIPARALLEL DIODES/ZVS MODE/LC.	A	9	N	N	C	
VOLTAGE/LIQUID ARGON DETECTOR/STRIPS/TUBES/MWPC.	A	7	N	N	C	E
CCD. CAMERA/PIXELS/VIDEO/IMAGE PROCESSOR/CERN./JVD	AD	9	N	N	C	
MCZ/SBD/FZ WAFERS/FLOATING ZONE/INPUT CAPACITANCE	A	4	N	N	C	
SWITCH-CONTROLLED CAPACITOR/INDUCTOR/FM./PWM./DC.	A	9	N	N	C	
ACCURACY/SILICON DIODE/BATTERY POWERED/NOISE	A	5	N	N	C	
40OHM OR HIGHER/80HM/RESISTOR/VOLUME CONTROL	A	4	N	N		
HF. SWITCHING-MODE AMP.S/HV./220V/277V/CONVERTERS	A	9	N	N	C	
TTL./ECL./CMOS./COMPARATORS/LATCHES/BUFFERS/RS-232	DA	1	N	N	C	

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MOSFET./FUZE/LOAD/5A TRIP LIMIT/TURN-OFF TIME/32US	A	9	N	Y	C	
PULSE/CAD./SPICE/FAST TURNOFF/COUPLED INDUCTORS	A	7	N	Y	C	
EXTERNAL TRANSISTOR/24V LOOP VOLTAGE/CALIBRATE	A	1	N	N	C	
POWER-SENSE CCTS/NONVOLATILE/PRECISE/SUPPORT	AD	9	N	N	C	
VERY-LOW-DROPOUT REGULATOR/MOSFET./INDUCTOR	A	1	N	N	C	
SWITCH 2 OR 3 COMPUTERS BETWEEN/PRINTER/2 MODEMS	DA	7	N	Y		
BETWEEN FM. DETECTOR & STEREO MUX. DEMODULATOR	A	7	N	N	C	42
SWITCHING FREQUENCY/MAINS-DRIVEN/15W	A	7	N		C	
CRITICALLY DAMPED/BUTTERWORTH/BREAK FREQUENCY	A	2	N	N	C	
BRIDGE/DBM./COMPLEX IMPEDANCE/MEASUREMENT/VARACTOA		9	N	N	C	
PREAMP./CLASSIC CCT/HI-FI/QUIETNESS/HEATER VOLTAGE	A	1	N	N		
MICROCOMPUTERS/KEYBOARD/INPUT/MORSE CODE	D	9	N		C	
LINE VOLTAGE/ANTIQUE/TUNING/VOLUME/SPEAKER	A	1	N	N		
ZENER DIODE/PRESSURE TRANSDUCER	A	4	Y		C	
FLASHTUBE/HV./CROWBAR/SILICON INTENSIFIED TARGET	A	4	N	N	C	
PFN/PULSE/THYRATRON/SPARK GAP/RAIL GAP	A	7	N		C	
LOCATION/INTERRUPT/2/100NS ADDRESSING/ENABLE/FLAG	D	1	N	N	C	
PLD./CAD./GATES/MICROSYSTEMS/SEMICUSTOM IC'S/DATA	D	9	N	N	C	
SAD/DAS./ANALOG MUX./FRONT-END PROCESSOR/ADC.	DA	9	N	N	C	
CPU./MULTIPLE NMOS. PROCESSORS/ARBITER/120NS	D	5	N	N	C	
MONOLITHIC TRANSISTOR ARRAY/TEMPERATURE STABILITY	AD	4	N	N	C	
NEGATIVE IMPEDANCE/REACTANCE/PHASING CCT/MMIC./RF.	A	8	Y	N	C	39/52
VCO./1-SHOT/INTEGRATOR/CMOS. PLL./COUNTER/LPF.	AD	5	N	N	C	
MICROCOMPUTER/RAM./DIP. SWITCHES/PC./MUX.ED 8-BIT	DA	9	N	N		
CLOCK/12-BIT/NAND GATE/PROGRAMMED/AMSAT/MICROSATS	D	2	N	Y	C	
<\$325/MEMORY DECODER/INTERFACE/48-PIN CONNECTOR	D	7	Y	N	C	
SBC.S/EXPANSION	D	1				
LAYOUT/SEQUENCE/SELECT/TIMING/RESET/MATH/TRACES	D	4	N	N	C	E
PROGRAM	DA	2				
IO./DRIVE MOTORS/DIGITAL OUTPUTS/ANALOG INPUTS	DA	6	Y	N	C	
SMALL, FAST, & LOW-POWER VERSIONS/PC. AT	D	5	N		C	
COIL PREDRIVER/ACTIVE REFERENCE DETECTOR	D	6	N		C	
SCAN PULSES/KEY-PRESSED/CPU./DECODER	D	1	N		C	
COIL PREDRIVES/DOS./UP. BUS/FLOPPY DISCS/DATA	D	5	N	N	C	
FORMATTER/CURRENT-PULSE GENERATOR/LOW-PROFILE/PCBDA		3	N	N	C	
ISOLATION AMP.S/ANTI-LOG AMP.	A	4	N		C	
17MHZ CURRENT TO FREQUENCY CONVERTER/QUOTIENT/TV.	D	9	N	N	C	
LETTER S/CLICK/LED./ACTIVE RECTIFIER	A	1	N		C	
TAPE MONITOR LOOP/PREAMP./POWER AMP.		1				
SUPPORT LOGIC/HARDWARE/SOFTWARE/MBM/MASS STORAGEED		9	N	Y		
INEXPENSIVE/HEX/6/TTL./CERAMIC DISC/COUNTER	D	1	N	N		
INTENSITY/~\$25/VIDEO/TTL. QUAD NOR GATE/CM-8	AD	6	Y	N		
200MA AT 60V DC./ISOLATED/PROCESSOR	AD	1				
CONVERSION RATE/100K SAMPLES PER SECOND/COMPUTER	AD	4	N	N	C	
DIRECTION/FF.S/LOGIC/STEPPER/SPEED/PHASES	D	1	N	N	C	
RESET/CAPACITOR CHARGE/DATA SELECTOR/ANALOG MUX.	D	1	N	N	C	
DRIVER/CROSSBAR/HIGH IMPEDANCE	D	6	N		C	
SYMMETRICAL OUTPUT/OCTAL GATE CAN MAKE 2 DRIVERS	D	1	N	N	C	
DRIVER		1				

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AC.-COUPLED/PROBE/PIEZOELECTRIC/ELECTROLYTE/DATA	A	6	N	N	C	
LED./BCD.-TO-7-SEGMENT DRIVERS/UP-DOWN DECADE/UP.	D	2	N	N	C	5
PC./MISSILES/FLIGHTS/ACCELERATION/LAUNCH TIMING	DA	9	N	Y		
HIGH-SPEED/CABLE SEGMENT/COMPUTER/DEC/TRISTAN/BUS	D	4	N	N	C	
VHF. RECEIVER/MOD.S/SIGNAL/RADIO SHACK'S/DIP.	A	3	N	N	C	
ARM/RAM./ROM./TEACH CONTROL/LATCHES/MOTOR DRIVERS	D	7	N	Y	C	
TIMER/2 RELAYS/BACKUP TIME DELAY/LEFT/RIGHT TURN	A	6	Y	N	C	
MULTISITE, VOTING REPEATER/BOOST-CUT/SOUND	A	3	N	N		
STEAL/THIEF/SCR./IGNITION COIL/SWITCH	A	4	N			
PHOTOTRANSISTORS/LDR./OPTOISOLATOR/ALARM SOUNDER	AD	7	N	N	C	
TTL./BUS/HIGH-SPEED/FANOUT/COMPATIBILITY	D	5	N		C	
STEREO IMAGE/RECORDING/SOUND/RADIO/TV./TRANSDUCERS	A	9	N	N	C	
LIGHT/GRADED-INDEX/ATTENUATION		4				
VIA./PROM./CPU./MICROFLEX 65 BUS/MEMORY	D	9	N		C	
NICD. CHARGE/REGULATOR/13V	A	3				
ROM./RAM./HALF-BRIDGES/EPROM. VERSION/68HC705H2	DA	4	N	N	C	
FPGA/EPLD./'GLUE' LOGIC/PLA./PAL./LCA/AND/OR ARRAY	D	5	N	N	C	
PARALLEL PORTS/SERIAL/RS-232/DISC/EPROM.	D	3	N			
TTL./OVERTEMPERATURE PROTECTION/PWM./2950/DC.	AD	9	N	N	C	
DRAM. CONTROLLER/BUS EXCHANGER/IO./PROM.	D	1	N	N		10
VOLTAGE CLAMP/1ST & 2ND-ORDER LOOPS/SC LOOP FILTER	AD	9	N	N	C	
BW./IS 10MHZ/TRANSMITTER/LAN./BER/OF 10^-9	AD	5	N	N		
TTL./OR CCT/NANDS/LOGIC CCTS/MONITOR/TEST TUBE	AD	2	N	N	C	
RESOLVE DISTANCES/0.000000335M/RS-232/COHERENT	AD	9	Y	N		
SIMPLE/LOW-COST/128-POINT/LF. BIOMEDICAL WAVEFORMS	DA	3	N	Y	C	
DAC.S/JFET.-INPUT OA./TRANSIMPEDANCE OA.S/CRT.	AD	3	N	N	C	
POLARITY INFORMATION DECODING CCT/DIFFERENTIATION	AD	8	N	N		
TOROID ASSEMBLY/FLYBACK-MODULATED/STABILITY/750KHZ	A	8	N	N	C	
OSCILLATOR-TIMER/EMULATION/MEMORY/"BOOTSTRAP" ROM.	DA	7	Y	N		
MULTIPLE POWER RAIL MONITOR/TL7770-05/PS.S/CROWBAR	AD	2	N	N	C	
DB25/RS232 INTERFACE/FIBER OPTIC CABLE/CMOS./LINE	DA	3	N	N		
COMPARATOR/FAST PIN PHOTODIODE/SPECTROSCOPY	AD	3	N	N	C	39
INTERFACING/CHROMINANCE/LUMINANCE (INTENSITY)	AD	5	Y	N	C	
300V/80W/DC. VOLTAGE-CONVERSION/78& EFFICIENCY	A	8	N	N	C	
TV./TTL. DISPLAY MONITORS/VGA/EGA/CGA/COLOR/ANALOG	AD	6	N	N		
BOOTSTRAP/<0.1%/DUAL-TRIODE/TUBE/GAIN OF 20DB	A	1	N	N	C	
CASCADED/LED./CLOCK/TIMER/MONOSTABLE MULTIVIBRATOR	DA	2	N	N	C	
6502/VFC./ADC./PMT./PHOTON COUNTER/DETECTION/TTY	DA	5	N	N	C	
POPULAR/TESTING/POLICE/FCC/COMMUNICATIONS/SPEEDING	AD	7	Y	N	C	
LOW-NOISE ANTENNAS/BOOST/NF./RF.-VIDEO-AMP.	A	3	Y	N		
PABX./CVSD/SUBSCRIBER CARRIER/SCU/VOICE	AD	3	N		C	
MICROCONTROLLER/RS-232/DIP. SWITCH/TSR/PROGRAMMING	DA	5	Y	N		
LOCAL AREA CONTROLLER/TRIACS/THRESHOLD DETECTORS	AD	7	Y	N		
IR. REMOTE CONTROL/MIX/ENCODER IC/RF. MODULATOR	AD	7	Y	N	C	
WEFAX/GRAPHICS/METEOROLOGY/DISPLAY/EPROM./VIDEO	DA	7	N	N		
SINGLE-BOARD MICROCOMPUTER/INTERFACED/SERIAL PORTS	AD	5	N	N	C	
D.S.B. S.C./GAIN/BIASING/MOTOROLA/VLF./TO 100MHZ	A	1	N	N	C	
RING COUNTING/PATTERN/RING-THING/REMOTE CONTROL	DA	6	N	N	C	69
VOLTAGE INVERTER/DOUBLER/EIA./DTL./CAPACITANCE	DA	4	N	N	C	

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TRANSITIONS/PULSE/SSB.-MODULATE/IF./RF./COUNTER	DA	7	N	N	C	
CLOCK GENERATOR/100KHZ/MEASUREMENT/CONTROL/MUX.	DA	6	N	Y		
METER/BUTTERWORTH HIGH PASS/LOW PASS/FET. PREAMP.	A	2	N	N		E
SNR./PULSE WIDTH/NOISE ANALYSIS/CURRENT DETECTION	A	9	N	N	C	
LED./CELL/RECHARGEABLES/PORTABLE/DC. VOLTAGE	A	3	N	N	C	
PREAMP./POWER AMP./AUDIO/MUSIC/STEREO/LED.S/VOX	A	3	N	N		
6502/MICROCOMPUTER/RESET LINE/CYCLES	D	1	N			
DATA LATCHES/EPROM./SIGNAL AVERAGING/CPU./DISPLAY	AD	2	N	N	C	25
BUS/VIDEO DEMODULATOR/IMAGE PROCESSING/RAM./FAX	DA	2	N	N	C	
ADDRESSED AS IO. PORTS/PROCESS-CONTROL/UART./Z8671	DA	9	N	Y	C	
VCO./DIFFERENTIAL AMP./DEVIATION/FREQUENCY	A	4	N	N	C	
TRANSDUCTION COEFFICIENT/LF. SOUND/PROM./DAC.	AD	9	N	N	C	
ANALOG-DIGITAL INTERFACE/MICROVAX II	DA	4	N		C	
WALK/ADC./RESOLUTION/800PS/450PS/TRIGGER LOGIC	AD	6	N	N	C	
EFFECTS/VIBRATO & PITCH/REVERBERATION/VCO./ADT	AD	6	N	N	C	
PI-NETWORK FINAL/TANK COIL/CRYSTAL/CAPACITOR	A	3	N	N		
REACTANCE/RESISTANCE/MODULATION/UNKNOWN/DIALS/COR	A	4	Y	N		
MONITOR AMP./HEADPHONE/VU METER/VOICE-OVER/SOUND	A	5	Y	N		
PHOTODIODE/MICHELSON/FRINGE SHIFTS	A	4			C	
MICROPHONICS/DUOTRIODES/FILAMENT/DVM./NUVISTORS	A	9	N	N		42
RISE TIME/800PS/AMPLITUDE/80V/LASER	A	1	N		C	
ACTIVE LPF./STEREO/BELOW 20HZ/FEEL	A	4	Y	N	C	
DETECTORS/COMMUNICATIONS		2			C	
BUBBLE-THROUGH FLOW CELLS/TTL./LIQUID & AIR/OA.	AD	6	N	N	C	
RISE TIME/0.8NS/DECAY TIME/45NS/PULSE HEIGHT	A	5	N	N	C	11
BC./SW./CATHODE/TRANSFORMER/RF. COIL/RC.	A	4	N	N	C	
DIODE-RESONANCE CCT/PS./HV./17.5W/EFFICIENCY/1.23%	A	4	N	N	C	
SQUARING/ADC./MUX./INTEGRATOR/COUNTER/VFC.	AD	7	N	N	C	
DATA CORRECTOR-FORMATTER/DCF/IO./DMA./EXPANSION	D	7	N	N	C	
INDICATE/HEXADECIMAL/SHORT-CCT/CONTINUITY/TEST	D	2	N	N	C	
TAP RAM./ROM./ADC./DATA/BUFFER/COUNTER	D	3	N		C	
LPF./BANDPASS/HIGH-PASS FILTER	A	5	N			
FLEXIBLE PROBE/CORDLESS/SLEEP-WAKE/EEPROM./HUMAN	DA	6	N	N	C	
Z80/MEASUREMENT/TEMPERATURE/COMPARATOR	DA	1	N			
LUMINANCE/SYNC/COMPUTER/MONITOR/ATV. TRANSMITTER	AD	9	N	N		
ENGINE NOISES/TRANSDUCER/MICROPHONE	A	2	N			
OVER-VOLTAGE PROTECTION/HAND-HELD UNITS/PTT./LED.	A	2	N	N	C	E
MONITOR/LIGHT OUT-OF-SEQUENCE/ARRAY/CONNECTOR	DA	1	N	N	C	
SRAM.S/BUFFERS/CACHE-TAG STORE	D	5	N		C	
BOOST-CUT/LEFT/RIGHT/VOLUME CONTROL	A	2	N	N	C	
BUS-INTERFACE/CRTC/COMPUTER DISPLAY/VIDEO/SCREEN	DA	9	N	N	C	
HOPFIELD NEURAL NETWORK/SPICE SIMULATOR	AD	4	N	N	C	
CRYSTAL/RF. MODULATOR/DIGITIZE/MEMORY	AD	9	N		C	
COMMUNICATION/VCR./TV./LED./MODEM/DATA/IMAGES	AD	9	Y	N	C	
INFANT/HIGH-GAIN LINEAR AMP./DETECTOR/SWITCH	A	6	Y	N	C	
SUBLIMINAL MESSAGE/SUGGESTION/AUDIO/SOUNDS/SIMPLE	A	4	Y	N	C	
MICROCOMPUTER/UP./TONE GENERATION/PITCH/NOTE	AD	9	N	Y	C	
SHAPING/SUMMATION OF EXPONENTIALS/SPACAL/CERN.	A	8	N	N	C	28
PLD./SEQUENCING/REFRESH-TIMING/BURST ACCESS	D	8	N	N	C	

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SPECTROMETER/OPTOISOLATOR/IRED./PIN DIODE/SIT	AD	9 N	N	C	25
REMOTE BASES/DX/CB. RADIO/MOD.	A	5			
CLOCK/MAPPER ROM./MUX.S/MICROINSTRUCTION/SPEECH	D	9 N	N	C	
PARALLEL PORT STATUS LINES/20HZ TO >10KHZ/SAMPLING	AD	2 N	N	C	
PROGRAMMABLE POWER OA.		2			
MOTORS/RELAYS/DIFFERENTIAL AMP./WINDOW COMPARATOR	A	4 N	N	C	
BANDPASS FILTER/NOTCH/VARIABLE GAIN	AD	7		C	
INTERVAL MEASUREMENTS/SEQUENCING/DIGITAL WAVEFORM	D	2 N	N	C	
DOTS/RF./COAXIAL CABLE T/MICROPHONE GAIN/LINE	A	1 N	N		
PHOTO TRANSISTOR/TTL. OR CMOS./LED./LIGHT	DA	4 N		C	
ESU/ELECTROSURGICAL UNIT/NOISE REDUCTION/BURNS	AD	5 N	N	C	
LATCH/LS TTL. GATES/MSB.S/DATA/D-TYPE FF./LOGIC	D	2 N	N		
VHF. TRANSISTORS/GROUNDED-BASE AMP./COLPITTS LO.	A	4 Y	N	C	
TRANSMITTER/SHIELDED METAL BOX	A	1			
T-37-2 CORE/26-TURN WINDING	A	4			
SWEEP GENERATOR/VIDICON/DATA/TV./FIELD	A	8 N		C	
100MHZ FADC.S/DETECTOR/HV. DISTRIBUTION/GROUNDING	A	9 N	N	C	E
2 4-BIT/DATA/CASCADING/TRUTH TABLE/GATES	D	2 N		C	
UP TO 1MHZ/<200PS RISE TIME/MEASURING/FWHM. <300PS	A	5 N	N	C	61
FILAMENT/CONTROL GRID/6AK5/MILITARY/VTVM/PS.	A	2 N	N	C	
MEASURING VELOCITY/FLOWING/TC. OF RESISTANCE/TCR	DA	8 N	N	C	42
LIGHTNING/CABLES/5KM/BER/EIA./TRANSIENTS	DA	4 N		C	E
DATA-ENTRY TERMINAL/BUS REGISTER	DA	5 N			
FORWARD CONVERTER/IGBT.S/3-PHASE INVERTER/MOSFET.S	AD	3 N	N		
PS./MOSFET./IGBT.	AD	2 N	N	C	
PROCESSORS/MASS-STORAGE/MULTIPLE-DISK	D	9 N		C	
LARGE-SCALE/FORMATTER-CONTROLLER/CPU./DMA./DISKS	D	2 N	N	C	
DUAL-VCA.-RECTIFIER IC/LPF.S/FILTERS/THD./IMD.	A	2 N	N	C	
CURRENT-SOURCE GENERATOR/SLEW RATE/2500V-US/NOISE	A	8 N	N	C	E
FIBER-OPTIC CABLE/FDDI/ANSI./LAN.S/TCP-IP/PROTOCOL	D	9 N	N	C	
MICROWAVE TRANSISTORS/HIGH GAIN/SPEED/LOW POWER	A	4 N	N	C	
DC. REFERENCE/SYNC STRIPPER/UP./COLOR/TRIPLE/TV.	AD	4 N	N	C	
PS./SANYO	A	4		C	
VARIATION/REDUCED COMPONENT COUNT/PNP TRANSISTORS	AD	1 N	N	C	
MPEG/JPEG/MEDIA VISION/REAL-TIME/VGA/NTSC./RGB.	DA	4 N	N	C	
TRANSFORMER/RADIOS/HETERODYNE VFO./PS./TUNED/450V	A	5 N	N		
TTL./SSR/RS-232C SERIAL DATA/MICROCOMPUTERS/PORT	DA	2 N	N	C	
UP./CPU./DRAM./RTC./PERIPHERAL CONTROLLER/TURBO	D	6 N	N	C	
RATES UP TO 140MSPS/100MHZ PULSE DIGITIZER/FASTBUS	AD	4 N	N	C	
FM./CW./SSB./KENWOOD TS-940S HF. TRANSCEIVER	A	6 N	N	C	
ZCD./MAGNETIC PICKUP/SPEED	DA	4 N	N	C	
2 TO 4096/BINARY RIPPLE/CLOCK/CRYSTAL	D	4 N		C	
SWITCHING/DAC.		1		C	
IO. PORT/IO. INTERFACE/CODEC/PARALLEL PORT/RS-232C	DA	9 N	Y	C	
CONTROL/SPEED/MOTOR/ROBOTICS/SDK-85/8085A/COUNTER	DA	9 N	Y		
SHIFT REGISTER/CHECK WORD/DATA/PSEUDORANDOM CODE	D	5 N	N	C	
COMPUTATION/SENSES THE PERIOD/COUNTING/PULSES	D	1 N	N	C	
BACKLASH/TURNS/EXCLUSIVE-NOR LOGIC/PHASE/CMOS.	D	1 N	N	C	
LED.S/SWITCH/TRANSISTOR/LOTTO 54/OSCILLATOR	D	4 Y	N	C	

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6 7-SEGMENT DISPLAY UNITS/IO./RAM./EPROM./1MHZ	DA	8	N	N	C	42
FF./SWITCH CLEARS THE REGISTER/0.1 OF THE RATING	DA	1	N	N	C	
PULSATING CURRENT/PID/EPROM./RAM./PORT/FIFO./BODY	DA	4	N	N	C	42
LED./1HZ/TTL./TIME/PENDULUM/BUFFERS/CMOS.	D	2	Y			
THERMISTOR/ADJUST/SINE WAVE GENERATOR/HEAT/SINK	A	6	N	N	C	
PELS/DAC./BLANKING/HORIZONTAL SYNC DURATION/FRAME	D	8	N	Y		
COMPUTER/UP./AUTOMOBILE/CAR/VEHICLE/SENSITIVE	DA	7	N	N		
COUNTER/CAPACITOR CHARGING/NAND GATE/BUTTON/LINKS	DA	1	N	N	C	
8-BIT/PDP-11 COMPUTER/IO./SERIAL LINKS/INTERFACES	D	4	N	N	C	
HIGH-CURRENT BUFFERS/DRIVING/LIGHT/SHOCK WAVES	D	6	N	N	C	
GATED/LIGHT/DECADE COUNTERS/SENSOR	DA	4	Y			
LISTING/8080/6800/2650/DVM./BASIC/GAME	DA	5	Y			
60HZ/AC./OPTOISOLATOR/CPU., EPROM./PS./TIMERS	DA	7	N	Y		9
CONVERSION/ANALOG/RAMP START/STOP/1-SHOT	DA	4	N			
BOXCAR INTEGRATORS/SPECTROMETER/SYNC	D	3	N		C	
RS232-COMPATIBLE PORT/TRANSPONDING SATELLITE	DA	7	N	N	C	
MIP/TIME-RESOLVED SPECTROSCOPY/PM./SNR./MEASURING	A	6	N	N	C	42
CPU./CRT./DRAM. REFRESH/REGISTER/MOVE DATA BLOCKS	D	4	N	N	C	
PLL./EMITTER-FOLLOWER/REMOTE/SEISMIC MEASUREMENTS	A	2	N	N		
1.7KV/TRANSISTORS/FAST/PROTECTION DIODE/2 TO 50HZ	AD	4	N	N	C	
IDT7174 CACHE TAG. SRAM./IO./PC.S/BUS/INTERFACE	D	9	N	Y	C	
EPROM./MCU/RELAY/LED./HANDSET/CRADLE/PORTS/70691	DA	5	N	N		
EPROM. DECODING/VIDEO/COMPOSITE/VERTICAL SYNC IN	D	5	N	N	C	
EMBEDDED MICROCONTROLLERS/2764/CRYSTAL/SIP STRIPS	D	3	N	N		
TITRATION CELL/WATER/QUARTZ COMBUSTION TUBE	A	6	N	N		
SIMPLE/LOW-POWER COMMUNICATION/510 TO 1705KHZ	DA	2	N	N	C	
PLAYERS/PROGRAM/MEMORY MAP/RASTER SCAN	D	2	N		C	
DIGITAL/MASTER-SLAVE/TOGGLE/SET-RESET/COUNTERS	D	6	N	N	C	
CLOSE TO THE SUPPLY RAILS/SCAN/16-LED. DISPLAY	D	2	N	N	C	
ONBOARD FIRMWARE/CPU./12-BIT DAC./SH.	DA	9	N	N	C	
LATCHES/MUX.S/INTERLEAVED 20MHZ DRAM./ADDRESSING	D	6	N	N	C	
INTEL/MULTIPROGRAMMING/MULTITASKING/PORTS/BASIC	D	9	N	Y	C	
5 IC'S/BUS-INTERFACE UNIT (BIU)/REGISTERS/MEMORY	D	8	N	Y	C	
BCD. SWITCHES/THUMBWHEEL/LCD./DISPLAY/CMOS.	D	5	Y			
MOTOR DRIVE/ELECTRO-OPTICAL/PYROMETER	D	9	N		C	
MCS-51/CPU./IBM PC./PORTS/EPROM./TTL./DATA/ICE	D	8	N	N	C	
RANDOM/PROBABILITY/PATTERNS/TRIGRAMS	D	5	Y			
ADC.S/SH./COMPARATOR/SUCCESSIVE-APPROXIMATION	DA	9	N	N	C	3
CRYSTALS/DARK CURRENT/NOISE/GAMMA-RAY SOURCES	AD	9	N	N	C	7
MOV./CALLER-ID/RELAY/TRANSFORMER/1500V ISOLATION	A	4	Y	N	C	
FAST THYRISTOR/PLASMA/INTERFEROMETRY	A	5	N		C	
HIGH SPEED/FAST SETTling OA./CONVERSION/3.5US	AD	3	N	N	C	
BATTERY-BACKED CLOCK-CALENDAR/MICROCOMPUTER/PAL.S	DA	7	N	N		
TUNER/TAPE/CD./"OQ" FLAT "CQ"	A	3	N			
CPU./MACHINE OS. (MOS)/UP./INTERFACE/ROM./SRAM.	D	6	N	Y	C	42
SYSTEM-BUS INTERFACE/ADDRESS-DECODE/RS-232C/CPU.	DA	2	N	N		
YUASA/CAVING LAMPS/CELL/PACKS/LIGHTING/BULBS	A	4	N	N		42
BASS/TREBLE/TUNER/PHONO/TAPE/TV./AUX./LOUDNESS	A	1	N	N		36/42
VOICE RECOGNITION/BUBBLE MEMORY/WORDS	D	9	N	N	C	

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MUX./EIA./OUTPUT PORT/HANDSHAKE	DA	6 N	C	
VOLTAGE MONITORING/EMF./40KHZ OSCILLATOR/TRICKLE	AD	6 Y	N	
PASSIVE BACKPLANE/COMPATIBLES/SIZE REDUCTION/BIOS.	D	8 N	N C	
AUDIO/IMPEDANCE/TAPE MONITOR LOOP/FEEDBACK	A	6 N	N	42
DRAM./HYSTERESIS/CAPACITOR/NONLINEAR DIELECTRIC	D	4 N	N C	
DRAIN-TO-SOURCE RESISTANCE/GATE-TO-SOURCE VOLTAGE	A	1 N	N C	
BUS/MODEMS/BAUD RATE GENERATOR/RS-232C/REGISTERS	D	9 N	Y	
I ² C UART./PC.S/SERIAL INTERFACE/SCL/SDA/8051	D	8 N	Y	
DATA TRANSFER/LSI-11 DRV11/DEC/COMPUTER/BUS/PARC	D	2 N	N C	
TRANSCONDUCTANCE/TRANSRESISTANCE AMP./LF. NOISE	A	8 N	N C	
AGC./CRYSTAL/REED RELAYS/FEEDBACK/IF./PIN DIODE	AD	8 N	N	
EMG. PREPROCESSING/ELECTRODE/CROSS-CORRELATION	D	9 N	N C	
HIGH-IMPEDANCE/LOW-IMPEDANCE/AUDIO FILTER/SCOPE	AD	5 N	N	
AIR GAP/TRIGGER CCT/WIRE ELECTRODES/BULLETS/<1US	A	2 N	N C	
LED./FREQUENCY SYNTHESIS/NOR GATE/CORRELATOR/IF.	DA	3 N	N C	
POWER UP RESET/FAST MULTIPLIER/TRW/MPY12HJ/UP.	D	6 N	N C	61
		1		
TRANSMITTER/RESET SWITCH/START PULSE/BARGRAPH/8	DA	1 N	N	
SHIFT REGISTER/LPF.ING/ANALOGUE GATES	AD	8 N	N C	
HIGH INPUT-IMPEDANCE/ADC./VISUAL EVOKED POTENTIAL	AD	8 N	N C	
DATA ACQUISITION/ADAC ADAM-12/S-100 BUS/SERIAL IO.	DA	9 N	N C	
LOGIC/AF.S <100KHZ/7-SEGMENT NUMERIC LED. DISPLAY	DA	4 N	N	
EPROM./MOD./PICTURE DATA/IMAGE/MEMORY/TR./IO. PORT	D	5 Y	N	
LED./COMPUTER/RS-232-TTL. LEVEL CONVERSION/\$3	D	1 N	N C	
MOD./GATES/SWITCH/MOTHERBOARD	D	2 N		
UP./80 DIGITAL INPUT/OUTPUT PORTS/D-A/RELAY OUTPUT	D	7 Y	N	
BER/RF./BPF/INSTRUMENTATION, SCIENTIFIC, & MEDICAL	DA	7 N	N C	7
OA./TIME/COUNTING/ION/ELECTRON BEAMS	AD	3 N	C	
3-STATE OUTPUTS/MULTICOMPUTER/LOOKUP	D	7 N	C	
UP. CONTROL/ROBOT ARM/BASIC/COMPUTER-CONTROLLED	D	9 N	Y	
PHOTORESISTOR/MONOCHROMATIC LIGHT/COLORIMETRIC	A	2 N	N C	
LED. DRIVER/COMPOSITE VIDEO/TRS-80/OPTOISOLATORS	AD	6 N	N C	
TRIGGER & BURST CONTROL PULSE/TRANSFORMERS/PLASMA	DA	9 N	N C	
MEMORY/READS/Writes/INPUTS/OUTPUTS/PORT/DISPLAY	DA	4 N	Y	
ANALOG TO BCD./SET POINT/RECIRCULATING	DA	6 N	C	
MESSAGES/TEXT/DOT-MATRIX/DAISY-CHAIN/GRAPHICS/PC.	D	9 N	Y C	3
LIGHT/PHOTODETECTOR/DISPLACEMENT/POSITION/UP.	D	5 N	Y C	
		3		
MEASUREMENTS/ROD/METALS/OSCILLOSCOPE/MICROCOMPUTA		6 N	Y	
TRIGGER/OPTIONS/SHIFT REGISTER/ANALYZER	D	5 N	C	
BAND-PASS FILTER/RECEIVE PROGRAM	AD	6		
COMMODORE/DATA BUS/DATA LOGGING/DECODER	D	3 N		
PHOTOGATES/MEASURE/SPEED/MOTION/LED.-DETECTOR/TIMEDA		4 N	N C	
RF./DIATHERMY/TUMOR THERAPY/HEATING/ATTENUATOR	A	3 N	N	
SCA.S/RECORDING/PMT./GAMMA RADIATION/TRACERS	DA	5 N	Y C	28/AG
SPRING/HUMAN GAIT/\$2/DETECTOR/PATH/SOLE/FOOT/SHOE	A	6 N	N C	
ELECTRODE/GAS SCRUBBING VESSEL/PERISTALTIC PUMPS	AD	5 N	N	E
FREQUENCY OF VIBRATION/MUSICAL PITCH/PIPE/TONES	AD	2 N	N C	
FEEDBACK PATH/INTEGRATOR/GAIN/CURRENT/LED./OA.S	A	1 N	N C	E

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VFC.S/FVC/DAC.S/ATTENUATORS/TIMERS/TTL./COUNTER	AD	9	N	N	C	
ROTATION/SHAFT/FORWARD/REVERSE/PULSES	D	2	N		C	
LDR. BRIDGE/OVERCOME THE CONSTANT DC. COMPONENT	A	2	N	N		25
UP./DATA SELECTOR/COUNTER/BUS	D	2	N	N	C	
MOSFET./GATE-DRIVE CCT/VCO./VHF./PS./LOAD/DC.-DC.	AD	9	N	N	C	
2 SHIFT KEYS/LOOKUP TABLE/BASIC-52/TRANSUCER/TIMER	D	8	N	Y		
STEPPER MOTOR-BASED/ASTRONOMY/PHOTON/CERENKOV/PMD		9	N	N		12
AUTOMATIC/RESISTANCE/OA./AC./RELAY BOX/PS.S	A	5	N	N	C	E/91
LOW FREQUENCIES/LF.S	D	1				
VOLTAGE-TO-FREQUENCY	AD	4			C	
BUZZER/SWITCHES/TIMEX/1000/MEASURE/HOME	DA	4	N		C	
MAINTAIN CURRENT/HAM RADIO/DIFFERENTIAL AMP.	AD	3	N	Y	C	
LIGHTS/MOTION DETECTORS/SENSORS/DIGITIZER/IMAGE	DA	7	N	N		
VOLTAGE/CURRENT/ZENER DIODE/REFERENCE/CLAMPS/GATE	A	2	N	N		
LC./<10HZ/3-TRANSISTOR/1-TRANSISTOR/FEEDBACK/AMP.	A	3	N	N	C	
TEXAS INSTRUMENTS/CRYSTAL-CONTROLLED/1HZ/10HZ	D	9	N	Y	C	
DIAPHRAGM/LED./MODULATED/SOUND/TUBE/LIGHT SOURCE	A	5	N	N		
AUDIO SOUND/ACTIVE/REPEATER/RESONANCE	A	3	Y			
7-SEGMENT/BCD./FREQUENCY COUNTER/DIGITAL/DIVIDER	D	5	N	N	C	
UNDERGROUND INDUCTIVE TRANSMISSION	A	6			C	
DECADE COUNTER/CMOS. MONOSTABLE MULTIVIBRATOR/LED.	D	2	N	N		
SPECTROSCOPY/OPTICAL/ELECTROMETER/LOCK-IN AMP.	A	4	N	N	C	
FREE-RUNNING/SQUARE-WAVE GENERATOR/SCALING	AD	1	N	N	C	
LOGIC/RC. TIME CONSTANT/KEY SWITCH/INVERTER/FALSE	DA	1	N	N	C	
CORRECTED VERSION/LED. DISPLAY	D	1				
SINGLE UNIT/INTERRUPT/PROCESSOR/PULSE	D	3	N		C	
BEACON/BIKE RIDERS/SEQUENTIAL RUNNING RED LIGHT	DA	7	Y	N		
MATCHED PAIR/SERIES REGULATORS	A	1	N	N		36/4
CHARGE/DISCHARGE CURRENTS/PULSE WIDTH	A	1	N		C	
VFC./MULTIPLIER	AD	6	N	N	C	
RS FF./RC. NETWORK/PULSE GENERATION/TIME DELAYS	AD	4	N	N	C	
OUTPUT TRANSFORMER/PUSH-PULL/POWER PENTODE/DOUBL	A	7	N	N		42
SUNLIGHT/CMOS. TIMER IC/SCHOTTKY DIODE/CHARGE	A	6	Y	N	C	
AF. MODULATION/FIELD/PSD.	AD	3	N	N	C	
UP./EXCLUSIVE NOR GATE/CMOS./TIMER/CHROMATOGRAPHY	AD	1	N	N		
OUTPUT FILTER/HARMONICS/RC.	DA	2	N		C	
PARALLEL IO. INTERFACE/SWITCHES/PULSE	AD	5	N		C	42
TIMER/OSCILLATOR/FF./NO ZEROING	AD	3	N		C	42
EDDY CURRENT DECAY/FF./PET INTERFACE/DATA	DA	5	N	N	C	
OPTOISOLATOR/TRIAC/FF./ASTABLE	DA	1	N			
BCD.-TO-DECIMAL DECODER/LED./NUMBER/SWITCH	DA	2	N		C	
1-SHOT/OSCILLATOR/CMOS. SWITCH/TTL./CARDIAC/PS.	AD	6	N	N		
PPI./OPTOCOUPLER/PMT./LIGHT INTENSITY/TEMPERATURE	DA	7	N	Y	C	
APRIL FOOLERY/"GOOD KNIGHT"	A	1	N	N	C	48
LED. STATUS/DATA/PORT/TTL./LINE RECEIVER	D	1	N		C	
OSCILLATORS/COUNTING SCHEME	DA	2			C	
RECORD PULSE GENERATOR/PREAMP./RESTORER	AD	8	N	N	C	
NRZ./DRIVER/ENCODER/2-BOARD UNIT/LINE/TWISTED PAIR	D	4	N	N	C	
PARALLEL/DIGITAL/1-SHOT/COUNTER/PULSE	D	2	N		C	

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MICROWAVE TUBE/DOUBLE VOLTAGE STEPS	A	2		C	
COLPITZ/POWER REGULATION/PULSE SPACING MODULATION	AD	8	N	N	C 42
RCA MODEL 31034A PMT./PHOTOELECTRONS/LASER/PULSE	D	3	N	N	C
21MHZ/LC. OSCILLATOR/FILM THICKNESS/MEASUREMENT	A	3	N	N	C
6502 UP./INTERFACED/RS232 SERIAL PORT	DA	6	N	N	C
HIGH SPEED/SERIAL BRANCH DRIVER/CRATE CONTROLLER	D	9	N	N	C
MICROCOMPUTER/DEMODULATOR/VIC-20	AD	4			
8-BIT DAC./CONTROL LOGIC/CURVE SYNTHESIS/TIMING	AD	5	N	N	C
COUNTER/CHECK/ERRORS/LED.S/MISMATCH/COMPARATOR	DA	2	N	N	C
KEYBOARD SIMULATOR/VOCABULARY/WORDS/SENTENCES	DA	9	N	Y	C
KNEE/MEMORY/NICD.S/VOLTAGE/CELL/LIFE/TTL./RS-232-C	AD	7	Y	N	C
OPTICAL ISOLATOR/RINGMATE/RING ALERT/DELAY/BACK	AD	8	Y	N	
DIVIDER/CPU./4TH-ORDER BUTTERWORTH LPF.	DA	2	N	N	C
SIMPLE/LED./VOLTAGE/CYCLES/BATTERY MEMORY/KNEE	A	3	N	N	
VOLTAGE/SERVOMOTOR/DATA BUS/FEEDBACK LOOPS/TIME	AD	4	N	N	C
RS-232 LINK/OA./5-CHANNEL ADC./PWM./8051/DAS.S	AD	5	N	N	
PROSTHESIS/MOVEMENT/PIA./POTENTIOMETER/KNEE/DAC.	DA	2	N	N	C E
FRONT END/COMPUTER/AC. POWER LINE/WIRING/MODULE	A	3	N	N	
TNC./SIGNAL GENERATOR/UHF. CONVERTER	A	2	N		
INTERRUPTS/DATA/TERMINAL INTERFACE/AMATEUR RADIO	DA	9	N	N	
BALUNS/DIRECTIONAL COUPLER/RF./AMATEURS/BARGRAPH	A	7	N	N	
POSITION/QRP FREQUENCIES/BASIC PROGRAM/ERROR/TW-1	A	1	N	N	C E/46
DEMUX./MICROCOMPUTER/REMOTE	D	9	N		C
STATIC MEMORY INTERFACE/PHOTOMETRIC/RAM./EPROM./F8	D	3	N	N	C
UV. EPROM./OSCILLATOR-DIVIDER/12.8KHZ/COMPUTER	DA	5	N	N	
PMT./CURRENT-TO-VOLTAGE CONVERTERS/MUX./ADC./PGA	AD	9	N	N	C 25/42
REGISTER/PUSH-BUTTON/BILATERAL SWITCH	DA	6	Y		
COUNTER-TIMER/UP./CPU./PARALLEL/SERIAL IO./EPROM.	DA	6	N	N	
LED./CAR/FREQUENCY/VERY ACCURATELY REGULATED	A	2	N	N	C
DAC./COMPUTER-CONTROLLED PS.S/MANUALLY/RS232/RAM.	AD	7	N	N	C
	A	2	N	N	C
MIXERS/BASEBAND SIGNAL PROCESSING/ERRORS	A	2	N		C
SENSOR/PS./PLL. DEMODULATOR/SOUNDS/PHONOMETER/PC.	AD	8	N	N	C
LED. DISPLAY/INTERFERENCE/PATTERNS/MOTION/IDG	AD	5	N	N	C
SAW. FILTER/DOWNCONVERTER/S-METER	A	2			
DESK COMPUTER/TEXAS TI59/PC 100 C PRINTER/VFC.	DA	3	N	N	C
RF. OSCILLATOR/PRE-EMPHASIS/MUX./88 TO 108MHZ/CD.	A	7	N	N	C
VIDEO RECORDER/PAL/QPSK. DEMODULATOR/DAC./AUDIO	AD	9	Y	N	AJ
MSGSC/TRANSDUCERS/BATTERY/ANALOGUE SWITCH/OA.S/EPFAD		5	N	N	C
PERIODIC SIGNALS/ECG.		8			C
CPU./APPLY POWER/RANDOM DATA/DISRUPTIONS/FF.	AD	2	N	N	C
MICROSEQUENCER/OA.S/DMOS. SWITCH/PROM./RMS.	AD	9	N	Y	C
BUS/PLD.S/MICROSYSTEMS/CPU./DUAL-PORT RAM./CARDS	D	6	N	N	C
VARIAN E109/CONTROLLING THE MAGNETIC FIELD/12-BIT	DA	7	N	N	C 25
LOG. AMP./DETECTOR DIODES/PROBE	A	6	N		C
ADC./CMOS. DAC./SENSING/LEVEL/PEAK-DETECTOR	AD	2	N	N	C
PREAMP./INTEGRATOR/PEAK HOLD/GATE/FET./OA.	AD	4	N	N	C E
K=62.25/MAXIMUM POSSIBLE RESOLUTION IS 21 BITS	AD	2	N	N	C
DIODE-CAPACITOR/TRIPLER/QUADRUPLER	AD	2	N		

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VARIABLE-SPPED/DRILL/MOTOR-OPERATED	A	1	N		
ADC./RELAYS/DIP. SWITCH INTERFACE/MAXIM/UP.	AD	9	N	N	
HIGH-SIDE SWITCH/7.2 OR 4.8V/SUNLIGHT/PHOTOVOLTAIC	A	5	Y	N	C
STATE-VARIABLE/TONES/GONG/BELL/SOUNDS	AD	5	Y		E
MOD. TANK CCT/RIG/TRANSCEIVERS/PULLEYS/DRIVE SHAFT	A	4	N	N	
MAGNETIZATION/HARDNESS/D-FF./AC.-LINE/PULSES	AD	5	N	N	C
~\$25/ZCD./OA./COUNTER/ANALOG SWITCH/PEAK DETECTOR	AD	4	N	N	C
HEATERS/POWER TRANSISTOR/TIMER/120VAC./RECTIFIER	A	2	N	N	C
LIMITS/TTL.-COMPATIBLE LOGIC/AMP.	AD	2	N		C
RF. VOLTAGE AMPLITUDE/SIMPLE/PREVENTS OVERLOAD	A	2	N	N	C
MAXIM/DAS./MUX.S/SWITCHES/RESISTOR CHAIN/OA.	AD	1	N	N	C
QUANTIZER STEP SIZE/INSTANTANEOUS/DAC./5-BIT CODER	AD	8	N	N	C
PLL. FREQUENCY SYNTHESIZER/STEPS/COUNTER	DA	5	N		
8 OR 10 BITS OF ACCURACY/INTERFACE TO THE COMPUTER	DA	6	N	Y	C 3
ONLY RESISTANCES/LINEAR PASSIVE	A	4	N		C
CURRENT ACCURACY/1%/OFFSET CURRENT/<0.1%/15KHZ	AD	1	N	N	C
	A	1	N	N	C
IN 1/IN 2/IN 3/IN 4/OUT/ON-OFF	A	1	N	N	C
LED. TRANSMITTER/HEART SOUNDS/IR. TELEMETRY/FM.	AD	4	N	N	C
CHIP CAPACITORS/FERRITE BEAD/RESISTOR/STANDOFF	A	2	N	N	C
X-Y RECORDER/VARIAN/MC6800/16K OF RAM.	AD	9	N		C
SENSE WIRE/ADC./LOW COST/\$220/CHARGE DIVISION	A	3	N	N	C
EMG./TIG/CCT BREAKERS/FOOT-OPERATED SWITCH/RELAY	AD	7	N	N	C
BALANCED MODULATOR-DEMODULATOR/ESR/MICROWAVE	A	4	N	N	C
MONOSTABLE/RESISTOR-CAPACITOR-ZENER/COUNTERS/BCD.	DA	2	N	N	C
UP./SINGLE CHIP COMPUTER/EPROM./TIPPING BUCKET	AD	3	N	N	
ANALOG MUX./RAM., EEPROM./LCD./VOLTAGE MEASUREMENT	AD	7	N	N	
ADC./BOARDS/DATA LOGGER/CHART RECORDER/LINEARITY	AD	4	N	Y	
C/SOFTWARE/OSCILLATOR/CLOCK OF 32.768KHZ/IO. LINE	DA	3	Y	N	
CURRENT GATE TRANSISTORS/LIGHT/1-DIMENSIONAL/FAST	A	5	N	N	C
CAR/HIGHWAY/STROBES/SCR./BRIGHT/GAS	A	3	N		C 42
TRANSDUCER/LINEARIZATION/SQUARE ROOT	AD	8	N		C
UP./MINICOMPUTER/CPU./BUS/INTERFACE	D	6	N	N	C
VOLTAGE/SMOKE DETECTOR/LOW BATTERIES/CELLS/TADIRAN	DA	9	N	N	C
"CLICK" SOUND/PULSES/BEAT RATE/CMOS./LED./SCALE	DA	4	Y	N	
HEARING-IMPAIRED/EARS/SUPER-GAIN/LISTENING	A	5	Y	N	C
-40 TO +80DEG C/2.8MW/EDGE/MILLER LOADING/HARMONIC	D	2	N	N	C
RS-422/PTT./CARRIER DETECT/TRANSMIT DATA/LINES	AD	5	Y	Y	C
COLD-JUNCTION COMPENSATION CCT/DISPLAY/OA./SEEBECK	AD	3	N	N	C
RF./SPEED TRAPS/DOPPLER SHIFT/REGULATOR/AUDIO	A	6	N	N	C
DUART./RAM./ROM./RS232C/RAMP GENERATOR/SWEEP	DA	9	N	N	C 42
VDP/ROM./EXTERNAL-MODE SELECT/CMOS. SRAM./KEYBOARD	D	8	Y	N	C
CRT. DISPLAY/ADC./PATIENTS/WAVEFORMS/PACEMAKERS	AD	3	N	N	
ECL. LINE RECEIVER/17 TO 1/TUNING VOLTAGE/	AD	1	N	N	
ADAPTER/PIA./ANALOG MUX./ROM.	DA	4	N		C
FREQUENCY LOCKING/COUPLERS/SCANS EPROM.S/WAVEFOR	D	4	N	N	C
1 TO 100UA/ECL./TTL./NIM/PULSES/CURRENT MIRROR	DA	3	N	N	C 12
LEVEL CONVERTER/WAVELENGTH SCANNING/MONOCHROMAT	DA	4	N	N	C 1
PCM. DATA/BCC-52 COMPUTER/EXTENDER	AD	9	N		C

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CASSETTE INTERFACE/UP.S/EPROM./SINGLE-BOARD/MPU.	DA	6 N	Y	C	
CYDAT IO. BUS/DS8922 RS-422/UP./PC./EEPROM.	DA	9 Y	N		
NEGATIVE/LEVEL DETECTION/TIMER/CMOS./TTL.	AD	5 Y			
CLOCK/BALANCED/ASTABLE MULTIVIBRATOR/SQUARE-WAVE	AD	2 N	N	C	
1500V ISOLATION/PHONE LINE/VARISTOR/ZENER DIODES	A	7 N	N	C	
NORTON OA./CHOPPER-STABILIZED OA.	A	1 N		C	
INPUT & OUTPUT LPF.S/VCO./HF. RADIO	AD	8 N	N		
FOR HIGH ENERGY PHYSICS/ON-LINE DATA FILTERING	D	7 N	Y	C	
CERAMIC FILTERS/CW. & SSB./BFO./KEYING/~\$55	A	3 Y	N	C	
ELECTRODES/MEASUREMENTS/MASS TO CHARGE RATIO/XPS	A	4 N	N		E/16
3-PHASE BRIDGE/POWER MOSFET.S/PWM./TACHOMETER	AD	6 N	N	C	
ENHANCED PROGRAMMABLE COMMUNICATION INTERFACE	D	5 N	N		
OSCILLATOR/BENDER/ADJUSTED/CORRECT SENSITIVITY	A	1 N	N	C	
STATIONS/MODULATION/OSCILLATOR/TUNERS	A	8 Y		C	
MAP/INTERFACE/MOTOROLA/REAL-TIME INTERRUPTS	DA	7 Y	N	C	
FF./INDUCTANCE/MATCHING	D	5 N		C	
PLL./OSCILLATOR/CCO/RF. LAN.S/VIDEO SYNC/CLAMPED	A	6 N	N		
SYMBOLGY/DEVELOPMENT/SOFTWARE/MICROCODE	D	9 N		C	
PROTECTS AGAINST/SHORT CCTS/INDUCTOR/COMMON GROUND		1 N	N	C	
INTRUSION/GATES/THRESHOLD LOGIC/DECISION/NUMBER	D	3 N	N	C	
PC./RHEOMAGNETIC/RECORDING DISKS/ORIENTATION	AD	7 N	N	C	
COMPUTER/PROM./UART./CASSETTE TAPE	DA	2		C	
PTT./AF. AMP./MICROPHONE/AUDIO/SQUELCH/INTERFACE	A	2 N	N		
GULTON/R101-S/CRYSTAL/COMPARATOR/AMP./INTEGRATOR	AD	9 N	N		E
\$10/CRYSTAL/IF. FILTER/BW. OF 2KHZ/FET.	A	5 N	N	C	
OFFICES/HOST/DISTRIBUTED CONTROL/PORTS	DA	8 N		C	
LOCK-IN AMP./SNR./FAR-IR./CO2 LASER/STABILITY	A	2 N	N	C	
REFERENCE VOLTAGE/6502/BASIC/IO./FF./DATA TRANSFER	DA	6 N	Y	C	
POLAPLEXER DETECTOR DIODE/GUNN OSCILLATOR/MA-COM	A	4 Y	N	C	
TOUCH-TONE(TM)/2M RADIOS/REPEATER/PROGRAMMING/CODEAD		3 N	N	C	
CHARGE-BALANCING/DUAL-SLOPE		5		C	
UP.S/PARALLEL IO./MUX./BUS	AD	5 N		C	
ERROR AMP./LOAD/SOURCE/POWER	A	9 N		C	
ROCKWELL AIM 65 R6522 VIA./CONTROL & MEASUREMENT	AD	7 N	N	C	25
OA./6502 UP./8-CHANNEL/DATA ACQUISITION/IO. PORTS	AD	9 N	Y	C	
PULSE AMPLIFYING-SHAPING/DISCRIMINATION/DAC./OA.	DA	5 N	N		
ASTABLE OSCILLATOR/7 SEGMENT	D	1			
INTERFACE/EPSON/QRS COMPLEXES/POKECG/EPROM./RAM.	DA	4 N	N	C	
STIMULATOR/INDUCTIVE/OPTICAL COUPLING/ELECTRODES	AD	6 N	N	C	
VIN/COMBINES/FEEDBACK SIGNAL/SUMS/CONTROL CURRENT	A	1 N	N	C	
THERMAL SHOCKS/CATHODE STRIPPING/CATHODE EMISSION	AD	6 Y	N		
READ-WRITE CONTROL LOGIC/CPU./MICROSYSTEMS/MATCH	D	9 N	N	C	
REAL-TIME/PID./DDC/SELF-TUNING REGULATOR (STR)	AD	9 N	N	C	42
TAPE, CD./DELAY/TONE CONTROLS/MUSIC/MICROPHONE	A	5 Y	N	C	
VOLTAMMETRIC CELL/CPCIO (CPC IO.) CARD/ELECTRODE	AD	9 N	N	C	42
MICROCOMPUTER-CONTROLLED/3-ELECTRODE/IBM	AD	7 N		C	
ACTIVE/BESSEL/DSP./ADC.S/DAC.S/OVERSAMPLING	A	2 N	N		46
JFET. OA./GAME IO. PORT/MAGNET/PISTON/COMPUTER	AD	4 N	N	C	
CLOCK PULSES/INCREASES IN STEPS OF 10UA UP TO 80UA	AD	1 N	N	C	

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BUFFER/TIMING/DETECT/ZERO-CROSSINGS/PUSH-PULL PRECISE AMPLITUDE	AD	2 N	N	C	
DRIVE/DC. LEVEL SHIFTING/COMPUTING/50MHZ/FIBER PC.S/REGULATOR/LED./DATA ACQUISITION/9V BATTERY	AD	9 N	N	C	
PULSE COUNTING/MONOTONIC/TIME-GATED	DA	1 N		C	
2048 POSSIBLE CODES/TRANSMITTER/SMA PARTS/TV.	DA	5 Y	N		
CARRIER SHIFTS/DIVIDED BY 16/SIGNAL/PHASE LEVELS	D	1 N	N	C	AI
HOW THEY WORK/VIDEO SYSTEM/SYNC/CRYSTAL OSCILLATOR	AD	4 N	N	C	
CAPTURE RATIO/INTEGRATOR/PULSES/SQUARE-WAVE SIGNAL	AD	2 N	N	C	
OSCILLATOR/POWER/IC/80HM SPEAKER/BOOSTS	A	1 N		C	
ECONOMICAL/GOOD LINEARITY/SENSORS	AD	3		C	
3-DIGIT ADC.S/TRANSMISSION	DA	2			
DIGITAL OUTPUT/WORD/ACCURACY TO 1-1024 OF RIS	AD	3 N	N	C	
8 ANALOG INPUTS/FILTERS/HF. NOISE/BCC11/PC.	DA	3 N	N	C	
PRE-PREAMP./ZERO-CROSSING/RELAY/SONIC/CASCADE	A	9 Y	N		
INPUT & OUTPUT RANGES ARE PIN-PROGRAMMABLE/250KHZ	DA	2 N	N	C	
FURNACE/MICROCOMPUTER-CONTROLLED/DC.	AD	3 N		C	
PUSH-PULL OUTPUT/HIGH-FIDELITY/SOUNDS/LISTENING	A	5 Y	N	C	
DATA TRANSFER/MINICOMPUTER HP 1000	AD	9 N		C	42
GRAPHIC EQUALIZER/CRO./ELECTRODE/BRAIN STIMULATION	AD	9 N	N	C	25
AMP./SENSING/TRANSISTOR/SENSOR PROBE/8-BIT/IO.	AD	5 N	Y	C	
SINCLAIR ZX SPECTRUM/SH./NIM/BUS/TN-4000	DA	9 N	N	C	12
DISPLAY/MUX.ED/CHROMATOGRAPHY/OA.S/OS./APPLE II+	AD	9 N	N	C	42
PROPORTIONAL DRIFT TUBES (PDT)/DATA/CONTROL LINK	AD	9 N	N	C	39
DIGITAL MEMORY/LONG DURATIONS	AD	3 N	N	C	
PORTABLE/BATTERY-OPERATED/ALARM/TAPE/AM/ADC.	DA	9 N	N	C	
INTERVAL TIMER/12 BIT/IO./DATA ACQUISITION/100KHZ	A	9 N	Y	C	25
OA./INTEGRATOR/CASCADE FET. OUTPUT/HOLOGRAPHY	AD	6 N	N	C	28
CAPACITOR/LYSIMETER/RAIN GAUGES/PRECIPITATION	AD	7 N	N	C	E/91
8- OR 10-BIT OUTPUT/COMPUTERS/EMG./6502/MSB./LSB.	DA	8 N	Y	C	
SIGNAL IMPRESSED ON THE AC. LINE/POWER LINE/IRED.	AD	8 Y	N		
PPI. PORT/ZILOG Z8671/IO./DRIVER/LATCHES/BUFFER	DA	7 N	Y		
RMS.-TO-DC. CONVERTER/ANALOG MULTIPLIER/DUAL OA.	A	2 N	N	C	E/65
BATTERY MONITOR/CHARGER/MANUAL/REMOTE	AD	3 N		C	
DIFFERENTIAL NONLINEARITIES/DNL/ERRORS/COMPENSATED	AD	5 N	N	C	
INTERFACE/TTL. TO RS-232C-LEVEL CONVERSION	AD	4 N	N	C	
VCA.S/WIDE-RANGE/MEASUREMENT/LPF./DETECTOR/X-AMP.	A	5 N	N		
LIMITER, DEMODULATOR/RECEIVED-SIGNAL-STRENGTH/RSSI	A	8 N	N	C	
CRYSTAL-CONTROLLED/HF./FREQUENCY STANDARD/10MHZ	A	4 Y	N	C	
SIZE/LOCATION/DENSITY CHANGES/DATA COMPRESSION	AD	8 N	N	C	
TV./VCR.S/CD. PLAYER/MULTIBURST TEST/MUX.-DEMUX.	AD	6 Y	N	C	
QMICAD/HF./MICROSTRIP/MODELING/IMPEDANCE/FORTRAN	A	5 N	N		
11 BIT COUNTER/STORAGE OSCILLOSCOPE/DOPPLER-SHIFT	DA	3 N	N	C	1
6502 UP./6522 VIA./BASIC PROGRAM/NMI.	DA	5 N	Y	C	
INDUCTANCE/VARACTORS/PIN-DIODE/MATCHING/BROADBAND	A	6 N	N	C	
COMPUTER INTERFACE/VELOCITY/ATOMS	DA	9 N		C	
SAW. FILTER/INPUT STEP ATTENUATOR	AD	4		C	
		5		C	
DC. BLOCKING CAPACITORS/SUMMING/VIDEO ENTHUSIAST	A	4 Y	N		

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30KHZ/SWITCH-MODE POWER CONVERTERS/PWM./MOTOR	AD	9	N	N	C	28
WITHOUT MAKING ELECTRICAL CONNECTIONS/LED. DISPLAY	A	5	N	N		
OSCILLATOR DIFFERENCE FREQUENCY/QUARTZ CRYSTAL	AD	5	N	N	C	
TEMPO/MUSICIAN/BEATS/BAR/TIMING	DA	3				
CONVERT PULSE/TRW/HIGH ENERGY PHYSICS/TOF.	AD	5	N	N	C	
PHASE DIFFERENCE/SINUSOIDS	A	1			C	
HEADPHONE JACK/AF.S/TRANSCEIVER/MOD./PEAK DETECTOR	A	2	Y	N	C	
VCR./ENCODING/INTERFERENCE/VERTICAL BLANKING/JFET.	AD	6	N	N	C	
TUNGSTEN/PHOTOELECTRON/MONITOR/200-1200 ANGSTROMS	A	7	N	N	C	
BC.-BAND AM./TIME-STANDARD/FREQUENCY-CALIBRATION	AD	3	N	N		3
10HZ/+0.01V/ZERO-ADJUST/LEAD-LAG INDICATION CCT	AD	8	N	N	C	
SAMPLE/HOLD/VFC./PROGRAMMABLE GAIN AMP.	AD	9	N	N	C	
Q-COMPENSATION/Q IMPROVEMENT AT HIGHER FREQUENCIES	A	4	N	N	C	
VARACTOR DIODE/20MA/5V/P-TO-P VOLTAGE/IS 600MV	A	2	N	N	C	
LINE-MATCHING		1				
VFC./PULSE GENERATOR	AD	9			C	
DUAL JFET. OA./RESISTANCE/ZERO ADJUST	A	3	N	N		
SPICE/PHOTODETECTOR/CAPACITANCE REDUCTION/FEEDBACK	A	5	N	N	C	
PERIPHERAL/TTL./16-BIT COUNTER/FF./LATCHES	DA	9	N	N	C	
SHUTTER/TRANSVERSE FIELD MODULATOR/DYE	A	9	N		C	
GOOD LINEARITY/LOW POWER/SMD./DETECTION/PHOTONS	A	8	N	N	C	
DURATION, WAVESHAPE, LATENCY, AMPLITUDE & SNR.	AD	7	N	N	C	
RISE TIME <=1.4NS/~100PC TO ~8000PC/ACCURACY/1%	AD	5	N	N	C	61
BALANCED MIXER/NOTCH FILTER/VFO. BUFFER	A	8	N			
SLOWLY VARYING SIGNALS/E-B JUNCTION/APPLE II/6821	AD	1	N	N	C	
REFERENCE VOLTAGE/UP./PULSES/3.58MHZ CLOCK/GATE	AD	2	N	N	C	
SINGLE-CHIP UP.S/BASIC PROGRAM/ZILOG/LED. DISPLAYS	AD	4	Y	Y	C	
SH./LPF./DC. DRIFT/EMI./DIODE	A	4	N	N	C	
MAGNETIC COUPLING/ISOLATED SECONDARY/INDUCTORS	A	3	N	N	C	
FET./VERY HIGH INPUT IMPEDANCE/AUDIO/CAPACITORS	A	3	N	N		
TIME-TRIGGER CLOCKING/RECORD/<\$20/1-TIME PROGRAM	DA	6	N	Y		
72-CHARACTER/OB-CHIP ROM. & RAM./REGISTERS/LED.S	DA	8	Y	Y		
ZERO-CURRENT-SWITCHING/RECTIFIER/MOSFET.S	A	7	N	N	C	
SCAN ADC. (SADC)/HIT-PATTERNS/SH./12-BIT	AD	4	N	N	C	
20DB VOLTAGE GAIN/FROM 0.5 TO 50MHZ/NE592/RF.	A	2	N	N	C	
FAST/UP./NAND GATE/INVERTER/INVERTER/LATCH/FF.S	DA	9	N	Y	C	42
MEMORY/COMPARATOR/DISCRIMINATOR/TTL./FF.S/BCD.	DA	5	N	N	C	61
REPROGRAMMABLE/HOST CPU./RETAINS ITS DATA/ZMEM	D	2	N	Y		
SCR. SMOKE ALARM/SCR. SLAVE FLASH/LASCR./LAMP	A	2	N	N	C	
IBM PC./APPLE II/USER CONTROLS/SINGLE SHOT/TIMER	AD	3	N	N	C	
OA./>100KHZ/OVERVOLTAGE PROTECTION/OFFSET/GAIN	A	4	Y	N		
TEST COIL/PARALLEL CAPACITANCE/SWITCHING PS.S	A	2	N	Y	C	
ANALOGUE TO COMPUTER INTERFACE/ACTIVE	A	2	Y			
SYNCHRONOUS/MYOTELEMETRY IMPLANT/RAMP GENERATOR	AD	5	N	N	C	
RESETTING CCT/NONLINEAR/INTEGRATOR/COMPARATORS	AD	5	N	N	C	39
CLOCK/AUDIO/RACE CAR/DOG'S BARK/AIRPLANE	AD	1	N		C	
PHASE WINDINGS/TIMING/HV., HIGH-CURRENT DARLINGTON	DA	3	N	Y	C	
RIAA/RECORDS/SURFACE SCRATCHES/NOISES/BLENDING	AD	4	Y	N	C	
FAST/LOW-BIAS-CURRENT/FF./ANALOG SWITCH/ATE.	AD	9	N	N	C	

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CARDIAC PURKINJE FIBRE/TRANSMEMBRANE/AMPLITUDE	AD	6 N	N	C	
PULSE HEIGHT & TIME SYSTEM/PHT/ECL./FF./JFET./PMT.	DA	9 N	N	C	12
1PF TO/4000UF/UPDATES READINGS	DA	6			
SYMMETRY/INTERNAL SWITCHING THRESHOLDS/CAPACITOR	AD	1 N	N	C	
HUM-FREE/LOW-NOISE OA.S/ALTERNATIVE TO/TRANSFORMER	A	1 N	N	C	
32-BIT/BIT SLICE/FLOATING-POINT/BARREL/FIFO./CMOS.	D	5 N	N	C	
DUT./RAM./DETECTOR-LATCH-BUFFER CCTS/MICROCOMPUTER	DA	5 N	N	C	
VOLTAGE REFERENCE/FIR./INTERPOLATION FILTER/NOISE	AD	9 N	N	C	
IF. TRANSFORMER/OUTPUT/SOUND/VALVE	A	5 N		C	
CYLINDRICAL DRIFT CHAMBERS (CDC'S)/12-BIT ADC.	AD	5 N	N	C	
SUMMING AMP./LOW-DRIFT/REFERENCE VOLTAGE/ADC.	AD	1 N	N	C	
PROGRAMMABLE OPTION SELECT/DMA./ASCII./CCITT./FAX	D	6 N	N	C	
EUR 6500/XL SYSTEM CRATE/ALU./LOGIC/REGISTER FILE	D	9 N	N	C	
STABILIZED/REGULATED/5-RANGE/PRECISION/DVM./JFET.	AD	5 N	N	C	
EXACT AMPERE-TURN BALANCE/CORES/EMF./HF. STABILITY	A	7 N	N	C	
WAVEFORM GENERATOR/ATTENUATOR/OA.	AD	4 N		C	
SOUND INTENSITY/REVERBERANT/REFLECTIONS	A	3 N			
NOISE BLANKER/SPIKES/ICOM IC-701/PULSE SWITCHING	DA	5 N	N		
GNATHOLOGY/WAVEFORM ANALYSER/AUTOMATIC/COMPARAT	DA	4 N	N	C	
TRICKLE CHARGED/UP.S/VIA./MM58167/BASIC/DATE	DA	3 N	Y		E
DISK INTERFACE/WINCHESTER-DISK DRIVE/ST-506/5.25IN	D	4 N	Y	C	
LONG SCINTILLATION COUNTERS/FAST COMPARATOR/TIME	AD	4 N	N	C	
ADC./SPEECH/SNR./DSP./LCMV/EPLD.S/BEAMFORMER/MDAU	AD	9 N	N	C	42
TRANSFORMER/WINDOW/VOLUME/RED-YELLOW-GREEN/MUSICA		2 N	N		
DEDICATED/LOW-COST/MICROCOMPUTER-BASED	D	5 N		C	
BFO./TONES OF DIFFERENT PITCHES/EARS	A	3 N			
GRAF-VEC/TV./ZX81 BASIC PROGRAM/PSU/Z80	AD	6 Y			
MOTOR CONTROL/SIGNAL COIL/DISCHARGE/V24	A	7 N		C	
ACCURACY OF 100 PARTS PER MILLION		1		C	
BATTERY LIFE/MEMORY/DEPOSITS		3			
		1			
VECTOR-GENERATING/ARCADE/MEMORY/CMOS./GATES/4MHZ	DA	9 N	Y	C	
MULTIVIBRATORS/4-DETECTOR/TIME-DIFFERENTIAL/PAC	DA	5 N	N	C	
60HZ FILTER/10V PRECISION VOLTAGE REGULATOR/\$40.00	AD	6 Y	N	C	
MATCH/STUB/CAD./HPA/MICROWAVE SEMICONDUCTOR CORP.	A	4 Y	N		
OA.S/QUANTITATIVE ANALYSIS/1-SHOT/TTL./NAND GATE	AD	7 N	N	C	
LED./GAAS. IR./LASER/PHOTOCELL/PHOTOVOLTAIC CELLS	AD	3 N	N	C	39
90DEG/180DEG/PHASE/LAGS/WINDING/STEPPER MOTORS	A	1 N	N	C	35
MICROPROGRAMMED/AM2901 UP./LATCHES/THERMODYNAMIC	D	2 N	N	C	
LEVEL DETECTOR/<0.01% THD./-10DB OVERALL CCT GAIN	A	1 N	N	C	
STEREO TV. SOUND/PAL/FM./BASEBAND/DQPSK./ITT	AD	5 N	N		
SCR./DUAL COMPARATOR/C SIZE CELLS/AA/TRANSISTOR	A	2 Y	N	C	
GLUE LOGIC/HARD-DISK CONTROLLER/RLL CODE	D	9 N		C	
BATTERY-ISOLATION & POWER-FAILURE-DETECTION CCT	DA	9 N	Y	C	
PURE TONE/800HZ/LIGHT/SHAPING/ATTENUATOR/RC.	A	2 N	N		
1KHZ/OTA./DIFFERENTIAL INPUT AMP./DVM./WIEN BRIDGE	AD	5 Y	N		
OSCILLATOR/FLASH/3HZ/LAMP-ACTIVATOR SWITCH/BULB	A	2 N	N	C	
AC./SOLUTION	A	2		C	
UP. BUSES/LITHIUM/INTERFACING	DA	7 N		C	

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DECORATIONS/CYCLED/OSCILLATOR/RED/GREEN/YELLOW	AD	4 Y	N	C	
BFO./MIXER/2 FREQUENCY CRYSTAL CONTROLLED/KEYER	A	4 N	N	C	
COLOR/REALTIME/MAGNIFY/WEATHER FACSIMILE	AD	5 5			
MUONS/PULSE/SENSE WIRES/CURRENT-TO-VOLTAGE/SHIELD	AD	9 N	N	C	12
ECL./NAI(TL) SCINTILLATORS/DETECTOR/NIM/COMPARATOR	DA	9 N	N	C	61
BETTER THAN 0.5DB OVER A 60DB RANGE/BEYOND 100KHZ	A	1 N	N	C	
RS-232C/ANSI./DTE/DCE/FRAME CHECK SEQUENCE/ASCII.	A	6 N	N		16
CRYSTAL/MICROCOMPUTER/LED./8085/ALARM/IO./MEMORY	D	9 N	N	C	
STORAGE CAPACITY/DISCHARGE TIME/1V REFERENCE	A	4 Y	N	C	
DUAL LOW-NOISE, 4-CHANNEL ANALOG SWITCH/A-V/LED.S	AD	4 Y	N	C	
RECOVERING/SHORTED NICD.S/CHARGER/LED.S/INDICATION	A	3 Y	N	C	
TELEPHONE ACCESSORY/TIMER/COMPARATOR	AD	5 Y		C	
WEATHER-SATELLITE FACSIMILE/IR./INTERFACE/TAPE	AD	9 N	N	C	
0.05H/20H/ACCURACY OF ~5%/COILS/CHOKES/BASIC	AD	1 Y	Y	C	
IRRADIATION/SPIN DECOUPLER/CHEBYSHEV/FILTER	AD	7 N	N	C	5
FILTERING/BURST FREQUENCY/BAUD RATE	DA	1 N			
WIRELESS CONTROL/TRINARY CODING/FF. LATCHES	AD	5 N	N	C	
CW., SSB., & AM./ANTENNA INPUT/DX/LISTENERS/SIMPLE	A	1 N	N	C	
OA./SWITCH/SHARP TUNGSTEN TIPS/WIRE/IMPROVED	A	3 N	N	C	
BATTERY BACK-UP/BURGLAR ALARM/SENSOR	AD	4 N		C	
PHYSIOLOGICAL MEASUREMENT/ELECTRICAL STIMULATION	AD	3 N	N	C	
CMOS./PTT./TRANSMISSION/LED.S/TONE/COMMUNICATIONS	DA	6 Y	N	C	
<\$100/ADC./DAC./SH./ZERO-ORDER-HOLD/IO.	AD	7 N	Y		
WINCHESTER DRIVE/5.25IN/6.3MBYTES/MICROCOMPUTER	DA	1 N	N	C	
PHOTOTRANSISTOR/COMPARATOR/SCHMITT TRIGGER	DA	2 N	N		
LED.-PHOTOTRANSISTOR/OFFSET-GAIN BLOCK/DAS./FLOW	AD	9 N	N	C	E
RANGE 1MV TO 1V FULL SCALE/4HZ/EXTREMELY LINEAR	AD	4 N	N	C	91
VOLTAGE-TO-FREQUENCY/UP.	AD	5 N		C	
ERROR-CORRECTION/12-BIT/LINEARITY	AD	9 N		C	
LOW-COMPLIANCE/DBM./LPF./QUARTZ PLATE/VARIATION	A	2 N	N	C	
HIGH-SPEED OA./RELAY/HORIZONTAL WINDOW/BACKPORCH	AD	2 N	N	C	
BATTERY PACK/REGULATOR/MEMORY/10MA TO 150MA/TIMER	A	2 N	N	C	
ASTABLE MULTIVIBRATOR/ANALOG SWITCH/FILTER/140KHZ	AD	6 N	N		
VARISTOR/CHARGE RATE/CURRENT/"MEMORY"/CELL/PLATE	A	3 N	N		
WEAK/PHOTODIODE/ULTRA-HIGH BRIGHTNESS, RED/<\$100	A	3 N	N	C	
CHANNELS/FIELD DATA-LOGGING/WINDS/TEMPERATURES	AD	3 N	N	C	
PRINTER/INTERBEEB/DISC DRIVE/VDU./ADC.	AD	7 N		C	42
PARALLEL USER PORT/MONITOR/COMMODORE/MICROCOMPUTAD	AD	8 N	Y	C	42
TUBE/PS./PRESSURES/FET.-INPUT OA./ELECTROMETER	A	3 N	N	C	
BANDPASS ACTIVE FILTER/AVERAGING CCT/REFLECTANCE	A	3 N	N	C	
RS-232/FF./COMPUTER/THUMB-WHEEL/BCD. SWITCHES	DA	7 N	Y	C	
3 BIT RESOLUTION/HT./DECADE COUNTER/SPECIMEN/LIGHT	DA	2 N	N	C	
SIMULTANEOUSLY/ADDER/DAC.S/NUMERAL FORMING CCT	DA	2 N	N	C	
BETTER THAN +-2%/PHA.S/WILKINSON/NIM/PEAK DETECTOR	DA	5 N	N	C	
SENSOR CORE/PSD./RC. LPF./PHASE SHIFT/MEASUREMENT	A	3 N	N	C	
80HM/SHIELDING/HEADPHONE/MONITOR/INPUTS/OUTPUTS	A	6 N	N	C	
GET -12V FROM A +5V SUPPLY	A	4		C	
RF. FILTERING/VHF./UHF./MULTIPLIER	A	8			
IF. AMP./OSCILLATOR/INTEGRATOR	AD	5 N		C	

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SENSING RESISTOR/LED./CURRENT-LIMITING	A	1 N	C	
PROTECTION/CUTS OUT AUTOMATICALLY	A	1	C	
DIGITAL VOLTMETER/STABILITY/DVM.		2		
SOUNDS/MUSICAL ACOUSTICS/AUDIO/DATA/WAVE ANALYSIS	AD	5 N	Y C	
DATA CONVERSION/VLF./LOGICAL 1/0/TAPE/ECG.S/ADC.	AD	4 N	N C	
DISTORTIONS/INDUCTIVE FLOWMETERS/COUNTER	DA	2 N		
BEAM/THICKNESS/PLATES/GEOMETRY/PARTICLES	A	7 N	N C	
		2		
SYNCHRONIZED/MAINS/ZCD./ISOLATOR	DA	6 N	N C	
IO. EXPANSION BUS/BASIC-180/MEMORY/RS-232C/RS-422	D	9 N	N C	
RADIANT/CELESTIAL/SHOWERS/ASTROPHOTOGRAPHY/FILM	DA	4 N	Y	
EXCLUSIVE-OR BUS/COLLECTORS/1 SHOTS/TTL./ARGONNE	D	9 N	N C	61
280HZ/IN ~3.9S/THRESHOLD/LIKE A SELF-BIASED SCR.	AD	1 N	N C	E
GAIN/CRYSTAL/DYNAMIC/CONDENSER ELECTRET	A	3 N		
CHARGING/G.E. NO. 41B901CD05/PACK/CELL	A	1 N		
MATCHING NETWORK DESIGN/STABILITY/GAIN/20DB	A	7 N	N	
PLL./VCO./LOOP FILTER TIME CONSTANT/SYNTHESIZER	A	3 N	N C	
VVXCO/VOLTAGE VARIABILITY/FREQUENCY CONTROL/RF.	A	1 N	N	
500HM TEST CCT/LADDER FILTER/SSB. FILTER	A	6 N	N	
BUFFERS/SOFTWARE/QUITE FAST/5 INEXPENSIVE IC'S	DA	1 N	N C	
CURRENT-FEEDBACK OA./POWER-UP/POWER-DOWN/LOCK UP	A	1 N	N C	
ECG. MONITOR/ASTABLE MULTIVIBRATOR/ARTEFACT/LED.	A	2 N	N C	
PLATE DEFLECTION/DEAD WEIGHT LOADING	A	8 N	C	E
INTELLIGENT/ZENER/ELECTRIC CLOCK/LED.	AD	4 N	C	
BIPOLAR/BACK-TO-BACK/7MHZ/Q FACTOR/MV2301/MVAM-1	A	5 Y	N	
INDUCTANCE/COUPLING/FEEDBACK CAPACITORS/DIALS/KNOB	A	6 N	N	
ON RESISTANCE/TIME DIVISION/OSCILLATOR	AD	3 N		
FEEDBACK/80M CW. RECEIVER/VARACTORS/6.572/6.872MHZ	A	3 Y	N	3
MILLIKELVIN/FREQUENCY/FET.S/COIL/CAPACITOR	A	2 N	N C	
TUNING DIODES/AMP.S/WIDE RIT/RECEIVE/TRANSMIT	A	2 N	N	
LOW-NOISE (1NV-ROOT HZ)/LF. CUTOFF OF 1.6HZ	A	1 N	N C	72
MJ15012/CURRENT SENSING RESISTOR/74154/DAC.S	AD	3 N	N C	
VOLTAGE-CONTROLLED/QUENCH/TRANSMIT/FTMS/CELLS	AD	6 N	N C	
RADIATION INTENSITY MEASUREMENT/HIGH PRECISION	AD	7 N	N C	
BALANCED TRANSMISSION LINE/DRIVER/RS-485/EIA./LOAD	D	7 N	N C	
REDUCTION IN CODE-TRACK NUMBER/DISK/BINARY PATTERN	D	6 N	N C	
CANCER/DAC./IBM/COMPUTER/RAMP REFERENCE/COMPARATCAD		3 N	N C	
POWER FAILURE/TIME/LITHIUM/RECHARGING CURRENT	A	2 N	N	57
HAND-HELD TRANSCEIVER/LEAK/LOCATING	A	5 Y		
FILTER ATTENUATION/EMI./POWER/MIL-STD-461B CEO3	A	9 N	N C	
CELL LIFE/LOAD/OVERLOAD WARNING CCT/LED./"MEMORY"	A	3 N	N	E
MATCH/NF./SWR./PI-NETWORK/RESISTOR	A	2 N	N	
MULTIPLIER/GC./QUADRUPOLE MS.	A	4 N	N C	E
RTTY. DEMODULATOR/AFSK. TONE GENERATOR/RTTY. MODEMA		2 N	N C	94
FEEDBACK/INDUCTANCE/COIL/FERRITE CORE/HORSESHOE	A	3 N	N C	
LIGHT BEAM/PC/CONDENSER DISCHARGE/LIGHTHOUSE TUBE	A	8 N	N C	12
500MSAMPLE-S SH./FF.S/DATA HANDLER	DA	6 N	N C	12
CONTROL RELAY/FILTER-SWITCHING RELAY	A	2 N		
EASY TO BUILD/PORTABILITY/OK/RECTIFIED/DIODES	A	1 N	N C	

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GLUE-FREE INTERFACE/2KX8-BIT DUAL-PORT SRAM./ID	D	2	N	N	C	
TV. SETS & VCR.S/RGB. OR YUV/RAM./DAC.S/PLL./VCO.	AD	9	N	N	C	
OA./MICROCOMPUTER/MAGNETIC RESONANCE IMAGING/IO.	AD	3	N	Y	C	
DPDT./SELECT 1 OF 2 FRONT ENDS/FEEDBACK/ECL. INPUT	AD	1	N	N	C	
38.500MHZ CRYSTAL/ICM/1.25M/2M HT/VHF./HANDHELD	A	3	N	N		
LSI./LED. DISPLAY/RF./PHASE-LOCKED OSCILLATOR	AD	3	N	N	C	
SEND/RECEIVE/MONITOR/AUDIO TONES/SCAN	DA	6	N		C	
COMMODORE C-64/VIC-20/COMPUTER	AD	3				
LIGHT INTENSITY/OXYGEN/ABSORBANCE/RED/IR. LED.	AD	4	N	Y	C	AG
PHASE MODULATION/SIDEBANDS/VHF./UHF.	A	3	N			
GOOD FIDELITY/LOW DISTORTION/BUFFER AMP.	A	2	N	N	C	
ADC./MICROPHONE/SPEECH/MOVEMENT/EATING/TALKING/JAW	A	4	N	N	C	
EDTA/DTPA/EGTA/REAGANTS/IONIC STRENGTH/TEMPERATURE	A	7	N	N	C	
ACTIVE/FDNR/FREQUENCY-DEPENDENT NEGATIVE RESISTOR	A	5	N	N	C	
REVERSED-BIASED/LED./TRANSMITTER/DATA/STERADIAN	A	8	N	N		
LOW-NOISE/IMRR/GALVANIC ISOLATION/PATIENT/BARRIER	A	4	N	N	C	
BETWEEN 100 & 140VAC./N-CHANNEL/MEASURED/MONITORED	AD	2	N	Y	C	
CLOSED-LOOP GAIN/TRANSIMPEDANCE/HIGH SLEW RATE	A	5	N	N	C	
ELECTRONIC CAPACITOR/TUNED CCTS/COIL	A	4	N			
ANGER/CAMERA/BGO CRYSTALS/TAC./PHOTODIODE/COMPUTE	A	5	N	N	C	
RADIO-AMATEUR/SOURCE-FOLLOWER/VERY SHORT ANTENNA	A	4	Y	N	C	
CATV./VCO./MC6805/PRESCALER/MOTOROLA MC6190	AD	6	N	N	C	
PMI/HIGH SPEED CURRENT-FEEDBACK OA.S/CONSTANT BW.	A	2	N	N	C	
EQUIVALENT SERIES INDUCTANCE (ESL) & ESR./STORAGE	A	9	N	N	C	39
RASTER/TV./CRT. CONTROLLER/HORIZONTAL/VERTICAL	A	3	N	Y	C	3
TURNTABLES/SYNCHRONOUS MOTOR/<0.5%/THD.	A	7	N	N		
DIVIDER/SHORT CCTS, PROTECTION/CURRENT-LIMITING	A	2	N	N	C	
FULL BREAK-IN/MMIC./MIXER/POWER TRANSISTOR/FET.	A	4	Y	N	C	
1A BRIDGE/WALL TRANSFORMER/AC. SOURCE/CAPACITORS	A	1	N	N	C	
RF. AMP./BW./INTERFERENCE/DOWNLINK/JFET./LO.	A	5	N	N		
MULTIPLIER/VCO.	A	1	N			
20W/7.5V/4.3MHZ AT FULL LOAD/EFFICIENCY OF 75.4%	AD	9	N	N	C	
SWITCHED CURRENT SOURCE/100NS SWITCHING TIMES	DA	1	N	N	C	
RIPPLE/TEMPERATURE/AMP./FEEDBACK/OUTPUT IMPEDANCE	A	5	N	N		
FSK. IN/DATA OUT/VHF./AUDIO/RECEIVER	AD	2	N		C	
	A	2	N		C	
RESONANCE/DISTORTION/DIAPHRAGM/COIL/INERTIA/DRIVE	A	9	N	N	C	12
METAL DETECTORS/ELECTRONIC IGNITIONS/CHERRY	A	2	N	N	C	
NOVRAM./HOME RUN CONTROL	D	9			C	
VOLTAGE STRESS/SWITCHING/INDUCTANCE/ENERGY/POWER	A	9	N	N	C	
20HZ-20KHZ/VCA./THD./IMD./PRECISION-RECTIFIER/OA.	A	2	N	N	C	
RADIO/DISPLAY/CRYSTAL/PRESCALER	DA	6			C	42
32 BITS OF ROM./UNIQUE SERIAL NUMBER/ECONORAM.	DA	8	N	Y		
CB. CHANNEL OR 2M REPEATER/AUDIO AMP./DTMF.	AD	7	Y	N	C	
MONITOR/DECIPHERS/NUMBERS/LONG-DISTANCE PHONE USE	AD	5	N	Y		
AMBER/OVERLAPPING DATA/ADDRESS DECODING CCT/PULSES	D	1	N	N	C	
110VAC./POWER SWITCH/LSI SYSTEMS/100W LIGHT BULB	AD	8	N	N	C	
AUDIO/GAIN/OA.S/DC.-COUPLED/FEEDBACK/HF./LF. LOOP	A	2	N	N	C	
IA./COMPARATOR/CHARGE PUMP/DIODE BRIDGE/INTEGRATOR	AD	2	N	N	C	

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RAMP/CMOS. INVERTER/SCHOTTKY CLAMP/REFERENCE/TC.	AD	2 N	N	C	E
CHARGE/PS./SHOCK WAVE/EXPLOSIVELY/QUARTZ CRYSTAL	A	7 N	N	C	
LINEARIZE A TRANSDUCER/PROCESSOR-DRIVEN/1.5V/125UA	AD	9 N	N	C	
HAZARDOUS LOCATION/PS.S/PROTECTED/TRANSMITTERS	A	4 N	N		
POSITIVE/ENERGY TRANSFER/40KHZ/OSCILLATOR/SERVOING	A	1 N	N	C	
BATTERY-POWERED APPLICATIONS/INDUCTOR/CLAMP DIODE	A	1 N	N	C	
ADC.S/COMPARATOR/FET. AMP./TIME INTERVALS/HEATERS	AD	9 N	N	C	57
RC. FILTER/SOURCE CURRENT/REGULATION IS 10 PPM-V	A	1 N	N	C	
ADC./MOSFET./START/STOP	AD	6 N		C	
VOLTAGE REFERENCES/AMP.S	A	1			
PS.S/TRANSISTOR/GATE/0.028OHM/SHORT-CCT PROTECTION	A	1 N	N	C	
DISTORTION OF 0.0003%/SYNCHRONOUS DETECTION	A	9 N	N	C	
CONTROL/1.25M BAND/RF. AMP./KENWOOD	A	5 N			
QUARTZ CRYSTAL/SETTLING TIME/WIDE-RANGE VCO./SPEED	AD	9 N	N	C	
COUNTS PULSES/INTEGRATOR/HIGH-SPEED/LEVEL SHIFTER	AD	9 N	N	C	
LED./LIGHT SOURCES/ELECTRON BEAM/MAGNETIC FIELD	AD	9 N	N	C	
PAR/PLANT/PHOTOCELLS/AGROFORESTRY/COULOMETER	AD	9 N	N	C	E/76
10KHZ TO 500KHZ/2.5V/SINEWAVE/MULTIVIBRATOR	A	2 N	N		
CMX-4/BIT DIGITAL MUX./LASER FIRING/SPECTROSCOPY	DA	7 N	N	C	
T-SWITCH/FLYING-CAPACITOR MUX./OPTICAL ISOLATION	DA	5 N	N	C	E/57
116MHZ OVERTONE CRYSTAL/GAASFET./LPF./LNA./HF. RIG	A	7 N	N		
SWITCHING FREQUENCY IS 150KHZ/LOSSES/ON-RESISTANCE	A	2 N	N	C	E
ANTENNA/SMD./MODULATOR/AMP./PEDESTAL CLAMP/MATCH	A	3 Y	N	C	
UV. PREIONIZER/LIGHT/HIGH-EFFICIENCY/LASER TUBE	A	2 N	N	C	
SLAVE/WIDE BAND FM./INTERMEDIATE BAND FM./DATA	AD	4 N	N		
MICROCAL MC-1/APPLE II PLUS/DATA/ADC./UART./BCD.	DA	6 N	N	C	
GRID/HV./110MHZ/TUBES/ANODE CURRENT/RF. CHOKE	A	1 N	N		
CHANGEOVER FOOTSWITCH/BILATERAL SWITCHES	AD	1 N			
NON-2^N/GAAS./D FF./DELAY/FEEDBACK/GIGABIT LOGIC	D	8 N	N		
STEREO/SPEAKER RESPONSE/EQUALIZER/FILTER	AD	6 Y		C	
DAS./MEASUREMENT/HEATER POWER/RESISTANCE BRIDGE	DA	5 N	N	C	
RCA 1802/ELF/MEASUREMENTS/COMPUTERS/ANALYSIS/DATA	AD	5 N	N	C	
20HZ-20KHZ/RESET/1500HZ-2500HZ/2.0VDC.-5.0VDC.	AD	2 N	N	C	94
		4			
CURRENT/LIMITED/INTERNAL RESISTANCE	D	1		C	
DIGITIZES VOICE/COMMUNICATION/TELEPHONE	DA	8 N		C	
CCITT./LOWPASS/HIGHPASS/PHASE COMPARATOR	AD	5 Y			
TRIAC/BRIGHTNESS/NEON GATE	A	1 N			
SIGNAL, TIMING, & LOGIC		3		C	
IMPEDANCE/RESISTORS/NODES/LOADING/ERRORS/GAIN	A	4 N	N	C	
8-CHANNEL LOGIC ANALYZER/UP./IO. PORT/IBM PC.	DA	9 N	N		
CORRECT SEQUENCE/LATCH CCT/KEYBOARD/3 PHASE/FF.	DA	2 N	N		
LED./WPM/DOT RATE/CLOCK PULSES/SENDING/COUNTER	D	2 N	N	C	
TRANSCIEVER/BETTER NOISE FLOOR/IF.-AF.	AD	9 N			
125KV/5.5MW/PULSE/1300.3MHZ/SWITCH TUBE/TRIODE	A	5 N	N	C	12
FIX/FILTER OUT/BINARY COUNTER & OSCILLATOR	DA	1 N	N	C	
BCD.-TO-DECIMAL/COMMON ANODE/CATHODE/SEGMENTS	D	4 Y	N		
VOXCONS/PARALLEL PORTS/OPTO-ISOLATOR/CREATE SOUND	DA	4 N	N	C	
ADC. AMP./LIMITER AMP./TTL./HARMONIC/NEUROLOGY	AD	6 N	N	C	

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DAC./ADC./CURRENT-CONTROLLED INVERTER/CPU./PC. BUS	DA	9 N	N	C	
UNCONVENTIONAL/OPTICAL FEEDBACK/VCO./SPEED ADJUST	AD	1 N	N	C	
ASCII./MUX./CHARACTER-GENERATOR ROM./CURRENT-LOOP	D	9 N	N	C	
IO./NRZ./50MA ON & OFF/<5NS/BIT-ERROR RATES/BER'S	AD	4 N	N	C	
DAC./PULSE GENERATOR/COUNTERS/LATCHES/ARC LAMP	AD	5 N	N	C	
CASCADE/128 BITS/0.0005MA ON STANDBY/0.55MA/9V	D	1 N	N		
VARICAP DIODE/PRODUCT DETECTOR/PROGRAMMABLE/AGC.	AD	9 N	N		
~1A FROM A 13.5V POWER SOURCE/4W/HEATSINK/DIODE	A	1 N	N		4
TV./VERTICAL BLANKING/BASEBAND COMPOSITE VIDEO	AD	2 N	N	C	
DIGITAL SINEWAVE GENERATOR/LCD./WEIGHT	DA	5 Y			
ANTENNA/SPEAKER/AMP./TUNED CCT	AD	3 N		C	
LINEAR MODE/DIGITAL IC'S/INVERTERS/MOSFET./ESD.	DA	4 N	N		
SLOW SCAN/VIDEO/PICTURES/RASTERS/LINES/RGB./GREEN	D	3 N	N		
LOGIC/PATTERNS/SIMPLE/DIGITAL/MASTER RESET CCT	DA	4 N	N		
FF./>500MHZ/1.8GHZ/VERY SHORT INPUT PULSES (<2NS)	AD	6 N	N	C	2
OSCILLATOR/VARIETY OF NOTES/CHORDS/ECHO	D	1 N			
MOD.S/SIDETONE/WEIGHT	A	4			
PULSE DELAY/MEMORY/HRM/PULSE RATE/CMOS./16667HZ	D	3 N	N	C	
MIDISEQ/TRACKS/EPROM./SRAM./COMMUNICATIONS PORT	A	3 N	N		
DMA./MICROCOMPUTERS/INTERFACE/TV./CODE	DA	4 N			
VALVES/ELECTRODE/EXPANSION PORT/DATA	DA	4 N		C	
ROM.S/THUMBWHEEL/SWITCHES/TTL./MEMORY/STIMULATOR	D	9 N	Y	C	42
UART./INSTALLED SOUND SYSTEMS/AUDIO/PC./PORTS/RAM.	DA	9 N	Y	C	
RAM./ADDRESS COUNTER/DECODER/SYNCHRONIZATION CCT	D	8 N	N	C	
PRETRIGGER/SHIFT REGISTER/DELAY LINE/\$200/20NS	DA	3 N	N	C	
1024-BIT/"SHADOW"/SRAM./STORE/RECALL/READ/WRITE/5V	D	5 N	N	C	
CENTRE POSITION/MOD./DRIVE/ROTATION	A	1 N			
TRANSDUCER/DRIVER/COUNTER-DIVIDER/LOGARITHMIC	DA	7 N	N	C	
SOFTWARE/PROCESSOR/DOS./BIOS./DMA./IO./ADC.	DA	9 N	Y	C	42
SDK 85/PC./Z-AXIS MODULATION/BRIGHTEN/VIDEO/DAC.	AD	9 N	Y	C	
ROBOT 400/SLOW SCAN/PICTURES/APPLE II COMPUTER	D	3 N	N		
DC.-DC. CONVERTER/TUBE/COMMON-CATHODE/VOLTAGE GAIN		6 N	N		42
SCANNER/NEON		2		C	
INDUCTORS/CAPACITANCES/RECEIVER COUPLER/1M WHIP	A	4 Y	N	C	
JFET./VIDEO RF.-IF. AMP./PEAK DETECTOR	A	4 N		C	
GATE ARRAY/JUMPER/DRIVES/MOV./RAM.	D	9 N		C	
SYNTHESIZER/AUDIO EQUIPMENT/BISTABLES/PCB.S	D	5 Y	N		AJ
LINE DRIVER/RECEIVER/TRANSDUCER/COMMUNICATIONS	DA	6 Y	N	C	
OPTOCOUPERS/IO./INEXPENSIVE/DIGITAL/IBM/REGISTERS	D	3 N	N	C	28
SIMPLE BUFFER/7473/DASH/DOT/"OR"/LATCH	D	1 N	N		
PCB./UP./KEY/DIODE/DISCHARGE/RADIO/RESISTOR/PACKET	DA	2 N	N		
COMPUTER/UP./AY5-1013/INTERFACES/PDP-11 PROCESSOR	DA	6 N	N	C	3
RESET/DATA SYSTEM/MS./HRMS/HRGC.	DA	3 N	N	C	
VIDEO/COUNTERS/COMPARATORS/NICOLET III/TRIGGER	D	3 N	N	C	
RACE CONDITION/LOADS/PROPAGATION DELAYS	D	1 N		C	
BATTERIES/VOLTAGE/RED LED./COMPARATOR	A	1 N			
INHIBIT GATE/OUTPUT/LOCKOUT FF.	D	2 N		C	
REVERSE/UNDERLINING/BLANKING/BLINKING	D	6 N		C	
RAMP GENERATOR/DIODE/SYNTHESIZE/GATE	AD	7 Y			

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PULSE TRAIN/PEAK DETECTOR/COMPARATOR	DA	2 N	C	
BCD.-TO-NIXIE TUBE/REGULATOR/ZENER/DRIVER	AD	2 N		
CONNECT/HANGS UP/COMPUTER/REMOTELY/TIMER	AD	3 Y		
UNEQUAL ON & OFF PERIODS/SQUARE WAVE/LINEARIZATION	A	4 N	N C	
4-BY-4 REGISTERS/SIMPLE DRIVING SOFTWARE/DATA	D	1 N	N C	
DTMF./DIGITAL DIALING/SWEEP GENERATOR/2-TONE/USER	A	1 Y	N C	
RAZOR-SHARP SELECTIVITY/HAM/RECEIVER/IMPEDANCE	A	2 N	N C	
UP.S/3 BIT COUNTER/7 SEGMENT/TTL./LOGIC STATE	DA	3 N	Y C	
BCD./THUMB WHEEL SWITCHES/LATCHES/LED. DISPLAY	DA	2 N	N C	
~\$30/DEBOUNCE/DUAL 2-BIT TRANSPARENT LATCH/SIMPLE	D	5 N	N	
TRANSCEIVER/LOUD-SPEAKER/SWITCHES	DA	6 N		
CASCADE STAGES/FEW MHZ/SHIFT REGISTER	D	2 N	C	
RECORDING/POWER SYSTEM FREQUENCIES/LOAD SHEDDING	AD	7 N	N C	
HEAVY SLEEPER/TURN ON LIGHTS/FF./ALARM	DA	1 N	N C	
UJT. OSCILLATOR/COIL/JFET./STRAYS/INTRUDERS/IR.	A	3 N	N C	
SERVO/TRANSIENT REACTOR TEST FACILITY/FUEL BUNDLES	D	4 N	N C	
START/STOP FREQUENCY/SWEEP/FSK. DATA/GATE	D	1 N	N C	
BLIND AMATEUR/CHANGE OPERATING FREQUENCY	DA	5 N		
		1	C	
MORSE/TELEGRAPH KEY/BUFFER/PHONES/CLOCK	D	3 N	C	42
OPTOCOUPLER/INVERTERS/WITHOUT NOISE	DA	2 N	C	
RECEIVE 2 FREQUENCIES SIMULTANEOUSLY	A	3 Y		
3-DIGIT READOUT/STATE-OF-ART CMOS.		2		
DIVIDE-BY-N COUNTER		2		
WORD-PROCESSOR/ADC./DAC./CONVERTER/IO.	D	2 N	C	
DAC./COMPARATOR/PORT/CENTRONICS/BUS/VOLTMETER/Z80	DA	9 N	Y C	
KEYBOARD-PROCESSOR-MODULE-INTERFACE/TRS-80 MODEL I	D	9 N	N C	
TEST/LINES/CLOCK CCT/INDICATORS/68000/COMPUTER'S	DA	5 Y	N C	
TEMPERATURE & STRAIN/LOW-COST/IN-CCT & BATCH/PRT	A	4 N	N C	
2MHZ OSCILLATOR/REFERENCE FREQUENCY/SYNC PULSE	DA	4 Y	N	
DARLINGTON/PULSED CONSTANT-CURRENT	A	1 N	C	
PERIPHERAL TECHNOLOGY/FLEX/OS.-9	DA	1 N	N	
UP.-BASED/CONTROL LOAD SHEDDING & RESTORATION/ADC.	AD	8 N	N C	42
8-BIT SHIFTER/UP-DOWN COUNTERS/TTL.	D	2 N	C	
GATING/DATA/CALL LETTERS/EPROM./FILTER/LOW-PASS	DA	2 N	N C	
EXCITATION/MONITOR THE VIBRATION/AC./OSCILLATOR	A	2 N	N C	
FF.S/RFI./DISCHARGE/DIGITAL DELAY GENERATOR	D	9 Y	N C	25/39
8080/6800/UP./LATCHES/INTERFACING/EXTERNAL DEVICES	D	4 N	Y C	
DIVISORS UP TO 160/DECADES/1-TO-256 DIVIDER/BINARY	D	3 N	N C	
ADC./MONITOR/BIOMEDICAL MEASUREMENT/BLOOD PRESSURE	EA	5 N	Y C	
UART./CMOS./BUFFER/COMPUTER/DATA-TERMINAL	D	1 N	C	
DIVIDE-BY-N/ARITHMETIC/JAM SWITCHES/THUMBWHEEL	D	2 N	N	
LED.S/TRIGGER/PROBE/PROGRAM DEBUGGING	D	2 N	C	
ELECTRONIC MUSIC/SYNTHESIZER/KEYBOARD/COUNTER	DA	8 Y	N	69
FLASHLIGHT FINDER/RELAXATION OSCILLATOR/LAMP/SCR.S	AD	6 N	N C	
50HZ INTERRUPT/SCR./TRIAC/DECODER	DA	1		
OSCILLATOR/FAST CLOCK/IO. PORTS/Z80 CONTROL LINES	D	5 Y	N	
VOLTAGE DIVIDER/TRANSFORM/2.2 TO/72MHZ	DA	1 N	N C	
SCHMITT INPUTS/5UH TO 250UH/PS./BATTERY/REGULATOR	DA	2 Y	N C	

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VIDEO RAM./IMAGE PROCESSOR/OSCILLOSCOPE	DA	5 N	C
TI9900/2/8-BIT ADC.S/CONVERSION/FFT.	DA	3 N	C
TRANSFER ACKNOWLEDGE/INTEL ISBC 86-05/INTERRUPT	D	9 N	N C
INTERFACING/UP.S/SHIFT REGISTERS/DATA/CACHE MEMORY	D	5 N	N C
LED./PHOTOTRANSISTOR/COMPUTER/COUNTER/MOTOR/PTFE.	DA	7 N	N C
GRADED/REFRACTIVE INDEX/MICROSCOPE/DISPLACEMENT	DA	6 N	N C
PICK-UP COIL/HEXFET./PHONES/OA./FF./CMOS./2-INPUT	AD	4 N	N C
AT ADDRESS 37EEH/DECODER/LOGIC/DATA LINES/MODEL I	D	3 N	N
UNIDIRECTIONAL/INTERFACE/RADIO/TTL./SWITCHES	DA	5 Y	N
RAMP GENERATOR/FLOATING/GAAS. IRED./LINEAR COUPLER	A	3 N	N C
7-SEGMENT/3-STATE BUFFERS/LATCH/X100/X10 INDICATOR	D	2 N	N C
POKE/VIDEO MEMORY/CHARACTER GENERATOR/DISPLAYING	D	3 N	Y
PC./DIN/COLOR/VIDEX BOARD/DISPLAY/CABLE/INTENSITY	DA	2 Y	N C
LOW-CURRENT/OSCILLATOR/~0.5HZ/10HZ/HV./ALARM INPUT	AD	2 N	N
PLANAR TUNNEL DIODES/FOLLOW-HOLD/SLOPE/TRACK/ASIC.	A	7 N	N
TIME CONSTANT/OUTPUT/TIMING DIAGRAM	A	2 N	N C
SCHMITT TRIGGER/SENSOR/HEAT- OR LIGHT-ACTIVATED	AD	6 N	N C
PROBES/RESISTANCE/1OHM/INSULATION	A	1 N	N
TV./RAILWAY/SUPPRESSORS/SPARK-GAP/LOGIC/TRACK	AD	2 N	N
CAN BE CALIBRATED/PROBE/FLOATING/WIRES	A	1 N	
TRANSIENTS/SPEAKERS/RELAY/DROPS/HEATER SUPPLY	A	1 N	N
5 BY 7 DOT MATRIX/LATCHES, & ADDRESS DECODING/CAI	D	9 N	N C
		1	
8085A/UP./PLOTTER/DISPLAY/GPIB./SC-MP/RAM./ADC.	DA	9 N	N C
VOLTAGE-TO-CURRENT/CURRENT-TO-FREQUENCY CONVERTE	A	1 N	N C
DO-NOTHING/TRANSISTOR/LITTLE/CATTLE PRODS/PULSE	A	2 N	N C
SQUARE-WAVE GENERATOR/HEAT PUMP/PELTIER	A	4 N	N
VOLTAGE REGULATOR/TRANSFORMER/6 IC'S/VALVE/WATER	AD	7 Y	N C
TELLS WHEN TO ID/STEPS OFF MINUTES	DA	2	C
COMPLEMENTARY CCT/IMPEDANCE MATCHING/INDUCTANCE	A	2 N	N C E
INTERFACE FOR INTERRUPT/UV./LDR./VIA./TIMER/RELAY	D	5 N	N C
FREQUENCY RESPONSE/LPF.		1	
TOUCH CONTACTS/KEYSWITCH	AD	2 N	N C
TAPES/SLOW/DOWN/RECORDER/COPY/REMOTE-CONTROL/LEVIA	A	4 N	N
R.N. MARSH/OA./MARGINALLY STABLE/HF. OSCILLATION	A	2 N	N
TURN-SIGNAL INDICATOR	AD	1	C
INVERTING/NON-INVERTING/OFFSET-NULLING/DC.	A	5 N	N C
CMOS. MONOSTABLE MULTIVIBRATOR/SWEEP SPEED/PULSE	D	1 N	N C
PLL./CRASH/CW. SPEED	AD	8	C
CP-M/COMPUTER/DOWNLOADING/20MA/COMMUNICATION/DATADA		2 N	N C
NOAA/RECEIVER/1050HZ/EMERGENCY/2M REPEATERS/CODE	A	5 Y	N C
AUDIO/LED./PHOTOTRANSISTOR/IRED./REMOTE-CONTROL	A	4 N	N C
BERR/MOTOROLA'S 68000 UP./BUBBLES/GATES/RAM./ROM.	D	8 N	N C
MICROPHONE/INDUCTION COIL/TUNED AMP./LED./OA.	A	4 N	Y
JUDGE/RESETS/MODERATOR/SCR.S/PLAYER/TRIGGER PULSE	A	3 N	N C
DIGITALLY PROCESSING ANALOG SIGNALS/ADC./DAC.	DA	6 N	N C
TRANSMITTER IS AUTOMATICALLY DISCONNECTED/SWR.	A	1 N	N
CPU./PIA./RAM./JOYSTICKS/CASSETTE/RS232	DA	4 N	
INTERFACE/MUSIC/PC./PROTOCOL	D	8	C

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POWER/VOLTAGE DROP/BATTERIES/PROTECTING/INDICATORS	A	2 N	N	C	
GRAPHICS/RAM./SOUND GENERATION/INTERFACE/BASIC	DA	3 N	N		
READS IT BACK/CURRENT TAPE POSITION/TV./COMPUTER	D	9 N	Y		
SMALL/ELECTRIC GUITAR/OA./GAIN OF 200/80HM SPEAKER	A	2 N	N	C	46
ECL. DIVIDER/SCHOTTKY TTL./TRANSISTORS/DETECTION	AD	7 N	N	C	
BANDSPREAD/TRIODE TUBE/VALVE/SUPER-HETERODYNE	A	6 N	N		
REGISTERS/CPU./UP./AND GATE DECODER/WAIT STATE	D	2 N	N	C	
TEACHING/DOS./IO. ENGINE/DEVELOPMENT/PIA.S/UP.	D	7 N	N	C	
ADDRESS LINES/DATA BUS/PORT/REGISTERS/MUSICIAN	D	5 N	N	C	42
POTENTIOMETER/INTEGRATOR CAPACITOR/DISCHARGING	A	1 N	N		6
SPEED/MORSE/MICROPROCESSOR/IAMBIC/RAM./ROM.	DA	3 N			
PHOTOCATHODE/ANODE/TIME-RESOLVED SPECTROSCOPY	A	6 N	N	C	
BFW10 FET./GROUNDED CAPACITORS/RESISTORS/LF.	A	7 N	N	C	
FEEDBACK/CURRENT LIMITER/PASS TRANSISTOR	A	2 N		C	
SINGLE-CHIP/TABLE-TOP/COMB FILTER/TUNING	A	4 N			
LOW SENSITIVITY/INTEGRATOR/VOLTAGE AMP./ACTIVE	A	5 N	N	C	
DUTY CYCLE/PROPORTIONAL TO PHASE DIFFERENCE/DVM.	AD	1 N	N	C	
P-I-N PHOTODIODE/EMI./RFI./TRANSIMPEDANCE/VCO.	AD	7 N	N	C	
TTL. CLOCK/D-TYPE FF./RETICON/MOS. CLOCK DRIVER	AD	6 N	N	C	
RED LED.S/PHOTOTRANSISTORS		2			
ELIMINATES/PARASITIC CAPACITANCE	AD	1		C	
WIDE DYNAMIC RANGE/VU METERS	AD	5			
CCIR/BUFFER/POWER MOSFET./VIDEO AMP.	AD	5 N		C	
SPEAKERS/WARNING LED./VOLTAGES		5			
LOW-COST PROJECT/MONITORS/SOURCE		4			
ANTI_ALIASING/HF. ANALOG-SIGNAL-PROCESSING/CLASS AB	A	9 N	N	C	
LABORATORY MICROSYSTEMS/LMI/PC./DRAWING/FORTH	AD	2 N	N		69
INTENSITIES/HIGH INPUT RESISTANCE/LUMINANCE	A	7 N	N	C	
LOOPS/AF. RANGE/WIDEBAND RF./COUPLER/TV./STABLE	A	1 N	N	C	
ANALOG-TO-DIGITAL/CONVERTER/BCD./DISPLAYS	DA	4 Y		C	
GAS DISCHARGE TUBES/OA./RELAXATION OSCILLATOR/UJT.	A	3 N	N	C	
LED./AVMUX./MICROCOMPUTER INTERFACE	AD	9		C	
ERROR CORRECTION/INTERPOLATION/CMOS./STEREO DAC.	AD	8 N	N	C	42
RF./OA.S/HARRIS/BW./GAIN/HF./HIGH SPEED/RESPONSE	AD	4 N	N		
16 LEVELS OF/BRIGHTNESS/POWER-SAVING SHUTDOWN MODE		3 N	N		
SERIAL/COMPUTER/PC.S/UP TO 10MBITS PER SECOND/EIA.	DA	3 Y	N		
CMOS./BIPOLAR/DRIVES TV.-CAMERA SWITCHING CHAINS	AD	3 N	N	C	
FILE EXCHANGE AT 1200 BAUD/RS232 INTERFACE/RTS	D	1 N	N	C	
RESISTIVELY TERMINATED/OA.S/TRANSFER FUNCTION	A	6 N	N		
HF./VARACTOR TUNING DIODES/OUTPUT COUPLING/TUNE-UP	A	6 Y	N		
TIME-RESOLVED PSD/HIGH INTENSITY TRIGGERED/360NS	A	3 N	N	C	
WIDE-RANGE/FET.-INPUT/VOLUME/TONE/SENSOR	A	6 N			
OVER-CURRENT SWITCH/WINDOW COMPARATORS/CONVERTER/AD	AD	5 N	N	C	
MUON/BEAM DETECTORS/PIONS/MWPC./MEASUREMENTS	A	9 N	N	C	12
MOTOR-DRIVEN MIRRORS/COMMUNICATING/MUSIC/SPEAKER	A	4 N	N	C	
P TRANSDUCER/ICP/RF./BIOTELEMTRY/PCM./TEMPERATURE	A	9 N	N	C	2
IBM PC. XT EXPANSION CARD/TRANSPORT/OBJECT/5S	AD	9 N	N	C	
ANALOG COMPUTATION/ACCURACY IS 1%/1 TO 5V INPUTS	A	2 N	N	C	
2ND-ORDER Z-DOMAIN ADMITTANCE/CLOCK FREQUENCY	AD	2 N	N	C	

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RESPONSE/ATTENUATE HF.S/TRANSFER FUNCTION/CONTROL	A	2 N	N	C	
COMPUTER INTERFACE/GRAPHIC/KINEMATIC ANALYSIS	DA	8 N	N	C	
LOCAL NET	A	2			
CAMERAS/FUJITSU/SYNC SEPARATOR/NTSC./BASIC/VCR.	AD	6 N	Y	C	
TUNNEL DIODE OSCILLATOR/VARACTOR DIODE	A	3 N		C	
ADDRESS LINES/MEMORIES/BUS TRANSCEIVER	D	9 N		C	94
OA./X10/GENERATOR VOLTAGE/SUPERCONDUCTOR/FREQUENCA	A	4 N	N	C	
SOLENOID/TIMER/OSCILLATOR/BINARY COUNTER/SAMPLER	DA	2 N	N	C	
		3			
AMP./CURRENT/LOUDSPEAKER IMPEDANCE/RESISTANCE	A	4 Y	N		
FEEDBACK/DISCRIMINATOR/TRIGGER LEVEL/LINEAR/MWPC.	AD	4 N	N	C	61
AC.- OR DC.-COUPLED/CRYSTAL TIMEBASE/PRESCALER	DA	7 Y	N	C	
JOYSTICK/SAM/PIA./SYNCHRONOUS ADDRESS MUX./MEMORY	DA	9 N	N	C	
AV/TRANSFORMER/PAL DECODER/RC. NETWORK	A	1 N			
ADC./LADDER OF LIGHT/PHOTODETECTORS	AD	2 N		C	
TURNOUT SWITCHERS/LED.S/CURRENT/IINDICATOR	A	3 Y			
SYNCHRONOUS DETECTOR/TTL./UNITY-GAIN AMP.	AD	1 N	N	C	
WIDEBAND/LED./RF. MODULATOR/TUNER & IF./BYPASSED	A	6 Y	N	C	
TRANSISTOR ARRAY/CURRENT/VOLTAGE/7DB/NF.	A	2 N	N		
CMOS./TTL./DUAL RAMP INTEGRATING ADC./INTERFACE	DA	9 N	Y	C	
TRANSFER FUNCTION/2ND-ORDER	A	1 N	N	C	
LINE/EVERY 15S/PULSE/SIGNAL AN ERROR CONDITION	D	1 N	N		
INPUT CCT/LPF./16HZ/REFERENCE VOLTAGES/DISPLAY	AD	2 Y	N		
BETWEEN/VIDEO RECORDER/& THE SCART INPUT OF A TV.	A	1 N	N		
DIFFERENTIAL AMP./PRECISION RECTIFIER/COIL/WINDING	A	5 N	N	C	E
BIAS CCT/AC.-COUPLED OUTPUT/LINE DRIVER/CMOS.	AD	5 N	N		
TYPE 2/COMPUTER SIMULATION/BASIC/PROGRAM/LOCK-IN	AD	4 N	Y		
CLAMPING/SRAM./VIDEO RAM./IBM PC./XILINX/CAE./TTL.	DA	5 N	N	C	
TRIPLEXED LCD./ADDRESS PULSES/CLOCK/BINARY/ADDRESS	D	1 N	N	C	
UP./DMA./PCM. CODEC-FILTER/HDLC./S-T TRANSCEIVER	DA	3 N	N	C	
SMALL-SIZED SILICON/RANGE OF 200K/HIGH LINEARITY	AD	2 N	N		
MOTOROLA"S" TRANSCEIVER/S INTERFACE/HANDSET RJ-11	AD	1 N	N	C	
LO./VHF./STATIONS/DIGITAL	DA	8 Y			
8 BIT/DYNAMIC/PC.S/256 BY 256 POINT/BASIC/PROGRAMS	AD	4 N	N	C	
DUAL-CONVERSION FM./HANDHELD TRANSCEIVER/27.145MHZ	AD	9 Y	N	C	
INTERCHIP DIGITAL LINK/SERIAL CONTROL PORT/ST-BUS	DA	6 N	N	C	
RADIO/DATA CARRIER DETECT (DCD)/AUDIO/PTT./PMP	DA	4 Y	N	C	
HIGH QUALITY/SHUNT FEEDBACK AMP./OUTPUT/TRIODE	A	6 N	N	C	
WALK/~300PS FOR THE 100:1 DYNAMIC RANGE/ERRORS	A	5 N	N	C	
200KHZ/CONTROL VOLTAGES/SUPPLY >1V/FREQUENCY	A	1 N	N	C	
DRIVE-INTERFACE FORMATS/VCO.S/AS MANY AS 4/ECA	D	9 N	Y	C	
PRESSURE RELIEF TUBE/RESPIRATORY RATE/ANESTHESIA	DA	3 N	N	C	
UP-DOWN COUNTER/SPEED/DISPLAYED		2		C	
ACCURATE TRANSMISSION		2		C	
RM-300 AUTO SEARCH CONTROL/6502/Z80/SOFTWARE/CAI	D	9 N	Y	C	
Z80 UP./BASIC/ADDRESS DIP.-SWITCH/PORT/IO./RS-422	DA	7 N	N	C	61
FIELD-STRENGTH METER/RADIATION PATTERNS/VEHICLE	A	2 N	N		E
OUTPUT STAGES/LEVELS/PATCH/REMOTE SPEAKER/AMP.	A	3 Y	N	C	
MUX./REDUCING DATA ACQUISITION TIME/SNR./LED.	AD	5 N	N	C	

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AUDIO/IF. FREQUENCY OF 70KHZ/6IN ANTENNA/SMALL	A	4	N	N	C	
RMS.-TO-DC./GAIN/COMPARATOR/LEVEL METER	A	2	N		C	
2 6116 2K RAM.S/TV./SABRE SYSTEMS/BASIC PROGRAM	AD	2	N	N	C	
BUFFER/ISOLATE/HOLD CAPACITOR/RESET/CHARGE/LEAKAGE	A	1	N	N	C	
D-A/ADC./RAM./PS.S/TASK ALLOCATION	DA	5	N	N	C	
AMP.'S TRUE OUTPUT POWER	A	6				
IDEAL RECTIFIER/MULTIPLIER/DIVIDER	A	1				
RESOLUTION OF 8 BITS/CLOCK/STEPPED DELAY LINE	AD	5	Y	N		
JFET. SWITCH/MONOSTABLE MULTIVIBRATOR/IO./ION	AD	4	N	N	C	28
THD./~-55DB/BUFFERING, AMPLIFYING & LEVEL-SHIFTING	A	1	N	N	C	
MONITOR/STEREO/SOUND/I^2\C BUS/AUDIOVISUAL/PICTURE	AD	6	Y	N		
SOUND/RESTORATION OF OLD RECORDINGS/LED.S/OA. CCTS	A	5	Y	N	C	
DIVIDER/SEQUENCE/10 DECODED OUTPUTS/2HZ/GENERATOR	D	3	Y	N	C	
GENERATES/SIGN BIT/UNITY-GAIN/COMPARATOR/POLARITY	AD	1	N	N	C	
FET.-INPUT/DIGITAL PHASE SHIFTER/PSD./~\$200/NOISE	AD	9	N	N	C	39
DAC. CURRENT-TO-VOLTAGE CONVERTERS/FAST/HF./75OHM	AD	9	N	N	C	57
PMT./DAC./IBM AT BUS/LASER/EXCITATION/UP./LIFETIME	AD	7	N	N	C	
PHASING/SPEAKERS/STEREO CENTERING		3				
LED.S/CMOS./NAND GATES/6IN-HIGH DIGITS/LARGE-SIZE	D	8	Y	N		
MIXER/BUCKET-BRIGADE ANALOG DELAY LINE/<\$50/BUFFER	AD	4	Y	N	C	
OSCILLATOR/COUNTER/IO./8-BIT MAGNITUDE COMPARATOR	D	7	Y	N	C	
SQUARING AMP./"PRESETTABLE DIVIDE-BY'N' COUNTER"	AD	2	N	N	C	
PULSE-STRETCHER/AMP./SPICE 2G6/TIME-SELECTION	A	6	N	N	C	
UP./4MBITS ON A C90/FF./CHECKING/DROPOUTS/VCO.	DA	2	N	N	C	
ANALOG MULTIPLIER/SPECTROSCOPY/SWEEP	A	4	N		C	
AMP./DIGITAL RELAYING/PROTECTION DELAYS/TIMER	A	9	N	N		
CMOS./QUAD NAND GATE/\$5/MONITORING/LINE/VOLTAGE	DA	3	Y	N	C	
QUAD 2-INPUT NAND GATE/LED.S/COMMUNICATIONS/CALL	AD	7	Y	N	C	
HOLDING CAPACITOR/CPU. RESET/DOPPLER	AD	8	N		C	
FEEDBACK LOOP/PMT./SH. CCT/CHOPPER/PLL.	AD	2	N	N	C	
RF. LINK/IMPLANTED/BRAIN/RANGE OF -100-+200MMHG	AD	9	N	N	C	2
RPM./SPARKING FREQUENCY/COUNTING/CLOCK OSCILLATOR	D	2	N	N		E
NEUROPHYSIOLOGY/PRESETTABLE/TTL. INPUTS/BCD.	D	2	N	N	C	
CHROMINANCE-VIDEO-BLANKING-SYNCHRONISATION/MONITOFAD		6	Y	N		
LIGHT ENERGY/HEAT/O2 EVOLUTION/SPECTROSCOPY	AD	7	N	N	C	
CW./VACUUM-TUBE RECTIFIERS/SILICON/SOLID-STATE	A	2	N	N		
5% ACCURACY FROM 50HZ TO 2MHZ/HOLD CAPACITOR	AD	1	N	N	C	
PLL./51.2KHZ CLOCK/8-BIT COUNTERS/LATCHES/LAMPS	DA	5	N	N	C	
RMS./RECTIFYING/DEMODULATOR/POSITION TRANSDUCER	A	9	N	N	C	
NO DISTORTION/MICROPHONE/LED./FEEDLACK/LEVEL	A	4	Y	N	C	
LEVELS DOWN TO 0.005%/1% THD. CALIBRATOR/1KHZ/AMP.	AD	7	Y	N	C	E
RADIO RECEIVER/COMPRESSOR & EXPANDOR/NOISE/GAIN	A	4	Y	N	C	26
LOW-IMPEDANCE, HIGH-CURRENT OUTPUTS	D	6			C	
NPN TRANSISTOR/SIGNAL/PRACTICE/TONE/TRIGGER INPUT	A	1	N	N	C	
SLIC./SUBSCRIBER-LINE INTERFACE/BORSHT	D	5	N		C	
QUICKIE COURSE IN SCHEMATIC DIAGRAM		4				
WIPER SWITCH/SCR./CAM/RAIN/TIMER/CYCLE	A	3	Y			
DYNAMIC RANGE/TAPE NOISE REDUCTION		4				
OVERTONE CRYSTALS/FRONT-END/SUPERHET/FET./BALANCEDA		9	N	N		

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POWER RELAY/PLAYED BACK/TRAIN/OSCILLATOR	A	3	N		
TV./DC./MICROAMP./75OHM/UHF./PREAMP.S	A	4	Y	N	C
8-BIT ADC./DAC./SH./EPROM./RAM./DSP.	AD	7	N	N	
INDUCTION-BALANCE TREASURE FINDER/METAL LOCATOR	A	8	N	N	C 60
<\$9/88MH TOROID/ATTENUATOR NETWORK/TONES/9V	A	4	N	N	C
BLANKING/TIMING/PULSE/RECEIVER/PROTON	DA	7	N		C E
ACOUSTIC/FILTER/HI-FI/STEREO/BASS/AUDIO	A	4	Y		
QUAD/ALL PASS 90DEG AUDIO PHASE SHIFTER/FILTER	A	2	N	N	3
SHRILL WHISTLE/VIALS/REFLECTIVE OBJECT SENSOR	A	2	N	N	E
OR AS A RECEIVER "S" METER/SENSITIVITY IS 10UV	A	6	N	N	C
BEEP/SIGNAL/VCO./BEEP DELAY/LENGTH	A	3			C
VCO./INTEGRATOR/OA./LC. TANK/TO ~500MHZ/VHF.-UHF.	A	4	N	N	
3-TERMINAL/Q-FACTOR/RF. CCTS/NEGATIVE RESISTANCE	A	7	N	N	
AVERAGER/HIGH-PASS FILTER/TRANSIENT SIGNALS	A	7	N	N	C
PULSES/EMG./ANALOG SWITCH/TIME-INTERVAL	AD	2	N		C
POTENTIOMETERS/EQUALIZERS/DUAL-FILTER/BOXANDAL/OA.	A	1	N	N	C
CLOSE-LOOP TRANSFER FUNCTION/BUTTERWORTH	A	2	N		C
GAIN BW. PRODUCT/1GHZ/HIGH-SPEED/RECTIFIER	A	5	N	N	
OUTPUT AMP./START STOP/ACOUSTIC FEEDBACK/NEURON	AD	5	N	N	C
PULSED RF. OUTPUT/RFI./SPIKE/IF./TRANSMITTER/FID	A	5	N	N	C E/39
	A	1	N	N	4
GAUSSIAN SHAPE/FLASH ADC./FADC/NOISE/42MW/HYBRID	A	5	N	N	C
HIGH SPEED/FAST LOGIC/HV. SWITCH/BEAM/DETECTOR	DA	3	N	N	C 61
AUTOMATED/IMAGES/LIGHT/PARALLEL INTERFACE/TV.	DA	9	N	N	C 25
OA./COMPARATOR/BUZZER/PROTECTION/LIVE	A	1	N		C
CQY35NE/PHOTODIODE/PIN DETECTOR	A	5	N		C
RADIO DIRECTION FINDER/ANTENNA SWITCHING/DOPPLER	AD	5	N	N	
MEMORY & IO. INTERFACE CCTS/REFRESH GENERATOR/RAM.	DA	4	N	N	C
DAMPING/CORNER FREQUENCY OF 1KHZ/NATURAL FREQUENCA		1	N	N	C
ADC.S/IO./BUFFER/DECODER/LATCH/4-TO-16 DEMUX.	AD	5	N	N	C
OA./TRANSISTOR-ARRAY/NPN/PNP CURRENT MIRROR	A	1	N	N	C
UP./TO 700MHZ/DCMOS./CCD.S/ECL./ISDN./TV./SPEED	AD	3	N	N	
VIDEO SWITCHER/DATA DISTRIBUTION/BW. OF 450MHZ	AD	2	N	N	C
LIGHT PULSES/200PS/10-40MHZ BW./COUPLER	A	1	N	N	C
MOSFET./OPTOCOUPERS/1.5KV/FLOATING AC./4.0GHZ	A	7	N	N	C
CHANNEL RECEIVE FILTER & LIMITER/LOGIC	DA	1	N	N	C 60
CCT TO COUNTERACT/WANDER & JITTER/UP./CCITT./PLL.	DA	3	N	N	C
NONCONTACT MEASUREMENT/DEC PDP-11-03	DA	6	N		C
TRACE/FET. AMP.S/BREATH/MS./GAS	AD	7	N	N	C
LIGHTNING/VOLTAGE DIVIDER/WAVEFORM/MATCHED CABLE	A	6	N	N	C
DMOS./CCITT./TELECOMMUNICATIONS NETWORK/TELEPHONE	AD	5	N	N	E
SATURABLE FERRITE-CORE INDUCTORS/TRIGGER/GENERATOF		4	N	N	C
		4			
FAST COMPARATOR/DISCRIMINATOR/ECL.	DA	5			C
LIGHT/INTENSITY/CAMERA/WINDOW PROCESSING/LED./CCD.	AD	6	N	Y	C
KEY JACK/TRANSISTOR/6V/SMALL BOX/SIMPLE REGULATOR	A	1	N	N	
256KBIT/2MBITS OF MEMORY/ADDRESSING	D	7	N		C
SOLID-STATE/DRAKE TR-5 TRANSCEIVER/10V AT 0.8MA	A	2	N	N	
VARIABLE/TUNING/SYNTHESIZER/MIXED/FREQUENCY/FILTER	DA	8	N	N	

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TRANSFER CLOCK/RESETTING/POLES/ZEROS/RESPONSES	AD	8 N	N	C	
DVM./READS/DIRECTLY/ON ITS 200MV RANGE/40DB AMP.S	AD	1 N	N	C	
RIAA/BALANCE CONTROL/NEGATIVE FEEDBACK/DRIVER	A	7 N	N	C	
LOCK CCT MOD./VARIAN XL-100 SPECTROMETER/FIELD/TMS	A	6 N	N	C	
HIGH-PASS/ROLL-OFF/AMP.S/FEEDBACK/SPEECH/RESPONSE	A	1 N	N	C	
PICTURE TRANSMISSION/NOAA-6/LO./MIXER MOSFET./VCO.	AD	6 N	N	C	
MICROCOMPUTER/APPLE IIE/DAC./ADALAB/SFC/PUMP	A	3 N	N	C	
COMPARATOR/ANALOG COMPUTER/LOW-PASS/EMG./SAFETY	A	8 N	N	C	
DIFFERENTIAL BW. OF 60MHZ/CURRENT-FEEDBACK UNITS	A	1 N	N	C	
WIEN BRIDGE NOTCH TYPE	A	5			
LIMITER/VOICE/TALK/MICROPHONE/BIFET OA./FET.	A	2 N	N	C	
LED. AS A PHOTODIODE/CURRENT SOURCE/15MBIT-SEC	AD	1 N	N	C	
LOW-POWER/STROKE/SYNTHESIZER/REED RELAYS/CHIME	AD	4 Y	N	C	
INEXPENSIVE/PORTABLE/ANY SOURCE	A	5			
VOLTAGE DIVIDER		2			
BLIND RADIO AMATEURS/DIGITAL/TRIACS/COUNTER/ROW	DA	3 N	N	C	
OA./COMPARATOR/CHARGE/EC.-SWITCHING THRESHOLD	A	1 N	N	C	
180DEG/10MHZ/SUPERHETERODYNE/EMITTER FOLLOWERS	A	4 N	N	C	
REFERENCE FOR THE DISPLAY/BATTERY/DOWN TO 6.5V	A	1 N	N	C	
BW. OF 200HZ/GMT/UTC/TTL./COMPARATOR/FF./BC.S/TIME	DA	6 N	N		
RS232/INTERFACE/SCI/FULL DUPLEX/INTERRUPT/TONE	D	5 N	N	C	
1-100KHZ/IF./RF./REDUCE DISTORTION/INCREASE DRIVE	A	3 N	N	C	
OA./FLOATING/GROUNDED INDUCTORS/FI/GI/BACK-TO-BACK	A	9 N	N	C	
CUT-OFF FREQUENCIES/LOW-PASS, HIGH-PASS/NOTCH/LPF.	AD	6 N	Y		
SIMPLE/LEADING-EDGE TIMING/PHOTOMULTIPLIER/CW.	A	4 N	N	C	
ELECTRONICALLY TUNABLE/EASILY DIGITALLY PROGRAMMED	A	3 N	N	C	E/39
LOCAL SPEAKER DRIVER/PRIVATE LINE GATING LOGIC/PL	AD	6 Y	N	C	
HEADPHONE/EARPHONE JACK/SOUND/THD./TRIMMER	A	2 N	N	C	46
NICKEL-CHROMIUM WIRE/TIMER/COUNTDOWN/IGNITED	AD	1 N	N	C	
RAM./PORT/UART./BASIC/INTERRUPT/KEYBOARD	DA	6 N		C	
COMPARATORS/VU METER/MUSIC/60DB RANGE	AD	5 Y			
LED./LINEARIZING DIODES/CHANNEL/CURRENT	A	2 N			
SIMPLE/INEXPENSIVE/DATA/TAPE FORMAT	AD	9 N		C	
COMPARATOR/DISPLAY/RECEIVER	AD	2 N		C	
OA./WEAK SIGNALS		3			
AUDIO LEVEL/EXTERNAL NOISE		2			
GENERAL PURPOSE 100MA SUPPLY		1			
BARGRAPH DISPLAY/LED.S/STEREO	AD	1			
GAIN CONTROL/FREQUENCY/CAPACITOR/CHARGES/AC.	A	1 N	N	C	
SOUND/NUCLEAR/VOLTAGE DOUBLER/CONTAMINATION/SNIFFSA		4 N	N	C	
0.5V INCREMENTS/PREAMP./METER/VOLTAGE DIVIDER	AD	3 N	N		
BROADBAND/400MHZ/FLATNESS & RETURN-LOSS/IMPEDANCE	A	1 N	N		
LOCAL-NODE PROCESSOR/OPTICAL DATA LINK/VLSI./LAN.	D	9 N	N	C	
SIGHTLESS/ANTENNA TUNER/REFLECTED POWER/VCO./OA.	A	8 N	N		
SIGNALS UP TO 5MHZ/50DB ISOLATION/SUMMING AMP.	AD	5 Y	N	C	
DECIMAL POINT LOGIC/DRIVES/AMP./MEGABECQUERELS/MBQ	AD	3 N	N		E
TRANSISTOR-DRIVEN/OSCILLATOR-DRIVER/RECTIFIER	AD	3 N	N	C	
SELECTABLE AGC. RECOVERY TIME	A	5			
UTERINE CONTRACTIONS/SIMULATION/NERVES/BLOOD FLOW	AD	6 N	N	C	42

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STABILITY/+0.1%/HIGH-TEMPERATURE LIMITING CCT	A	5	N	N	C	
WAIT-STATE GENERATOR/FIFO. BUFFER/DMA./DUPLEX/DPR	A	9	N	N	C	25
EMITTER-FOLLOWER BUFFER/PIEZOELECTRIC TRANSLATOR	AD	2	N	N	C	
VCO./RF./UHF./IF. RECEIVER/TRANSCIEVER/CT2	AD	2	N	N	C	
SAY GOOD-BYE TO/DIRTY CONTACTS	AD	2				
20M/14MHZ SUPERHET/CRYSTAL FILTER	A	5	N			
BULLETIN BOARD SYSTEMS/BUSY/REDIALING/TONE DECODER	A	3	Y	N		
DSP./TRACK/MOVING TARGET'S FREQUENCY SHIFT & SPEED	DA	7	N	N	C	
AMP./10A/DUTY CYCLE OF <10^-4/100NS TO 500NS	A	1	N	N	C	E
AGC./TOROIDAL TRANSFORMER/BC.-BAND	A	4	N			
DAC./TTL. INPUT/OA./SH./<400NS/VALIDATION	AD	3	N	N	C	61
FEEDBACK LOOP/LED./RESISTANCE/SPEAKER/LEVEL	A	3	N	N	C	46
CURRENT-LIMITING & SHORT-CCT'ING PROTECTION CCTS	A	3	N	N	C	
LINEARLY/CAN BE REMOTELY MOUNTED	A	1	N		C	
TELEPHONE/TERMINAL/FREQUENCY	DA	7				
BIQUADRATIC/TRANSFER FUNCTION/GC SIMULATOR/IC	A	9	N	N	C	
TRACING CCT PATHS/PROBE/TONE GENERATOR/TRANSDUCER	AD	2	N	N	C	60
ENCODING/TELECATION/DECODER/LINE-21/RAM.	A	5	N		C	
STABLE/SIGNALS/LINE	A	1	N	N	C	
INPUT RANGE 9-72VDC./OVER-RANGE PROTECTION/PWM.	A	2	N	N	C	
SWITCHABLE CURRENT SOURCE/MOS. COMPARATOR/SIMPLE	A	2	N	N	C	
20W AMP. FOR SEMI BREAK-IN/RF./PORTABLE ANTENNA	A	2	N	N	C	
RF. POWER FET./SWITCH/CURRENT/PARALLELING	AD	6	N		C	
DATA ACQUISITION/STABILITY/HIGH GAIN	AD	6	N		C	
FEEDBACK/IMPEDANCE INVERTING/100MHZ/ZONAL FILTER	A	6	N	N		
8-BIT FLASH ADC./12-BIT DAC./PEDESTAL & OFFSET	AD	8	N	N	C	12
GEOMETRY-/PIXELS/VECTOR/FRAME BUFFER/CAE.	D	9	N		C	
TALK/VOLTMETER/TUBE TRANSMITTER/HV./CURRENT/PEP	AD	3	N	N	C	
RESISTORS/PROJECTS	A	1	N	N		
RGB./PIXEL/DISPLAY/DC. RESTORATION VOLTAGE/CLAMP	A	2	N	N	C	94
COMPARATORS/READOUT/PHOTOMULTIPLIER/FASTBUS/CERN.	AD	9	N	N	C	12
MICROCOMPUTER/ADC./TV. CAMERA/CHARGED LIQUID/CCTV	AD	8	N	N	C	
SIGNAL GENERATION/DOME/RLC./PASSIVE/COAXIAL-CABLE	AD	9	N	N		
MATCHED PAIRS/DC.-TO-DC. CONVERTER/MOSFET.S	A	8	Y	N		
TANKS/CRYSTAL/VARICAP/QUAD OA./FINAL/TRANSISTOR	A	3	Y	N	C	
CW.-RTTY. INTERFACE FOR APPLE II	AD	3				
VCO./AM./SSB./FILTER/BEEP SWITCH/LED. READOUT	A	2	Y	N	C	37
30DB/FLAT TO 200KHZ/TUNER/PLL. STEREO DEMODULATOR	A	3	N	N		
TRANSFORMER/SPEAKER/KEY/9V/BATTERY/RADIO/NOVICE	A	1	Y	N		
TEXAS INSTRUMENT TI-59 PROGRAMMABLE CALCULATOR	A	7	N	Y	C	42/54
ATTENUATION/80 DB/600HZ FROM THE CENTER FREQUENCY	A	2	N	N		
COMMUNICATIONS/DRIVER/CPU./RAS-CAS/SLICES/POWER	D	4	N	N		
15V REGULATOR/FILTER CAPACITOR/UPGRADE/RIPPLE	A	4	Y	N		
YELLOW/RED/GREEN/DISPLAY/BLINKS/DOTS/DASHES/COLORS	A	2	N	N		3
SYMMETRICAL OUTPUT STAGE/FEEDBACK OA./BUFFER AMP.	A	2	N	N	C	
72DB POWER GAIN/DETECTOR/AGC./HEADSETS/BATTERY	A	3	N	N		
SAME TIME/UPPERS/LOWERS/FILTER/AUDIO	A	6	N			
TEST EQUIPMENT/IINDICATOR/PROBES/SPEAKER	A	3	Y			
3500HZ/VEHICLE/LOUD/LAMP/DIODES/+12V	A	1	N			

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		2	C	
KEYBOARD/SLAVES/SEQUENCER/CLOCK/TRANSMITTER/CABLE	DA	5 N	N	
FERRITE TOROID TRANSFORMER/TRANSMATCHES/CORES	A	6 N	N	
MICRO CAP III/CAE./VCO./OA./SWITCH/MULTIPLIER/LOOP	A	6 N	N	
TV./NTSC./VCR./HORIZONTAL SYNC PULSE/LINE/SCREEN	A	3 N	N C	
AVALANCHE DRIVER/MICROSTRIP/CCD. CAMERA/SHUTTER	A	3 N	N C	
CRYSTAL SET/RF. AMP./FET./JFET./IGFET.	A	5 N		
UART./DATA RECOVERY/CLOCK GENERATOR/PLL.	DA	4 Y		
NOISE BLANKER/RF. MIXER/ATTENUATOR/SENSITIVITY	A	2 N	N	
TUBE/MICROCONTROLLER/DRIVER/RS-232/SHIFT REGISTER	DA	9 N	Y	
BATTERY//ISOLATED/PINS/LED./LAMP/AC. OR DC./110V	A	1 N	N C	
TOTEM-POLE/POLARITY CHECKER/SOLAR CELL/INDICATOR	DA	4 N	N C	
ELECTRONS & HOLES/RF./CAPACITANCE/JUNCTION/BIAS	A	4 N	N	
CARRY/LOGICAL/ARITHMETICAL/D-TYPE FF./OR	D	1 N	N	
CONTROLLER/RS-232-C INTERFACE/UART./BAUD-RATE	D	6 N	N C	
RIAA/IMD./BUTTERWORTH-ALIGNED	A	8 Y		
5MHZ/TUNING CAPACITOR/BALANCE/RF./LED./TRANSISTORS	A	3 Y	N C	
	A	2 N	N C	
4.5MHZ SOUND SUBCARRIER/CATHODE/UHF. KW	A	5 N		
SOUND-SYNC-CONTROLLED/INTENSITY	A	1	C	
REDUCED EYESTRAIN/COMPUTER'S RF. MODULATOR/SYNC	A	4 Y	N	
POWER/BLOWN FUSES/LIMITS THE CURRENT/TRIGGERING	A	1 N	N C	
STEPPER MOTOR DRIVEN/LOGIC LEVEL SIGNALS/PC./ADC.	DA	6 N	Y C	42
HAM BANDS/AMP./RF. VOLTAGE/COILS/DIAL PLATE	A	5 Y	N	
SOLENOID, VALVES & LIGHT SWITCHING CCTS/ADC./PUMP	DA	9 N	N C	42
BIAS CCT/FET.S/MILLER CAPACITANCE/BIPOLAR DRIVER	A	3 Y	N C	
ARRAY/DETECTOR PLANE/IC VIDEO AMP./PATTERN	A	9 N	N C	
LOAD/POWER FAILURES/TRICKLE CHARGE/LED./NICD.	A	1 N	N	
ADC./6502/AIM 65/DAC./6522 VIA./ASSEMBLY LANGUAGE	DA	5 N	Y C	
PCB./SCHEMATIC/DOS./TTL./PSPICE/40DB AMP./COUNTER	D	5 N	N C	
FULL-WAVE DIODE BRIDGE/SCR./ZENER/DROPOUTS	A	6 N	N C	
		2		
SHORT CCT, & RF. TRANSIENT PROTECTION/ZENER DIODE	A	2 N	N C	
DIODES/BRIDGE/AMATEUR/TEST EQUIPMENT/~\$10	A	3 N	N	
TRANSISTOR/MONOSTABLE MULTIVIBRATOR	A	1 N		
CAMAC/LINK/COMPUTER SUPPORT/RECEIVER	A	3 N	C	
PREAMP./FEEDBACK LOOP/OPTOCOUPLER	AD	3 N	C	
5TH-ORDER BUTTERWORTH/LPF./COMPUTER CONTROL/DPM.	AD	4 N	N C	
OTH/10HZ/AUDIO AMP./IF. NOISE BLANKER	A	3 N	N	
AUGER/3KV ISOLATION/8MHZ/SAMPLE/DIGITIZE/ETP/SENSE	AD	2 N	N C	
TROUBLESHOOTING ANALOG CCTS/TIPS	A	9 N	N C	
CONSTANT CURRENT OF 5A/DC./100KHZ		5	C	
FOLLOW SLOW VARIATIONS/TIME CONSTANT/RECEIVERS/QSB	A	1 N	N C	
CB. (11M) CRYSTALS/160M/1.8MHZ/3RD OVERTONE	A	1 N	N	
AUDIO/CPU./16-BIT/VOLTAGE REFERENCE/REGULATOR	DA	9 Y	N	
PHOTODIODE ARRAY (PDA)/POLYCHROMATOR/MONOCHROMA	DA	4 N	N C	39/88
100MW/1200BPS/TRANSMIT & RECEIVE FILTERS/V.23	AD	2 N	N C	
EARLY & LATE CORRECTION/PLL./IO. LINES/CPU./UP.	DA	9 N	N C	
RECEIVER/EYE PATTERN/SYNCHRONIZATION/DATA/FORMAT	AD	7 N	N C	

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LEVEL/ELECTROLYTIC CONDUCTANCE/SENSED/ELECTRODES	A	1 N	N	C	
"RUBBER-DUCK" ANTENNAS/PHASE	A	4			
JUNCTION CAPACITANCE/DETECTOR/TDMA/FIBRE OPTICS	AD	9 N	N	C	
AM./SIGNAL PROCESSOR/AUDIO/90DB DYNAMIC RANGE	A	3 N	N	C	
ECHO/ROUTING POWER/EFFECTS/AMP./GUITAR/AUDIO/POWER	A	2 N	N		
INTERRUPTED-BEAM/MOTION DETECTORS/LIGHT/LED./CCD.	AD	9 N	N		
POWER MOSFET./AUDIO TRANSFORMER/SWITCH/	A	2 N	N	C	
SPECTROMETER/PHASE DETECTOR/TRANSISTORS	A	5 N		C	
VARIABLE LINEAR RAMP/TONE/OA./MONOSTABLE/SINE-WAVE	AD	7 Y	N	C	
TRANSMISSIONS/COMPUTER/AUDIO/MORSE (CW.)/PRINTER	AD	6 Y	N	C	
INDUCTOR/BUCK-BOOST/ZERO-VOLTAGE SWITCHING/1MHZ	A	7 N	N	C	
TELEPHONE/DETECTED/LOW POWER AUDIO AMP./CONVERTS	AD	4 N	N		
VOLTAGE/DRAW REGULATED CURRENT/FET.S/TRANSFORMER	A	2 N	N	C	
PREAMP./PMT./LOW-CURRENT/HIGH-CURRENT PULSE/ZEEMAN	AD	6 N	N	C	
HAM/RIG/DOTS/OSCILLOSCOPE OBSERVATIONS/RESISTORS	A	1 N	N		
HANDICAPPED/DIPPER/PARASITICS/AMP.	A	3 N			
DRAM./TALKING/FILTER/LED./SSB./FIELD DAY OPERATION	AD	9 Y	N		
BIAS/COMMON-MODE LEVEL/BATTERY-POWERED/REFERENCE	A	1 N	N	C	
PROBE/CXP BRUKER SPECTROMETER/LOGIC CONTROL UNIT	DA	4 N	N	C	
PLAYBACK/ELECTRET MICROPHONE/END OF MESSAGE (EOM)	AD	3 Y	N	C	
FET.S/9V BATTERY/MODERNIZE	A	2			
VCA., RECTIFIER & CONTROL AMP./TELECOMMUNICATIONS	A	2 N	N	C	
IF. BOARD/DX/RANGE/WITH MOD./RIT TUNES +-5.1KHZ	A	2 N	N		
DETECTION & ACQUISITION OF THE PUPIL WIDTH/ANIMALS	DA	8 N	N		
SOA./PASS TRANSISTORS/ZENER DIODE/REFERENCE/AUDIO	A	7 Y	N		
TRIODE/BC.-BAND/SW./RESTORATION/"FINGER PROBE"	A	3 N	N	C	
8 BIT DIGITAL COMPARATOR//COUNTERS/TURBO C/AUDIO	DA	7 N	Y		95
3DB POINTS OF 25HZ-25MHZ/FEEDBACK/CURRENT MIRROR	A	1 N	N		
CHARGE PUMP/STANDARD CELL AMP./REDUCING NOISE	A	4 N	N		
500MW/RS-170A/RS-343A/\$69/COMPUTER GRAPHICS/40-PIN	AD	2 N	N	C	
OA./INTEGRATOR/SWITCHES/TRIANGULAR/TTL. OUTPUT	AD	1 N	N	C	
1000V/SCR./240V/CMOS. INVERTERS/POWER/PHASE SHIFT	AD	9 N	N	C	
CMRR./75OHM COAXIAL VIDEO DISTRIBUTION SYSTEM	A	3 N	N	C	
KEYBOARD/VCO./PWM.	A	3 Y			
INDUCTANCE/PLOT/PHASE & AMPLITUDE VS. DC. CONTROL	A	2 N	N		
RF./DISCRIMINATOR/AUDIO DE-EMPHASIS & 38KHZ FILTER	A	5 N	N		42
27MHZ/CB./BFO./DOUBLE-CONVERSION SUPERHETERODYNE	A	3 N	N	C	
DISCHARGE-HEATED/DHCVL/POWER CONDITIONING/HELIUM	A	5 N	N	C	
CSG (COMPLEX SOUND GENERATOR)/UPGRADE/3.5-5.25IN	DA	2 N	N		
INTERFACING/PPI./MICROCOMPUTERS/LIQUID SAMPLES	AD	5 N	Y	C	42/E
CRYSTAL OSCILLATOR/MARK SPACE RATIO	D	1 N			
PHILIPS-SIGNETICS/TELETEXT/LEVEL 1/INTERFACE/UP.	DA	9 N	N	C	57
PULSER/CMOS./LED./THRESHOLDS/LEVEL/SCHMITT	D	3 Y			
2-TONE BE-BOOP SOUND/ANTENNAE/HAND/STATIC CHARGE	DA	5 Y	N	C	
RECHARGEABLE BATTERY/CRYSTAL/OSCILLATOR	DA	3 Y			
C64/PET/SOFTWARE/PULSE COUNT/AUDIO	AD	4 Y			
STATE/SWITCHES/SIMULATING DATA/COMMUNICATIONS	D	1 N	N	C	
DATA/STRUCTURAL ANALYSIS/LEAST SQUARE FITTING/CPU.	DA	9 N	N	C	42
COAX BRAID/TUNE/MAST/DIRECTION-FINDING	A	3 N		C	42

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CLICKING RATE/OSCILLATING/MUSICIANS/SWINGING	DA	4 Y	N	
ANTENNA/DIV.-BY-2 CCT/DASH RATE/MF/OSCILLATOR	DA	2 N	N	42
LOUDSPEAKER/BUZZES/40-320HZ/AUDIBLE	D	1 N		
DIE/GAMES/ROLLS/DISPLAYS RESULT/MONOPOLY	DA	4 Y		C
GEIGER-MUELLER TUBE/HV.		5		
100KHZ TO 20KHZ/DETECTS/'SQUEAKS'/RECEIVER/LED.	AD	2 N	N	
METRONOME/BETWEEN 1.25 & 13.8V/COMPARATOR	AD	5 N	N	C
ASTABLE MULTIVIBRATOR/BEATS	DA	2		C
RANDOM/VOLTAGE-DIVIDER/ROLLING EFFECT/TRIGGERS	DA	3 Y	N	C
CMOS./INVERTER-BASED OSCILLATOR/POWER/DIRECTION	AD	4 N	N	C
SMALL/UP TO 200MA/UP-DOWN COUNTER/DECODER/CLOCK	DA	1 N	N	C
PHASE DETECTOR/GAIN CHANGE/DIODE SWITCH	A	9 N		C
SPECIFIC HEAT/WHEATSTONE BRIDGE/DIGITAL CONTROL	DA	9 N	N	C 25/28
6 COMPONENTS/9V/TOUCH SWITCH/LEAKAGE CURRENT/100NA	D	1 N	N	C
FM./FORCE-DISPLACEMENT TRANSDUCER/POTENTIOMETER	AD	4 N	N	C
		1		
HARMONIC/IMPULSE/DIODE/LC. MATCHING NETWORK/50OHM	A	5 N	N	
BUZZER/KEY SWITCH/CMOS./SOUNDS/EXIT DELAY LED.	D	4 Y	N	
LOW-TO-HIGH OR A HIGH-TO-LOW/TRANSITION/TRIGGER	DA	1 N	N	C
DC.-DC. CONVERTOR/WATER POTENTIAL/PLANT/METER	AD	8 N	N	C
AUDIO AMP./ACOUSTIC FLUX/VIBRATION/EXCITER/POLYMER	AD	6 N	N	C
RISING & FALLING STAIRCASE WAVEFORM/COUNTER/DIMMER	AD	2 N	N	C 46
FLYBACK/PLL./PSU/CARRIER/MODULATION/VCO.	DA	4 N		E
HYSTERESIS/HEATER/BRIDGES/THERMOMETERS	AD	4 N		C E
IMPULSES/STIMULUS/TIP-RECORDING/CELLS/RESPONSES	A	9 N	N	
PHASOR ANGLE/INTEGRATOR/SPDT.	A	5 N	N	C
6502/ELAPSED/TIME/CONSTANT CURRENT	AD	9 N		C 42
TRIAC DRIVER OPTOISOLATOR/DIAC/TIMER	A	2 N		C 42
THUMP/FET./POWER AMP.S/TURN ON	A	1 N		C
VFC./FREQUENCY/2275.56KHZ/500A/TIMER IC	AD	1 N	N	C
HOME/WATER/AIR TEMPERATURE SENSOR/PS.	AD	4 N	N	C
MONITORING/RESISTANCE/REFERENCE VOLTAGE/TEST/STRIP	AD	5 N	N	C
MICROWAVE/TEMPERATURE/RF./50OHM MICROSTRIP/EPOXY	A	1 N	N	
DATA ACQUISITION/MULTISCALE RAM./CLOCK GENERATOR	D	3 N	N	C
POTENTIOMETER/100W/3.3MHZ/IRF450/ELECTRIC PROCESS	DA	9 N	N	C
FF./CURRENT/PEAK VOLTAGE/READING/TRANSFORMER	AD	3 N	N	C
2 CHANNELS		4		
OPTO-ISOLATORS/NUMBERS/DIGITS/ADAPTER/VLSI./IO.	AD	7 N	N	C
LOCK-IN AMP./ZERO DETECTOR/GOLD	A	3 N		C
SCINTILLATION COUNTERS/ANODE/JITTER/PHOTOELECTRON	A	8 N	N	C 61
APPLE II COMPUTER/ELECTRICAL SAFETY/RESPONSE/DATA	D	2 N	N	C E
PHA./LIGHT YIELD/PHOTONS/SCG1B/LEAD/CHERENKOV/KEK	A	6 N	N	C 13/61
BEAM/LIGHT/INTRUDERS/TIMER		2		C
CHEMIST/ROBOT ARM/PARALLEL INPUT	AD	9		C
AMP./EXPOSURE/DISCRIMINATION THRESHOLD/FILM BADGE	AD	4 N	N	C
PHASE SHIFTER/100KHZ/MODULATE THE MAGNETIC FIELD	AD	5 N	N	C
INTENSIFYING PULSE GENERATOR/DIVIDER	AD	6 N		C
COMMUNICATION/TTL./BCC BUS/RFI./IR./VISIBLE LIGHT	DA	3 N	N	
SCREEN/IN-LINE/IMAGE/CRT./OPTICAL/-3KV	A	8 N		C

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100MOHM/CURRENT GENERATOR/STATOR WINDINGS/TORQUE	AD	1	N	N	
CONTACT CLOSURE TIME/IGNITION/ENGINE	AD	2	N		C
TRIODE/GAS REGULATOR/DIFFERENTIAL AMP./AF./PS.	A	8	N	N	42
UP. DATA LINES/8237 DMA.	D	9	N		C
RECEIVER/TRANSCIEVER/PENTODE/TUBE-TYPE	A	2	N		C
8-BIT ADC./PARALLEL-TO-SERIAL/SYNTHESIS	AD	3	N		C
PHYSICALLY HANDICAPPED/TRS-80 COLOR COMPUTER ROM.	DA	9	N	Y	3
DYNODE/DETECTORS/CROSSTALK/ANODE/PHOTOELECTRONS	A	6	N	N	C
AUDIO AMPLIFICATION/HEADPHONES/MICROPHONE/TEACHING	A	5	N	N	C
COMPARATOR/SWITCH-OVER/MOS./GROWTH	A	3	N		C
PERIPHERAL/UP./FIRMWARE/21V/24V/PIO	DA	7	N	Y	E
BUTTERWORTH/OA./PATIENT MONITORS/REGULATORS/RELAY	A	6	N	N	45
TWISTED PAIR/DRIVING 1 OF THE GAIN-CONTROL PINS	A	2	N	N	C 61
NYQUIST EQUATION/STORE/MAGNETIC OR ELECTRIC FIELDS	A	5	N	N	C
GREATER EFFICIENCY/WARM/2-COLOR LED./DIAC/AC. LINE	A	7	N	N	
POSITION-SENSITIVE DETECTOR/RADIATION	AD	9	N		C
LINEAR/PHOTOTRANSISTOR/SERVO/EM. PRINCIPLES/PM	AD	9	N	N	C E/2
TMS99000 UP./MEMORY ADDRESS	D	6	N		C
AMP./POWER MEASUREMENT	A	9	N	N	C
OA./ADJUSTABLE GAIN AMP./FRAMES/IMAGE/UHF.	A	1	N	N	
BEAM SPLITTER/PINHOLE/POLARIZER/OPTICS/HEATER	A	3	N	N	C 25/39
PEAK DETECTOR/COUNTER/SAWTOOTH GEN.	AD	5	N		C
ODMR/MICROCOMPUTER/20MHZ TTL. CLOCK/CRYSTAL/NOISE	D	3	N	N	C
ECL./CMOS. LSI./VCO./ROM.S/FM./HAND-HELD	DA	5	Y		
CHROMATOGRAPHY/DELAY TIMER/TLC/ELUTION/DEVELOPER		3	N	N	C
IORQ/INTERFACE/FILTER/AUDIO AMP.	DA	1	N		
		1			C
GASOLINE GENERATORS/REGULATION		1			
EASY-TO-FIND PARTS/EASY-TO-BUILD		6			
JUNKBOX PARTS		1			
PRICE/MODEST		4			
20DB GAIN	A	1			C
MULTIPLIER/SYNTHESIZERS/WAVEFORMS/CMOS. SWITCHES	AD	4	N	N	C
AC./DC./RF./CYCLE/PHASE DIFFERENCE/180DEG	A	1	N	N	C E
DETECTOR/ELECTRONIC INSTRUMENTS/INPUT	AD	2	N		C
TIMING/MATCH/PROGRAMMED/RECEIVER/TRANSMISSION	DA	3	N	N	C
OA./METER/SENSOR/INDICATE/ICE-POINT BATH	A	1	N	N	C
DIVIDE-BY-16-COUNTER/FF./DIODE MATRIX/LATCH	DA	3	N	N	
MULTIVIBRATOR/ENGINE/SENSOR/BEAD THERMISTOR/BLEEP	A	3	N	N	
CAPACITIVE/HV. SPARK DISCHARGE/PLASMA CURRENT/32KA	D	9	N	N	C
15-STAGE/LOW-WATTAGE/SERIAL BIT STREAM/REPEATS/XOR	DA	1	N	N	C E
FET./EXCITED/STRAIN GAUGE/RESISTANCE TRANSDUCERS	A	2	N	N	C 16
ACCU-KEYERS/SQUARE-WAVE KEYING/TRANSCIEVERS	DA	1	N	N	33
REFRIGERATION COMPRESSOR/STIRRER/LIGHT/ICE/LIQUID	A	3	N	N	
BOLOMETER-TYPE IR. SENSOR/DETECTION OF TEMPERATURE	A	5	N	N	C
IO./ADC./FF./MUX./TEMPERATURE VS. MASS CHANGE	DA	6	N	N	C
OA./DAMAGING HIGH PRESSURES/PUMP/COMPARATOR/GATES	AD	3	N	N	C
BATTERIES/30-40HR/BUFFERS/CALIBRATING/CHEMISTRY	A	1	N	N	C
TTL. OUTPUT/NAND GATES/OUTPUT SPECTRUM/STAGES	D	1	N	N	C

Sheet1

'LISTEN IN' TO THE SPEED OF YOUR COMPUTER/XT/8KHZ	DA	1	N	N	
"TWIN-TEE" NOTCH FILTER/AMP./PHASE CORRECTOR	A	4	N	N	C
1000W CARTRIDGE HEATER/THERMOSTAT/HEAT	A	5	N		C
SLAVE ELECTRODE POSITIONER/CATS/DIAPHRAGM/EPROM.	D	6	N	Y	C 25
CENTER FREQUENCY CONTROL/COMPARATOR/FAIL SAFE	A	2	N	N	C
SNR./PICK-UP COILS/100KHZ TO 200MHZ/SCANNING/SWEEP	A	5	N	N	C
HEATER/RAMP/THERMAL STIMULATION/PAIN	A	8	N		C
CLARITY/SPACE-WISE COMMUNICATORS	DA	2			C
VELOCITY/GRAVITY/UNIFORM/INCLINED/BALL/60HZ/DIVIDE	DA	2	N	N	C E
DVM./HEATER/PS./HEAT CAPACITY/MEASUREMENTS	A	6	N	N	C
TONES/FREQUENCIES ARE DETERMINED BY/DIODE MATRIX	AD	4	Y	N	
CLOCK GENERATOR/DIFFERENTIATOR/4 PHASES/UP TO 3A	DA	2	N	N	C
ANTI-STATIC PROTECTION/MOS./COPPER FOIL/RESISTOR	A	1	N	N	
CENTRONICS PARALLEL INTERFACE	D	4	N		C
FF./FEEDBACK		2			C
UP.-BASED/INTARLEC/6502/COMMUNICATION/COMPUTER	DA	5	N	N	C
ABSOLUTE VALUE/CMOS. SWITCH/PZT./REFERENCE VOLTAGE	AD	5	N	N	C
IONS/BEAM/MONITORS/GROUND/ADJUSTS/AUTOMATICALLY	A	3	N	N	C
SECURITY/VEHICLE/REFERENCE/KEYS/ACTIVE BUTTON	A	2	Y	N	
BEAM POTENTIAL RELAY/TTL./PLATES/DARLINGTON PAIR	AD	3	N	N	C
COMPARATOR/DISC/IRON/BLADE/WIRE/DIELECTRIC BATH	A	2	N	N	C
TIMER/PLATINUM HEATERS/24V/SWITCHING ON FROM COLD	A	4	N	N	C
+10MHZ/INTERFEROMETER/OPTICAL PATH DIFFERENCES	AD	3	N	N	C
TEMPERATURE TRANSDUCERS/RECORDER/FILTER	A	5	N		C
DEFLECTION PLATE/TTL.-PULSE GENERATOR	DA	3	N		C
FLASHES/LED./REGULATOR/+17V/+34V/VPP/2716/27512	DA	3	N	N	C
DIGITAL/PARALLEL/TRS-80S/MUX.	D	4	N		C
NARROW SLIT/PULSE GENERATOR/DEFLECTION	AD	3	N		C
		1			
SYNC GENERATOR/VERTICAL/HORIZONTAL/ACCELERATION	AD	9	Y	N	
QUADRATURE AM./QAM./ISDN./ADJUSTS SPEEDS/PROTOCOLS	DA	4	N	N	C E
REFLECTANCE RATIO METER/THRESHOLD/SOLENOID VALVE	A	9	N	N	C
FORCE/TIMER/LED./ASTABLE/MULTIVIBRATOR/DRIVER CCT	A	5	N	N	
DATA/REMOTE SENSING/INTERFACE/IO. PORT	AD	9	N		C
ELECTROMECHANICAL SHAFT-POSITION TRANSDUCER/STATOFAD	AD	2	N	N	C
MODULO-4 COUNTER/SEQUENCES/DECODER/DEPRESSION	D	1	N	N	C
SHIFT REGISTER/LARGE APERTURE MAGNET EXPERIMENT	AD	9	N	N	C 39/61
"BRILLIANT" SOUND/HIGHER/HARMONICS	A	1	N		
2ND ORDER/NOISE REJECTION		7			C
-30F TO +120F/1-EVENING PROJECT	A	1			C
BIPOLAR RELAY DRIVER/OSCILLATOR-TIMER/TEST/CABLES	AD	8	N	N	C
MODULUS-3 COUNTER/PULSE/MUX.S	D	1	N		C
SQUELCH/CVSDM./INTELLIGIBILITY/SPOKEN WORD/SAMPLE	AD	8	N	Y	C
SENSITIVITY S OF 200MVUA^-1/PHOTO TUBE/RCA 925	A	3	N	N	C
TRS-80(R)/ASCII./TRANSMITTER/SENDING CW./DTR/BASIC	DA	6	N	Y	
SYNCHRONOUS DIGITAL/STEM/SCAN GENERATION/TV./DAC.S	D	9	N	N	C 42
SCR./TRIAC/SILICON-CONTROLLED RECTIFIER	A	1	N		C
SAMPLE CHANGES/CERENKOV DETECTORS/PULSES	D	1	N		
PSD./DIVIDER	A	6			C

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TTL./OVER/UNDER/LATCH/ZCD.	DA	8 N	N	C	
BEADS/REAGENTS/EQUILIBRIUM BLOCK/CHEMICAL/CHAMBER	A	9 N	N	C	25/42
AUDIO AMP./SPEAKER/SWITCH/DEBOUNCE/MONOSTABLE	AD	5 Y	N	C	45
FUNCTION GENERATOR/SCHMITT TRIGGER	A	7 N			
PROCESSING/PEAKS/NONLINEAR AMPLIFICATION	A	2 N			
TV. SET/IO./KEYBOARD/DISPLAY/SIGNALS	AD	6 Y		C	
TIMER/COUNTER/FF./ASTABLE MULTIVIBRATOR	DA	1 N	N		
ULTRAFAST ELECTROCHEMISTRY/MEASUREMENTS/REACTIONS	A	9 N	N	C	12
MARK-SPACE RATIO/BUFFERS/CHARGE & DISCHARGE	A	1 N	N		
TIMING/TRIGGER/1-SHOT RELAY TIMER/RC./FF./DELAY	AD	3 N	N	C	
ASTABLE/OSCILLATOR/MONOSTABLE/1-SHOT/RC./TRIGGER	A	8 N	N	C	
END TIDAL PCO ₂ /RESPIRATION/COMPRESSED AIR/LUNGS	AD	5 N	N		39
SET TIME/HEATER/TEMPERATURE/REGULATED	AD	1 N		C	
TIMER/CONTROLLED CCT/IC/POT/PULSE	A	1 N		C	
OSCILLATOR/PADDLE/TUNES/SPEAKER/TIMER	A	3 N		C	
BUZZER/SQUARE WAVE OUTPUT/DUAL TIMER	DA	1 Y			
TRS-80/SOUND/RECORDER/MORSE CODE PROGRAM	AD	2 Y			
VISUAL INDICATOR		1			
SAFE LEVEL/CONVERSION EQUATIONS		2			
GUARDIAN/JUNKBOX/BATTERIES/ARM/FEET/HELMET/TORSO	A	1 N	N	C	
DUAL J-K MASTER-SLAVE FF.S/CMOS./TRANSISTORS	DA	3 N	N	C	
ASTABLE OSCILLATOR/FF./CLOCK/TRANSISTORS	DA	2 N	N	C	
STRUNG TOGETHER/LIGHT LEVEL/PHOTOCELL/SOUND	A	2 Y	N	C	
FALSE TRIGGERING/HIGH PASS FILTER/BISTABLE/ASTABLE	AD	5 Y	N		
BRANCH HYBRID/LANGE/MSC AMPAC/LAMINATE/SUBSTRATE	A	1 Y	N		
MONOSTABLE/PULSE TRAIN/OSCILLATOR/PS.S/TTL. IO.	DA	4 N	N	C	
AC. OUTLETS/12V DC. RELAY/TOXICANT/FLOW-THROUGH	A	2 N	N		
TCM5087 OR TP5087 CHIP/TOUCH TONE(R)/DTMF./TIMER	AD	5 N	N		
INTEGRATOR/CONSTANT OVER +-20% FREQUENCY CHANGE	D	1 N	N	C	
DC./PHASE ANGLE/CURRENT/COSINE FUNCTION/DECODER	DA	7 N	N	C	
MUTE CCT/TIMING CCT/TIMER/TONE GENERATOR/NAND GATE	AD	2 N	N	C	64
SIMULATES SOUNDS/BASS DRUM TO WOOD BLOCK	A	4 Y			
MICROCONTROLLER/RAM.S/MELODY MODE FRAME/CMOS.	DA	7 N	N	C	
TIME CONSTANT/ON TIME/OFF TIME/CHARGING/DISCHARGE	A	1 N	N	C	
12-BIT ADC./UP./FIXED MULTIWIRED BEAM DETECTOR	A	4 N	N	C	
OA.S/INEXPENSIVE/ACCURACY OF ~1%/1.0NJ/OPTICAL	A	2 N	N	C	
BALL		1			
ILLUMINATION "COMPUTER"/SEQUENCING, FLASHING/DIODE	DA	6 N	N		
SENSE TEMPERATURE/HEATING/CAR ALARM/TRANSDUCER	A	6 N	N	C	
COMBINATION LOCK/SECURITY/SCR./HORN CCT/BURGLARS	AD	5 N	N	C	
FEEDBACK/CAPACITIVE CABLES/ON-OFF INDICATION	A	1 N	N	C	
GUARD RING/SAMPLE/AMP./HEATING	A	7 N	N	C	
ELAPSED TIME INDICATOR (ETI)/PS./60HZ OSCILLATOR	AD	5 N	N		
PHOTOTRANSISTOR/MICROPHONE/IR. EMITTER/CAMERA	A	8 Y	N	C	
VOLUME/SWEPT-FREQUENCY, UP-DOWN OSCILLATOR/TONE	AD	8 N	N		
ASTABLE MULTIVIBRATOR/DIVIDER/HALL EFFECT SWITCH	DA	3 N	N		E
PMT.S/SILICON DETECTOR/FET. SWITCH/DRIFT CHAMBER	AD	9 N	N	C	
TIMER/NOVICE CLASS/MORSE CODE	A	3 N		C	
30S TO 15MIN/USEFUL	A	3			

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PULSE/SOLENOID/MONITOR/RECORDING	AD	8 N	C	
PRIORITY ENCODER/BINARY DECODER/3-BIT BINARY CODE	D	1 N	N C	
OSCILLOSCOPE/DISPLAY/CAPACITANCE/CAPACITOR/CHARGES	A	3 N	N	
GAIN CONTROLLING/AUDIO/MUSIC/HF./BILATERAL/LED.	A	3 N	N C	
D-FF./ARBITRATION FF./NOR GATE/LOGIC/RC./SIMPLER	DA	1 N	N	
SWEEP RATE/~0.1 TO 10HZ/SIMPLE/15V SUPPLY	AD	1 N	N C	
DETECTION BW./TOUCH TONE(R)/FREQUENCY INDICATOR	A	5 N	N	
GPIB./IO. PORTS/SOFTWARE/SET-POINT CONTROL/EPROM.	DA	7 N	Y C	27/42
CHARGE-SENSING ELECTRODES/CROSS-CORRELATION/SOLID-STATE	A	8 N	N C	
COUNTER/LATCH/OSCILLATOR/RELAY SOUNDER	AD	2 Y		
DNA MOLECULES/SINGLE-CHIP MICROCOMPUTER/CPU./FIGE	DA	3 N	N C	
HF. METAL CERAMIC/TUBE/FAST/PHOTODIODE/SHAPING CCT	A	8 N	N C	
BACK-BIASED INTO AVALANCHE/AUTOMATIC NF. METER	A	3 N	N	
BRIDGE RECTIFIER/TRICKLE/CHARGE/LEAD ACID BATTERY	A	1 N	N C	6
'STOP' 'GO' COMMANDS/PRINTER PORT/SPOKEN WORDS	AD	2 N	Y C	
BREAKDOWNS/UP TO 200US/DISCHARGES/HV. PULSE/PLASMA	A	9 N	N C	
TONE CONTROLS/GYRATORS/M-DERIVED PI-SECTION/HI-FI	A	3 N	Y C	7
PARALLEL INTERFACE CONTROLLER/DAC.	DA	2 Y		
TV. IMAGES/LIVING CELLS/FIFO.-RAM./COUNTER	AD	3 N	C	
MICROCONTROLLER/SIM/VOCUS/SPEECH TO TEXT CONVERTER	FAD	7 Y	Y	
SCR./WELDING HEAD/RAPID DISCHARGE CAPACITOR/HEAT	A	2 N	N C	
ADC./DAC./TRACK-&-HOLD AMP./CLOCK/CPU./FFT.	AD	9 N	N C	
LATCH/KEYPAD/PROM./UP.	D	2		
SIMPLE/SYNTHESIZED SPEECH/VOICE/UP.	D	7 N	Y	
RAM./EPROM./PIA./IO./X-RAY DIFFRACTION/PDP 11-03	D	9 N	N C	
IONIZATION/DC. SUSTAINER/CW./CO2 LASERS/POWER	A	4 N	N C	
NOTES/TIMER/FF./SONG/TONE/SCALE/PITCH/<\$35	DA	4 N	C	
COMPARATOR/10-150HZ/10-150KHZ/STEPS/+-1HZ/+-1KHZ	AD	5 N	N C	
PIEZOELECTRIC CRYSTALS/RAM./PARALLEL	DA	9 N	C	42
200FT/DETECTOR/GAS/PHOTON BEAM/PULSE HEIGHT	A	5 N	N C	
DTMF. CODE/KEYPAD/PAD/RECEIVER IC/LINE/MODULAR	DA	4 N	Y C	
X9MM/WIPER POSITION/AUDIO/LED.S/EEPROM.S/TIMER	AD	6 N	N	
CURRENT/PARAMETRIC AMP./JUNCTION	A	1 N	C	
SENSORS/MAGNETIC/OPTICAL/IR.	A	4		
MUX./PLL./PCM./CHANNEL-SWITCHING/LONG-TAILED PAIR	A	5 N	N C	
		1	C	
SOUND QUALITY/OA.S/CUTTING/FREQUENCY	A	5 N	C	
THYRISTOR BRIDGE/LC. FILTER/SENSE	A	2 N	C	
IETS/2ND HARMONIC DETECTION/MICROCOMPUTER	A	4 N	C	
DIFFERENTIAL AMP./PF./PLL./CMOS./VCO./FF.	AD	1 N	N	16
ADC./CERN./UA6/EM. SHOWERS/SPS/SPECTROMETER	AD	9 N	N C	12
PHOTOTRANSISTOR/LIGHT/ROTATION/OPTICAL/PROBE	AD	2 N	N C	
HIGH INPUT IMPEDANCE/NULL OFFSET CCT/GAIN/MOSFET.	A	3 N	N C	
ACCURACY OF +-0.1DEG C/COMPUTATION/EPROM./RAM.	AD	9 N	Y C	
DIPOLE/FIELD, VOLTAGE OR CURRENT SENSOR/VHF.-UHF.	AD	5 N	N	
SENSOR/SOUND COUPLING/MATERNAL ABDOMEN/CARDIAC	A	7 N	N C	
GAS-SOLID/GAS-LIQUID CHROMATOGRAPHY/GSC/GLC	A	2 N	N C	
PIN PHOTODIODE/NIR./LASER POWER/NOISE/WAVELENGTHS	A	4 N	N C	
		2	C	

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LM13600/LM13700/CURRENT SOURCE	A	5 N	C	
BENEFIT/START/DAY/CLOCK/TIMING		1		
PULSE GENERATOR/DOWN COUNTER/DAC./DISPLAY/ECG.	DA	4 N	N C	
ACOUSTIC/AUDITORY/4TH ORDER CHEBYSHEV FILTER	A	3 N	N C	
ATTACK/DECAY/AM./ZERO SWITCHING/TRIANGULAR/AMP.	AD	6 Y	N	
IO.-DATA/INTERFACE/12MHZ 8051 UP./37% FASTER/PAL.	D	2 N	Y C	
DRIVER/RESISTANCE/LDR.	A	4 Y	N C	
FAULTY/DIVIDER CCT/SHORT CCT/FUSE/'CROWBARRED'/12V	A	2 Y	N	
DC. CONTROL/TONE, BALANCE & VOLUME/SUMMING AMP.S	A	2 N	N	
TRANSCONDUCTANCE OA.S/AUDIO/CLOCK/GATE/33-STAGE	DA	4 Y	N	
LARGE V.R./1A PER VOLT OF VREF/SIMPLIFIED CCT	AD	1 N	N C	
ZERO VOLTAGE SWITCH/HV./DIODE/DISCHARGES/CURRENT	AD	9 N	N C	25/91
ISOLATE/PORTS/UP TO 12/SPEED/ROTATION/SEQUENCE	DA	6 N	Y C	42
FEEDFORWARD CORRECTION/MOSFET.S/AUDIO/MUSIC/HI-FI	A	9 N	N	
RF./LASER/COLOR-CODED LINEAR BAR GRAPH/MIXING	AD	3 N	N C	
TUNABLE RESISTOR/OSCILLATION/UP.-BASED SYSTEMS	AD	4 N	N C	
50KHZ OSCILLATOR/MOSFET.-DRIVER/EFFICIENCY IS ~70%	A	1 N	N C	
SOUND/SONIC STAGE/EASY-TO-BUILD		4	C	
OPTOCOUPLER/SHUNT REGULATOR/CURRENT-LIMITING	AD	9 N	N C	
MASTER-SLAVE ARCHITECTURE/DAISY CHAIN/FUSE MAP	D	3 N	N C	
SUN/APPLE/IO./PHOTORESISTOR LIGHT-LEVEL DETECTORS	DA	3 N	Y	
SAMSUNG/LED.S/VU (OR VOLUME-UNIT)/10-LAMP DISPLAY	A	8 N	N C	
TEMPERATURE-SENSITIVE CURRENT SOURCE/TRANSDUCERS	A	3 N	N C	
WIDE RANGE/BRIDGE BALANCES/POTENTIOMETER/HEAT	A	2 N	N C	
VOLTAGE REFERENCE/LED./TRANSISTOR/OA.	A	3 N		
SOUNDER/DIGITAL/RC. OSCILLATOR/DELAY	AD	2 N	C	
HEADPHONE AMP./BIASING/ASTABLE MULTIVIBRATOR/AUDIO	A	7 N	N C	
LED./ACQUISITION/DISCHARGE/DIGITAL/PROBE	A	1 N	C	
VOLTAGE CALIBRATOR/ICE POINT/CHOPPER	AD	6 N		
PHOTOVOLTAIC/SOLAR PANELS/DC. MOTOR/MOSFET.S	A	6 N	N C	87
BUFFER/6502 ASSEMBLER/KIM-1/TINY BASIC/4 BITS/IO.	DA	6 N	Y C	
LOGARITHMIC/TIME SET/HIGH-VACUUM/DMM.	AD	4 N	C	
INPUT DIVIDER/WHEATSTONE BRIDGE	A	7 N		
		1	C	
LUNGS/LAG COMPENSATION/GAIN/DAMPING/OA./TRANSISTOR	A	4 N	N C	
MARKER GENERATOR/ATTENUATOR/COMBINER/WIDEBAND AMA		3 N	N C	
TRIGGER/SWITCHING/TRANSMITTER/NF. OF 1.3DB/PULSE	A	8 N	N C	
INPUT IMPEDANCE IS 76OHM/BIAS RESISTORS/NOISE	A	9 N	N C	
HEATER/DARLINGTON/SCHOTTKY DIODES/HOLDER	A	4 N	C	
CONSTANT-DURATION PULSES/PRECISE/ACCURATE/LPF.	A	1 N	N C	27
VLF./SW./VHF.-UHF./WIDE-MULTI-BAND/TRANSISTOR/RF.	A	4 N	N C	
DC. OFFSET/0.5MV/BIAS CURRENT/MOSFET. INPUT	A	3 N	N	
RFI. SUPPRESSION/HEATSINK/PREAMP.	A	1 N	N	
EFFICIENCIES/AS HIGH AS 93%/HCMOS./LSTTL./HCT/PS.	A	6 N	N	
CALORIMETER/GERMANIUM THERMOMETER/VACUUM	A	5 N	C	
ADC.S/X-RAY DETECTION/XE GAS/TRD/STYROFOAM PLATE	A	8 N	N	5
ALARM/FIRE/MONITOR/COMBUSTION AEROSOL MEASUREMENTA		7 N	N C	
INDICATES/ELECTROSTATIC FIELD		3		
GAS COLLECTION DEVICE/PERISTALTIC PUMPS/SEPARATOR	A	5 N	N	61

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VERTEX TPC. (VTPC)/CUSTOM/FUJITSU/COMMON BASE/12V	AD	4 N	N	C	
INEXPENSIVE/CONVERTS/AUDIO OUTPUT		3			
CVSD/MODULATOR-DEMULATOR/FILTER/VOICE	AD	4 N		C	
TWICE/FREQUENCY/FULL-WAVE RECTIFICATION/DOUBLING	AD	1 N	N		
VOLTAGE REGULATORS/SWITCHING SUPPLIES/"CROWBAR"	A	4 N	N		
CURRENT FLOW/LOW LEAD/DATA-COLLECTION	A	6 N		C	
SURGE VOLTAGES/NEON LAMPS/DC. MOTORS/HALL	A	1 N			
OVERTONE/FUNDAMENTAL/HARMONIC/FEEDBACK	A	6 N			
FF./SYMMETRISED SIGNAL/125MHZ/TDC./TOF.	D	9 N	N	C	
COMMON EMITTER AMP./FOLLOWER/CASCODE CCT/DRIVER	A	5 N	N		
HV./PULSE/ARC-DISCHARGE/AVERAGING INDUCTOR/COIL	AD	2 N	N	C	95
BALANCED MIXER/RF. AMP./DC. AMP./MAGNETIC	A	6 N		C	
BBC MICROCOMPUTER/FERROMAGNETISM/PARAMAGNETISM	A	6 N	N	C	42
RS232 SERIAL INTERFACE/ADDRESS/DATA/SBC./PIA.	D	9 N	N	C	
AMP./BOOSTER/LCD./COUNTERS/GAMMA-DETECTOR/MOTOR	AD	9 N	N	C	42
RF./IF./COUNTER/DISPLAY/AGC./AF./FM./AM./VFO.	AD	4 N			
WARBLING/BELL/PIEZO SOUND ELEMENT	A	1 N		C	
SCR./VOLTAGE REGULATOR/PASS TRANSISTOR	A	4 Y			
		3		C	
		1		C	
		1		C	
HIGH-POWER SEMICONDUCTOR TESTER/VOM RANGE EXTENDED	A	3 N	N	C	
RANGE 0.5-80NS/COINCIDENCE LOGIC/SH.	AD	4 N	N	C	
LED./DEAD BATTERIES/NICD.S/DRAWS ~0.25MA/RF.	A	2 N	N		
BW./DC. TO 150KHZ/MOSFET.S/VOLTAGE BOOSTER	A	7 N	N	C	
COMPARATOR/MONITORS/BATTERY VOLTAGE/SEMI-INVASIVE	A	2 N	N	C	
PWM./8-BIT/COMPARATOR/PLL./FM./MONOVIBRATOR/VCO.	DA	6 N	N		
IBM PC./COMMUNICATION/2MBAUD/10GHZ/AMATEUR RADIO	AD	9 N	N		
DC.-DC./ANALOG MULTIPLIER/FF./RC. CCTS/HF./POWER	AD	5 N	N	C	4/87
MDAC./COMPUTER/FREQUENCY SYNTHESIZER/SOLIDS	DA	7 N	N	C	5/39
TIMER-COUNTER/IO./DIGITAL SWITCHES/MPU./LPF.S	AD	5 N	Y	C	
FOR MAKING MEASUREMENTS IN AC. & DC. CCTS/AUDIO	A	5 Y	N	C	
MOTOROLA/DC.-TO-DC. CONVERSION/INDUCTOR/FILTER	AD	1 N	N	C	
TRANSIENTS/RADIOTHERAPY/7-SEGMENT/LED. DISPLAY	D	4 N	N	C	
HT. VOLTAGE/HV./CYLINDERS/ENGINE/SPARK/BATTERY	A	2 N	N	C	
FREQUENCY MULTIPLICATION/SUM & DIFFERENCE/IN LOCK	AD	1 N	N	C	
0.5IN HIGH CHARACTERS/DISPLAY/WHEATSTONE BRIDGE	AD	9 Y	N	C	
DUAL RETRIGGERABLE MONOSTABLE MULTIVIBRATORS	DA	4 N	N	C	
COMPARATOR/BANDPASS/OSCILLATOR/PROBES	AD	3 N		C	
MEASUREMENTS/100 PSI/TIRES/PORTABLE/9V BATTERY	AD	6 Y	N	C	
BAND-STOP/FREQUENCY-DEPENDENT NEGATIVE RESISTORS/ÇA	A	5 N	N	C	
POCKET-SIZED/0 TO 1999FT/BAROMETRIC/ATMOSPHERIC	AD	7 Y	N	C	
CHANNEL SEPARATION/INEXPENSIVE		3			
VERSATILE INSTRUMENT/ANTENNA SYSTEM		7			
MTS DISTRIBUTION OF SIGNALS		4		C	
COMMUNICATION PROTOCOL/PHONEMES/COMPUTERS/CMOS./AD	AD	9 N	Y	C	
EFFICIENCY/74%/VOLTAGE TRANSFORMATION/RIPPLE/95MV	AD	2 N	N	C	
DRY/SENSOR PROBE/BALLPOINT PENS/\$30/LEVEL	AD	2 N	N	C	
TIMER/~\$80/10MHZ CRYSTAL/2-DIGIT, 7-SEGMENT/100MHZ	DA	6 Y	N	C	

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LATCH/AMP./MOSFET./JFET./RS FF./RESOLUTION OF 1HZ	DA	7 Y	N	C	
DOUBLE-SIDEBAND SUPPRESSED-CARRIER SIGNAL/QUAD OA.	A	4 Y	N	C	
SELECTABLE TIME INTERVALS		1		C	
TONE GENERATORS/PIEZO-ELECTRIC BUZZER/OSCILLATOR	A	2 N	N	C	
IR. TESTER/LATCH/REGULATOR/NAND SCHMITT TRIGGER	AD	5 N	N	C	
BINARY DECODER/BINARY UP-DOWN COUNTER/PULSES	DA	2 N	N	C	
DISPLAY/COUNTING/CLOCK/SECONDS TO/HOURS	DA	2 N		C	
COUNTER/ROTOR/FREQUENCY/PERIOD/ICM7226A	D	3 N			42
LO./MIXER/IF./FSK. RECEIVER/VARACTOR DIODE/LEAKAGE	A	3 N	N		
PIEZO-ELECTRIC SOUND TRANSDUCER/AC.	A	3 Y		C	42
HEATER/SET-POINT REFERENCE/TRANSDUCER	A	1 N		C	
METAL BLOCK/GUNN DIODE OSCILLATOR/EMI.	DA	3 N	N	C	
LIMIT THE VOLTAGE SURGE/100KV BREAKDOWN/GAS/TUBE	A	2 N	N	C	
500KHZ/6-DIGIT LCD. DISPLAY/VMOS. TRANSISTOR/LED.	DA	5 Y	N	C	
MATRIX/OA./VCO./AUDIO/BC.ER/DIFFERENCE AMP.	AD	6 Y	N	C	E
LOW INPUT OFFSET VOLTAGE/DATA COLLECTION/1.1KW PS.	A	5 N	N	C	
NEARBY PORTABLE AM. RADIO/PITCH/MUSICAL/SPEAKER	A	3 N	N	C	
PTFE. TUBE/FLOW/HYPODERMIC NEEDLES/CELL/MONITOR	A	5 N	N	C	
PAL./INTERFACE LOGIC/TMS320C30 DSP./DAC./NIM/PMT.	AD	9 N	N	C	
OPTICAL LEVEL DETECTOR/LED.S/LIGHT PIPES	D	3 N		C	
RECTIFIED SINE WAVE SWEEP/OA./VOLTAGE REGULATOR	AD	3 N	N	C	
COMPARATOR/RELAY/TEMPERATURE/OA./COLD JUNCTION	AD	5 Y	N		
SCINTILLATORS/DETECTOR/DIODES/GAMMA/PULSE-SHAPE	A	3 N	N	C	12
SPEED-MEASURING/ACCURACY/TO WITHIN 0.5%/500KHZ-S	DA	2 N	N	C	
DISPLAY/START SWITCH/HIGHLY SENSITIVE	AD	1 N	N	C	
STABLISATOR/SWITCHING REGULATOR/HEATING	AD	4 N		C	
UP./IO. LINES/DIGIT/SEGMENT/33V/AC.-FILAMENT	AD	8 N	Y	C	
220V, 50HZ/TRUE RMS./NON-SINUSOIDAL/WAVEFORMS/8085	AD	9 N	N	C	
DATA ACQUISITION/MICROSYSTEMS/CONTROL/MUX./IO./UP.	AD	4 N	Y	C	
POST OFFICE CODE STANDARDIZATION ADVISORY GROUP	AD	9 N	N		42
LINE/LOAD REGULATION/9MV AT 75% EFFICIENCY	AD	2 N	N	C	
TAPE/FFT./PHOTORECEPTOR/IMPEDANCE/VOLTAGE CLAMP	AD	9 N	N	C	
TV./COLOR-TV. GATING CCT/OSCILLATOR	DA	3 Y			
LABORATORY EXPERIMENTS/ADC./RAM./CMOS./15MW	DA	2 N		C	
WITHIN PRESET BOUNDS/PULSE GENERATOR/DELAY/LIMIT	D	1 N	N	C	
CLOCK TRACK/RESPONSE/PLL./VFC./VCO.	DA	2 N	N		E
KELVIN/FORCE-SENSE/RESISTOR-BRIDGE/DAC./VOLTAGE	AD	8 N	N	C	
INTERFACED TO A COMPUTER/DISPLACEMENT/TEMPERATURE	AD	3 N	N	C	
INTERFACE/COMPUTER/AMP./PEAK-SIGNAL/SUSTAINED	AD	5 N	N	C	12
COMPUTER INTERFACING/EXCELS PROGRAMME/MPLI	AD	3 N	N	C	
QUARTZ CRYSTAL/100.00KHZ/HF. RECEIVER	D	2 Y			
WIDE-BW.-LOW-IMPEDANCE ACTIVE PS./OA./DC.	A	8 Y	N		
CATHETERS/HEMOGLOBIN/O ₂ TRANSPORT/BLOOD GAS	A	7 N	N	C	28
INDICATOR/TIME BASE/COUNTER/TONE GENERATOR/BUZZER	D	3 Y	N		
FLICKER-FREE DISPLAY/READS/COUNTER	D	1 N		C	
FILTER/SENSING ELEMENTS/LIGHTWEIGHT/COMPACT/SIMPLE	A	3 N	N	C	
FREQUENCY-GENERATOR/CLOCK/DECADE COUNTER	D	7 Y		C	
FF.S		2			
BANDPASS/SELECTIVE		1		C	

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SWR./POWERINDICATOR/CAPACITOR	A	2			
DC. PS./100W/OA./METALS	A	3	N	N	C
MOSFET. SWITCHES/HELMHOLTZ FIELD COILS/ANGLE	AD	3	N	N	C
POSITIVE/TV.-AMP./250GOHM OUTPUT IMPEDANCE/SUPPLY	A	2	N	N	C
SWITCHED-CAPACITOR CONVERTER/9V BATTERY/OSCILLATOR	D	5	Y	N	
PROGRAMMABLE VOLTAGE REFERENCE/THUMBWHEEL SWITC	AD	3	N	N	C
HIGH-INPUT-IMPEDANCE, UNITY-GAIN FOLLOWER/FEEDBACK	A	2	N	N	C
OA.S/ADC./HALF-WAVE PRECISION RECTIFIER/X-RAY	AD	9	N	N	
LED.S FLASH/NAND GATES/DECADE COUNTER/SWITCH	D	3	Y	N	57
HV./STEP-UP TRANSFORMER/DIPOLES/"FLAP" UP & DOWN	AD	5	Y	N	C
PHASE SHIFTER/FET./IN-PHASE/QUADRATURE COMPONENTS	AD	4	N	N	C
MOTOR/LOW SPEED/1-3 TO 1.8RPM./CEMENT/REGULATION	AD	3	N	N	C
FET.-INPUT/1-SHOT/LOCK-IN AMP./MODULATION/SNR.	AD	3	N	N	C
		2			
5V REGULATOR/HEX SCHMITT TRIGGER/CMOS./IC DESIGN	DA	3	Y	N	C
PHOTOTRANSISTOR COUPLER/SCR./PHOTO FET./RELAY/LED.	AD	9	Y	N	
DIFFERENTIATING/LATCHING/RESET/EITHER POLARITY	D	2	N	N	C
SH./FREQUENCY RESPONSE/COMPUTER/SOUND	AD	6	Y	N	
VCO./PHASE COMPARATOR/BY 1000/FEEDBACK PATH	AD	1	N	N	C
STATE/DRIVE/<\$100/COUPLING/>20MM	DA	3	N		C
SAMPLE WAVEFORMS		2			C
RAMP GENERATOR/CHARGING/CAPACITOR/PULSE HEIGHT	AD	4	N	N	C
DIGITAL/THERMOELECTRIC MODULES/SUMMER/SET SWITCHES	AD	5	N	N	C
COMPARATOR/INVERTING/NONINVERTING/AC./DIODE/OA.	A	2	N	N	C
SALLEN-KEY/NOTCH FILTER/RC./FILTERS	DA	8	N		C
PHOTODIODE/FLAME DETECTOR/T NETWORK	A	5	N		C
PLL./OA./SWITCHES/ACCURATE/Q/FREQUENCY-DIVISION	AD	7	N	N	C
FEEDBACK CCTS/SUMMING-DOUBLE INTEGRATOR/REFERENCE	EA	4	N	N	C 4
TEMPERATURE SENSOR/OA.S/DVM./ALARM	AD	4	N		C
PLL./FREQUENCY LOCKING/ADDRESS GENERATOR/MEMORY	AD	4	N	N	C
GAAS.P/TEMPERATURE SENSITIVE RESISTOR/CAPACITOR	DA	1	N	N	
PREDISTORTION SYNTHESIZER/HV. COUPLING TRANSFORMER	A	4	N	N	C
REGULATION/SPINAL CORD/VENTRAL ROOTS/PS.	A	9	N	N	C 4
DRIVES/SUBSTRATE/UNITY-GAIN FOLLOWER/AUDIO/LOADING	A	2	N	N	C
ADC./LOW-POWER/AVERAGE-TO-RMS. CONVERSION/WAVEFOR	AD	4	N	N	C
CORNING 125/BASIC SOFTWARE/MONITORS/TV. SCREEN	DA	1	N	N	C
2ND GENERATION/CC II/FREQUENCY/OSCILLATION/IDEAL	A	6	N	N	C
COMPLEMENTRY SEMMETRY AMP./TREBLE/STEREO AUDIO	A	2	N	N	C 8
LOW-COST/SENSOR/HEATING ELEMENT/RESISTOR	A	1	N		C
OFFSETTING/GAIN-CHANGING/THERMOMETER	A	2	N	N	C
EMF./COIL/VOLT-OHM METER/GALVANOMETER/INDUCTOR	A	2	N	N	C
AF./GENERATORS/TUNED-FILTER/SOUND WAVE/COSINE	A	3	N	N	
IBM/8-CHANNEL ANALOG MUX./CLOCK/UP./BUS/TIMERS	DA	5	N	N	C
CHOPPER STABILIZED/CRYSTAL/MINICOMPUTER	A	6	N		C
COUNTER/INTERFEROMETER/LIQUIDS/WATER	A	9	N		C E
ULF (3MHZ-3HZ)/VECTOR WAVEFORMS/SENSORS/MULTIPLY	A	5	N	N	C
ENC (EQUIVALENT NOISE CHARGE)/ENERGY RESOLUTION	A	6	N	N	C 61
OFFSET/HIGH-T\C/TEMPERATURE/SIGNAL CONDITIONING	A	5	N	N	C
SH./COMPARATOR/REFERENCE VOLTAGE/SENSORS	AD	2	N	N	C

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LED./PHOTOCELLS/RECEIVER/RADIOS/N-CHANNEL/JOMAR	AD	3 Y	N		
VOLTAGE-CONTROLLED CURRENT DRIVER	A	3 N		C	
RECEIVER/ALERTING/TONES/PLL./PHASE-LOCKED	DA	5 Y			
BBC MICROCOMPUTER/PULSE SHAPING/PHOTON COUNTER	AD	9 N	N	C	
PLL./DECADE COUNTER-DIVIDER/OA./ACCURACY OF 0.01HZ	AD	7 N	N	C	
		1			
CYLINDRICAL DRIFT CHAMBER (CDC)/MEMORY/TC/TTL.	AD	7 N	N	C	
EXCELLENT SOUND REPRODUCTION/NON-INVERTING AMP.	A	4 Y	N	C	
PWM./DAC./8-BIT BINARY COUNTER/SDK-85/UP./LEVEL	AD	9 N	N	C	
SEVERAL AMPS/TRANSISTORS/LED./THERMAL PROTECTION	A	4 Y	N		
	AD	4			
IC REFERENCES/ZENER DIODE/TEMPERATURE	A	3 N			
VISITORS	A	2 Y			
ALERTING UNIT/INSTRUCTIONS		3			
		1		C	
INPUT/JFET./NOISE/TRANSFORMER COUPLING/MICROSTRIP	A	9 N	N	C	
DING-DONG/HOUSE/SPEAKER VOLUME/FRONT/REAR	A	1 N	N	C	
POINTS/COIL/WINDING/TIMER/POWER DARLINGTON/BATTERY	A	4 Y	N		
LINE388/SWITCHING LOGIC/JFET.S/MATCHED/BALANCED	A	9 Y	N		
MOTORCYCLES/MOPEDS/BRIGHTNESS/4HZ RATE/ASTABLE	A	2 N	N		
RFI. FILTER/SUPPRESSION/EM./AUDIO/GROUND/VHF./UHF.	A	6 N	N		
VARACTOR DIODE/RF./FM./455KHZ FILTER/IF./COLPITTS	A	3 N	N	C	
PROTECTS AGAINST SHORT CCTS/AUDIO/OA./DIN/PCB.	A	6 Y	N		
KAON/24MW/CROSS-TALK COMPENSATION RESISTOR CHAINS	AD	4 N	N	C	5
UV. PHOTON DETECTOR/CHERENKOV LIGHT/GAS TMAE/FAST	AD	6 N	N	C	
FORCES & DISPLACEMENTS/DILATOMETER/SENSING TORQUE	A	3 N	N	C	
POWER MOSFET./FREE-WHEEL DIODE/INDUCTOR/TRIP POINT	AD	2 N	N	C	
CERAMIC CARTRIDGE/SQUARE/TRIANGULAR WAVE OUTPUT	A	2 N	N	C	
HF. 120MHZ BW. DIFFERENTIAL AMP./PULSE SHAPE	A	9 N	N	C	12
		1		C	
VOLUME/BALANCE/TILT/TRACKING REGULATOR/RELAY	A	9 Y	N		
RACETRACK MICROTRON (RTM)/DBM./DETECTOR	A	3 N	N	C	
RECTIFICATION/DIFFERENTIAL INPUT IMPEDANCE/1MOHM	A	1 N	N	C	
ULTRA-LOW CURRENT MEASUREMENTS/DC. DRIFT	AD	2 N		C	
PC./40KHZ/0.1-100HZ/TRIANGULAR-VOLTAGE WAVE FORM	AD	5 N	N	C	
GROUNDED-GATE JFET./IGFET.S/RF./TRANSISTORS	A	5 Y			
VOLTAGE DIVIDER/JFET. AMP./10 PARTS PER 1000000	A	2 N	N	C	
LOW PASS/DIFFERENTIAL INPUT/PREAMP.	AD	7 N	N	C	
PULSED HIGH-B PLASMA/LANGMUIR/I-V CURVE	AD	5 N		C	
1MHZ/CHARGING/LIGHT/LED./OPTICAL FIBER	A	3 N	N	C	
HIGH-FIDELITY/CMOS. BILATERAL		1		C	
THD./2-PORT/FEEDBACK	AD	9 N	N	C	
THERMISTOR PROBE/WHEATSTONE BRIDGE/SENSOR/DPM.	AD	6 N	N	C	4/25
FEEDBACK CURRENT/SIMULATES FREE FALL/GRAVITY/CHAOS	A	6 N	N	C	
CONDUCTOMETRIC CELL/ELECTROCHEMICAL PROCESSES/NE	A	3 N	N	C	
HYBRID/TDC.S/DISCRIMINATOR/ROUTERS/DETECTORS	A	8 N	N	C	12
HEART/MUX./ISOLATION AMP./OA./OPTICAL ISOLATORS	AD	4 N	N	C	AG
POSITION-SENSITIVE DETECTION/DELAY LINE/PHOTONS	A	6 N	N	C	12
COMPUTER/MONITORING/AQUEOUS SOLUTION/FORTRAN/LASEA		4 N	N	C	

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OA.S/PHASE-LAG/CARDIAC MUSCLE/TWITCH CONTRACTIONS	A	9 N	N	C	39
XY RECORDER/OSCILLOSCOPE/TIMEBASE	AD	3 N		C	E
FILTERED/PHOTODIODE/RECORDER FOR DISPLAY/PAS	A	4 N	N	C	
CHARACTERISTICS/STAIRCASE/OSCILLOSCOPE/DIODE PUMP	AD	9 Y	N		
PSD./LPF.	AD	6 N		C	
ION COLLECTOR CURRENT/PRESSURE/ELECTRODES/60HZ/BA	A	4 N	N	C	
OPTO-ISOLATOR/SDK 80-85/MYOFASCIAL PAIN/ECG.	AD	6 N	N	C	
GAIN/DEMULATOR/LASER/OPTICAL/PIN-10DP/POLARIZER	A	9 N	N	C	
POLYVINYLIDENE FLUORIDE/PVDF/STRESS/VIBETEK-20	A	2 N	N	C	
PHOTODIODES/WOLLASTON PRISM/SERVO/MODES	AD	5 N		C	
PHOTOTRANSISTOR/FREQUENCY-TO-VOLTAGE CONVERTER	A	1 N	N	C	95
GREATER RANGE/OSCILLATION/COMPARATOR	AD	2 N		C	
POSITIVE & NEGATIVE/HPLC. PUMP/PERISTALTIC/MOTOR	A	3 N	N	C	
OA.S/SUMMING AMP./CONTROLS THE CURRENT/FOLLOWER	AD	3 N	N	C	
IRRADIATION/SPIN-ECHO/TRANSMITTER/RECEIVER/MOSFET.	AD	6 N	N	C	
PERFUSION/ARTERIAL/LNA./DIFFERENTIAL AMP./LIMITING	A	6 N	N	C	
LARGE DRIFT CHAMBER/HIGH MAGNETIC FIELDS/DETECTOR	A	9 N	N	C	
STABILITY/FEEDBACK LOOP/0.01% IN 7.4MS/<1MV/VFC.	AD	7 N	N	C	
CURRENT MEASUREMENT/10 ⁻⁶ -10 ⁻¹² A/JFET. INPUT OA.	AD	3 N	N	C	
PLASMA TURBULENCE/AMP./TEXT/FLAT TO 100KHZ/PIXEL	A	3 N	N	C	88
COMPLEMENTARY FEEDBACK OUTPUT/CURRENT-SENSITIVE	A	8 N	N	C	
MILLER EFFECT/DRAIN/5DB NF./20 TO 60KHZ	A	5 N	N	C	
ZERO AT 27HZ/POLE AT 1KHZ/DAMPING/FORCE-BALANCE	A	3 N	N	C	
ABSORPTION OF IR. RADIATION/METER	AD	5 N		C	
DMA./CMOS./CGA/MS-DOS./NMI./CRT. CONTROLLER/LCD.	DA	1 N	N	C	
SENSYM/TEMPERATURE/MEASUREMENTS/FIGARO/DETECTION	A	4 N	N		42
100W MAX./25KHZ/5 TO 40VDC.	A	2			
HIGH IMPEDANCE/NOISY GROUND REFERENCE/CALIBRATION	A	4 N	N	C	
RANDOM/PERIODICAL/ADC./MEASURE/NON-LINEARITY	AD	4 N	N	C	
VOLTAGE TO CURRENT CONVERTER/REFERENCE VOLTAGE	AD	6 N	N	C	42
RESISTANCE CHANGES/HEAT TRANSFER/TEMPERATURE	A	6 N	N	C	25
PARALLEL/RS-232 PORT/BSR COMMAND MODULE/115V AC.	D	9 Y	Y	C	
POWER TRANSISTORS/SLOTS/ARMATURE/POLE PIECE/MAGNETA	A	7 N	N		
CARS/LPF.ING/LC./AUDIO/FILTER CHOKES/TRANSFORMER	A	2 N	N	C	
LINE MONITOR/NOT-READY TIMER/LATCH/LOGIC	DA	4 N		C	
WEATHER SATELLITE/\$200/240-RPM./PRINTING/IMAGE	A	3 N	N	C	
CURRENT QUANTIZED/6-DECADES OF CHARGE/THUMBWHEELSDA	A	9 N	N	C	12/42
FURNACE IR. EMISSION (FIRE)/FT. SPECTROMETER (FTS)	A	8 N	N	C	25
MULTIPLE ENTRANCE-SLIT SPECTROMETER (MESS)/S-100	A	9 N	N	C	
INTERFACE/UP./LATCHES/INTERRUPTS/EVERY 15 OR 20MS	D	5 N	Y	C	
VOLTAGE DROP/DECREASES BY ~2MV K ⁻¹ /NOISE	A	1 Y	N		
MONOSTABLE/DELAY/ECL./INPUT PROTECTION/PULSE/TUBES	AD	7 N	N	C	
PREAMP.S/PSD./LEAD SELENIDE DETECTORS/BALANCING	A	7 N	N	C	
TRD/MWPC./ANTIMATTER/POSITRONS/ANTIPROTONS/NASA	A	7 N	N	C	12
SQUARER/BUFFER AMP./MARGINAL OSCILLATOR	AD	2 N	N	C	
ADJUSTABLE FILTERING & SNSITIVITY/RESET THE PS.	A	3 N	N	C	
VIC20/COMMODORE 64/TURTLE/PORT	D	1			
MERCURY SWITCH/COUNTER/DISPLAY	D	5		C	
NERVE STIMULATING ELECTRODE/LIGHT/CORNEA	A	9 N		C	

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NONHARMONIC/RELAXATION OSCILLATOR/COMPARATOR MODIA	A	4 N	N	C	
VOGAD/INVERTING SEE-SAW AMP./QUAD OA./RADIO	A	3 N	N		
LED./OUTPUT OF A POWER AMP./POTENTIAL DIVIDER	A	2 Y	N		
CHOPPER/LOCK-IN AMP./COMBUSTION/RECORDER	A	7 N	N	C	
LCD./40000HZ OSCILLATOR/PIN PHOTODIODE/IR. BEAM	AD	5 N	N		
DIGITIZATION/NITNH/PULSES/SIGNAL PROCESSING	AD	6 N	N	C	12/88
TO BALANCE THE GROUND-COUPLING CAPACITANCE/FET.	A	4 N	N	C	8
IRON LEASH/HEAT/AC./DC./<\$10/POTENTIOMETER	A	3 N	N	C	
HALL-EFFECT SWITCH/INTERRUPTER DISC/PRINTER PORT	AD	9 N	Y		
SIGNAL DEFLECTION/SUMMER/VOLTAGE/DATA DISPLAY	A	6 N	N	C	
COMPANDOR/DYNAMIC RANGE/DISK-TO-TAPE	A	5 Y		C	
LED./PROPORTIONAL CONTROLLER/OA./METAL/PLATES	A	2 N	N	C	
AI/BRAIN-WAVE-MONITORING BIOFEEDBACK/PC./4-CHANNEL	AD	9 N	Y	C	
TWIN-T FILTER/OA./~5KHZ OSCILLATION/AF./AM./ECG.	A	3 N	N	C	E
MOV./LINE/SAG/SURGE/FAULT	AD	5 Y	N	C	
LIFE EXPECTANCY/FAILURE MODES		3		C	
RESPONSE TIME ENHANCEMENT/LONG TERM STABILITY	A	6 N	N	C	
OA./NULL DETECTOR/HIGH INPUT IMPEDANCES/HIGH CMRR.	A	3 Y	N	C	
PRINTER CABLE/PC./DB-25	AD	3 N		C	
DRIVEN BY/AMP. HEADPHONE OUTPUT/PUSH-PULL/AUDIO	A	3 N	N	C	
NOISE GENERATOR/SWEEP/FILTER/OSCILLATOR	AD	4 Y			
HI-FI SYSTEMS/RECORDING STUDIOS		5			
TEMPERATURE STABILITY/DC./LOAD/ERROR VOLTAGE	A	1 N	N	C	
0.2-2V/GAIN/10KHZ TO 10MHZ/DECADE STEP ATTENUATOR	A	5 N	N		3
TRANSFORM/OSCILLOSCOPE/TIME/SPACE	A	9 N		C	
LIGHT SPOT/SCREEN/HYSTERESIS/INTENSITY/POSITION	A	3 N	N	C	E/39
PROBE/UP./CPU./HOST PC./DEVELOPMENT/TEST & DEBUG	D	4 N	N	C	
1UF OUTPUT CAPACITOR/DC. VOLTAGE/HI-FI	A	1 N	N		34
CD. PLAYER/MOD.ING/IMPROVEMENT/PERFORMANCE	A	2 N	N		
INVERT/INCANDESCENT/CURRENT LIMIT	AD	4 N			
PELTIER CELL/TEMPERATURE SENSOR	A	3 N		C	
SENSOR/IR. LED./PHOTOTRANSISTOR/COMPARATOR/RELAY	A	6 N	Y	C	E
SPEAKER/6V REGULATOR/HISSING/THROTTLES/NOISE	A	2 N	N		
WIND SPEED/DISPLAYS/TEMPERATURE-HUMIDITY/DECODER	AD	8 Y	N		
SENSORS/TEMPERATURES/OA. & VOLTAGE REFERENCE	A	5 N	N	C	39
HOSTILE ENVIRONMENTS/COAL DUST/EXPLOSIONS/MINES	A	4 N	N	C	
PN JUNCTION/REFERENCE DIODE/ZERO ADJUST	A	1 N		C	
CENTER SCALE READING/FREQUENCY/ACCURACY OF +-1HZ	A	4 Y	N		
VOCAL/MOZER ENCODING/ROM./SPEAK/PHRASES/FILTER	DA	5 N	N		
BETWEEN THE RF. INPUT AMP./1ST MIXER/VSWR. BRIDGE	A	3 N	N		
SPECKLEGRAM/HEART/SYSTOLIC PHASE/BREATHING	A	7 N	N	C	
TROUBLESHOOTING/MONITOR SPEAKER	A	3			
TEMPERATURE-CONTROLLED/20 PPM	A	1 N		C	
4TH-ORDER POLYNOMIAL CURVE-FITTING CCT	AD	4 N		C	
F-V CONVERSION		3			
		1			
DOT-BAR DISPLAY DRIVER/LED./READOUT	AD	7		C	42
LANGMUIR PROBE/BASE/GATE/CURRENT LIMITER/JFET.	A	4 N	N	C	
UNBALANCED/TEMPERATURES/AMBIENT/VENTILATION-SYSTEMA		1 N	N	C	

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GADGETS/WIPER CONTROL/CRUISE/LIGHTS/VISOR/MEMORY	A	4	N	N	C	
MEASUREMENTS/NULL DETECTOR/DETECTED/ZENER DIODE	A	3	N	N	C	
UNITY GAIN BW./TUNING VOLTAGE/VOLTAGE CONTROLLED	A	2	N	N		
DIFFERENTIATE BETWEEN 2 FREQUENCIES/HIGH-PASS	AD	1	N	N	C	E
WHITE NOISE SOURCE/"CHUFFING"/AM./SPEAKER/LOCO	A	6	Y	N		
ADC.S/TELEMETRY/TEMPERATURE SENSOR/TRANSISTORS	AD	2	N	N	C	
OA./PLEASANT-SOUNDING/ASTABLE MULTIVIBRATOR/DECAY	AD	4	Y	N	C	
R-C/BEC (BATTERY ELIMINATOR CONTROL)/IC TIMING	A	2	N	N		
LED. DISPLAYS/COLOR TV. OSCILLATOR CRYSTAL	D	1	N			
LOWER & UPPER LEVEL/POLE-ZERO CANCELLATION/FAST	AD	9	N	N	C	61
TIMER/ADC./2 DAC.S/ELECTROCHEMICAL INTERFACE/LPF.S	DA	9	N	N	C	42
SCR./VOLTAGE REGULATOR/CONSTANT CURRENT	A	3	Y		C	
ERROR AMP./CONTROL/OSCILLATOR	AD	9	Y		C	E
LITHIUM BATTERY/BUFFERS/DECODERS/SLOT	D	6	Y		C	
VOICE STRESS/HAND-HELD LED. DISPLAY		6				
SURFACE NOISE/SCRATCH/REDUCTION		5			C	
TAPE DECKS		2				
PREVENTS TURN-ON & TURN-OFF THUMP/OA./AUDIO/LF.	A	8	Y	N	C	
CURRENT LIMITING/TEST-INSTRUMENT ADD-ON/REACTIVE	A	5	N	N	C	
BOOST/SWITCHING/HIGH EFFICIENCY/STEP-UP/FLYBACK	AD	7	N	N		
HALF-CYLINDRICAL CAPACITANCE SENSOR/COUNTER	AD	5	N	N	C	9/AA
HANDSHAKE/990/MICROCOMPUTER/SYNTHETIC SPEECH/VOICED		5	N	N	C	57
TIME STEP/LASER/PULSE GENERATOR/ENCODER	DA	4	N		C	
MODULATING/LIGHTWAVE/PHOTOMULTIPLIER	A	9	N			
OA./TEMPERATURE	A	1	N		C	
APPLE II+/ADC./VERSATILE & ACCURATE/DAS./REFERENCE	A	4	N	Y	C	42
SIMPLE/2-TERMINAL/10MV PER DEGREE C/JUNCTION/OA.	AD	5	Y	N		
COOLING/AMYGDALA/COIL/TIP THERMOCOUPLE	AD	9	N		C	
ANALOG SWITCH/COMPARATORS/BEAT/PHASE DIFFERENCE	AD	2	N	N	C	
HEATER/WARMING RESISTANCE/CALIBRATION/INCUBATORS	A	4	N	N		42
AIR FLOW/ELIMINATE GLITCHES/OVERHEATING/SRAM.	A	3	N	N		
DIVIDE-BY-5/6/SYNCHRONOUS/J-K FF./GATE PULSE	D	2	N	N		
SHOCK TUBE/TUNNEL/50OHM SENSOR/TRANSIENT VOLTAGE	AD	2	N	N	C	
OVERTEMPERATURE/FANS/COMPARATOR/SCALING-AMP./PS.	A	2	N	N	C	
DARLINGTON PAIR/COIL/WINDING/CALIBRATION/LED.	A	2	N	N	C	
COIL/AMP./REVERSED FIELD PINCH (RFP)/MAGNETIC/FLUX	A	5	N	N	C	
DVM./ANODIC STRIPPING VOLTAMMETRY (ASV)	A	9	N		C	E/42
TC./SENSOR/BIAS/RESISTOR	A	4	N	N	C	
LIGHT SOURCE/PULSE GENERATOR/CURRENT PULSE OF 60MA	A	5	N	N	C	
GUARD RING/INVERTING/NON-INVERTING/AC./DC./ACTIVE	A	5	Y	N	C	
BCD. DIGITS/SCANNER SOFTWARE/8530/ZILOG/FAD/RADIO	AD	4	N	Y		33
LASER SPECKLE INTERFEROMETRY/R-WAVE/SPECKLEGRAMS	A	6	N	N	C	
MWPC./MSD/FET. SOURCE FOLLOWER/NORTON-TYPE AMP.	A	7	N	N	C	12
PCB./MUSIC/AMPLIFIED, FILTERED/AGC./OA./DRIVER	AD	9	Y	N	C	
OA./MEASURING/AMP. & DIODE/CURRENT TRANSFORMER	AD	3	N	N	C	
BOUNDARY-SCAN CELLS (T-CELLS OR SCOPE OCTALS)/DSP.	D	6	N	N	C	
COLPITTS OSCILLATOR/OA./~7KHZ/SENSING LOOPS/COILS	A	3	N	N	C	
FLUORESCENT FIBRE/EMIT LIGHT/FLASHOVER/HV./PD/FF.	AD	3	N	N	C	
WALKMAN/SPEAKERS/KIT/CASSETTE/TAPE DECK	A	2	Y			

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FROZEN WATER/ICE CREAM/BATTERY OPERATED/BLACKOUTS	A	5 Y	N	C	
SPEECH IMPAIRMENTS/DISORDERS/MICROPHONE AMP./OA.	A	2 N	N	C	
ALARM/ISOLATED CURRENT MONITOR/LIGHT	AD	9 N		C	
AMP./FF.S/INDICATES THE LEAD-LAG/FET. SWITCH	AD	5 N	N	C	
IMAGING PHOTON DETECTOR/INTERFEROMETER	A	7 N		C	
DRIVE/AUDIO AMP.		1		C	
DETECTOR/HV./BATTERY/SENSITIVITY OF ~10FC/HEALTH	AD	4 N	N	C	
HV. DISTRIBUTION CCT/ITC/CENTRAL DRIFT CHAMBER	AD	9 N	N	C	
HEADS OR TAILS	AD	1		C	42
LPF./COMPENSATE FOR LOSSES	A	4			
ANTENNAS/FS METER/DC. AMP./DB	A	5			
ADAPTIVE/PROBABILISTIC TREATMENT OF DIGITAL CCTS	D	9 N	N	C	
DETECTOR/ADC./POSTAMP./VARIABLE GAIN AMP./FILTER	AD	5 N	N	C	
		2		C	
ADC. LM0809/IO./POSITION CONTROL/SOLAR PANEL	AD	5 N	N	C	E
IMPATT/P-I-N/CHANGES THE BIAS CURRENT/RF. POWER	A	8 N	N		28
TTL./MULTICHANNEL SCALING (MCS)/ECL. PULSES/LIGHT	D	5 N	N	C	25
FET./PROTECTION/5-40V/TRIGGERING/RESET	A	1 N			
TRANSISTOR/PLATE CURRENT/CUTOFF/KEY-UP	A	1 N			
SSB.	A	1 N			
PROBES/FLASHING BULB/BATTERY/WATER LEVEL	A	2 N			
		1		C	
AMP.S/ADJUSTED/15 TO 150W	A	1		C	
CONDITION/BATTERIES/SOUND AN ALARM/POTENTIOMETER	A	2 N	N	C	
LAND/TONE ALERT/CAPACITOR DISCHARGE PHOTO TIMER	A	2 N	N		E
NULL-DETECTOR/WIDTH-VOLTAGE CONVERTOR/IDLING	AD	2 N	N		
HAMS/MEASUREMENTS/POWER LEVEL/50OHM/READING	A	1 N	N		
OSCILLATORS/IF. STRIPS/BETWEEN 1W & 250W/30MHZ	A	1 N	N	C	
HEATS-OF-REACTION/RESISTANCE/CURRENT/FENWAL	A	2 N	N	C	
CASSETTE RECORDER/MARKER SOUND & SW. TIME SIGNALS	A	2 N	N	C	
RF./LOUD SOUND/ANTENNA/PIEZOELECTRIC/TRANSMITTER	A	1 N	N	C	
COULOSTATIC PULSE GENERATORS/ALIQUOTS	AD	3 N		C	
COILS/SPEAKER WINDINGS/TRIANGLE-WAVE/AGC./COUNTERS	AD	8 Y	N		
ANTENNA/RF. TRANSFORMER/VARIABLE CAPACITORS	A	3 N	N		
HIGH-INTENSITY LAMP/SCHOTTKY DIODES	A	9 N		C	
DRAIN-TO-SOURCE RESISTANCE/SOLENOID	A	3 N		C	
TESTING/RF./ANTENNA	A	1 N	N	C	
VOICE-OPERATED-RELAY/"CARRIER OPERATED RELAY"/COR	A	2 N	N		
NOISE BRIDGE/GENERATOR/1.7-30MHZ/LED.	A	4 N			
OVERLOAD/ENERGIZING PULSE/CAPACITOR/CURRENT/LED.	A	1 N	N		
RETRIGGERABLE/PULSES/LEADING/TRAILING EDGE	D	1 N	N	C	
-10 TO 100DEG C/RELAY/NTC./PTC./SIMPLE/RELAY	A	1 N	N		
SQUAREWAVES/DEBOUNCED 1-SHOT TRIGGER SOURCE/CIA	D	5 N	Y	C	
ARM/HEATER/THERMAL/PROBE INTERFACE/ADC./TPD/FLOW	AD	8 N	Y	C	
BCD.-TO-DECIMAL CONVERTER/USER PORT/MULTISWITCH	D	2 N	Y	C	
NO MOVING PARTS/ELECTRONIC KEYER		2			
LIGHT-CONTROLLED ATTENUATOR		5			
FLASHLIGHT/BATTERY CHARGER/LIGHT BULB/CONTACTS	A	2 N	N	C	
BASE/COLLECTOR/EMITTER/RESISTORS/LOUDER	A	1 N	N	C	

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PULSE-FORMING NETWORK (PFN)/EXCITER/TRIGGER/HEAD	A	4	N	N	C	E
CHOPPER/MIRROR/WATER BATH/BEAM SPLITTER	A	5	N		C	
GATING PLATES/ION PULSE/PHOTOMULTIPLIER/ION BEAMS	A	4	N	N	C	
DRIVE CCTS/HIGH-SPEED/<=10NS/90V VOLTAGE STEP/IONS	DA	5	N	N	C	E
NOISELESS PICKUP COIL/PULSED	A	9			C	
R/X COMPONENTS/WIDE FREQUENCY RANGE		5				
NJFET./GAIN OF 29DB/3HZ TO 13MHZ/SIMPLE/THERMAL	A	5	N	N	C	
RESOLUTION/LASER PULSES/OSCILLOSCOPE	DA	3	N		C	
<\$30/REFRIGERATORS/DISHWASHERS	A	5	Y			
DUAL GATE JFET./FET./X-RAYS/LIGHT/CCD.	A	6	N		C	
INTEGRATOR/SERVOLOCKING/BEAT	A	3			C	
<90OHM/TEST PULSES/RF. SHIELDING & GROUNDING	A	9	N	N	C	
IMMISCIBLE ELECTROLYTES/FOLLOWER/COUNTER ELECTRODE	A	9	N	N	C	12/39
TRANSFORMER CORE/TRANSISTORS/HV. PULSE/TUBE/CABLE	A	3	N	N	C	
COMPARATOR/UP-DOWN COUNTER/SH./ADC./MUX.	DA	9	N	N	C	42
SI:SB/PHOTOCONDUCTIVE OR PHOTOVOLTAIC/PHOTODIODES	A	2	N	N	C	
BI-DIRECTIONAL COUPLER/RF./TRANSMISSION LINE/DIODE	A	1	Y	N		
LINE DRIVER/MOSFET.S/MICROCONTROLLERS/COMPUTER	AD	6	N	N		
COMMERCIAL PRODUCTS/PIN DIODE/STEERABLE ANTENNA	A	2	N	N		
CURRENT AMPLIFICATION/PUSH-PULL/STIMULATOR/WAVES	A	9	N	N	C	
BURSTS OF SOUND/OPTOISOLATOR/DETECTOR	DA	4	Y			
BAND GAP REFERENCE DIODES/0-250V DC./10 OR 30MA	A	1	N	N	C	
TEMPERATURE SENSOR/HEATED AIR		2			C	
PUT/SCR./PROGRAMMABLE UNIJUNCTION	A	5	Y			
RECEIVER/POWER COUPLER/50OHM OUTPUT/MILLER/CABLE	A	1	N	N		
AMATEUR TV./VCO./FILTER/VIDEO AMP. & DRIVER	AD	3	N	N		
POSITIVE FEEDBACK/IR DROP/DUMMY CELL/ITIES/RADIUS	A	9	N	N	C	
DBM./TESTING/MULTIPOLE FILTERS	A	4	N	N		
ERROR OF <0.02 K/AT 273 K 5MHZ/MEASUREMENT/PROBE	A	2	N	N	C	
FETUS/HEAT/MOTHER/THERMAL/MONITORING/THERMOCOUPLE	A	5	N	N	C	
CELL VOLTAGE/3.6V/BLOCKING DIODE/100MA/REFERENCE	A	2	N	N	C	
CURRENT CONTROL/MONITOR/ACTIVE BRIDGE/COMPENSATION	AD	8	N	N	C	
GAIN/700000/700MV-MV/20UA/LOW OFFSET VOLTAGE	AD	1	N	N	C	
TRANSMIT/PEAK DETECTOR/0.7S/DELAY THE TURNOFF	A	1	N	N	C	E
ADC./DIGITISING/PATCH-CLAMP/LOW-NOISE FET./OA.S	A	9	N	N	C	
WIDEBAND TRANSMISSION LINE TRANSFORMERS	A	5	N		C	
SERIAL PORT/COPROCESSOR/FREQUENCY-DOMAIN/VOCUS	AD	5	Y	Y		
320UA/PROGRAMMABLE OA./DIODE	A	2	N		C	
LOW-COST/RATE/CLIMB/BAROMETER		3			C	
		1				
COMPLEX SOUNDS/ALLOPHONES/PHONEME/AUDIO/MONITOR	DA	3	N	Y		
VOLTAGE FEEDBACK PAIR/FET./GAIN/AMP. NOISE	A	2	N	N		
SENSORS/SEEBECK EFFECT/COLD JUNCTION COMPENSATION	AD	6	Y	N		
GAIN STABILITY/UNITY-GAIN/FASTER/ACCURACY/0.5%	A	1	N	N	C	E
MICROCONTROLLER/SYNTHESIZING/DIGITAL FILTER/SOUNDS	AD	2	N	N	C	
1200W INPUT/<100W OF DRIVE/CPU./ANTENNA SWITCHING	AD	9	N	N		
NEGATIVE FEEDBACK/TRANSFER FUNCTION/RESISTANCES	A	2	N	N	C	
SENSORS/OA./1MV-1MM MERCURY/KILOPASCALS/MOTOROLA	AD	1	N	N	C	
VIBRATIONAL/CURRENT-VOLTAGE CURVE/LOCK-IN AMP.S	A	8	N	N	C	

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START DETECTOR/TOF. MEASUREMENT/REBUNCHER/ENERGY	A	7	N	N	C	61
UP./MICROCOMPUTER/CHARGE-DISCHARGE TIME INTERVALS	AD	1	N	N	C	
OA./RF./FAST LOGIC/AMP./PIN PHOTODIODE/COUNTDOWN	AD	3	N	N	C	
COOLED/WAVE-TRAP/LC. CCT/VOLTAGE/CURRENT/10KHZ	A	6	N	N	C	
STABLE/ACCURATE 10V REFERENCE/INPUT IMPEDANCES	A	3	N	N		
THERMOMETRY/THUMBWHEEL SWITCHES/ACCURACY/0.03%		2	N	N	C	
OA./BUFFER/COLORATION & BLEACHING/ELECTRODE/0.1A	AD	2	N	N	C	
10MBITS PER SECOND/P-I-N PHOTODIODE/TTL./DATA	DA	1	N	N	C	
TRANSITION TEMPERATURE/YBACUO/YBCO/1KHZ/FIELD	AD	9	N	N	C	
PHONEMES/SOUND/WORD/16K ROM./PWM./AUDIO	DA	6	N			
DYNODE/PHOTOMULTIPLIERS/CURRENT FOLLOWER	A	6	N		C	
BUFFER/ACQUISITION/FILTER/TTL./DECODER/MOS.	AD	5	N	N	C	
INEXPENSIVE VOCAL ADD-ON/MICRO	DA	4				
PASS ENERGY/TRANSISTORS/+600V/SAM/ENERGY/RESOLVING	A	4	N	N	C	
RF. AMP.S/LO./MIXER/NULL/IF./EM. COMPATIBILITY/EMC	A	6	N	N	C	
LOW-NOISE/VERY LOW BIAS CURRENTS/DIFET.	A	1	N	N	C	
10PA/+3%/VERY SMALL CURRENTS/FET. INPUT	A	4	N		C	
DETECTOR/EQUIVALENT SERIES NOISE RESISTANCE/40OHM	A	4	N	N	C	
MAGNETOMETER/ABSOLUTE VALUE CCT/LOGIC CCT/OA.S	AD	6	N	N	C	E/39
METEOR TRAILS/SHOWERS/RADIO PROPAGATION/IONIZATION	A	3	N	N	C	
BANDPASS/LOWPASS/OSCILLATOR/SINE SHAPER/TRANSPOSE	A	2	N	N	C	
TTL./HV./336-CHANNEL/TRAJECTORIES/CAMAC/COMPUTER	AD	5	N	N	C	E/12
TRIANGLE WAVE OSCILLATOR/MONOSTABLE/MOSFET./DRIVE	A	4	Y	N		
SPATIAL RESOLUTION/MONOSTABLE/SENSE WIRES/CATHODE	AD	9	N	N	C	12
AAS./STEPPER MOTOR/METALS/BLACK-BODY EMISSION	A	9	N	N	C	25/42
TALK/MEMORY/DIGITAL/FILTERING/IBM PC./DIGITIZING	AD	5	N	N		
DELAY/IGNORE OVERLOADS OF BRIEF DURATION/LIMITS	A	1	N	N	C	
OA./\$50/INPUT/LOADING/ROLLOFF	A	3	Y	N		
DIGITAL/ADDRESS DECODER/SHIFT REGISTER	D	2	N		C	42
3.5-7.5MHZ COIL/REGENERATION/ANTENNA COUPLING	A	5	N	N	C	
RADIOACTIVE DECAYS/HIGH ENERGY PHYSICS/PEAK/ADC.	AD	5	N	N	C	
CODE/LSI./LOGIC/DELAY/PULSES/DISABLING	D	2	N		C	
PTT./VOX/CW./FM./RF./PLL./SSB./RIT/LED./SWR. METER	AD	7	N	N		
PHASE SHIFTING NETWORK/~172DEG/50OHM GAIN BLOCKS	A	4	N	N		
COIN/FF./TIMER-OSCILLATOR/OPTOISOLATOR-COUPLER/IR.	DA	6	N	N	C	
MOTION/SENSOR/ENCODER/FLUX/CURRENT/SCHMITT TRIGGER	AD	3	N	N		
MICROPHONE/GRID/HOLOGRAM/DETECTOR/BBC	D	4	N		C	
0 TO 100DEG C/WHEATSTONE BRIDGE/MEASUREMENT/WIRE	A	3	N	N	C	
SPDT./OA.-CONTROLLED SHUNT SWITCH/RF./HF./SERIES	A	6	N	N	C	
VARIABLE CRYSTAL OSCILLATOR (VXO)/STABILITY/RIGS	A	4	N	N	C	
EXPONENTIAL AMP./FREQUENCY SWEEP/LINEAR RAMP	A	1	N	N	C	
CLASS AB OUTPUT/TELEDYNE/ERROR COMPENSATION/OFFSET	A	2	N	N		
KEK/RING/BGO CRYSTALS/READOUT/ENERGY/POSITION/BEAM	AD	9	N	N	C	12
NOISE/INPUT CAPACITANCE/MTBF. OF 100YR/\$3.00/PULSE	A	8	N	N	C	
ELECTROTHERMAL SAMPLE VOLATILISATION (ETV)/MIP/PS.	AD	4	N	N		
CCITT./ECHO-CANCELER/9600-BITS-S/PSTN/TELEPHONE	AD	4	N	N	C	
PS./N-CHANNEL FET./MUX. DISPLAY/40MHZ/CMOS./VHF.	DA	6	N	N		
BOLOMETRIC DETECTORS/COLD/TEMPERATURES/BOOTSTRAP	A	6	N	N	C	
HIGH-SPEED PRECISION CONTROL OF SIGNAL LEVEL	A	2	N	N	C	

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CONSTANT RATIO/DIODE/SWITCHED DEMODULATOR/+1%	A	2 N	N	C	
EHT./KEEP OUT THE SQUIRRELS/ISOLATION TRANSFORMER	A	1 N	N	C	
ENC/DETECTOR/NOISE/SNR./PULSE SHAPE/CABLE LENGTH	A	2 N	N	C	12
TEMPERATURE MEASUREMENT/CHOPPER-STABILIZED OA.	A	1 N	N	C	
POWER TRANSFORMER/TOROIDAL/AVEL-LINDBERG/RECTIFIER	A	2 N	N		57
0.75-DATA-CELL 1-SHOT/BIDIRECTIONAL/RAMP GENERATOR	AD	2 N	N	C	95
1 OVEN CYCLE/CMRR./128DB/LOW NOISE/OFFSET VOLTAGE	A	1 N	N	C	
NEGATIVE FEEDBACK/PICKUP ELECTRODE/FRONT-END/HC	A	5 N	N	C	
INPUT CAPACITANCE OF 700PF/DETECTORS/ACCELERATORS	A	5 N	N	C	
SIMPLE/ACCURACY & STABILITY/REQUIRES NO TRIMMING	A	2 N	N	C	
GREEN LEAF/RED/LIGHT/AMPLIFICATION WITH FILTERING	A	4 N	N	C	
DSP./100KHZ/72DB DYNAMIC RANGE/CPU./PC./UP./MEMORY	AD	5 N	N	C	
OA./PREAMP./ADDITIONAL POSITIVE FEEDBACK (APF) CCT	A	4 N	N	C	
PLASMA-DISCHARGE/TOWNSEND-DISCHARGE	DA	4 N		C	
RF./HF. & VHF. RECEIVER/SHOT-NOISE CURRENT/LAMP	A	3 N	N	C	
MULTI-HIT TAC.S (MTAC'S)	A	9 N	N	C	
HARRIS/PREREGULATOR/PASS REGULATOR/NOT ISOLATED	A	1 N	N	C	10
CURRENT TRANSFORMER/TOROIDAL CORE		1		C	
BETWEEN \$58.00 & \$80.00/TEST EQUIPMENT/DISPLAY	AD	6 Y	N	C	
HIGH SPEED/FET. SWITCHES/TKO BUS/CHARGE SENSITIVE	AD	5 N	N	C	
INTERRUPT/COMMAND/DRIVE/PICOSECOND DATA	D	3 N		C	
PARTICLE SIZE MEASUREMENT/AAS./SRM'S/ICP./SEM./EAA	A	8 N	N	C	
MONOCHROMATORS/INTERFACE/MICROCOMPUTER/INTELLIGE	D	6 N	Y	C	42
BFO./TUBES/VARIABLE-PITCH OSCILLATOR/AF. AMP.	A	3 N	N	C	60
INTEGRATOR/D FF./HYSTERESIS/UP-DOWN COUNTER	AD	3 N	N	C	
		3			
MSI./GIGABIT LOGIC/ECL./CMOS./GLUE-LOGIC/COUNTERS	D	8 N	N	C	
0.01HZ TO 1MHZ/SINE, SQUARE & TRIANGULAR/AMP.	AD	1 N	N	C	
BREATHING RATES/MISSING PULSE DETECTOR/WARNING	DA	6 N	N		
CALOMEL ELECTRODE/RELAYS/ACIDS/BASES/PH/INTERFACE	A	2 N	N	C	
CHART RECORDER/TIMEBASE EXTENDER/RAMP/CLOCK/ADC.	AD	5 Y	N		
DIODE/RESISTOR PROTECT/TRANSISTORS/SPIKES/DETECTOR	A	9 N	N	C	
CURRENT PULSE BURSTS DETECTION/CERN./PARTICLE FLUX	A	7 N	N	C	61
TELEMETERED DATA/CMOS./BINARY/LATCH	D	3 N		C	42
SCANNER RECEIVER/PUBLIC-SERVICE/ANTENNA/IF./RF.	A	2 N	N	C	
PROTON ISO-CONCENTRATION TECHNIQUE (PICT)/WATER	A	5 N	N		
INSULATING MATERIALS/OSCILLATOR/DETECTOR/DISPLAY	A	4 N	N	C	
PEFORMANCE/VLF.S	A	4		C	
SIMPLE/CMRR./AC./INSTRUMENTATION/XTAL	A	3 N			
10-LED. DISPLAY/PIEZO BUZZER/2000HZ CLOCK/FAST	DA	4 N	N	C	
OSCILLATOR/AMP./KEY CLICKS/BACKWAVE/BREAK-IN	D	1 N	N	C	
LIMITER/CLAMPS/POSITION-SENSITIVE DETECTOR/TAC.	AD	6 N	N	C	E/61
RC. CCT/OA./SCINTILLATION/OXIDES/POTENTIAL CURVE	AD	4 N	N	C	28/42
MODEL CAR TRACK/SPEED CONTROL/PORT 1/LED./APPLE	DA	2 N	N	C	
SHAFT-ENCODER/PHOTO DIODES/MOTOR	D	1			
DMA. CONTROLLER		1		C	
WINDOW COMPARATOR/REFERENCE VOLTAGE/BASS/TREBLE	AD	2 N	N	C	
OPTOLOGIC/OPTICALLY COUPLED ISOLATORS	DA	1 N			
INTEL 8255 PPI./PORT/CUBIC SPLINE INTERPOLATION	D	8 N	N	C	

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MAGNETIC FIELD/COIL/REFERENCE VOLTAGE/MEASUREMENTS	AD	2	N	N	C	
PHASE SHIFT/MUTUAL INDUCTANCE/LOCK-IN AMP./MAGNET MUX./SBC. UP./DAS./CPU./ADC./IO./ROM./MACINTOSH(R)	A	4	N	N	C	39
BAND GAP ENERGY/TEMPERATURE/SPECTROSCOPIC DATA	A	6	N	N	C	
2 OSCILLATORS/DIVIDE-BY-2/SQUARE-WAVE/FF.	D	9	N	N	C	
LOW-NOISE/DISCRETE/EXCELLENT OFFSET VOLTAGE RATING	A	1	N	N	C	
PROCESSED OUTPUT/STAGES		3				
CATHETER/TRANSDUCERS/EM. VIBRATOR/SPHYGMOMANOMETER	A	6	N	N	C	E
PROGRAMMABLE INPUTS/CONVERSION CLOCK	DA	1	N		C	
DEVIATION/75US DE-EMPHASIS/PRE-EMPHASIS NETWORK	A	2	N	N	C	
HIGH SPEED/DECADE COUNTER/REGULATOR	A	3	Y			
mitsubishi/MOTOROLA/NEC/AMATEUR BAND PREAMP./GAIN	A	2	Y	N	C	
TRIGGER/ON & OFF TIMES/INDUCTIVE LOADS	A	1	N	N	C	
OSCILLOSCOPE/CRT./HF./BANDPASS FILTER/L-PAD/OA.	A	9	N	N	C	
TIME/EXPOSURE/CCT BOARDS	A	3			C	
LOUDSPEAKER/85 LITRES/+ -1DB/30-100		8				
2M AMATEUR BAND/5M/3-TUBE/TRIODES/DOUBLE M CCT/AM.	A	3	N	N		
SCHMITT TRIGGER/LAMP DRIVER/TIME DELAY/LAMP/RELAY	A	3	N	N	C	
HELMHOLTZ COILS/TEMPERATURE-SENSING/10 ⁻⁵ DEG C	A	4	N	N	C	
ELECTRODES/SOLUTION/CHEMISTRY LAB/REPLACEMENT SNAFA	A	2	N	N	C	30
HOT-CARRIER DIODES/1-EVENING KIT	A	3	Y			
DIODES FOR AMPLITUDE CONTROL/LC./RC./THD. METER	A	3	N	N	C	
mitsumi/TV./DUAL CONVERSION/FM. IF./TIMEBASE	AD	9	N	N		
VOLTAGE DIVIDER/REDUCE/LPF./LARGE TIME CONSTANT	A	8	N	N	C	
AMBIENT LIGHT/1V OF REVERSE BIAS/LIGHT LEVEL/RCA	A	1	N	N		
UNITY-GAIN BUFFER AMP.S/ACTIVE FILTERS/NOTCH	AD	6	N	N	C	
FARADAY CAGE/DYNAMIC RESPONSE, SNR. & LINEARITY	A	9	N	N	C	12/25
HARTLEY/COLPITTS OSCILLATORS/PRESCALER/RF./SL6652	A	2	N	N	C	
SUPPLY/INDEPENDENT OF BATTERY VOLTAGE	A	1	N		C	
MAGNETIC FIELD SENSOR/MEASUREMENT/OA.S/PREAMP.	AD	7	N	N	C	
DETECTORS/PHOTODIODES/PHOTOMULTIPLIER/LIGHT	A	2	N	N	C	25
4-ELECTRODE TEST CELL/TRANSVERSE/MAMMALS/CURRENT	A	5	N	N	C	
MICRO-POWER/VARIABLE DUTY-CYCLE OSCILLATOR/OA.	AD	6	N	N	C	
LOW-NOISE/DAC./UP TO 1A/FOLDBACK CURRENT LIMITING	AD	9	N	N	C	
TV./GHZ FREQUENCIES/SOUND SUBCARRIER	A	7			C	
IF./SRD.S/PLL./VCO./432MHZ/2M CONVERTER/HARMONICS	A	4	Y	N		
PARALLEL PROGRAMMABLE/PRESCALER/HF. RECEIVER LO.	DA	3	N	N		
EXPOSURE/0.1UTESLA (UT)/CRT./POWER LINES/60HZ	AD	6	Y	N	C	
VOTRAX/VOICES/MIX/PITCH/PHONEME/TALKING	DA	9	N		C	
PWM./AM./SWITCHER/SUPPLIES/MAGNETIC/TRANSFORMER	AD	7	N	N	C	
WEIN-BRIDGE/FREE-RUNNING/+ -5V TO + -35V/AUDIO	A	2	N	N	C	
EFFICIENCY/HIGH-PERFORMANCE/SOFT START/OVERCURRENT	A	5	N	N	C	E
NEUTRON TOF. SPECTROMETER/TDC./50PS/RESOLUTION	AD	2	N	N	C	
TRS-80/ANALOG DEVICES/DATA & ADDRESS/INTERFACE BUS	DA	5	N	Y	C	
SEPARATOR/PRECOMPENSATION/DISK DRIVE	D	6	N		C	
THERMAL/MEASUREMENT & CONTROL/THERMOMETER/SSR.	A	1	N	N		
KEYS/TRANSMITTER/RIPPLE COUNTER/MULRIVIBRATOR/COR	D	4	Y	N	C	
BEAM/SCINTILLATION DETECTOR/50KV/NOISE/3 ANGSTROMS	A	8	N	N	C	55
STABILITY/PROBE DRIVER-DETECTION/DAS./ION SOURCE	A	7	N	N	C	

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OA./FROG SKIN/4-ELECTRODE VOLTAGE CLAMP/LF.	A	6	N	N	C	
PS./PHOTOFLASH CAPS/MOD./SOUND/TRANSIENT RESPONSE	A	7	N	N		
RIAA EQUALIZATION/DYNAMIC RANGE/IEC/PSRR/AUDIO	A	6	Y	N		
FEEDBACK/AMP./AVOIDING THE USE OF A TRANSFORMER	A	1	N	N	C	
60KHZ FULL POWER BW./AUDIO APPLICATIONS	A	1	N	N	C	
COMPANDER IC/HF./LF. EQUALIZER/PREAMP.	A	4				
DC. ERROR/BW./BURIED-ZENER 10V/BURR-BROWN	A	1	N	N	C	
RF./BETWEEN 150KHZ & 250KHZ/SENSE-LOOP/INDUCTANCE	A	4	N	N	C	
PLL./SHF. X-BAND/20KHZ/COMB-GENERATOR/PRE-SCALAR	A	5	N	N	C	
PRESSURE BAR/TRANSDUCER/RECORDING SYSTEM/GPIB.	A	3	N	N	C	
TRANSISTOR/50MW INTO 50OHM/LOW COST	A	1	N	N	C	
SHORT-CCT PROTECTION/TRANSISTORS/CURRENT SOURCES	A	4	Y	N		
PARASITIC/STRAY INDUCTANCE/BC./RESONATOR CCT/+12V	A	1	N	N	C	
PARASITIC- & GAIN-INSENSITIVE/INVERTING/OA.S	AD	2	N	N	C	
2ND HARMONIC -55DB/Q/RESONANT CCT/STABILITY	A	3	N	N	C	
FUSION/IONS/CHARGED PARTICLES & X RAYS/PZT	A	4	N	N	C	2
THERMAL CONDUCTIVITY DETECTOR (TCD)/LICAD/OA.	AD	4	N	N	C	
SUMMED SIGNALS FOR TRIGGERING/FASTBUS/LEAD-GLASS	A	9	N	N	C	
100KHZ TO 50MHZ/SWITCHING NOISE ISOLATION/FAST	AD	5	N	N		
8-BIT INTERFACE/SPEAKER/TONE-GENERATING/XOR	DA	6	N	Y		AY
AUDIO AMP./TONE-CONTROLLED/OSCILLATOR/TUNER-DRIVER	A	9	N	N	C	
PTS/LIGHT PULSE/CELL/LENSES/SLITS/LOCK-IN AMP.	A	7	N	N	C	
DBM.S/AMPLITUDE CONTROL/QUADRI PHASE MODULATOR/RF.	AD	6	N	N	C	28/39
OA./INTERFACE LOGIC/FILTER/2-MODULUS/PLL./PLESSEY	AD	1	N	N	C	
TACHOMETER/TORQUE/ROTOR/BACK-EMF./PI REGULATOR	A	5	N	N	C	
TV. HORIZONTAL OUTPUT TRANSISTOR/300V/CATHODE/CW.	A	2	N	N	C	
SNR./MEASURE/MUSCLE'S ELECTRICAL ACTIVITY/MOVEMENT	A	5	N	N	C	
DETECTOR/COMPUTER DAS./FFT./MOLECULAR BEAM EPITAXY	A	5	N	N	C	
SIMPLE/PROBE/LIGHT/LEAVES/PHOTO CURRENT/REFLECTOR	A	9	N	N		
2M/REPEATER/TRANSMITTER/AMATEUR RADIO/RECEIVER	A	2	N	N	C	
LV. BATTERY-POWERED SYSTEMS/POWER MOSFET./PWM.	AD	1	N	N	C	
ADC.S/TAC./CFD./IMAGING X-RAY DETECTORS/POSITION	A	4	N	N	C	
CAE./CAD./AUTOMATIC PLACEMENT & ROUTING/TOOLS	D	8	Y	N	C	
MICROPHONES/ON-STAGE SOUND/MICRO POWER SENSOR	A	3	N	N		
LINEAR-GAIN STAGE/LOW DC. OFFSET/LEVELS	AD	5	N		C	
FIC=16384HZ/CHEAP/ACCURATE/RAIN GAUGE	DA	2	N		C	
NICAM/BUFFERING/MATCHING/INPUT IMPEDANCE	A	1	N	N	C	
BATTERY/PHYSICS/MERCURY/CELL/MEASURE/REPLACEMENT	A	1	N	N		E
VOLTAGE VARIATIONS/PRECISION RECTIFIER/TROUGHS	A	1	N	N	C	E
16-BIT/PROCESSOR/ALGORITHM/SLICES/CAMERA/ROM./RAM.	D	4	N	N	C	
DYNODE CHAIN/DATA ACQUISITION/ANALYSIS	DA	6	N		C	
PHONO PREAMP./RIAA/CAPACITORS/PROTECTION DIODES	A	8	N	N		
INSTANTANEOUS READINGS/DOORS/WINDOW		3				
ANTENNA/RF./0.2 TO 18M-S/TRIGGER/SCHOTTKY DIODE	AD	2	Y	N		3
SET POINT VOLTAGE/ACTIVATED TO CUT OFF THE PS.	A	2	N	N	C	
LONG/6.5KHZ/VOLTAGE/SWITCHING CURRENT SOURCES	AD	1	N	N	C	
HEXFET./RF./BFO./INDUCTOR-TUNED/AMPLIFY/DETECT	A	5	N	N	C	
50KHZ/FREEWHEELING DIODE/INDUCTOR/LOAD CURRENT	A	7	N	N	C	
LED./DUPLEXER/BEEPER/DIRECTIONAL COUPLER/PROBE	DA	4	N	N	C	

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SINGLE-TUNED LC./TWIN-TEE FILTER/60KHZ/AGC./LINK	AD	5	N	N	C	61
SNOOPER/QUAD-OA./STEREO EARPHONES/REFLECTORS	A	3	N	N	C	
DAC./SH./SUMMING/50UV/LOW-DRIFT/CURRENT	A	2	N	N	C	
HIGH SENSITIVITY/NOISE IMMUNITY/DISPLAY	A	3	N		C	
TIN/DIPOLE/MONOPOLE DETECTION/IRRADIATION/METALS	A	6	N	N	C	12
TEMPERATURE/10000-20000/SIGNAL CONDITIONING/ARTERY	A	8	N	N	C	AK
BLOOD PRESSURE/FREQUENCY RESPONSE/RC.	A	4	N		C	
ADC./ADALAB INTERFACE/SPDT. SWITCH/2V REFERENCE	AD	2	N	N	C	
DC. BIASING CURRENT/INVERTING CCT/CLASS AB CCTS	A	3	N	N	C	
CMRR./OA./EXPERIMENTAL & SIMULATION/MICRO-CAP	A	5	N	N	C	
COMMUNICATION LINK/INDOOR/REMOTE CONTROL/FCC/IR.	A	4	N	N		
LED./SIMPLE/ANY BAND/RECEIVER/TRANSMITTER/METER	A	3	Y	N	C	3
FORTRAN/MS-DOS./NEGATIVE-RESISTANCE MODEL/TUNING	A	5	N	N	C	
FM. DEMODULATOR IC/CRYSTAL OSCILLATOR	A	2	Y			
GERMANIUM TRANSISTOR/MORSE CODE/ANTENNA/BATTERY	A	3	N	N	C	
UJT./55-108MHZ/HORIZONTAL BARS/VERTICAL-LINEARITY	A	1	N	N	C	
TRANSISTOR/COUPLER SHAFT/CRYSTAL SOCKET/432MHZ	A	2	N	N	C	
RF./COUPLING/RG-174-U MINI COAX/RESPONSE/FREQUENCY	A	1	N	N	C	
EASY-TO-BUILD/FERRITE TOROID COIL	A	3				
OUTPUT STAGE WITH A GAIN OF 10/OUTPUT CURRENT/45MA	A	1	N	N	C	
FREQUENCY DISPLAY/RECEIVER		1				
SENSOR/OA./GERMANIUM DIODES/AC. MILLIVOLTMETER	A	4	N	N		
FASTER RESPONSE/PMT.	AD	5	N		C	
TRANSFORM/HIGH IMPEDANCE/LOW/FOLLOWER	A	1	N		C	
COMMON EMITTER/ELECTRET MICROPHONE/PTT./RF. CHOKES	A	2	Y	N	C	
WINDINGS/COILS (INDUCTORS)/REGENERATION/4 TO/30MHZ	A	2	N	N		
TUNING COILS/PORTABLE/RF./HF./TRANSMISSION LINE	A	2	N	N	C	
HIGH CMR./1-POLE & 2-POLE/SIMULATION/BW./RESISTOR	A	5	N	N	C	
LINE SAMPLER/REFLECTED POWER/PICKUP LOOP	A	3				
BW./FILTER/720 TO 1420MHZ IN 20MHZ STEPS	AD	6	N	N	C	
CATHODE/ANODE/DYNODE/PTFE./DRIFT TUBE/TDC./TRIGGER	A	9	N	N	C	
PREAMP./POTTED/EPOXY RESIN/THD./AUDIO/THERMAL	A	9	N	N		
BREAKPOINT/GAUGE/TRIP/DRIVE/DC. CONDITIONER	AD	4	N	N	C	
SIMPLE/INEXPENSIVE/HF./BNC/RF./PCB./DPDT. SWITCH	DA	3	N	N	C	
ALIGNING/HIGH BANDS/VARACTOR DIODE/SWR.	A	6	Y			
DC. COUPLED/750KHZ/35A RMS. AT 100KHZ/PARALLELED	A	6	N	N	C	
PHASE SHIFT/FREQUENCIES/RESISTORS/BW./STAGE/AM.	A	8	N	N	C	
OUTPUT SOURCE IMPEDANCE/STRAY CAPACITANCE/DA	A	5	N	N	C	
FEEDFORWARD PATH/BW./GAIN/CMR./SUPERPOSITION	A	6	N	N	C	
DC. PS./LOW-NOISE OA./TEMPERATURE STABILIZED OVEN	A	6	N	N	C	
LIMIT IN-RUSH CURRENT/REMOVE/LOAD/ON-RESISTANCE	A	2	N	N	C	
RF./COMPUTERS/PHASE NOISE/FILTERS/GUI/DESIGN TOOL	A	4	N	N		
1 PCB.		3				
CORE/OFF-LINE/SWITCHING-MODE/CONTROLLER	A	5	N		C	
SCAN AMP.S/CMOS. ANALOGUE SWITCHES/SEBA	A	5	N	N	C	
OA./MACRO/COMPTER CCT ANALYSIS PROGRAM/PC./MC3	A	5	N	N	C	26
AM., FM. & SSB./CW./NBFM./AMATEUR RADIO/OSCILLATOR	A	5	Y	N	C	45
ADJUSTING ANTENNAS/49TH HARMONIC/TEST EQUIPMENT	AD	4	N	N		
EXPANSION SLOT/1MHZ CLOCK GENERATOR/6 DIVIDE-BY-10	D	1	N	N	C	

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3.5 DIGIT ADC./CONTROL LOGIC/CMOS./LCD.	AD	3 N	C	
SENSOR/316MHZ/CASCADE CONFIGURATION/TANK CCT	A	5 N	N C	
LOW PS. CURRENTS/LOW-SUPPLY-VOLTAGE	A	1 N	N C	
PUT/RELAXATION OSCILLATOR/AC. OPTOCOUPLER	A	2 N	N C	
CHARGE-PUMP/OPTICALLY COUPLED FET.	A	7 N	C	
TEMPERATURE TRANSDUCERS/OA.S/COLD JUNCTION/SEEBECK	AD	9 N	N C	
VIRTUAL GROUND/POTENTIOMETER/COMMON-MODE SIGNAL	A	1 N	N C	
CLOCK/GENERATOR/LEVEL-SHIFTING/CLAMP	D	7 N	C	
CONDITIONING/RH. TRANSDUCER/LVDT.	AD	9 N	N C	
CHOPPER-STABILIZED/LOW DRIFT/OFFSET VOLTAGE/OA.	AD	9 N	N C	
OPTICAL OZONESONDE/ROCOZ-A/PCM. TELEMETRY/LIGHT	AD	8 N	N C	
		2	C	
CLOCK/PHASE DELAY/DRIFT CHAMBER/RMS./CABLE/LATCHES	D	4 N	N C	
SENSOR/LPF./BUTTERWORTH/GATE	DA	5 N	C	
EPR./RATIOMETER/CAPACITANCE/PRESSURE/MICROWAVE/GAS	AD	3 N	N C	5
BEAM OF LIGHT/LDR.S	AD	4 N	C	
HEATING FILAMENT/PIPETTES/PATCH CLAMP	DA	9 N	C	
RAM./ROM./IO. PORT-TIMER/IBM PC./CLOCK GENERATOR	D	8 N	N	
8-BIT BINARY INPUT/MAGNITUDE COMPARATORS	D	2 N	C	
AUDIO		3		
BCD./IONIZATION/BOXCAR SIGNAL AVERAGER	D	9 N	C	42
PROBABILITY DENSITY FUNCTION (PDF)/PSEUDO-NOISE	DA	5 N	N C	
CEILING FAN/LIGHTING/LOGIC-CCT/FF./NAND GATE	DA	6 N	N	
FUNCTION GENERATOR/OA./ELECTRODES/8-CHANNEL/AMP.	AD	3 N	N C	E/39
TTL./NEGATIVE/LOADS/FAN-OUT/TEST/PROBE	D	2 N	C	
LIGHT BEAM/PHOTODETECTOR/LOGARITHMIC AMP./VCVF	DA	5 N	N C	
OPERATIONAL/SIMPLIFIED PROGRAMMING		4		
PWM./INTEL/CMOS./PID./POSITION TRACKING/SPEED/UP.S	D	4 N	Y C	
HIGH-ACCURACY/CMOS./4098B/4047B/TIMER/1.1 TO 100S	DA	5 N	N C	
MULTIVIBRATOR/TEMPERATURE-TO-FREQUENCY/LINEAR/NTC.	AD	4 N	N C	
PLL./PC./IBM-AT/ADC.S/THYRISTORS/3-PHASE/PID.	DA	9 N	N C	8/39
INTEL/CPU./PC./INTERFACE/MS-DOS.-TYPE OS./SRAM.	D	1 N	N C	57
DAC./ISOLATION AMP./EYE MOVEMENT STIMULUS/LED.S	AD	5 N	N C	39
RATIO OF 2 CURRENTS/PHOTOCURRENTS/10 ⁻⁶ TO 10 ⁻¹² A	A	4 N	N C	
VOLTAGE-CONTROLLED/MUSIC SYNTHESIZER	A	4 N	C	
FREQUENCY/Q/TUNED INDEPENDENTLY		1	C	
VLSI./20.00MV/20.00V/HIGH-IMPEDANCE/DVM.	AD	6 Y		
CLOCK/TTL./COMPARATORS/PULSES	AD	3		
LATCH/THYRISTOR/LOW PITCH NOISE	A	1		
PROGRAMMABLE/BUFFER-ADAPTOR/BUS/SOCKET	D	5 N	C	
POWER/SPEED CONTROLLER/DRILLS/ELECTRIC BLANKETS	A	3 Y	N C	
INTENSITY/DYE/ADC./LED./ANALOGUE PORT/BBC/WATER	AD	6 N	N C	25
200MHZ CLOCK/CMOS./TTL.-TO-ECL. LEVEL CHANGERS	D	2 N	N C	
URANIUM-DETECTION/PHOTOTUBE/PMT./CHEMISTRY/ION	A	4 N	N C	
I TO V CONVERTER/DIFFERENTIATOR/ELECTRODE AMP.	AD	7 N	N C	
MEASUREMENT WITHIN 2 CYCLES/ADC./TIME DIFFERENCE	AD	6 N	N C	
NOISY ENVIRONMENT/CONTROL BOXES	A	6 Y	N	
LED.S/TESTER/TRS-80 COLOR COMPUTER/SRAM./DRAM.	D	6 N	Y	3
RF./4-DIGIT MUX./DISPLAY LED./CONVERSION/RADIOS	DA	5 N	N	

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~\$15/TTL./INTEL/SELF-STROBING, 8-BIT DATA LATCH	DA	3 N	Y	C
CURRENT TO VOLTAGE/PHOTODIODE/COUNTER	AD	4 N		C
SECURITY/COMPARATOR WITH HYSTERESIS	AD	1 N		C
BUGS/SECONDARY ELECTRONS/MOVIE CAMERA/SPUTTERING	D	3 N	N	C
HIGH-LEVEL/\$300/KIT/VOLUME CONTROL/HIGH-QUALITY	A	3 N	N	
2708, 2716 & 2532/8080 PROCESSOR/3 8-BIT PORTS	D	4 N	N	C
HIGH IMPEDANCE TRANSDUCERS/SERIAL	AD	9 N		C 42
CURRENT LIMITING PROTECTION/AMP./DIVIDER/REFERENCE	A	2 N	N	42
ULTRASONIC ECHOES/APPLE II/HF./NDT/IO./CONTROL	DA	5 N	N	C
DETECTION/FET. OA./HV. PS./QUARTZ PMT./LAMP	A	4 N	N	C 39
SECURITY		2		C
40MFLOPS/100MIPS/CAD./ECL. 10KH IO./TTL.	D	5 N		C
NATURAL PROCESSING		2		C
CUMULATIVE/SWITCHING/VOLTAGE-CURRENT CONVERTER/V-CAD		2 N	N	C
SEMI-LOG GRAPH PAPER/AD534/DIVISION	A	6 N		
RAMP/WAVEFORM/SWITCHING/FEEDBACK SIGNAL	DA	8 N		C
SOFTWARE/HARDWARE/AND, NAND, & OR/VLSI./UP.S	D	6 N	N	C
RECORDING SYSTEM/OSCILLOSCOPE/FILM/MUX./VELOCITY	AD	9 N	N	C E
TTL./SPEAKER/TRANSFORMER/PUSH-PULL OUTPUT	DA	1 N	N	
ADC./ATR/AUTOMATIC/TIME INTERVALS/TRANSDUCER	AD	6 N	N	C
UP. DEVELOPMENT/DOCUMENT/BANDPASS FILTER/LAYOUTS	D	7 N	N	C
1HZ CLOCK/START-STOP & RESET/CYCLES TO 0 AFTER 60S	D	4 N	N	C
RF./10KHZ INCREMENTS/40 CHANNELS/BCD.-TO-BINARY	DA	2 N	N	C E
INTEGRAL MULTIPLE/COUNTER/PULSE/LOW-COST	D	2 N		C
HIGH-SPEED VOLTAGE COMPARATOR/EXCITATION/AMP./DVM.	A	3 N	N	C
GATES/KARNAUGH MAPS/LOGIC/TRUTH TABLES	D	8 N		C
DWELL/RPM./VOLTAGE/CAR/BOAT/CYCLE	DA	6		
DIP. SWITCH/SAME/LED./CHANNELS/LOGIC	D	2 Y		
LED./LOGIC INPUT PATTERN/SWITCH/CHANNEL	D	3 Y		
PHOTO TRANSISTOR/PULSES/BLOCKING/PATH	DA	1 N		
LED./DEFLECTION/VISCOMETER/FILM MASK	DA	3 N		C
		1		
EXCLUSIVE-OR PARITY GENERATOR		4		
NODES		1		
ILLUMINATED/DARK RESISTANCE/OSCILLATOR/SQUARE WAVE	A	1 N	N	
PERIOD/DECADE/PROGRAMMABLE COUNTER/LATCH & DECODED	DA	4 N	N	C
8-BIT RESOLUTION/ADDRESS-DECODE/DATA/ENABLES	D	1 N	N	C
PROCESSING/SPECTRUM ANALYZER/MEMORY/COMPARATOR	D	2 N	N	C
KEYPAD/LED./1-SHOT/BCD.-TO-DECIMAL DECODER-DRIVER	DA	2 N	N	C
FEEDBACK/TWIN OR PARALLEL-T RC. NULL NETWORK/MOD.	A	3 N	N	C 39
FF./BOOLEAN EXPRESSIONS/ALGEBRA/TRUTH TABLES	D	3 N	N	C
VIC II (6567)/INTERFACING/SCREEN DISPLAY/SENSITIVE	DA	2 N	N	C 46
COINCIDENCE CCTS/DEADTIME/CRYSTAL-CONTROLLED CLOCK	DA	9 N	N	C 61
REVERSIBLE/SHIFT REGISTERS/FF./1MHZ/OSCILLATOR	DA	7 N	N	C 61
HIGH INTENSITY SHORT OPTICAL PULSES/>5A/SHAPING	DA	6 N	N	C
OA./500-2700DEG C/PHOTODIODE ARRAY SPECTROMETER	A	5 N	N	C 39
NMR./JK FF.S/6-BIT COUNTER/COMPARATOR/1-SHOT/<\$250	D	7 N	N	C 28
AF./SINE-WAVE OUTPUT/VERY LOW DISTORTION/VCO./LED.	DA	5 Y	N	
TAPE RECORDERS/POSITION/UP-DOWN COUNTER/DISPLAY	DA	1 N	N	

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RETRIGGERABLE OR NON-RETRIGGERABLE/UP-DOWN COUNTED		1	N	N	E
DIODE-RESISTOR NETWORK	A	1			C
LIGHT SCATTERING/FLUORESCENCE	AD	5			C
160M/STRONG FRONT END		4			
LOW-POWER LINE-OPERATED/AUTOMATIC/MUSICAL NOTES	DA	4	N	N	
PRECISE MEASUREMENTS/SMALL/CHANGES/RESOLUTION	D	4	N	N	C
MEMORY/DIGITIZING/COMPANDING ADC./MUX.S/COUNTERS	D	2	N	N	C
DEVELOPER/LED.S/NEGATIVE/ENLARGER/TIME/TEMPERATURE	A	4	Y	N	C
DRIVER CCT/GCI/MEASUREMENTS/TTL. IC'S/10 CHANNELS	DA	2	N	N	C
ALUMINUM FOIL/LIGHTNING/IGNITION COIL/ELECTRICITY	A	4	N	N	C
~\$50/RESPONSE-TO-FREQUENCY CONVERTER/OA.S/MCA.	AD	4	N	N	C 25
ENABLE & DATA STROBES/LATCHES/LOGIC/SEQUENCER	D	4	N	N	C
RELAYS/SCHMITT-TRIGGER/INTEGRATOR/GATE/FF./CW.	DA	3	Y	N	C
SPEED-SELECTION CCT/EXPOSURE/LED./PHOTOGRAPHIC	DA	7	Y	N	C
PUSHBUTTON SWITCH/LED.S/MODERATOR'S QUESTIONS	DA	5	Y	N	C
SWITCHING TO A BATTERY-BACKUP/MICROWATTS/DRIVERS	D	5	N	N	C
STEPPER MOTOR DRIVE/SPEED/BCD. THUMB SWITCHES/IO.	DA	9	N	Y	C
HIGH, LOW OR PULSED/1MHZ/LOGIC 0/TTL. LEVELS	DA	7	Y	N	
OSCILLATION/OA./RING COUNTER/AIM-65	A	6	N		C
CADD/IBM PC./PCB./CAD./DRAWING/AUTOCAD	D	8	N		
INTERFACE/LSI.-11/PASCAL/TRI-STATE GATES	D	7	N	N	C
50HZ MAINS INTERFERENCE/HV.S/BODY/OA.S/CHEST	A	2	N	N	C
PULSE FORMER/ALIGN/HIGH-SPEED CMOS./FF.	D	5	N	N	
DIGITAL STOP WATCH/CART/ACCELERATION/ELEVATED	D	4	N	N	C
12-BIT/ON-CHIP OSCILLATOR/PROGRAMMABLE/ACCURACY	DA	2	N	N	C
PRESET LIMITS/RANGES/MC4044 PHASE COMPARATOR	D	1	N	N	C 46
BASELINE RESTORER/ZERO-POLE CANCELLATION/PREAMP.	AD	4	N	N	C 61
HOLLOW CATHODE LAMP (HCL)/FFT./COMPUTER/ETA-AAS.	DA	9	N	N	C 42
FF./BUFFERS/MEMR OR MEMW SIGNALS/CONFIGURES/SIMPLE	D	1	N	N	C
OPTICAL TDR. (OTDR)/MOSFET.S/MOS. DRIVER/FF.	DA	3	N	N	C
RANDOM COUNT/DAYLIGHT/DARKNESS FALLS/RESETS	DA	1	N	N	C
PULSE/RESOLUTION IS 1S/EVENTS/MOS./MM5311/DISPLAY	D	2	N	N	C
HIGH-SPEED ROTATION/ROTORS/2.11X10 ⁵ REV-S/SPIN	AD	6	N	N	C E
DAMPING/OA./ADC./BBC MICROCOMPUTER	AD	4	N		C
CABLE DISCONTINUITY/TDR./ANALOG DRIVE CCT/CEPSTRUM	DA	7	N	N	C
COUNTER/LED./DAHS/DOT/RACE PROBLEM	D	1	N		
MONOSTABLES/OA./PULSE LENGTH, SAMPLE DELAY	DA	3	N	N	C
4-TO-16 LINE DECODER/OSCILLATOR/COUNTER/DISPLAY	DA	1	N	N	C
BAUDOT/PROGRAM SUBROUTINES/SOFTWARE	D	4	N	Y	
IBM PC./SPECTROPHOTOMETER/SOFTWARE/SPECIATION	DA	9	N	N	C E/42
PULSE GENERATOR/ZCD.S/FF.S	DA	5	N	N	C
PORT/VOCABULARY/SPEAKER/Z80/PROGRAM	DA	4	N		C
ABSOLUTE-VALUE CCT/DEADBAND/PVT	DA	4	N		C
LOGIC/CHARACTERS/11 IC/TTL.-BASED/SHIFT REGISTERS	DA	3	Y	N	
PROGRAMMABLE/7-SEGMENT/LOGIC SWITCH/VCO./CB./10M	D	4	N	N	
REMOTELY-CONTROLLED/DIGIT KEYS/KEYBOARD SWITCHES	DA	2	N	N	
TWISTED PAIR WIRES/CABLE/MUSIC/SHIFT REGISTER	DA	6	N	N	C
LINE REGULATION/2%/DIODE/LOW-POWER SCHOTTKY	AD	1	N	N	C E
CLOCK/FF./555 TIMER/N-BIT COUNTER/74LS161	DA	2	N	N	C

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CURRENT TESTING/PHOTO SWITCH		2				
HEATING PULSE/CONSTANT-CURRENT/DROPS/ANEMOMETER	AD	8 N	N	C	E	
RECURSIVE/24-BIT/RC./VISCOSIMETER/TIMEBASE/0.5-50HZ	DA	5 N	N	C		
OUTPUT CURRENTS UP TO +-600MA/TELEDYNE PHILBRICK	A	1 N	N	C		10
ULTRA-FAST COMPARATOR/50HZ, PAL/COUNTER/LIGHT	DA	4 N	N	C		
HIGH-POWER RF. PULSES/LED./AMP./PROBE/SPECTROMETER	DA	5 N	N	C	E	
KEY DEBOUNCING/ELIMINATES ERRORS/TESTS/STROBES	D	2 N	N	C		
PIO. HANDSHAKE/Z80A UP./CMOS. REGISTERS/NASCOM 2	D	4 N	N	C		
STATE CHECKER/HIGH/LOW LOGIC LEVEL/INDICATOR/AF.	DA	2 N	N	C		
FAST PHOTODIODE/LED./MOTOR/VOLTMETER	A	5 N		C		
TRANSMISSION/DETECTED ECHO/ORCHARD/TRANSDUCERS	D	9 N	N	C		
FET. OA./<\$50/FILTER/TAPE DECK/ACOUSTICS	A	4 N	N	C		60
CAPACITORS/100PF TO 1000UF/TESTER	DA	4				
DFM/5-DECADE COUNTER/DISPLAY	DA	1				
ANALYZER/HP-5004A/DATA STREAMS/BINARY	D	5 N		C		
		1				
MOTORCYCLES		2		C		
REFERENCE FREQUENCY/3-DIGIT DISPLAY/TIME CONSTANT	DA	3 N	N			
TIMER/"GARBAGE"/EASY-TO-BUILD/2M/SELECTIVITY	DA	3 N	N			
OVERCOMES/ON-OFF CYCLING/CADMIUM SULFIDE/DELAY	A	3 Y	N	C		
ECL./GAUSSMETER/SYNCHRONOUS BINARY RATE MULTIPLIER	DA	2 N	N	C		
OPTOCOUPLER/TRIAC-DRIVER/OA./HEADLIGHTS/LDR./LED.	A	3 N	N	C		
ENERGY/EXCLUSIVE OR GATES/FILTERING/TRIGGERING	DA	4 N	N			
TRIGGER/1-SHOTS/AND GATE/CLEAN UP/SPURIOUS NOISE	DA	1 N	N	C		
CUT-OFF FREQUENCY OF 4HZ/OA.S/GAIN OF X25/ADC.	A	3 N	N	C		
FILTER/SAMPLE/SCHMITT TRIGGERS/FF./BATTERIES	D	4 N	N	C		
10000V/RECTIFIER DIODE/TRANSISTOR/AIR/BREATHE	A	3 N	N	C		
LED./PWM. SWITCHING/ZN1066/BATTERY POWER	A	2 N		C		
STRINGS OF LAMPS/INTERFACES/DISPLAY/ILLUMINATE	AD	4 Y	N	C		
ADDRESSED SEQUENTIALLY/FLASHING/BCD./BLINK/RANDOM	DA	2 N	N	C		
RC./HALF MONOSTABLES/INVERTING GATE/TRANSISTOR	AD	1 N	N	C		46
PWM. SWITCHING CCT/LV./<36V/ZN1066/OSCILLATOR	A	2 N	N	C		
MEASUREMENT/SOIL MOISTURE/FRUIT/CMOS./LINEARITY	AD	1 N	N			
3DB DROP/80KHZ/BW./'PUSH-PULL BOOSTER'/LARGE LOAD	A	2 N	N	C		
PLL./MEMORY CHANNEL SELECT/SCAN/VFO.	DA	3				
OCTAVE/LED.S/CONDENSER MIKE/MICROPHONE/OSCILLATOR	AD	4 N	N			
OSCILLATOR-TIMER/D-TYPE FF./BILATERAL SWITCH	DA	3 N	N	C		
LINE DRIVER/CLOCK START-STOP LOGIC/LED.	DA	3 N		C		
HALL PROBE/FIELD-CONTROLLED MAGNET SYSTEM/ISOTOPES	AD	9 N	N	C		91/92
RETRIGGERABLE MONOSTABLES/FF.	D	1				
DISPLAY/DMM./CMOS. INVERTER/DVM./CRYSTAL	DA	3 N		C		42
OA./DATA COLLECTION/LAMP/GALVANOMETER/X-Y RECORDER	A	6 N	N	C		
TTL.-COMPATIBLE/CURRENT-TO-VOLTAGE CONVERTER	AD	4 N	N			
FF./MOTOR & SWITCHING TRANSISTORS/ARTIFICIAL ARM	AD	7 N	N	C		4/42
DIVER/PRESSURE SENSORS/DIVIDER/WATER	AD	3 N		C		
SIZE OF A POSTAGE STAMP/DIODE/LV. OPERATION	A	1 Y	N			
MEMORY/"GRUNGE BOX"/THD./EVALUATING/AUDIO/A-B TEST	DA	9 N	N	C		
CLEANING UP WEAK & NOISY AUDIO OR MORSE-CODE/AF.	A	3 N	N	C		
ADC./ECL./DTD'S/DIGITAL-TO-TIME CONVERTERS/LSI.	DA	8 N	N	C		

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1GHZ/FASTER/SIMPLER/FREQUENCY STABILISATION/VCO.	AD	2 N	N	C	
UP TO 8 ROM.S/BINARY COUNTER/FF./DATA/PC.	AD	5 Y	N		
MONTE CARLO BEAM OPTIMIZATION/FEEDBACK/TEMPERATURE	EA	3 N	N	C	E
500W/CURRENT METER/COOLING FAN/RF. POWER METER	A	4 N	N	C	
COUNTER/DAC./LOUDSPEAKER AMP./CLOCK/SWITCHES/DATA	DA	1 N	N	C	
MOBILE/BRIDGE RECTIFIER/TRANSCEIVERS	A	3 N			
RAM./EPROM./ECG./CMOS./ACTIVITY MONITORING/SKIN	DA	7 N	N	C	
CAR ELECTRICAL SYSTEM/RADIO	A	1 N			
REGULATOR/+5V/BRIDGE RECTIFIER/RAM.	A	2 N			
XICOR/VCVS/GAIN OF 35/3DB PASSBAND RIPPLE/ACTIVE	AD	5 N	N	C	
MICROCOMPUTER/DATA/RECORDER-TRANSMITTER/1200 BAUD	AD	5 N	N	C	
KEYBOARD/RAM./EPROM./DAC./ADDER	DA	7 N			
CMOS. RAM./ADD-ON/IO. OS./EPROM./CPU./Z80A/LED.S	DA	5 Y	N		
SUPERCONDUCTING MAGNET/HP-IB BUS/+5A/+10V/HEATER	DA	5 N	N	C	
RAM./ROM./QRS COMPLEX/RHYTHM STUDIES/CORONARY CARE	DA	6 N	N	C	
VOLTAGE/CMOS.	A	2 N			
ZIF.-SOCKET/AUTOMATIC SELECTION/DUT./TTL./CMOS.	D	5 N	Y	C	
CAPACITORS/25A DIODES OR BRIDGE RECTIFIER/MOD.	A	2 N	N	C	
LCC/PIN-OUTS OF ALL DEVICES/UV.	D	9			
HAND-HELD FM. TRANSCEIVER/0.75M BAND/ANTENNA	A	3 N	N	C	
7900/PROTECTION/ERROR AMP./TO-220	A	3 N			
CROSS-CORRELATION/DETECTION OF SIGNALS IN NOISE	AD	6 N	Y	C	
PITCH/UP./ADC./DAC./SH./VHF. VCO./ACIA.	AD	5 N	N		
RF. CHOKE/RFI./OUTPUT-CURRENT RATING/1.5A	A	3 N	N	C	
SERIAL COMMS/RAM./ROM./CCITT./FRAME/LINE DRIVE CCT	DA	3 N	Y		
FLOPPY-DISK CONTROLLER/DATA TRANSFERS	D	6 N		C	
PAL./DIGITIZER/FIFO./PRETRIGGER TRANSIENT CAPTURE	AD	8 N	N		
CONTRADICTIONARY/PULSES/COUNT/CLOCK/SYNC	D	2 N		C	
SIMPLE ADDITIONS/VERSATILE CONTROL		3			
COMPUTER/RS232/FOURIER COMPONENTS/LOCK-IN AMP.	DA	4 N	N	C	
SH. CCT/LOCK-IN AMP./TEMPERATURE/PULSE	AD	3 N	N	C	
EXTENDING BATTERY LIFE/OA./LOW-LOSS SWITCHING	AD	2 N	N	C	
500KHZ/POLE FREQUENCIES ARE HIGHLY PREDICTABLE	AD	3 N	N	C	
12BIT ADC./OA.S/COMPARATORS/PLL./SWITCHES/WATCHDOG	DA	5 N	N		93
CURRENT-OUTPUT/CMOS./RANGE OF 1-64 TO 64/CODE	AD	2 N	N	C	
STORED ENERGY OF 6.2J/TEA CO ₂ LASER/TRIGGER/HV.	A	7 N	N	C	
LATCH/UP./INSTRUCTION/DEVELOPMENT SYSTEM/PARALLEL	D	4 N	Y		
LED.S/AUTOMOBILE ENGINES/MEASUREMENT	AD	4 Y		C	
MAGNETISING COILS/PHASE-SHIFTING NETWORK	A	5 N		C	
TTL./LED./MEASURING TERMINALS/BATTERY	AD	1 N		C	
COMPARATOR/2ND ORDER BUTTERWORTH FILTER/DIODE	A	6 N	N	C	
MONOSTABLE MULTIVIBRATORS/BINARY COUNTER/MOSFET.	AD	4 Y	N		
OSCILLATOR-TIMER/ASTABLE MULTIVIBRATOR/VCO.S/OA.	AD	4 N	N	C	
SERIES/TRANSMITTER & RECEIVER/COIL/SAMPLE PROBE	A	2 N	N	C	
CURRENT COMMUTATOR/MAGNETOMETER/LOCK-IN AMP./LOOFA	FA	7 N	N	C	
OTA./GAIN CONTROL/LOW NOISE, WIDE BW./POLE-ZERO	A	9 N	N	C	61
INTERFACING/MINI-MICROCOMPUTER/UP.-BASED SYSTEMS	AD	2 N	N		
AMPUTEES/SYNERGY/ZERO CROSSINGS/HUMERAL/HAND/ELBOA	CA	9 N	N	C	39
MICROPROGRAM/RAM./AUDIO/MICROCOMPUTER INTERFACE	AD	9 N	Y	C	

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DC. OFFSET/OSCILLATOR-TIMER/SPECTRUM ANALYZER	AD	3 N	N	C	
WILSON CURRENT MIRROR/RESISTOR RATIO/DEAD BAND	AD	2 N	N	C	
ZENER VOLTAGE REFERENCE/IBM PC./CENTRONICS/ADC.	DA	6 N	Y	C	
VACUUM-PRESSURE SENSOR/GAS TANK/AUTOMOBILE/ADC.	AD	8 N	N	C	
HCCP/ASS/LOW-RESISTIVITY/BEAM/LARGE-AREA/PARTICLES	A	4 N	N	C	
LPF./SCHOTTKY BARRIER DIODE DETECTORS/MICHELSON	AD	5 N	N	C	
ACCURATE/SCHMITT TRIGGER/LAMP/PS./IGNITION/STATOR	A	1 N	N		
FEEDBACK ELEMENT/3MOHM-500OHM/SATURATION CURRENT	A	5 N	N	C	
NOR GATES/STEP-UP CONVERTER/CONTROL-DISPLAY UNIT	AD	2 N	N	C	
0.25HZ STEPS/NOTCH/BANDPASS/LOW-PASS	AD	5 N		C	
AMP.S/RING CONFIGURATION/FREQUENCY OF OSCILLATION	AD	1 N	N	C	
1-SHOT/COMPARATOR/COMPUTER/RCA DIODES 174 & 301	AD	6 N	N	C	
TRANSIENTS/OVERVOLTAGES/LOSS OF SUPPLY/THERMISTORSA		1 N	N		10
PHOTOCELLS/PHOTODIODES/PHOTOTRANSISTORS/LDR.S	AD	9 N	N	C	
COMMUNICATIONS/TIME TO VOLTAGE CONVERTER	AD	7 N		C	
DATA ACQUISITION/CODEC/16BIT DAC./16-BIT ADC.S	DA	8 N	Y	C	
NMR./TRANSMITTER/PULSE GENERATOR/COIL/RF.	A	5 N		C	
RF./10-600MHZ/PIN DIODES/DELAY LINE/COIL/DBM.	AD	7 N	N		12
COMPUTER-CONTROLLED/HIGH-SPEED/RETRIEVAL	DA	9 N		C	42
FOLDBACK/PROTECTION AGAINST/OUTPUT SHORT TO GROUND	A	5 N	N	C	
FREQUENCY CONTROL/X-Y RECORDER/2-MIRROR/RASTER	AD	5 N	N	C	
AMTOR/THYRISTOR/INTEGRATOR/COMPARATORS/TIME BASE	AD	8 Y	N		
HV. PS./TRIANGLE-WAVE GENERATOR/FLYBACK	AD	2 N	N	C	
CYBERNETIC POTENTIOSTAT/PARALLEL IO. INTERFACE	AD	7 N	N	C	
IA./HV. OA.S/ANALOG DIVIDER/SUMMING AMP./LIGHT	A	9 N	N	C	
FOR SWITCHED-CAPACITOR FILTERS/INVERTER/STROBE	DA	2 N	N	C	
INVERTERS IN PARALLEL/INDUCTOR/CONVERSION/FLYBACK	AD	1 N	N	C	E
DIFFERENCING & MULTIPLICATION/ARRAY/FAST/REAL-TIME	A	6 N	N	C	
LOUDSPEAKER/GAIN/AUDIO/CHECKS/FAULT/INEXPENSIVE	A	6 Y	N		
COMPOSITE AMP.S/BALANCED (PUSH-PULL)/DEFOCUSING	A	6 N	N	C	
EXCITATION VOLTAGE/CHERRY/TREE TRUNK/HARVESTING	A	5 N	N	C	
POTENTIOSTAT/FLOW INJECTION ANALYSIS (FIA)/CELL	DA	9 N	N	C	
MPU./STORAGE/TIMING/BUS ARBITRATION/WAIT STATE	A	4 N	N	C	
REMOTE CONTROL/REED RELAY/CRITICALLY DAMPED/PS.	A	2 Y	N		AJ
3RD-ORDER, LOW-PASS ANTI-IMAGING FILTERS	AD	2 N	N	C	
58DB GAIN/350KHZ BW./WEAK ONES/NOISE/FILTER	A	1 Y	N		
LED. DISPLAY/COMPACT/SIMPLE/OSCILLATOR	AD	5 Y			
		2		C	
DAC./AMATEUR OR WEATHER/FULLY-AUTOMATIC/COMMODOREDA		4 N	N	C	
TEMPERATURE TRANSDUCER/ISE'S/PREAMP.S/PH/INTERFACE	DA	9 N	Y	C	
EASILY ADAPTABLE		3		C	
LINEAR EQUATION/LCD./UP. INTERFACE	AD	1 N	N	C	
SIMPLE/VERY INEXPENSIVE/IO. PORT/SCREEN/8080	DA	4 N	Y	C	11
LEFT- & RIGHT-CHANNEL/MUX.ED AUDIO	A	5 N		C	E
ECL./VCO./KLYSTRON/PROGRAMMABLE COUNTER/MIXER/LO.	AD	4 N	N	C	
INTERSIL/PH METERS/4.5 DIGITS LED. DISPLAY/METER	AD	2 N	N	C	
IMPROVED TEMPERATURE COMPENSATION	AD	2		C	
CARRIER AMPLITUDE/FREQUENCY/PHASE/TAPES	A	3 N		C	E
TRIODE/MODEST COOLING REQUIREMENTS/GRID	A	5 N			

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		1			
TERMINAL/DIGITAL-LOOP TRANSCEIVER/COMMUNICATION	AD	2	N	N	C
NUCLEAR SPECTROSCOPY/MECL./TXCO/CRYSTAL OSCILLATOR	FD	3	N	N	C
OSCILLATOR/LOUNG-COUNT COUNTER/UP./METAL SHIELD	D	1	N	N	C
PROGRAMMABLE VOLTAGE-CURRENT SOURCE/VIBRATION/COIA	DA	8	N	N	C
RAM./IO. PORTS/<\$75/ELECTROMECHANICAL DOOR LATCH	DA	4	N	N	C
ENCODING WHEEL/LED. DISPLAY/TELESCOPE MIRROR/BEAMS	DA	4	N	N	C
COMPARATOR/ZCD./PULSE SHAPING/DIFFERENTIATORS	DA	6	N	N	C 61
WIDE FREQUENCY RESPONSE/HIGH SWITCHING SPEED	A	7	Y	N	C
PWM./RMS. LINE VOLTAGE/FREQUENCY/400VDC. OUT/UNITY	AD	1	N	N	C
STM.-AFM/ATOMIC FORCE MICROSCOPY/COUNTERS/700V	AD	6	N	N	C 25/26
POSITIVE FEEDBACK/HF./EFFICIENCY/OUTPUT VOLTAGE	A	2	N	N	C
DPSK./UNIVERSAL DATA-LINK TRANSCEIVERS/PBX./MODEMS	DA	7	N	N	C
COMPUTER PROGRAM/DRUM/VCO./1-SHOT/COPY/FACSIMILE	DA	6	Y	N	
SIGNAL GENERATOR/16HZ TO 96MHZ/0.2DEG ACCURACY	DA	1	N	N	C
AUTO ZERO/OA.		4			C
CONTROL MULTIPLE FILAMENTS/MOSFET./DARLINGTON	DA	6	N	N	C
FEEDBACK LOOP/SAMPLING FREQUENCY/TELEMETRY/LPF.	AD	4	N	N	C
1.5A/OVERLOAD/RED/LED./VOLTAGE REGULATOR	A	3	N		
SERVICE/UNPREDICTABLE TIMES/READING/THRESHOLD	A	1	N	N	C
I2732A/I2764/PIA./PIN 20/SUPPLY/~1V-US SLEW RATE	AD	1	N	N	C
TTL. BINARY/COMPUTER/TERMINAL/COMMUNICATIONS/AUDIO	DA	6	Y	N	
SCHOTTKY DIODES/CONVERTER/MOSFET./PS.	AD	6	N	N	C
FET./HF. SWITCHING/IMPEDANCE MATCHING/CARRIER	DA	6	N	N	E
CYLINDRICAL SPECIMEN/SYMMETRICAL/SYNCHRONIZATION	A	7	N	N	C
DISPLAY/LINEAR FUNCTION/OVER A WIDE RANGE/5PF/20UF	DA	1	N	N	C
MPU. SUPERVISORY CCT/BATTERY BACKUP/EEPROM./CLOCK	DA	9	N	Y	
PROBE TIP	AD	2	N	N	C
INEXPENSIVE/EASY-TO-BUILD/MOV.	AD	4	Y	N	C
HV. ZENERS/DIODE/STEREO/TUBE AMP.S/POWER AMP./PS.S	A	5	N	N	
SCR./DISPLAY/SINGLE-CHIP/BLINKING LIGHTS/PATTERNS	DA	4	N	N	C
BIAS/PS./SCHOTTKY GATE/LOAD LINES/AM.-TO-PM./PCM.	A	3	N	N	C
DYNAMOMETER/PHASE-CONTROLLED CONVERTER (PCC)	DA	9	N	N	C
RADIATOR/REFRACTIVE INDEX/PION BEAM/PHOTONS/LIGHT	A	9	N	N	C
PI ADAPTATION/SPEED REGULATION/LOAD/MRAC-BASED	A	9	N	N	C
STRIPBOARD/TEST GEAR/LAYOUT	A	2	N		
OYSTER LARVAE/GAAS. LED./SENSOR/THERMISTOR/OA.	A	9	N	N	C 42
REVERSAL PROTECTION/SWITCH-MODE CONVERTER/MOSFET.	A	2	N	N	C
ADC./POLE-ZERO CANCELLATION/GAUSSIAN INTEGRATOR	A	5	N	N	C
RESOLUTION OF 0.1DEG/1KHZ TO 250KHZ/READING/RANGE	DA	1	N	N	C
UP./MUX./PROM./DISPLACEMENT	AD	6	N		E
POOGE/DAC./HA2520/AMP./CAPACITORS/REGULATORS/AUDIO	AD	6	Y	N	3
LOADING/INCREASE IT BY 3DB/RESISTOR/83W INPUT	A	2	N	N	
LOGARITHMIC DAC./HIGH-SPEED, LOW-NOISE OA./AUDIO	AD	1	N	N	C
FLASH ADC./1V PEAK-TO-PEAK/NYQUIST RATE	A	9	N		C E
MEASUREMENT/TEMPERATURE/WATER FLOW/WIND SPEED/VIAAD	AD	4	N	Y	C
UNITY-GAIN/FOLLOWER/DISSIPATIVE/REACTIVE	A	3	N		C
UP-COUNTER/AMP./EEG./EMG./NERVE	DA	9	N		C
HIGH-PERFORMANCE/TDA1540 DAC./PHILIPS/AUDIO SOUND	A	5	Y	N	3

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FET./TRANSMISSION LINE/IF./ACCURATE TO ~0.02%/PLL.	A	6 N	N	C	
TTL./CMOS./SHORTING PLUGS/INDICATORS/\$100	DA	5 Y		C	
PROBES/SMALL THERMAL MASS/ADC.	AD	2 N		C	
RF. ISOLATION/SIGNAL-SWITCHING/LINEAR	AD	2 N		C	
POINTS/PLAYERS/SCOREKEEPING	D	5 Y		C	
DIGITAL DIVISION - ANALOG ACCURACY/DECODED	DA	2 N	N	C	
60HZ REFERENCE/TTL./NAND/FREQUENCY DOUBLER/LIMITER	AD	3 N	N	C	
DAC./HF.S/VOLTAGE/GAIN CHANGES/OA./LADDER NETWORK	AD	1 N	N	C	
>100MHZ/LOOKUP TABLES/MONITOR/GDS/MEMORY/COLOR	AD	6 N	N	C	
CLOCK/PERCENT OF FSD./INTEGRATOR/FET./FLUCTUATIONS	AD	2 N	N	C	
MULTICHANNEL CHARGE TO TIME CONVERTER/TTL./RESET	D	3 N	N	C	61
DMA./IO./FORTRAN/RAM./CURRENT-SOURCE DENSITY (CSD)	DA	9 N	N	C	25
VISIBLE/REFLECTOR/CARRIER/COMMUNICATION/SPEECH	A	3 Y	N		
ANALOG MUX.S/SWITCH/ALTITUDE-BAROMETER SELECTION	AD	7 Y	N		
ORBITAL-MOTION LIMITED (OML)/DUMMY PLASMA CCT	AD	5 N	N	C	
OPTOISOLATED TRIACS/ADC./1-SHOT/DRIVER/OA./AC.	AD	1 N	N	C	65
FET. OA.S/CMOS./DMOS./1MHZ/COMPLEMENTARY BIPOLAR	AD	5 N	N	C	E
MICROCONTROLLER/IO. BUS/CYDAT/8-BIT/ADC./FET.S	DA	9 N	N		
MICROPHONE/OA./COUNTER/OSCILLATOR-TIMER/1-SHOT	AD	3 Y	N	C	
DRIVE+-1V/75OHM LOAD/+-2V/150OHM/SINE WAVE/VIDEO	A	2 N	N	C	
ANALOG-COMPUTING/POWER-RAISING/MULTIPLIES/DIVIDES	A	6 N	N	C	
TEMPERATURE BRIDGE/HEATER/AMP.	A	6 N		C	
MONOSTABLE MULTIVIBRATOR/CMOS./RELAY	D	5 N		C	
ADDRESS DECODER/BUS/16-BIT/CS.	AD	8 N		C	
PROCESSOR/MEASUREMENT/CONTROL SOFTWARE/THERMIST	AD	7 N	N	C	E
FF./CLOCK/SHAPES/SEQUENCE/ACCURACY/STABILITY	DA	2 N	N	C	
MCP./GEOPHYSICS/ASTROPHYSICS/PHOTO CATHODE/ANODE	AD	8 N	N	C	
CURRENT-CONTROLLED TRANSMISSION GATE/1 TO 200MHZ	AD	1 N	N	C	
BAND-PASS FILTER/4-BIT CODE/CONNECTED BACKWARDS	AD	2 N	N	C	
VIDEO/AMP.-GAIN CONTROL/SWITCHES	AD	1 N		C	
READOUT/SIMPLE/SILICON/RADIATION SURVEY METER	AD	9 N	N	C	
50-179DEG/400HZ TO 4KHZ/MAGNITUDE-COMPARISON LOOP	AD	3 N	N	C	
RC. OSCILLATOR/INTERNAL RESISTANCE/3 TO 9V	AD	1 N	N	C	
MONKEYS/JOINT POSITION/BASIC/PROGRAM	AD	9 N	Y	C	
GC.-MS./MOD./21-110B/8-CHANNEL ANALOG MUX./RATE	AD	2 N	N	C	
LAPLACE/MULTIPLIER/HALF-WAVE RECTIFIER/PLL.	A	6 N	N	C	
COMMUNICATIONS/RADIO/FILTER/AGC./DEMODULATOR/SNR.	DA	5 N	N	C	
MICROCOMPUTER-COMPATIBLE/DC. OR PULSED-OUTPUT	AD	3 N	N	C	
CONTROLLED BY A 1-SHOT/STIMULATION PULSE/MUSCLES	AD	3 N	N	C	
HF.S/LF.S/TOLERANT OF EARTHED SHIELDING/CELL	A	5 N	N	C	
PULSE STRETCHER/EDGE TRIGGER/STRAIN GAGES/BEAMS	AD	4 N	N	C	
REFERENCE DC./OA./PROGRAMMABLE, VOLTAGE-CONTROLLED	AD	5 N	N	C	16
OVERDRIVE/MUSIC/SOUND/VARIABLE-GAIN VOLTAGE AMP.	AD	5 N	N		
OF SELECTABLE SIZE/POSITION/IBM PC./INTERFACE/ADC.	AD	8 N	N	C	E
TRANSMISSION LINE		5		C	
UP.S/FORMAT/PROGRAM/STORAGE/SUBROUTINES	AD	5 N	N		
COMPUTER-DEVELOPMENT/2 8-BIT CMOS.-SOS/IN PARALLEL	D	9 N	N	C	
CMOS./COUNTERS/60HZ SCHMITT TRIGGER/TIDAL VOLUME	DA	2 N	N	C	
STM./IA./OA./BW. OF 250KHZ/FEEDBACK CONTROLLER/SH.	A	5 N	N	C	

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EFFICIENCY IS 80%/H BRIDGE/THERMAL SHUTDOWN/CHEAP	AD	1 N	N	C	
RELAY SWITCHING LOGIC/SAFETY PRECAUTIONS/FILTER	AD	4 N	N		
SWITCH/BULB/TIMING/TRANSISTORS/DRIVE RELAY/BEEPS	A	2 N	N	C	
VMOS./PULSER/MEASUREMENTS/SILICON/WIDE-BAND/OA.	A	3 N	N	C	
PHASE RESOLUTION/1.4DEG/SWITCHING TIME/400NS	AD	4 N	N	C	
2 OA.S/TIMER/HORIZONTAL DRIVE/CRYSTAL/CW./COIL	A	1 N	N	C	
COMPUTER CONTROL/OSCILLATOR/SOUND EFFECTS/DRIVERS	AD	4 N	N		
HOME-BUILT/INDUCTIVE SENSOR	AD	6			
ERROR/+-.0.2DB/LADDER NETWORK/COUPLING/COMPENSATION	AD	1 N	N	C	
PREVENT LOADING EFFECTS/LOW-NOISE/FOLLOWER/DC. PS.	A	3 Y	N		
TIMER/MULTIVIBRATOR/END POINT DETECTION ALARM	AD	5 N	N		26
OA.S/ANALOG SWITCH/FREQUENCY/S-R FF./BRM/DISPLAY	AD	4 N	N	C	
MAGNETIC FIELDS/WHEATSTONE BRIDGE/STRIPS/PHILIPS	A	1 N	N	C	
		3		C	
CLOCK/RF. COUPLED IMPLANT/TRANSDERMAL TRANSMITTERS	AD	4 N	N	C	
BUZZ/SHIELDING/HARMONIC/TRIACS/CAPACITOR	A	1 N		C	
COMPARATOR/PIC.S/PPI./TIMER/OSCILLATOR/X-RAY/RAMP	DA	9 N	N		E/12
OVERVOLTAGE PROTECTION/CURRENT LIMITING	A	4 N			
AUTOCORRELATION/40MHZ/PCS/PROCESSOR/COMPARATOR	DA	3 N	Y	C	
AUDIO-AMP./BANDSPREAD TUNING/TICKLER COIL/BAND	A	5 N	N	C	
PLETHYSMOGRAPHY/FLUID SHIFT/THORACIC/CONDUCTIVITY	AD	6 N	N	C	
OSCILLATOR/JFET-INPUT OA./<2W/AUDIBLE ALARM/AF.	AD	6 N	N	C	
AMP./DOMESTIC FOWL/BIRD/QRS COMPLEX/HEART RATE	A	5 N	N	C	
COMMON MODE NOISE/REJECTED/FFT./H11-A/ADC.	AD	9 N		C	42
DIGITAL MULTIPLICATION/AC./DC. SIGNAL GENERATION	AD	8 N	N	C	
BLACK-BODY RADIATION/4TH POWER OF/VOLTAGE	AD	5 N	N	C	
STRAY-INSENSITIVE/ANALOGUE CMOS./SH.	AD	7 N	N	C	
AMP./OPEN-CCT THERMAL NOISE/JFET./1-150KHZ	A	8 N	N	C	
PULSE HEIGHT DISTRIBUTION/CFD./TIMING FILTER AMP.	AD	4 N	N	C	12
STABILITY/THRESHOLD VOLTAGE	A	3		C	
SERVO OA./MUSIC/AUDIO/BCD./DECODER/COUNTER/MOSFET.	AD	9 Y	N		
LOADING EFFECTS/VOLTAGE MEASUREMENTS	A	4 Y			
COIL/MAGNITUDE/DEMODULATOR/OSCILLATOR/AMP.S/JFET.	AD	4 N	N		E
HEATH/OA./ARTIFICIAL GROUND/10.1/93	A	2 N			
WAVE SHAPING/COULTER METHOD/NOISE/OA.S/GAS BUBBLES	A	4 N	N	C	42
NON-INVASIVE/CONSTANT/PERMEABILITY/VELOCITY/EM.	A	6 N	N	C	
GYRO/MOTOR/TIMER/MODEL SHIP/RATE MEASUREMENT/CLOCK	AD	4 N	N	C	
TRANSDUCER/SAWTOOTH VOLTAGE/MIRROR/HE-NE	AD	2 N		C	
BIFET. OA./DC. SERVO/PHONO STAGE/MOD.S/SNR./MM-MC	A	9 Y	N		
HV.-DECOUPLING/INDUCTION DRIFT CHAMBER/MONTE CARLO	A	9 N	N	C	
SWITCHED CAPACITOR/FUNCTION GENERATOR	AD	2 N		C	
BUTTERWORTH LPF./SWITCHED CAPACITOR	AD	4 N	N	C	
3DB NF./18DB GAIN/ADJUSTABLE REGULATOR/DRAIN	A	4 Y	N	C	
TRIPLE-SLOPE/NON-LINEAR SQUARE-ROOT/DUAL-SLOPE	AD	9 N	N	C	
MUX.S/SCHOTTKY POWER DIODES/RECEIVERS/DATA/MODEMS	DA	1 N	N	C	
CHOPPING/ICE-POINT COMPENSATION/THERMOCOUPLES/PRT	AD	9 N	N	C	
COMPARATOR/PMT./BEAMS/SCINTILLATOR DETECTOR/DELAY	A	6 N	N	C	
DETECTOR/COMPUTER/AUTOMATIC/MICROKELVIN RANGE	A	2 N	N	C	
VOLTAMMETRY/MINI-COMPUTER/DAC.S/LOGGING	AD	5 N		C	42

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THERMOCOUPLE/ABSOLUTE VALUE INPUT CCT/AC./POWER	A	6 N	N	C	
PHOTOMULTIPLIER/FET. NOISE/INPUT CURRENT	A	5 N	N	C	
PHOTOTUBE/AC. VOLTAGE FOLLOWER/ROLL-OFF BELOW 5HZ	A	8 N	N	C	
ASTABLE SQUARE WAVE/HIGH ELECTRIC FIELD/AIR/NEEDLE	A	4 Y	N	C	
SWITCHING/ZERO-CROSSING/TRIAC/GATE	A	1 N		C	
IN THE BASE CCT/DARLINGTON/SMALL-SIGNAL DIODE	A	1 N	N	C	
SYMMETRY/GROUND/FILTERING/RIPPLE/AUDIO	A	4 N			
~\$260.00/DARLINGTON PAIR/PASS BANK/MAGNET PS./COIL	A	5 N	N	C	
CHARGING SYSTEM/BATTERIES/DIODES	A	3			
VACUUM TUBES/RECTIFYING/HV./SEROTONIN/AIR/OZONE	A	3 N	N	C	
		2		C	
500MSAMPLE-SEC SH./MACRO-CELL/DETECTOR	AD	5 N	N	C	
ECL./DSP./I-Q DEMODULATOR/QAM./QUADRATURE CARRIER	AD	8 N	N		3
OA.S/TV./DOUBLE-TERMINATED/LOW DISTORTION/GAIN	A	4 N	N	C	
ZERO & SCALE/HIGH PRECISION/READOUT/TEMPERATURE	AD	3 N	N	C	
AUDIO OUTPUT IS 2W INTO 40HM/LED./MICROPHONE	AD	4 N	N	C	
SOUNDING/LAMPS/MULTIVIBRATOR/FF./SPEAKER	A	4 Y	N		
DIFFERENTIAL AMP./INPUT BUFFER/DISPLAY/JFET. OA.	AD	5 Y	N		35
BINARY-WEIGHT/CLOCK/~5HZ/DIODES FORM AN OR-GATE	DA	1 N	N	C	E
BACK/BUFFER/LINE SELECTOR/PULSE/OPTICAL SCANNER	AD	9 N	N	C	21/42
PULSE-FORMING/250V/FREQUENCY METER/SPECTROSCOPY	AD	6 N	N	C	25
PC.S/AF./ROTARY ENCODER/DAC./THD./INTERFACE	AD	4 N	Y	C	
PS./BETWEEN 1.5V & 16V/300UA AT 16V/80UA AT 1.5V	A	1 N	N		8
IR. LED. EMITTER/PIN PHOTODIODES/POSITIVE/SERVO	A	6 N	N		57
DIFFERENTIAL GAIN IS 2/CMR. >70DB/HIGH-SPEED	A	2 N	N	C	
HEAD POSITIONING/DIFFERENTIAL AMP.S/PEAK DETECTORS	A	1 N	N	C	10
LIGHT/SIMPLE/LOW COST/PWM./PUSH-PULL/IGNITION	A	5 N	N	C	
CARBON MONOXIDE/POLLUTERS/PROBE/TAILPIPE	AD	6 Y		C	
MOTOR	DA	4			
EMULATES A RHEOSTAT/BRIGHTNESS/1KHZ OSCILLATOR	A	2 N	N	C	E
PSD./RETARDING FIELD AES./LOCK-IN AMP. (LIA)/RFA	AD	6 N	N	C	
GAASFET. MICROWAVE PREAMP./HANDSHAKING/UP./8748	AD	9 N	N	C	
JFET./RF./AGC./IF. FILTER/AF. RESPONSE	A	5 N		C	
RAILS/MATCHING/SENSE RESISTORS/BILATERAL/TRANSIENT	A	1 N	N	C	
NOISE PICKUP/HIGH-SPEED PROCESSING/BIAS CURRENT	A	1 N	N	C	
REFERENCES/FEEDBACK NETWORK/SIMPLICITY	A	1 N		C	
LIGHT PULSES/LINK III/AMP./FM./CMOS. GATE/MODULATES	AD	2 N	N	C	
TEMPERATURE SENSOR/LED.S/POWERING/OA.S/MOSFET.	AD	6 N	N	C	39
ZENER/RIPPLE/RMS./TRANSFORMER/"FOLDBACK"/OVERLOAD	A	5 N	N		27/73
0-TO-5V/RING OSCILLATOR/LADDER/DROOP/<30UV-SEC	AD	1 N	N	C	
PLATE/TRANSFORMER/AC. LINE/DC./BRIDGE RECTIFIER	A	3 N	N	C	
AIM 65/PENETROMETER/TRANSDUCER/SOIL STRENGTH	A	4 N	N	C	E
PS./MODULATOR/IDENTIFICATION/ANTENNA/TRANSVERTER	AD	2 N	N	C	
METER/SENSING/NULL/RF. CHOKES/ANTENNAS	AD	3 N			
MINIATURE ANALOGUE TAPE RECORDER/SINH^-1 FUNCTION	A	5 N	N	C	
COMPARATOR/TONE GENERATORS/ASTABLE MULTIVIBRATORS	AD	2 N	N	C	
REGULATE/DC. GAIN/POWER/PARASITIC OSCILLATIONS	A	5 N	N	C	
VOLTAGE RAMP/TIMING LOGIC/THUMBWHEEL SWITCHES	AD	9 N	N	C	
TRANSMIT INDICATOR/RADIO/COMPARATOR/LED./FET.	A	1 N	N	C	

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SENSOR/CROWBAR/SCR./PROTECTION/CURRENT LIMIT	A	6	Y	N	
ICP-SSS/TRACE CONSTITUENTS/DAC./ADC./STEPPER MOTOR	AD	5	N	N	C
NON-CONTACT/SENSORS/RATE OF CHANGE	A	1	N		C
1KHZ/AF. SIGNAL/CABLE/WIRES/RF.-INJECTOR CCT/OA.	A	3	N	N	C
LIGHT INTENSITY/SUNLIGHT/RADIATION/MEASUREMENT	AD	5	Y	N	39
FM./ICPM/INCIDENTAL CARRIER PHASE MODULATION/SOUND	A	4	N	N	C
HYSTERESIS/TOROID/INDUCTOR/CURRENT	A	4	N		C
AUDIO/LED.S/FLASHING/FREQUENCY/AMPLITUDE	DA	1	N		
LOAD CURRENT/VOLTAGE REGULATOR/GERMANIUM	A	1	N		C
IMAGINARY PROCESSOR/FFT./ALGORITHM/RAM.	D	9	N		C
Q MULTIPLIER/ATTENUATOR/FILTER/AGC.	AD	5	N		
CARTRIDGE/AUXILLIARY/TURNTABLE/STEREO	A	1	N		C
BIG BEN TUNE/HOUR		3			
RC./BCD.-TO-7-SEGMENT DECODER-DRIVERS/VALUE	DA	6	Y	N	C
MA1026 CLOCK MODULE/CMOS./FULL-FUNCTION/NATIONAL	AD	3	N	N	C
FF./QUAD OA./LED.S/STATE/LOW/HIGH/CLOCK	AD	3	N	N	C
IEEE 488 (GPIB.) INTERFACE/REMOTE CONTROL/COMPUTER	DA	3	N	N	C
POINTERS/RAM.S/PROM.S/PROCESSOR/ADDER/CONVOLUTION	D	7	N	N	C
PS./ACCURATELY/DC. ERROR AMP./OHMMETER/VERY-LOW	A	3	N	N	
LDR./TRANSDUCER/TEMPERATURE/PRESSURE/FORCE/MEASUFDA		4	N	N	C
PRE-AMP./BOOSTER/THERMAL LIMITING/PTOTECTION/SOUND	A	9	Y	N	C
SENSOR PROBE/GREEN/RED LED./RATES UP TO 500ML-MIN	A	2	Y	N	C 3
CONSTANT CURRENT SOURCE/GAIN/SOURCE-SINK/LOGIC	AD	2	N	N	
ALGAAS./EMITTER/PHOTOTRANSISTOR/LED.S/CCD./AMP.	A	6	N	N	E
500OHM/VIDEO/ERROR/GENERATED LINEAR FUNCTION/TIMERS	A	7	N	N	
MODULATION/COUNTER/COMPARATOR/ANALOG SWITCH	AD	3	N	Y	C
DIODE/225KHZ/>50DB/RF./CARRIER/REFERENCE VOLTAGE	AD	1	N	N	
R-C/OA./COMPARATOR/MOSFET.S/PULSE/WIDTH/RECEIVER	A	7	Y	N	E
SOFTWARE/SUBROUTINE/PROGRAM/INEXPENSIVE	AD	7	N	Y	C
VOLTAGE REGULATOR/DUAL OA./PASS TRANSISTOR/CMOS.	AD	2	N	N	C
CONSTANT CURRENT/LIFE/REGULATOR/TIME/RATE	A	3	N	N	
ALLOPHONE/COMPUTERIZED/VOCABULARY/ROM.-SELECT CCT	DA	7	Y	Y	C
LIGHT-TO-CURRENT CONVERTER/SERVO-CONTROLLED/CLOCK	AD	6	N	N	
SENSOR/LIGHT MEASUREMENT DEVICE	AD	5			
ZENER DIODE/VOLTAGE REFERENCE	A	1			
SCHMITT INVERTER/FF./WAVEFORMS/RIPPLES/LOOP	DA	2	N	N	C
FES/GAIT RESTORATION/VIBROCUTANEOUS INTERFACE/VCI	A	6	N	N	C E
THERMISTOR/DVM./INTERFACE/HEATING/BRIDGE	A	4	N		C
LATCH/FIFO./BUS/PULSE/READOUT/DETECTOR/TUBES/CAMAC	AD	8	N	N	C
VIDEO AMP./BLACK-LEVEL CLAMPING/BACK PORCH/DISPLAY	A	6	N	N	C
ADC./VIC-20/6522/8-CHANNEL ANALOG MUX./PROBE	AD	6	N	N	
OA./COMPARATOR/RESISTOR BRIDGE CCT/PLC/MEASUREMENT	AD	3	N	N	C
Z80 UP./VFC./POTENTIOSTAT/ANALOG MULTIPLIERS	DA	8	N	N	C
TRANSFORMER/DC. ISOLATION/8W/THROUGHOUT THE HOUSE	A	2	N	N	C
SHORT CCT/INDESTRUCTIBLE/TEST/FOLDS BACK	A	3	Y	N	
EMITTER-DETECTOR PAIR/CMOS./NAND GATE/HIDE-&-SEEK	AD	3	N	N	C
METER/TRANSISTORS/CURRENT/3-TERMINAL	A	2	N		
RIG/LED./FUSE/SHUNT/BLOW/GROUND/BATTERY/NICD.S	A	3	Y	Y	
AM., FM., SSB., OR CW./TOROID/TRANSFORMER/PORTABLE	A	2	Y	N	C

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50A/100V/ELECTROMAGNET/31 POWER TRANSISTORS/OA.	A	3 N	N	C	
COMPARATORS/SWITCH/FF./NOR GATE/LED.S/PULSE	DA	5 N	N	C	
LOW WATER/BATTERY/DOOR SWITCHES/DELAVAL	AD	4 N			
MODELING/CONTROL WINDINGS/CONVERTERS	A	2 N		C	
SKIN/TEMPERATURE MEASUREMENT/CIRCULATORY SHOCK	A	3 N	N	C	
DIGITAL PROCESSING/CODING/RAM./FF./COUNTER	D	2 N	N		
FREQUENCY-DETERMINING NETWORK/20MHZ/LOW-DISTORTIOIA	A	5 N	N	C	
POWER OA.S (POP'S)/SOA./LOADS/DAC./APEX/SPRAGUE	A	4 N	N	C	
HEART/FIRING OF THE SINO-ATRIAL NODE/OA.S/MOSFET.	DA	8 N	N	C	
CARDIAC MONITORING/LCD./12-BIT BINARY COUNTER	DA	4 N	N	C	
ANALOG BASE-BAND VIDEO/COMPRESSED/SH./SPICE/HDTV.	A	9 N	Y		
ECL./WAVEFORMS/MEASUREMENT/FASTEST/SINE WAVES	D	3 N	N	C	
SCINTILLATORS/3-FOLD COINCIDENCE UNIT/MEASUREMENT	AD	8 N	N	C	61
AMP.S/MONOSTABLE MULTIVIBRATORS/SH.S	AD	4 N	N	C	
ZENER/PASS TRANSISTOR/REFERENCE VOLTAGE/DC.	A	1 N	N	C	
VOLTAGE DROP/ADJUST/CURRENT LIMITING	A	1 N		C	
EQUILIBRIUM POINT/ACOUSTIC/AMP.S	AD	4 N		C	
LED.S/TIMER/GATES/BYTE CATCHER/UP./BUS	DA	2 N	N	C	
DUAL TRANSCONDUCTANCE AMP./BANDPASS RESPONSE/VCF	A	4 Y	N		
LIQUID HELIUM/DEWAR/FAILURE/SAFE STANDBY MODE	DA	4 N	N	C	
NATIONAL SEMICONDUCTOR/MONITORING/PROBE/DIODES	AD	2 N	N	C	
DRIVER TRANSISTORS/FEEDBACK NETWORK/POLES/ROLL-OFFA	A	9 N	N		
REVEAL FLAWS/PARITY/CYCLIC REDUNDANCY	D	2 N		C	
LED./ALTERNATING VOLTAGE/THRESHOLDS CAN BE SET	AD	1 N	N	C	
		3		C	
HIGH IMPEDANCE/MS.-MS./ESA VOLTAGE SUPPLY	AD	9 N		C	42
GAIN/ZERO/BASE-LINE DRIFT/MEASURING/CHARGE/5MHZ	A	6 N	N	C	
POWER OSCILLATOR/DETECTOR/CLOCK/REFLECTED/SIGNAL	AD	8 Y	N	C	
POLARITY/DNA MOLECULES/RELAY/LED.S/PULSED/VIA.	AD	3 N	Y	C	
SET/ANTENNA-TUNING/HEADPHONES/SPIDER-WEB	A	3 N		C	
DEAF/VISION PROSTHESIS/HEARING AIDS	AD	3 N			
TRANSFER FUNCTION/SEISMIC TAPE	AD	1			
VARIABLE WIDTH, RECTANGULAR/PULSES/TO 16KV/SHUTTER	A	5 N	N	C	
OPTOISOLATOR-COUPLER/LDR./SINGLE-CHIP RADIO/AM.	A	6 N	N	C	
REFERENCE/ELECTRONIC COLD JUNCTION COMPENSATION	AD	8 N	N	C	
STEREO/MOSFET. OUTPUT TRANSISTORS/DISCO	A	4 N		C	
INCANDESCENT LAMPS/LIGHTBULBS		3			
BINARY COUNTS/DAC./SCR.S/BUFFERS/LADDER	AD	1 N			
FIELD STRENGTH		4		C	
DAC./INVERTER/POWER OA./VOLTAGE FOLLOWER	AD	1 N	N	C	
FRONT-END FET./LOW NOISE/RF.-BIASED/2 OUTPUT AMP.S	A	2 N	N	C	
NPN/PNP/>0.5IN HIGH/COMMON-CATHODE/CLOCK/CHARACTER	D	4 Y	N	C	
RF. POWER MONITORING/VHF./MRI. AMP./64MHZ/PTFE.	A	3 N	N		
SERIES-TUNED CCT/SUSCEPTANCE/ADMITTANCE/OSCILLATOR	A	4 N	N	C	
HEAD INDUCTANCE/RESONATE/TREBLE BOOST/COMPENSATIO	A	8 N	N	C	E
IGNITION SWITCH/ALTERNATOR/BATTERY/FIELD	A	4 Y			
DISPLAYS/COUNTER/INDICATOR'S/BIKE/DRIVER	DA	3 N			
LED.S/GOOD/BAD/STATUS/TESTING PROGRAM	DA	7 Y			
MANUAL SWITCHES/GATE TRANSISTORS	A	1		C	

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POWER TRANSISTOR/CURRENT/HEAT-SINKING	A	1 N	C	
LAMP/LIMITS CURRENT/LATCH-TYPE RELAYS	A	2 N	N C	
PULSE HEIGHTS/SPARK CHAMBER/MAGNET SPECTROMETER	A	9 N	N C	61
THERMISTOR/OA./ACTIVE LPF./SUMMING AMP./RECEIVERS	A	6 N	N C	
ZENER DIODE/DIFFERENTIAL AMP./POWER/RIPPLE IS/20MV	A	1 N	N C	
HIGH-CURRENT IC/STRAY/HF./LOAD/LM318T/LF357/1MHZ	A	3 N	N C	
AVC/LOW-IMPEDANCE HEADPHONES/AUDIO/SPEAKER/SILENCEA	A	1 N	N C	
ROTATE/CAPACITOR MANUALLY/DRIVER'S SEAT/VSWR./1.1	A	4 N	N	
OA./VOLTAGE ADJUST/REGULATED	A	2 N	C	
TEST TOOLS/2 LED.S/GREEN/RED/CONTINUITY TESTER	AD	3 Y	N C	
NOXIOUS FUME/HOME & MOBILE/ALARM		2		
9V/1.5V/117V AC./PITCH/LEVEL ADJUST/OUTPUT/INPUT	9V	2 N	N C	
SATURABLE CORE REACTOR		1	C	
CHARGING NICD.S/REGULATION	A	3		
NEGATIVE FEEDBACK/PHOTOTRANSISTOR	D	1 N	C	
CALIBRATION/DEVIATE/TIMER CHIP/ASTABLE/MONOSTABLE	A	6 N	N	
LF. SINUSOIDAL/CURRENT DIVIDING CCT/MAGNETIC FIELD	AD	4 N	N C	
VOLTAGE COMPARATOR/CRYOSTAT/TEMPERATURE	DA	3 N	C	E
PHOTORESISTOR/TAPES/TV./BLACK-&-WHITE	DA	3 Y	C	
PRE-AMP./VFC./DISPLAYED ON LED.S/COUNTER-LATCH	DA	3 N	N C	
IGNITION/ALTERNATOR/WINDINGS/RPM./AC. GENERATORS	A	4 Y	N C	
MEASURE TEMPERATURE/LCD./THERMAL RESPONSE	DA	4 N	C	
WATER-LEVEL/THERMOSTATIC SWITCHES	A	3 N		
PDA VIDEO LINES/TO SH.	A	5 N	C	
TILT SWITCH/DISPLAYS/KITCHEN FAN/SENSOR/DELAY/SCR.	AD	7 N	N C	
TUNABLE TRAP/ANTENNA/FREQUENCIES <15KHZ/SW./RADIO	A	3 N	N C	
TRANSCEIVERS/RIG/TUNING/DIGITAL	D	4		
CLOCK FREQUENCY IS 32 TIMES HIGHER/EXCLUSIVE-OR	DA	1 N	N C	
HIGH-LEVEL/JFET./STABLE DC./ACCURACY/TC./HV. OA.	A	6 N	N C	
PINCH-OFF/12-BIT/DAC.S/FOLLOWS/RISING EDGE/PULSE	A	1 N	N C	
FUN PROJECT/BEACON SIGNALS		4		
CONVERSION TIME/60US/PIO/IBM PC./6809/HALL EFFECT	AD	6 N	N C	
PHASE MEASUREMENT/HIGH-SPEED/MICROSTRIP/40MHZ	AD	4 N	N C	
HV. PS./OPTOCOUPLER/LED./RF./HIGH POWER MAGNETRON	AD	3 N	N C	
GAMMA-RAY ASTRONOMY/PMT./TTL. PULSE/CHERENKOV	DA	4 N	N C	
UNITY-GAIN-DIFFERENTIAL AMP./LF. & DC. APPLICATION	A	2 N	N C	
0 TO 300V/10 NA TO 20 MA/CURRENT SENSOR	A	2 N	C	
DPM./RECORDER/DARK CURRENT/DYNODES/SLIT	A	9 N	C	42
PMT./FET./ADC./CONTINUOUS/FLASH/KINETIC MODE	AD	6 N	N C	
REFRESH AMP./48 BIT SHIFT REGISTER/PHOTOELECTRON	AD	9 N	N C	25
PIPELINING/FLASH CCT		6	C	
LINEARITY, STABILITY, BW./~1UA TO THE MAXIMUM IC	A	1 N	N C	
TDC./MAGNETIC SPECTROMETER/DETECTOR/SCINTILLATORS	A	9 N	N C	12
LINEAR/CAPACITOR CHARGE-DISCHARGE/MUX./MOD.S/ADC.	AD	9 N	N C	42
ZERO SHIFT/THERMAL ERROR COMPENSATION/FOIL/SENSOR	A	4 N	N C	
PROGRAM/BASIC/DISPLAY OUTPUT/MONITORED/DYE/NOISE	A	2 N	Y C	
BANDLIMITED AUDIO/SPECTRUM FLIPPED/COMPLEMENTED	DA	1 N	N C	
QSW/BLANK/YAG/MECHANICAL/FIRING/WHEEL	DA	4 N	C	
APPLE II/COMMODORE 64/VOICE-RECOGNITION/CCL LOOP	AD	9 N	N C	

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REFERENCE LEVELS FROM MUX./RESPONSE/STIMULUS/SPEEDAD	7	N	N	C	
PHOTOTUBE/GAMMA-RAY & POSITRON DETECTOR/MUON DECAA	9	N	N	C	7
CURRENT TRANSFORMER/"FLAT" AMPLITUDE/EMI./TEM CELL	A	6	N	N	C
PRESCALER/KEYBOARD/RECEIVERS/IF./LO./LOOP FILTER	AD	4	N	N	C E
PULSE-SHAPING/CORRECTION/DIFFERENTIAL/DRIVER/FET.	A	9	N	N	88
COLPITTS VCO/UHF./HAM TV. BAND/VCR./BC.ING	A	6	N	N	C 16
SINE/TRIANGLE/SQUARE/WAVEFORMS/FUNCTION	A	5	Y	N	
FET./TWIN-T/ACTIVE FILTER/QUADRATURE VCO./EXPOSURE	A	4	N	N	C
65W/20 TO 20000HZ/8OHM LOAD	A	2	N		
		1			
FET./TRANSFORMERS/COMMUNICATIONS/FM. BC./TV.	A	7	Y	N	C
OSCILLATION FREQUENCY/TRIGGERED/RC. TIME CONSTANTS	DA	1	N	N	
HELPFUL POINTERS/NEWCOMERS		6			
HEAT/FLOW/DIE/HEAT SINK/ALL-GOLD METAL	A	2	N		C
HIGH-SPEED/HV./COLOUR/COLLECTOR LOAD	A	3	N		C
RELAY DRIVER/FLASHING LED.		1			
COMBINER/SPLITTER/FREQUENCY RESPONSE/GAIN/RF.	A	4	N	N	
CLOT/8-BIT CMOS. UP./COUETTE VISCOMETER	DA	4	N	N	C
INTENSITY/INTERFERENCE PATTERN/OPTICS/LASER BEAM	A	2	N	N	C
TOTEM POLE TRANSISTORS/PIEZOELEMENT/TTL.	AD	4	N		C
GATE/FCV/VACUUM UV. SPECTROSCOPY (VUV)/PRESSURE	A	7	N	N	C
READING/BANDGAP REFERENCE/RATIOMETRIC/DIFFERENTIAL	AD	2	N	N	C
16A/IRF450/LEAD INDUCTANCE/DRAIN/SOURCE/TEST CCT	DA	9	N	N	C
INTERFACE/COMPUTER/CALIBRATION/BETWEEN 1.5 &/375 K	DA	4	N	N	C
SEQUENCE/SPDT. RELAY/PROGRAMMING/PRESET/KEYPAD	DA	4	Y	N	C
AUDIO/THD. IS ~0.02% AT FULL POWER/GAIN IS ~52DB	A	3	N	N	C
TRANSMISSION/REPEATERS/HAM/MICROPHONE/KEY/DELAY	A	2	N	N	
RC. FILTER/COMMON-MODE NOISE REJECTION IS >100DB	A	1	N	N	C
FOCUS ULTRASONIC ENERGY/WAVES/TRANSDUCER/TUMORS	AD	9	N	N	C
AM./RF./CARRIER SUPPRESSION/HARMONIC GENERATION	A	3	N	N	C
TAMPER CCT/LED./NOR GATE/SCR./RELAY/MOSFET./SENSOR	DA	6	Y	N	C
UP./RC. BUS TERMINATOR/CPU./MITEL/NMC27C16/EPROM.	DA	6	N	N	C
ALSO DRIVES FET.S/MOSFET.S, SOLENOIDS, LAMPS/PWM.	AD	5	N	N	C E
MILLIMETER-WAVE/MULTIPLIER		3			C
PRECISION OA./NEGATIVE-VOLTAGE/SHUNT FEEDBACK	A	2	N	N	C
HIGH SLEW RATE/LOW OFFSET VOLTAGE/0.1HZ ERROR	A	2	N	N	C
COLD-JUNCTION COMPENSATION/VFC./OA./CHARGE PUMP	AD	2	N	N	C
VIRTUAL EARTH/REPETITIVELY CHARGED & DISCHARGED	AD	1	N	N	
MONOTONICALLY/TRANSISTOR/PRECISE/DELAY/CAPACITOR	DA	4	N	N	C
5MV REFERENCE VOLTAGE/OUTPUT-CURRENT TRIP LEVEL	AD	1	N	N	C
EPROM./UP.-BASED/COMPUTER/LIGHT BEAM/ACCELERATION	A	4	N	N	C
ULTRA LOW NOISE/JFET./BIFET. OA.S/AUDIO/REGULATORS	A	4	N	N	45/57
EMBEDDED/MICROCOMPUTERS/INSTRUCTION SET/ANALYZER	AD	2	N	N	C 48
PROGRAMMABLE LOAD/TMOS. N-CHANNEL/DRIVER	AD	2	N		C
POWER SWITCHER		2			C
DC.-DC. CONVERTER/MOTOR'S SPEED/EMF./STRAIN-GAUGE	AD	9	N	N	C
TRIGGER/INTEGRATOR/COMPUTER/BEAM	DA	6	N		C
MICROPOWER/86% FOR 1A/SCR./AC.-LINE VARIATIONS/DC.	A	7	N	N	C
386SX PROCESSORS/>9.3HR/LOW-BATTERY DETECTOR	A	1	N	N	C

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TERMINATING CABLE/150OHM/FLAT RIBBON/INTERFACE	DA	4 N	N	C	
SHORT-CCT PROTECTION/PAIR OF JFET.S/0.01%/OA.	A	1 N	N	C	
NON-INVERTING INPUTS/GAIN ERROR/IS REDUCED/FASTER	A	1 N	N	C	
RECHARGE/TRIGGER/FLOATING/NEURO-MUSCULAR	AD	5 N		C	
SIMPLE TUNING/CLASS C/2-TRANSISTOR/285W/SWR./MOS.	A	3 N	N		
LASER TUBE/BREAKDOWN TIME/ELIMINATION/MONITOR/PS.	A	4 N	N	C	
VARIAN E-109/OCTAGON 1-A/INTERFACE	AD	9 N		C	
9 SIMULTANEOUS VOICES/\$125/TRS-80/I	DA	9 N		C	
DIFFERENTIAL AMP./TRIGGER WINDOW/EYE MOVEMENT	AD	3 N	N	C	
INEXPENSIVE/EASY TO BUILD/RECEIVER	A	3			
PRECISION-DIODE/INVERTERS/CLEAN OUTPUT/TRIMMING	AD	1 N	N	C	
CMOS. INVERTER/QUARTZ CRYSTALS/DIODES/DRIFT	AD	7 N	N	C	
FIRING SCHEME/INTEL SDK-85/MICROCOMPUTER/8155/8085	AD	4 N	N	C	
DATA TRANSMISSION/MULTICHANNEL COMM/TO 32 CHANNELS	D	5 N	N	C	
PROBE/VOID FRACTION/CONSTANT-TEMPERATURE/BRIDGE	A	6 N	N	C	8
LOOP/FINE-TUNING DRIVER/RESISTANCE/GAAS./IR./LED.	AD	9 N	N	C	
MULTICHANNEL DAS.S/ADC.S/CPU./RAM./ROM./MCA./VAX	DA	3 N	N	C	
MEMORY ARRAY/64K/FOR \$130/IMSAI 8080/ADDRESS	D	3 Y	N		
FREE-RUNNING/~500KHZ/ODDS/Common-CATHODE/DISPLAYS	DA	2 N	N	C	
VARACTOR-TUNED VCO./HIGH-LEVEL MIXERS/TTL. GATE	AD	6 N	N	C	
VOLTAGE CLAMP/DMA. TRANSFER/FORTRAN/'PATCH-CLAMP'	D	7 N	Y		
FF./SYNCHRONOUS-COUNTER/RNS/COMPUTERS	D	6 N	N	C	
CURRENT PULSE/INDUCTOR/GAS PULSE SHAPE	AD	5 N	N	C	E
GENERATOR/SIMPLE/CMOS./HYSTERESIS/HIGH & LOW PITCH	D	7 N	N	C	
RESONATES AT THE FUNDAMENTAL FREQUENCY/GATE	D	2 Y	N		
SATELLITE/PICTURES/CONVERTER/80KHZ CRYSTAL/VHF.	DA	6 N	N	C	
AMATEUR RADIO/CRYSTAL/RF./DX/30M/KEY	A	4 N	N		
CODE/KEYPRESS/CLOCK/TRANSMITTER/RECEIVER/IR.	D	2 N	N	C	
SWEEP SPEEDS/CMOS./CLOCK/1-2-4-8 BINARY SEQUENCE	D	3 N	N	C	
DELAYS/CMOS./7555/LDR./NTC. THERMISTOR/ASTABLE	AD	4 N	N	C	
ELLIPSES/Z-AXIS/CURRENT & VOLTAGE/PHASE/REACTIVE	A	5 N	N		64
MICROCOMPUTER EPROM./KEYBOARD/SIDETONE	AD	4 N			
KIT/RAM./ACIA./UP./COUNTER/MICROCOMPUTER/BAUDRATES	DA	3 N	N		
PHONEME/SOUND/CARTRIDGE/SPEAK/AUDIO	D	2 N			
HV. SHUTDOWN/IGT/GROUND LOOPS/4KV ISOLATION	AD	9 N	N	C	
FIC=10KHZ/POLE FREQUENCY/LOWPASS OUTPUT/STOPBAND	A	1 N	N	C	
HAM/CW. FILTER/LED./NOISE/SELECTIVITY/CONTROL	A	5 N	N		
12-BIT/OA./DIVIDER/REGISTERS/SETTLES IN 1 CYCLE	AD	3 N	N	C	
SIGNAL-ANALYSIS/Q/CHEBYSHEV/BUTTERWORTH/IBM PC.	AD	3 N	N	C	
DIGITAL MIXING/AUDIO/RECEIVER/UP.-CONTROLLED	AD	6 N	N		
LIVEN UP/EASILY OPERATED/FOOT-PEDAL/SWITCH	A	4 Y	N		
~30DB/MEASUREMENT OF ULTRASONIC VELOCITIES/LIQUIDS	AD	8 N	N		39
2ND-ORDER ACTIVE RC. FILTERS/POLE Q'S/PARASITIC	A	3 N	N	C	
VERY SIMPLE/AUTONOMOUS/RECIPROCAL/PIECEWISE-LINEAR	A	5 N	N	C	
DIVIDE-BY-10 COUNTERS/FACTOR/GAIN	DA	4 Y		C	
TRANSMITTING/QUADRATURE OUTPUTS/PULSE WAVE (PW)	AD	6 N	N	C	
1MHZ TO >10MHZ/INVERTERS/LEVELS	D	1 N			
RF./SCHOTTKY/PIN DIODE/ATTENUATOR/INTEGRATOR	AD	1 N	N		
	DA	1 N	N	C	

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LF. BOOST/SPEAKERS/SOUND/BASS/BAFFLE/AUDIO/OA.	A	9 Y	N	64
CASCADED ELLIPTICAL LOW-PASS/BUFFER	A	2		
50MHZ TRANSCEIVER/PRODUCT DETECTOR	A	8	C	
MUSICIANS/AUDIOPHILES		5		
DMA./NETWORK INTERFACE CONTROLLER (NIC)/LAN.S	DA	6 N	N C	
COPE WITH CONVERTERS THAT CHOP UP TO 0.5MHZ	AD	7 N	N C	
TRANSISTORS/ARRAY/HIGH SPEED/SUMMING JUNCTION	AD	3 N	N E	
BUFFER AMP./DETECTOR/VARIAN/RESPONSE TIME OF ~2US	A	5 N	N C	
ENABLE/DISABLE/OUTPUTS/ARE 180DEG OUT-OF-PHASE	D	1 N	N C	
MULTIPLIER/FLUX/INTEGRATOR/OA./VARICAPS/MICROWAVE	A	6 Y	N C	52
MESFET./VCO./RETURN RATIO/RR/MICROWAVE ACTIVE CCTS	A	9 N	N	
OUTPUT AMP./LOAD MATCHING/HARMONIC REJECTION	A	3 N	N	
DETECTOR/COMPUTER INTERFACE/BEAM/PULSE	AD	9 N	C	
STATE VARIABLE/ACTIVE/NOTCH	AD	8		
50DB/VOICE-COMMUNICATIONS/ACOUSTIC MEASUREMENTS	AD	9 N	N C	
F\CLK=100KHZ/200KHZ	AD	2 N	N C	
PWM./VCO./ZERO-CURRENT-SWITCHED (ZCS)/CONTROL-RAMP	AD	5 N	N C	
POLYNOMIALS/INTERACTIVE/DEVICE LIBRARY/ANALYSIS	A	4 N	N C	
INTEGRATOR/LC./ACTIVE-RC./BIQUADRATIC/BANDPASS	A	5 N	N C	
HIGHER ENERGY/BETTER STABILITY/HEATING	A	3 N	C	
RC. TIMER/OSCILLATOR/PURGE/HEATER/CARBON MONOXIDE	A	5 Y	N C	45
LOW DISTORTION/STARTS RELIABLY/SHIFT IS +-0.02%	A	1 N	N C	E
ACTIVE FILTER/COUNTING/GASTROINTESTINAL MOTILITY	DA	5 N	N C	
MICRO LINEAR/ACTIVE FILTERS/CLOCK/CENTER FREQUENCY	AD	4 N	N	
LF. ELLIPTIC/NYQUIST/AUDIO/ADC./ALIAS/NOTCH	A	4 N	N C	
FET. MUTING/PS./OSCILLATOR	A	4 N	C	
OA. FILTER/BUFFERS/FM./LEVEL CONTROL/LINE DRIVER	A	6 Y	N	
AMP./FM. RECEIVER/RADIATION DETECTION/PLASMA	A	9 N	N C	E
LINE SYNCHRONIZATION CCT/SCHOTTKY GATES	AD	5 N	C	
5V, 3A REGULATOR/TNC./LED./<=\$15/AC. POWER/RFI.	AD	3 N	N C	
EASY-TO-BUILD/LED.S/VOLTAGE REGULATOR/RESISTORS	A	3 Y	N C	
LEVEL SENSING CCT/WATER TABLE/PROBE/MEASUREMENTS	A	5 N	N C	
PULSE TRANSFORMER/ISOLATED SWITCHING PS.S/MOSFET.	AD	5 N	N C	
BISTABLE MULTIVIBRATOR/FF./ENGINE/ARMED	AD	7 Y	N	
TRIP POINTS/INVERTING GATE/COMPARATOR	AD	1 N	C	
APPLE II+/ACOUSTIC ENERGY/POTATO CHIPS/SOUND	A	6 N	N C	
OSCILLATION PROBLEM		1		
WHEATSTONE/TWIN/LAMPS/RESISTANCE/BALANCE	A	2 N	N	
OPERATE TO 30MHZ & ABOVE/CHANNEL/AUDIO/RF. AMP.	AD	4 N	N	
EMITTER FOLLOWER/VCVS/HF./PS. FLEXIBILITY/GAIN	A	1 N	N C	
CLOCK/WAVEFORMS/TRANSISTOR/OA./TIMERS	AD	5 N	C	
MICROINTERPRETER/MICROCOMPUTER	D	4 N	C	
GAIN-OF-10 DIFFERENCE AMP./CMRR./CURRENT-SOURCE	A	6 N	N C	
KRC CCT/RC. FILTER/TRANSIMPEDANCE AMP.S/BW./HF.	AD	6 N	N C	
VOLTAGE TRANSFER FUNCTION/2.15/NARROW-BAND FM.	A	9 N	N C	
INTERFACE CHIPS/TRANSMITTER/RECEIVER/REFERENCE	A	2 N	N	
TRANSISTOR/DIODE/RFI./CLASS C/COIL/RF./LINK/BEAD	A	3 N	N C	
BUTTERWORTH/SIMPLIFYING	A	1 N	N C	
OPTOISOLATOR/PHOTORESISTOR/PHOTOCELL/REFERENCE	A	1 N	N C	

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THD./MOS./RC. BIQUAD FILTER/LOW ESR. CAPACITORS	AD	6 N	N	C	
SERIES-RESONANT CCTS/COIL/S.I.L./CMOS./OSCILLATOR	AD	7 Y	N	C	
CONTINUOUS-TIME/CONSTANT/SOFTWARE CONTROL/CODE	AD	2 N	N	C	
BATTERY/49MHZ TRANSCEIVER/100MW/RADIO/LIGHTER	A	3 N	N		94
FET. DRIVERS/MICROWAVE-TUBE PS.S/TRANSFORMER	AD	1 N	N	C	
DELAY/PRODUCED DIGITALLY/DMOS./SWITCHING	D	1 N		C	
PS./TEMPERATURES/COMPARATOR	A	3 N		C	
TRANSMITTER/RECEIVER/CPU./16-BIT/DMA./CRT./DRAM.	D	3 N	N	C	
SCHMITT/AMP./8748/8243/INTEL MCS-48/\$2500/SORTER	AD	5 N	N	C	E
SRAM.S/UP./80386/WRITE-BACK/IO. WRITE/INTERFACE	D	2 N	N	C	
ROTATING/DISC HOLES/LIGHT/DARK/SENSOR	D	1 N		C	
BAFFLES/OPEN/TEMPERATURES/6809/8 ROOMS	DA	2 N			
TOUCH PLATE		1			
OSCILLATOR/330KHZ CLOCK/SEQUENCE/BUTTERWORTH LPF.	DA	1 N	N	C	
DISK DRIVE/PRINTER/PLOTTER/ATN LINES	D	4 N		C	42
CW./USB/LSB/PERFORMANCE/RECEIVERS		3			
REGISTERS/IBM PC./SBC./120 IC'S	D	9 N	N	C	
COMPUTER/64K/LOW PARTS COUNT/UART./RAM./EPROM./PSB	D	8 Y	N	C	
COUNTING CCTS/AUDIO/AM. RADIO/TTL., DTL., OR CMOS.	D	4 Y	N	C	
TIMER/ALARM/STOPS AFTER ~20S/MICROSWITCH/PULSE	DA	2 N	N		
CMOS./DIVIDER/FREQUENCY/DAYS-&-DECIMALS	DA	4 N		C	
VELOCITY/PRESET LEVEL/CUFFS/TRANSDUCER/AMP.	A	2 N	N	C	
8.5MHZ/METALLIC FILMS/PIEZOELECTRIC/DC./FREQUENCY	AD	3 N	N	C	
ELECTRONIC MUSIC/SOUNDS/DIGITAL LOGIC/NOTE/TEMPO	DA	7 N	N	C	
SENSES/VISION/SAFETY/UP./TDM./PROTECTION/OBSTACLES	AD	5 N	N	C	
LED./50% DUTY CYCLE/POTENTIOMETER/CURRENT	D	1 N	N		
DIFFERENTIATING CCT/LOGIC/14-BIT BINARY/POWER/GATE	DA	1 N	N	C	
MULTIVIBRATOR/HEX INVERTER/SPIKES/12V/HEAT SINK	AD	2 Y	N	C	30
LAMP/RELAY/ENERGIZED/TRANSISTOR/CLOCK PULSES	AD	1 N	N		
MODULATOR-DEMODULATOR/IMPROVES ERROR RATES/DATA	DA	4 N	N	C	
MICROELECTRODE/RECORDING/BRAIN TISSUE/ARTEFACT	A	1 N	N	C	
PHOTODIODES/PLASMA TUBE/OPTICS	A	3		C	
GATE/FIRES/SWITCH/SHORT/BACK EMF./VALVE/TANK CCT	A	1 N	N	C	
DIODES/RESISTOR/INVERTER/BUFFER/4530/XOR	D	5 N		C	E
MICROCOMPUTERS/INPUT/PET/BBC/RAM.IO./EPROM./CPU.	D	9 N	N	C	
RAMP/SAWTOOTH/OPHTHALMOLOGY/BLINK RATE/TEAR FLOW	A	7 N	N	C	
RESISTANCE MULTIPLICATION/FACTOR OF 10000	A	2 N	N	C	
PMT./PAIR CRYSTALS/POSITRON EMISSION TOMOGRAPH	AD	4 N	N	C	
SELECTOR SWITCH/TUBES/MICROPHONE INPUTS/NOISE	A	3 N	N		
DISK REPRODUCTION/MUSIC/SWITCH/STYLUS/CARTRIDGES	A	7 N	N		
RS-232/RECEIVE DEMODULATOR/PLL.	A	7			
PROGRAMMING VOLTAGES/2364/ADAPTER/ZIF.	D	4 N			
UP./BIDIRECTIONAL DATA BUS/1.5W/3-STATE DRIVER	D	7 N	N	C	57
VARACTOR BRIDGE AMP./CURRENT-TO-VOLTAGE/TTX/PUMP	A	9 N	N	C	
PLEASANT TINGLING SENSATION/STROKE/NERVE/EMG./LED.	AD	3 N	N	C	E
TELEMETRY/COOLING/UHV PUMP/REFRIGERATOR	A	2 N		C	
0.1 TO 10.5NS/PROGRAMMABLE DELAY LINES/VDU/PROM.	DA	5 N	N	C	2
LAPTOPS/SINGLE-CHIP AT/IBM PC./AMD/LCD. SCREEN	D	7 N	N	C	3
	A	2 N	N	C	

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IC COMPARATOR/HYSTERESIS/CONTROLS A LOAD/SENSORS	AD	6 N	N	
		1		C
PHASE LOCK LOOP/PLL.		1		C
50OHM/SPECTRUM ANALYZERS & VHF. FREQUENCY COUNTERS	A	2 N	N	C
TUNGSTEN FILAMENT ATOMIZER/LOG AMP./COUPLING/TRACE	A	1 N	N	
UP-DOWN COUNTER/ANALOG SWITCHES/SPIKE/ATTENUATOR	DA	4 N	N	C
WAVEFORM CLIPPER/SCR./MOV.	AD	7 N	N	C
TRANSCEIVER/PLL./BFO./TR./SIDETONE OSCILLATOR	A	9 N	N	C
TMS320C25/TO INTERFACE SLOW MEMORY OR PERIPHERAL	D	1 N	N	
SOLID O ₂ /COIL/DISPLAYED ON AN OSCILLOSCOPE/60HZ	A	2 N	N	C 6/7
DRAM./REFRESH/CMOS./IBM BUS/ADDRESS	D	4 N		
LOADING & SAVING DATA/ROM./DECODER/BASIC/MOTOR	D	3 N	Y	
NOISE/CHAIN/56MHZ/FAST-FAMILY/FET. CW.-AMP.	DA	1 N	N	E/34
NO MATTER WHAT YOUR RIG'S MIXER/VFO.S/TTL./COUNTER	DA	5 N	N	C
FREQUENCY ANALYSIS/MODELING		4		C
WATCHDOG PULSES/FAILURE/FAULTY/MONITOR	D	1 N		C
RS/RESET-SET/LATCH/TRUTH TABLE/NAND/NOR	DA	7 N		C
DRUMS/SYNCHRONIZATION		2		
TTL. NAND GATE/MEASURING TIME INTERVALS/COUNTER	DA	1 N	N	C
ELECTROMAGNET/50HZ/IRON/FORCE/PHOTODIODE/AMP./LAMP	A	2 N	N	C
CAMAC/DRIFT CHAMBER/MEASUREMENTS/CHANNELING	D	9 N	N	C 61
OPTOELECTRONIC/RED/GREEN/OFF/RESISTORS/DIODE	DA	1 N	N	
CONTROL THEORY/ZEROING/AMP.	AD	3		C
COPY CW./KEYED	A	2		
LOGIC DISPLAY/PULSE/7 TO 10US/TRIGGER/DATA/EDGE	DA	1 N	N	
J-K		2		
GLITCH AMPLITUDE/ASYNCHRONOUS SIGNALS/TRIGGER/RC.	D	1 N	N	C
117VAC./AC. LOAD/GUIDE/DEVICE/CASE STYLE/RCA/ECG	A	2 N	N	C
COMPARATOR/OA.S/ZENER DIODE/SUMMING AMP.	AD	2 N	N	C
HYSTERESIS-GATE OSCILLATOR/MOMENTARY/TIME CONSTANT	A	1 N	N	C
EPSON HX20/PSION MICROCOMPUTER/UART./ULTRASONICS	D	2 N	N	
SYNCHRONISED & PHASE RELATIVE/DELAY LINE/30MHZ	D	1 N	N	
RETRIGGERABLE/CLOCK/HF. NOISE/TIME INTERVAL/LOGIC	D	2 N	N	C
PROGRAMMABLE/DECODER/ALARM DRIVER/COMPARATOR/FF.	D	5 Y	N	
QUAD EXCLUSIVE-OR GATE/ADDS ~3US TO THE WIDTH/50NS	DA	1 N	N	C
FLEXIBLE/RESISTIVE PLATE COUNTERS (RPC)/FERMILAB	D	9 N	N	C
MUX./OCTAL LATCH/BUFFER/RELAY/1-SHOT/MOV.S/~\$150	DA	5 Y	N	C
STABLE STATES/PASSIVE RESISTOR PULL-UPS/LOGIC	D	1 N	N	C
Z80/HOST-SYSTEM STROBE/TRIGGER MODES	D	6 N		C
SYNCHRONIZED WITH MAINS VOLTAGE/DISCRIMINATOR	AD	5 N	N	C
DRIVING/BEFORE IMPACT/PROJECTILE/TARGET/MCP.	D	3 N	N	C
MOSFET.S/TUNGSTEN INERT GAS (TIG)/PS.S/MMA/GTAW	D	6 N	N	C
IEEE-488/DMM./DVM./HP-85 COMPUTER/MICROBURET/DATA	DA	4 N	N	C
BCD./THUMBWHEELS/DAC./GATED INTEGRATOR/TRANSIENTS	AD	4 N	N	C
FIELD PATTERN/ELECTROMAGNETS/PHASE/DIRECTION	DA	1 N	N	C
POSITION/WIDTH ADJUSTMENT/BLANKING/FET./MONOSTABLE	AD	1 N	N	C
GATE VOLTAGES FOR FET. SWITCHES/POWERING OA.S	AD	1 N	N	C
CAPACITORS/RESISTORS/FOR INTEGRATION/RC./FREQUENCY	A	4 N	N	C
12 BIT ADC./APPLE/ADALAB INTERFACE/REED	DA	8 N		C 42

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LOCK IN AMP./RESPONSE SHAPING CCT/0-8GHZ/MICROWAVE	A	6 N	N	C	
DELAY/CLOCK/DATA/MUX.S/SPEED	D	1 N		C	
UP./SERIAL IO.S/TRANSMISSION	D	5 N			
BLEEPER/BURGLAR BUSTER/ANTI-TAMPER LOOP/DOORS	A	5 Y	N		
4/PHASED RF. CHANNELS/TTL./INTERVAL TIME COUNTER	D	5 N	N	C	
WIDEBAND/COMPLEX WAVEFORMS/DC. TO 100MHZ	A	2 N			
RINGING/DIGITAL LOGIC/INTERFACE FIXTURE/FF.S	D	7 N	N	C	
MOSFET.S/VOLTAGE-CONTROLLED VOLTAGE SOURCE (VCVS)	A	4 N	N	C	
BISTABLE CCT/BATTERY-PROTECTION CCT/U.M.A.S.E.	AD	6 N	N	C	E
DELAY TIME/0.4S/JFET./OA./WIDER	A	1 N		C	
FAST SLEW RATE/HIGH-CURRENT/HV.	A	8 N		C	
TRANSMITTER/CW./CMOS./RIGS/~\$10.00/TRANSISTOR	DA	2 N	N	C	
TELEPHONE/OSCILLATOR-INTERRUPTOR/RELAYS/RING/QUIET	AD	3 N	N	C	
AUTOMATIC-MANUAL/MICROPHONE/1KHZ TONE/MONOSTABLE	A	7 Y	N		
SIGNAL-PROCESSING/DETECTING/LIGHT/ACTIVE FILTER	DA	6 N	N	C	
ELECTROMAGNET/AUTOMATIC REFLEX HAMMER/POTENTIALS	A	3 N	N	C	
PTT. RELAY/RADIO-CONTROL SYSTEM	AD	6 N			
1-SHOTS/AC. COUNTER/CONDITIONER	DA	7		C	
DIGITAL TONE MODE SELECTION		1			
FF.S/5-STAGE JOHNSON COUNTER/CHAIN/ASTABLE	DA	4 N	N	C	
DB-25 CONNECTOR/MONOSTABLE TIMERS/GATES/PS./LED.	DA	6 N	N	C	
RADIOACTIVITY/GAMMA RAYS/ALPHA/BETA PARTICLES	AD	4 Y	N	C	
ADJUSTABLE/"SPEECH" RANGE BANDPASS/VOICE FILTER	A	3 Y	N	C	
DUAL-RANGE SPEED CONTROL/TIMER	A	3 Y			
IR. TRANSMITTER/PHONEY BEEPER	A	4 N		C	
SCHMITT TRIGGER/AUDIO PREAMP./TAPE	A	1 N		C	
TO 50KV/PULSED EXCITATION/INEXPENSIVE/THYRISTOR	A	3 N	N	C	39
FF./TRIGGER/OA./INTEGRATING/SYMMETRY/STIMULI/AUDIO	DA	2 N	N	C	
WARBLING/DIODE CHARGE PUMP/SWEEP/TONE	A	5 N			
EAR-PIERCING/ULTRASONIC SOUND/ALARM/THEFT/118DB	A	7 Y	N	C	
PIEZOELECTRIC BUZZER/FALSE TRIGGERING/TRANSIENTS	A	1 N	N		
VOLTAGE/TRANSISTOR/REGULATOR/+6-12V/LIMITING	A	2 N	N	C	
POWER CONTROLLERS/SCR.S/PROTECTION/SNUBBER CCT	AD	9 N	N	C	E/88
ELECTROPHYSIOLOGICAL/DMA./ARBITRATOR/FIFO./BUFFFER	D	9 N	N	C	
OPTO INTERRUPTER/BCD.-TO-DECIMAL DECODER/RF.	DA	9 N	N		
CLOCK/TTL./ASCII./RTTY./BC/SERIAL-IN-PARALLEL-OUT	DA	5 N	N	C	3
PMT./R928/MONOCHROMATOR/EMISSION SPECTROSCOPY/MIP	AD	8 N	N	C	25
FET./LATCHING RELAY/MULTIVIBRATORS/MODES	A	6 N		C	
LOW-COST/VERTICAL AMP./FET./CRT.	A	2 N			
1KHZ MODULATION/OSCILLATOR/DIODE DETECTOR/RF./VHF.	AD	4 N	N		
PROGRAMMABLE DECADE DOWN COUNTER (PDDC)/DIVIDER	D	7 N	N	C	
CPU./RAM.S/EPROM.S/DECODER/Z-BUS/NETWORKS	D	3 N		C	
MODULATION VOLTAGE/AMP./RESISTANCE/BALANCE/CURRENTA		4 N	N	C	E
INTERFACE/COMPLEX SOUND GENERATOR	DA	4 Y			E
SQUAREWAVE OSCILLATOR/ALARM/NAND SCHMITT TRIGGER	AD	3 N	N	C	
6802-BASED/PROCESS CONTROL/INDUSTRIAL/RELAY/TIMER	AD	7 N	Y	C	
NICD.S/TH-21AT/CURRENT/LED./180MA/110V AC./12V DC.	A	3 N	N	C	
TRI-COLOR LED.	A	2 N		C	
THYRATRONS/THYRISTORS/DISCHARGE TUBE	A	4 N		C	

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LED. READOUT/RECEIVED/SWLS/DITS/DAHS/SW.	DA	5	N		
DAS./CHERENKOV RING IMAGING DETECTOR/FASTBUS/TRIM	A	9	N	N	C
POWER SOURCES/ANTENNAS/TOWERS/MASTS/VSWR./LINES	A	9	N	N	
CUTOFF FREQUENCY/PASSBAND FLATNESS/IMPEDANCE	A	8	N	N	E
REGULATOR/66MA/100MA/250MA/500MA	A	2	Y		E
TELCO BILLING TIMER/REDUCE TOLL CHARGES 15%/LED.	DA	4	N	N	C
RANGE OF 10V/UP TO 100KHZ/COMPARATOR/SWITCHES	A	1	N	N	
SLO-SYN/PHOTOGRAPHY/TELESCOPE/CMOS. TIMER/BIPOLAR	DA	5	Y	N	C
ULTRASHORT PULSES/FAST MEASUREMENT/INTERFEROMETEFDA	DA	4	N	N	C
LEAD ZIRCONATE TITANATE/SOUND/PULSES	A	3	N		C E/42
HIGH INPUT IMPEDANCE/50 OR 75OHM TRANSMISSION	AD	4	N	N	C
FILTER RESPONSES/AMP./DISPLAY/OSCILLATOR/TIMERS	AD	8	N	N	C
ON-CHIP OSCILLATOR/55KHZ/INDUCTOR/100MA/POWER	A	1	N	N	C
REFERENCE SIGNAL/2ND HARMONIC/NOISY ENVIRONMENTS	A	4	N	N	C
TUNGSTEN WIRE/FEEDBACK/TC./HEATING CURRENT	A	4	N	N	C
LED. BARGRAPH/8-POINT/OCTANT/NAVIGATION/FIELD	AD	5	N	N	C
SCHOTTKY DIODE/EFFICIENCY/75%/PASS TRANSISTOR	A	5	N	N	C
AMP./AC.-WAVEFORM DISTORTION/"GHOSTING"/"SHADOW"	DA	1	N	N	
2.1V BATTERY/END-OF-LIFE/2 AA CELLS/SCHOTTKY DIODE	A	1	N	N	C E
SQ/QS/SURROUND SOUND/CONCERT HALL		7			
		1			
		4			
20MA/VOLTAGE-DOUBLER CCTS/LESS EFFICIENT/FEEDBACK	A	1	N	N	C
PULSE-HEIGHT DISTRIBUTION/GAMMA RADIATION/BISMUTH	AD	8	N	N	C 7/61
TEST SYSTEM FOR PROBE IMPEDANCE MEASUREMENTS/BRAIM	A	7	N	N	C
CONTACT THERMOMETER/THERMOSTATED BATH/WATER	A	1	N	N	C
LINEAR CONTROLLER/SWITCHER/TRANSFORMER	A	2	N		C
THD. BELOW -75DB/+-.3.7V CLAMPING VOLTAGES/LIMITS	A	2	N	N	C
SWITCHING-REGULATOR/STEP-DOWN/45KHZ/MOSFET.	A	2	N	N	C E
PIN PHOTODIODE/COUNTER/RF./LIGHT/MODULATION/TEO\2	AD	8	N	N	C
MUTE INPUT/CONTROL/LOGIC/SOURCE SELECTION	AD	6	N	N	C
CHAOS/ATTRACTORS/PERIOD-DOUBLING/CHUA'S CCT	A	8	N	N	C
WAVE-SHAPING CCTS/LV./MOS. OTA./SWITCHING/PERIOD	A	9	N	N	C
MICROCOMPUTER/FLUX/CORE/SWITCHING ANGLE/HARMONIC	A	6	N	N	C
CONDITION/BATTERY/CHARGER		2			C
PBX.S/ISDN./DRIVE CCT OFF CHIP/DPSK./IO./DATA RATE	AD	5	N	N	C
PROGRAMMABLE/STROKE/VOX/BCD./PULSE/DAC./LED.	AD	6	N	N	C
TRIAC FIRING PULSES/AND GATE/555 20KHZ OSCILLATOR	AD	4	N	N	C
STATUS-INDICATOR/VMOS./BATTERY-POWERED	A	1	N		C
AMP.S/ISOLATE & BUFFER/MULTIVIBRATOR/CURRENT PULSE	AD	4	N	N	C 25
ON-HOOK & OFF-HOOK SENSING/AC. LOOP TERMINATION	AD	7	N	N	C
STEPPER MOTOR/HEAVY METALS/POLAROGRAPHIC ANALYZERDA	DA	5	N	N	C
DIGITAL/TRANSMITTER/DRIVER/PAGING SYSTEM	AD	4	N		C
HAMSOFT-BOARD/60MA/TELEPRINTER	DA	2			
HIGH QUALITY DESIGN/BURST		3			
CATCH DIODE/PWM./DARLINGTON PAIR/ZENER/CROWBAR	A	1	N	N	
ISOLATED AMP./ELECTRODE/BODY/OA.	A	5	N	N	C
GATE CURRENT/RECOMBINATION TIME CONSTANT/CARRIERS	A	6	N	N	C
AT 1A/88%/15W (3A AT 5V)/BOOTSTRAP/INDUCTORS	A	2	N	N	C

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VOICE CONTROL PRODUCTS/GAIN/SENSITIVITY/TRIAC/LED.	AD	4	N	N	C	
100HR ON A PAIR OF BATTERIES/2 9V/OSCILLATOR/30KHZ	AD	2	N	N	C	95
	AD	7	N	N	C	
LOW-POWER/CONVERTER/BIPOLAR/CHARGE PUMP/SPLITTER	A	4	N	N	C	
VISUALLY HANDICAPPED/VIDEOTEX/BLIND/UP./COMPUTER	AD	9	N	Y	C	
1-CHIP AM. RECEIVER/SW./RADAR/PULSE/FET.S/MIXER	AD	1	N	N	C	
INDUCTANCE/INDUCTOR/CHOKE/OSCILLATOR/COMPARATOR	A	1	N	N		
SWITCHING REGULATOR/MOSFET.S/EMI.	A	6			C	
DUFFING OSCILLATOR/CLOCK/PERIOD DOUBLING/NOISY	AD	7	N	N	C	E
HALF-DUPLEX MODEM/NRZ./CVSDM./LC.-LADDER/VOICE	AD	2	N	N	C	
ADC./VIDEO/~\$150/MOS./CARDIAC PULSE/BLOOD VESSELS	DA	3	N	N	C	E
GPIA/ULTRA-HIGH-VACUUM (UHV)/IEEE-488 BUS/SIMS/MCU	DA	9	N	N	C	
POSITIVE OR NEGATIVE CURRENTS		2			C	
MSI./LSI./FEW MICROWATTS/ADC./READOUT/POWER METER	DA	9	N	N	C	
IO. PORT/DISPLAY/KEYPAD/2KX8 BIT/EMBEDDED MPU.	D	1	N	N		E
405-LINE/625-LINE RECEPTION/TRIODE SYNC SEPARATOR	A	1	N	N		
SPEECH/LED.S/VOICE CONTROL PRODUCTS/8/COMMANDS	AD	9	Y	N	C	
	A	2	N	N	C	
LIGHT/MICROCOMPUTER/IMMUNOGLOBULIN G/ADC./DATA	DA	9	N	N		39/42
BLADDER FUNCTION/OPTICALLY/VCO./CATHETERISATION	DA	3	N	N	C	E
CIRCULAR/EMC VERTEX DETECTOR/1100 TUBES/MUON	AD	9	N	N	C	61
EXCLUSIVE-OR GATE/CLOCKED/DATA LINES/DIODES	D	2	N	N	C	
ECL./TTL./NIM/SUPPRESS DRIFT FIELD DISTORTIONS	AD	5	N	N	C	
FEEDBACK TO SPEED UP/RISE TIME/ELECTRODES/BATTERY	A	4	N	N	C	
VOLTAGE-INVERTING MODE/CONSTANT CHARGE CURRENT	A	1	N	N	C	
UDLT/UNIVERSAL DIGITAL LOOP TRANSCEIVER/PCM./LINK	DA	6	N	N	C	
ADC./MONOLITHIC/135MW/BURIED ZENER	AD	2				
MESFET./CAD./4-THROW/RF. BYPASS CAPACITORS/CMOS.	DA	3	N	N	C	
CHIRAL BIOMOLECULES/TJ/NOISE/OPTICS/PSD./TWIN-T	A	9	N	N	C	
APPLE II/DIFFERENTIAL INPUT/BUS/COMPUTER	AD	7	N		C	
INTERFACED/FF./TRANSMISSION GATES/DRY/WET BULB/RH.	DA	7	N	N	C	
SCAN DIRECTION/CONTROL/VOLTAGE LIMITS	A	9	N		C	42
120HZ SAWTOOTH/RAMP/LV. LAMP/TRIGGER PULSES/SWITCH	A	2	N	N	C	
DAC./RAM./SUBTRACTOR/STEPPER MOTOR/BICOLOR LED.	DA	3	N	N	C	
LOW FORWARD VOLTAGE DROPS/\$11 EACH	A	1	N			
1KHZ/DECODES/RECORDER/AUDIO/STEREO/JACK	D	1	N			
GATE-TRIGGERED/OFF, HALF POWER, & FULL POWER/PS.	AD	1	N	N	C	
LIMITERS/REFERENCE VOLTAGE INPUTS/ROUTES/PRECISION	AD	1	N	N	C	
IMPROVED THERMAL STABILITY/EMITTER FOLLOWERS/FAST	A	4	N	N	C	
ADC./REMOVE THE UART. FROM YOUR SERIAL CARD/BASIC	DA	4	N	Y		
CONSTANT PRESSURE OVERRIDE CONTROL/FLOW RATE/8-BIT	AD	8	N	N		
VOLTAGE-CONTROLLED/MIXER/COUNTER/LATCH	DA	1	N		C	
VIRTUAL OSCILLOSCOPE/QUANTIZATION/A-D LAB	AD	5	N	N	C	
POWER TRANSISTORS/REGULATOR/COMPARATOR/FILTER	D	3	N	N	C	
PROGRAMMA 2/BCD./CMOS./NAND/AND/NOR GATE/LATCH	D	5	Y	N	C	
RESISTANCE MEASUREMENT/OA./IA./ADC./ALLOYS/FURNACE	AD	5	N	N	C	
SLEW INDUCED DISTORTION (SID)/AUDIO/DARLINGTONS	AD	8	N	N		
DATA SELECTOR/COMPARATORS/BEAM/COMPUTER-CONTROL	AD	9	N	N	C	61
4-QUADRANT IC MULTIPLIER/DIVIDER/GILBERT TECHNIQUE	A	1	N	N	C	

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DOUBLE-T/WINDOW DISCRIMINATOR/HALF-STEP/PROTECTION	A	5	N	N	C	
NUCLEAR POWER PLANT SIMULATOR/CONVERTER	DA	9	N		C	
ADC./7-SEGMENT LED./PASS/POWER/SWITCHED/IO./EPROM.	DA	5	N	Y	C	
OA./QUANTIZATION NOISE/ANTIALIASING/JITTER/CLOCK	AD	9	N	N	C	
PWM./OVERCURRENT PROTECTION/FEEDBACK/OPTO-COUPLE	FAD	9	Y	N		42
DRIVE LONG SHIELDED CABLES/DRIVE/CAPACITIVE LOADS	A	7	N	N	C	
BIPOLAR/VOLTMETER/BASIC PROGRAM/DATA	AD	4	N	Y	C	
FFT./MICROPHONE/HARMONIZER/REVERB/ECHO-EFFECT	DA	9	Y	Y	C	
FOLLOWER/RC./INVERTER/2ND-ORDER/NONLINEARITIES	A	9	N	N	C	
MEMORY MANAGEMENT UNIT/OS.S & HIGH-LEVEL LANGUAGES	A	9	N	N	C	25
RELAY TRANSIENTS/SPIKES/INDUSTRIAL/COIL	A	2	N			
MODULO-6 COUNTER/UP TO 1KHZ/DECODER/MONOSTABLE	AD	1	N	N	C	
MULTIKILOWATT/GOOD DYNAMIC RESPONSE	A	6			C	
AM.-FM. RECEIVER/CMOS./J-K FF./TRIGGER PULSE	AD	2	N	N	C	
ELECTRICAL WIRING/LINE/DATACOMMS/COMMUNICATION	AD	3	N	N	C	
4-FOLD OVERSAMPLING/FILTER/MUTE RELAY/KILL/AUDIO	AD	5	Y	N		
TRANSMITTER/KEY LINE/LIGHT/PTT. SWITCH/1MOHM/100UF	A	1	N	N	C	
HALL EFFECT/PERMALLOY/SIMPLE/MOVEMENT DETECTION	A	2	N	N		
LPF./DAC./AUDIOPHILE/DIGITAL SOUND/OA.	A	9	N	N		
REGULATOR/DAC.S/MOD./RCA CONNECTORS/SOUND/IMPROVE	A	5	N	N		
PULSE TRANSFORMER/AUTOMOBILE IGNITION COIL/HV./4KV	A	3	N	N	C	E/39
2ND ORDER/JFET. INPUTS/SWITCHES/CLOCK	AD	1	N			
LOW NOISE/ULO/GAASFET./IF. AMP./UHF./2304MHZ	A	2	N	N	C	
INS8070/SIGNAL-CONDITIONING/ERRORS/ZEROES/DRIFT	DA	5	N	N	C	
NETWORKS/HIGH INPUT IMPEDANCE/TRANSFER FUNCTIONS	A	6	N	N	C	
MIXER/AMP./TRIGGER/HISS/HUM/SIGNAL/SMOOTHING/DECAY	AD	6	Y	N		
ENERGY/VERTEX/CHARGED PARTICLE/HADRON/MUON CHAMBE	A	9	N	N	C	39
DIGITAL FILTER/DELAY CCT/MULTIPLIER	A	7	N		C	
COMPARATOR, 2 D FF.S, & LOGIC GATES/OA.S	AD	3	N	N	C	
RESISTANCE/AMPLITUDE CONVERTER/OA./FEEDBACK/PC.	A	7	N	N	C	
HEATER/SENSING DIODES/INTERFACE/C64/DAC./ADC.	AD	5	N	N	C	
IA./CURRENT FOLLOWERS/JFET. OA.S	A	3	N	N	C	E
MICROSTRIP/LOW INTERMODULATION	A	2			C	
NICD./LIGHT/CHARGING RATES	A	5	N			
SENSOR/INFORMATION ON POLARITY/MAGNETIZATION CURVE	A	5	N	N	C	
SH. CCT/4 OA.S/4 QUAD-SWITCH/BILATERAL	AD	2	N	N	C	
NEGATIVE FEEDBACK/LOW SIGNAL-STRENGTH	A	1	N			
CROSSTALK & SEPARATION/HIGH-POWER LOAD BANK/DVM.	A	7	N	N		
PMT./SPECTROMETER/TRIGGER/DETECTOR	A	2	N	N	C	
SPICE/GAINS 5 TO 10 TIMES HIGHER/MILITARY/FET.S	A	8	N	N	C	
DAC./UP./ELECTRODES/DIFFERENTIAL AMP./FEEDBACK	AD	5	N	N	C	
LASER-TRIMMED HYBRID PARTS		2			C	
CMOS./CAPACITOR/CHARGE/LOW-SPEED/COUNTER/ACCURACY	AD	4	N	N	C	
TTL./ECL./FEEDBACK/SMALL PARASITIC CAPACITANCES	AD	4	N	N	C	
FREQUENCY CONTROL/VOLUME/MODES	AD	4				
PS.S/DC.-TO-DC. TRANSFORMER	A	7	N		C	
TRAC/CONTROL FILE/COMPUTER LISTING/SAWTOOTH/ESR.	A	8	N	Y	C	
RAYTHEON/BIT INC./RAM./IEEE 960/HANDSHAKE/25MHZ	D	5	N	N	C	
OSCILLOSCOPE/WAVE ANALYZER/FEEDBACK	AD	7			C	

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LIGHT PULSE/+-100PS/EXCIMER/TAC./DELAY TIME/MOTOR	AD	3 N	N	C	
REGENERATIVE FEEDBACK/SPIDERWEB COILS	A	6 N		C	42
FAST PHOTODIODE/DETECTOR/OA./FAST BUFFER/CAMAC	AD	6 N	N	C	91
MOSFET.S/780V PEAK-TO-PEAK/2.9GHZ/GAIN OF 430	A	9 N	N	C	
TRANSISTORS/SOLAR CELLS/SPECIMEN	A	4 N		C	
BUZZER/GAIN IS ~4000/NPN POWER TRANSISTOR/VANES	A	2 N	N		E/57
BYPASS DIODE/COILS/TIMING CCT/SUPERSONIC/PS./MPD	AD	4 N	N	C	
GENERAL PURPOSE ANALOGUE PROCESSOR/HOLD CAPACITO	AD	3 N	N		E
FET./1-SHOT/CONSTANT CURRENT/PULSES	AD	5 N		C	
TO AVOID REPETITIVE ADJUSTMENTS IN THE DELAYS	A	5 N	N	C	
AMP./QRM-CRUSHER/CW./FET. OA./S-METER CCT/DX	A	5 N	N	C	
VACUUM MICROELECTRONICS/FIELD EMITTER ARRAYS/FEA'S	AD	2 N	N	C	
WILL DRIVE +-4.5V INTO 50OHM/LOW-IMPEDANCE LOADS	A	1 N	N	C	
BEGINNING/END OF TAPE/OPTO SWITCH	AD	8			
WIEN-BRIDGE OSCILLATOR/WATER-CONTENT/DETECTOR/PSD.	A	5 N	N	C	
NOISE-FREE MUSIC		5			
THRESHOLD/AMP./CMOS. SWITCH/LED./GAP/DUAL OA.	A	4 Y	N		
QUAD 8-BIT DAC./CPU./ADD-IN CARDS/COMPARATORS	AD	4 N	N	C	
RECTANGULAR-WAVEFORM GENERATOR/2750HZ/BATTERY	A	1 N	N		
FAST/NONSEALED/PF./LIGHT RADIATION/CONVERT/ENERGY	A	4 N	N	C	
1.5A/5-20V/VOLTAGE REGULATOR/TOROIDAL TRANSFORMER	A	3 Y	N		AJ
TDC./MEASUREMENT/GOOD SPATIAL RESOLUTION/CELL	A	3 N	N	C	
VERNIER/POTENTIOMETER/RESISTANCE/NETWORK/RANGE	A	2 N	N	C	
BISTABLE/DEBOUNCE/RECTANGULAR/TRIANGULAR SIGNAL	AD	1 N	N		
CIRCULAR DICHROISM/PIEZOELECTRIC/POWER AMP.	A	3 N	N	C	
AMPLITUDE STABILIZATION/SHUNT DIODES/RECORD LEVEL	A	5 Y	N		
12 BIT ADC./SH./DAC./TRANSDUCER PROBE/BATH	AD	5 N	N	C	
TERNARY COMPOUND SEMICONDUCTORS/ELECTROLYSIS	AD	3 N	N	C	25
HIGH-CURRENT/CURRENT-SENSING/OUTPUT-BOOST/DAC.	AD	9 N	N	C	
CONTROLS/TAPE RECORDER/SWITCH ON/BIFET. OA.	A	4 Y	N	C	
TIME-CONSTANT CCT/VOLTAGE-TO-CURRENT CONVERTER	A	3 N	N	C	
SCHMITT TRIGGER/BI-STABLE/RELAXATION/TRIANGULAR	A	5 N	N	C	8
GPA		2		C	
WAVERING/TMOS. FET./MOSFET./VLF. PHASE-SHIFT	A	3 N	N	C	
CLOCK/FILTER/AUDIO AMP./AUDIBLE/MOS./SAMPLING	DA	5 Y	N	C	
ROTARY/WORD/FUSE/ADDRESSES/LED.S/BURNING OUT/CMOS.	AD	4 N	N	C	
PRECISION MONOLITHICS, INC./LITTLE DRIFT/AMP.S	AD	2 N	N		
ADC./SCHMITT TRIGGER/DATA-ACQUISITION/CORROSION	AD	7 N	N	C	
WEAK/DISPLACEMENT/LINEAR/MAGNETIC COMPASS/MOVEMENAD	AD	9 N	N		42
MASTER/REMOTE CONTROL/WIRING/FILTERING	DA	4 N		C	
SQUARE WAVES/FREQUENCIES/DIMMER/PHOTOCELL/LAMP	A	3 Y	N		
COIL WINDING/ANTENNA/BC. BAND/CAPACITOR	A	4 N	N	C	
	A	1 N	N	C	
OMEGA TRANSMITTER/LIGHTNING/SIGNALS/LOOP ANTENNA	A	5 Y	N	C	
RAMP/HORIZONTAL SWEEP VOLTAGE/AC. OSCILLOSCOPES	A	2 N	N	C	
ON-OFF	A	1 N	N	C	
COMMUNICATION/CCITT. I.430/CODES/MULTIVIBRATOR	AD	2 N	N	C	
IMPACT SHOCKS/PISTON/HELIUM/TTL./DOWN COUNTER/FF.	DA	2 N	N	C	
TELEPHONE/CHECK FOR MESSAGES/RING VOLTAGE	A	2 Y	N	C	

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STAR-DODECAHEDRON/CHRISTMAS ORNAMENT/QUAD AMP.	AD	7 Y	N	C	
SCR./3RD BRAKELIGHT/OA.S/LAMP/AUDIBLE/VISUAL/UJT.S	AD	6 N	N	C	
SCHMITT TRIGGER/10KHZ TO 40KHZ/CMOS. COMPARATOR	A	2 N	N	C	
ELECTROSTATIC PROBE/CURRENT/VOLTAGE/50US TO 50MS	A	9 N	N	C	
BW. OF 200KHZ/CURRENT-SHARING RESISTORS OF 10OHM	A	1 N	N	C	
PREAMP./MCP./ADC./PEAK/SH.	AD	5 N		C	
FILAMENT LAMP/THERMOCOUPLE	A	4			
CHOPS/STEP-UP TRANSFORMER/CURRENT SWITCH/UP TO 3A	A	2 Y	N		
ACCEPTS A SINE-, SQUARE-, OR TRIANGULAR-WAVE/PLL.	AD	1 N	N	C	
INTERMITTENT PROBLEMS/FAILURES/ANALOG METERS/DVM.S	AD	7 N	N	C	E
VARIABLE GAIN/INSTRUMENTATION/SIMPLE/INEXPENSIVE	A	2 N	N	C	
SINGLE & MULTIPLE-TRACK/PULSE HEIGHT/NIM/MAGNET	A	9 N	N	C	
FLICKERING/MEMORY/LIGHTNING/PIEZO	AD	2 Y	N		
IO./ADC./DAC./ATE./DATA TRANSFER/MPU./HANDSHAKING	D	6 N	N	C	
COMPARATOR/JFET. INPUT OA./RC. NETWORK/20HZ/20KHZ	A	1 N	N	C	
CELL VOLUME/SIZE DISTRIBUTION/PULSE SIZING	A	3 N	N	C	
HYSTERESIS COMPENSATION/SCHMITT TRIGGER/RECORDINGS	AD	5 N	N		28
LOW-POWER OSCILLATOR/CMOS. QUAD ANALOG SWITCH	AD	1 N	N	C	
SET-RESET (S-R) BISTABLE/LOUDSPEAKER/JINGLE BELLS	AD	2 Y	N		
TRANSISTOR TESTER/VOLTMETER/CAPACITANCE CHECKER	A	4 N	N	C	
MONOSTABLE/CONTROL BY ANY EXTERNAL SOURCE/DRIVER	AD	2 N	N	C	
PHOTODETECTOR/EM. CHOPPER/DETECTION/DERIVATIVE	AD	3 N	N	C	
TRIANGULAR WAVE OSCILLATOR/DC./LIMITER/MOBILITY	A	4 N	N	C	
PRESSURE-REVERSAL/COUNT & SIZE PARTICLES/COULTER	AD	8 N	N	C	
SINGLE-ENDED SUPPLY/OA./CERAMIC/LV.	A	8 N			
REFERENCE/ERROR VOLTAGE/OA./CELL/PRESSURE/ZIRCONIA	A	4 N	N		
RADIOACTIVITY/115V SECONDARY/DIODES/ANODE/IR.	A	2 N	N	C	
SWITCH/OSCILLATOR HT./150KV ACCELERATOR/BEAM	AD	3 N	N	C	
BURST/GENERATOR/GAMMA EMISSION/NAI(TL) DETECTOR	A	9 N	N	C	
AM. BC. BAND UP THROUGH THE 10M/RADIO/RECEIVER	A	2 N	N	C	
NOISE REDUCER/IMPULSE/LIMITER/SQUELCH	AD	9 N			
MEASUREMENTS/IMPULSE OR STEP SHAPED WAVEFORMS/APLA	A	3 N	N	C	
12V DC. SUPPLY/PCB./VERO STRIPBOARD/1V P-P	A	1 N	N		
DISKETTES/TABS/FLOPPY-DISK CONTROLLER (FDC)	DA	7 N	N		
TRANSDUCERS/LOUDSPEAKERS/FET./RESONANT/TRANSFORM	A	5 N	N		
HEAT/SCR./FIRING/BILATERAL SWITCH	A	2 N			
CRYSTAL/LC./COLPITTS VFO./HARTLEY/PIERCE	A	6 Y			
FRINGE COUNTING & RECORDING/FABRY-PEROT/ETALON	A	6 N	N	C	28
FREQUENCY/TRANSISTOR/SOUND	A	1 N		C	
ACCU-MEMORY/MORSE/TRANSMITTER	A	1 N			
COMPARATOR/SATURATED/CUT OFF/ZENER	A	2 N		C	
COLI/TREATED AS AN INDUCTOR/RELIABLE	A	1 N		C	
WIDEBAND/TRANSMISSION-LINE DRIVERS		2		C	
HEAVY CURRENT/VARIETY OF INPUTS		3			
CAN BE CUSTOM-TAILORED/ATTENTION		2		C	
FLOATING INDUCTORS/GYRATOR/TRANSISTORS	A	4 N		C	
ANTENNA/MULTIBAND/TOWER/20M YAGI	A	5 N			
OUTPUT RIPPLE/LT RECTIFIER/HALF-WAVE/FULL-WAVE	A	1 N	N		E
SPECTROSCOPY/PULSED ILLUMINATION/REDUCES LAG	A	2 N	N	C	

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AMP./TEMPERATURE/ION CYCLOTRON/E FIELD/RF. EXCITER	A	3 N	N	C	
SIDETONE/CHEAP/SPEEDS ADJUSTABLE/DATA/BASIC/MICRO	AD	2 N	Y	C	
BAND SWITCH/RIG/RECEIVING/TRANSMITTING	A	7 Y			
OUTPUT/RESISTANCE/20:1 T/OFF REDUCTION	A	2 N	N	C	
COMPRESSION CCT/ADJUSTABLE/AUDIO FET./FERRITE BEAD	A	1 N	N	C	
DISABLING/FURTHER INSTRUCTIONS/COMMUNICATE/FIFO.	D	7 N	N	C	
CABLE IMPEDANCE/REFLECTED/TERMINATION	D	2 N			
DYNAMIC RANGE/BEYOND/RATED POWER		5			
1 TO 10KHZ/RF./SOUNDS/VLF.S/EM. ENERGY/LIGHTNING	A	9 N	N		
DC. PUMP/WINDSHIELD-WASHER/MOTOR/RESERVOIR/TUBING	A	3 N	N		
NANOSECOND LUMINESCENCE DECAY TIME/DL242/ADC./DAC.	AD	3 N	N	C	
TRAVELING/HARMONIC/SINE WAVES/LIQUIDS/REFLECTIONS	A	8 N	N	C	
PRINTER/SYNC PULSE/MONITOR/6502 UP./HARD-COPY	AD	4 N	Y	C	
BEAM/TIME/FLOW/VERY LOW COST/SPINNING/VELOCIMETER	D	3 N	N	C	
WIDE/FREQUENCY/VIDEO AMP./FEEDBACK	A	1 N		C	
ISOLATION BARRIER/SSR.S/SCR.S/OPTOCOUPERS/TRIAC	AD	8 N	Y		
MEASURING/BEPER/ALARM/LCD. DISPLAY/PORTABLE/POWER	DA	9 Y	N	C	
CURRENT LEVELS <=1MA/NEGATIVE CURRENT MIRROR/NCM	A	4 N	N	C	
		1		C	
FIBER-OPTIC/COAXIAL CABLE/TWISTED-PAIR	D	1 N		C	
ZERO OFFSET/DELIVERS 20V P-P		1	N	C	
REVIEW/TRANSMITTER/SELECTIVITY/CW./SSB./FM.	AD	2 N			
10^-11-10^-6A/PULSED GRID MODULATION/FEEDBACK/OA.S	A	4 N	N	C	
COMPUTER/WORDS/PHRASES/SENTENCES	D	8			
BW. >100MHZ/FAST SWITCHING/GAINS OF 6, 12 & 18DB	A	4 N	N		
TTL./CAMAC REGISTER/LATCHES/LOGIC/STREAMER TUBE	D	5 N	N	C	
100DB/GAIN-OF-10 DIFFERENCE AMP./BALANCE	A	2 N	N	C	
ELECTROMETER-GRADE/OA./ULTRA-LOW	A	1			
CURRENT-FEEDBACK OA./COMPARATOR/DIFFERENTIAL-INPUT	AD	2 N	N	C	
PASS BAND/STOP BAND ATTENUATION/IMPEDANCES/LF.S	A	1 N	N	C	
MEASURING/INSTRUMENTS/BALANCING/AMP./FEEDBACK	A	1 N	N	C	
MEASURING INTERNAL FRICTION & YOUNG'S MODULUS	A	8 N	N		
INDUSTRIAL/VERTICAL-CURRENT POWER	AD	6		C	
DIODE/BRIDGE/RESONANT/50KHZ/120V, 500W, 60HZ	A	9 N	N	C	
DOUBLE-BALANCED/FREQUENCY/NMR./BROADBAND	AD	9 N		C	
SINUSOIDAL/CARRIER DETECT/COMMUNICATIONS	AD	6 N		C	
LIGHTING/SUPERBULB/RF./EMI. FILTER/LAMP/DISTORTION	A	1 N	N		57
NOTCH/WAVEFORM GENERATOR/LOW-PASS	A	5			
MAGNETIC BUBBLE/LASER/FARADAY EFFECT/TEMPERATURE	AD	5 N	N	C	
FSK. TONES/COMMUNICATION/PC./SERIAL IO./RS-232C	AD	9 N	N	C	
FREQUENCY/LOCK & CAPTURE RANGE/RATIO/STABLE	A	1 N	N	C	
PIN/AUTOMATIC POWER CONTROL/FEEDBACK/DETECTOR/3MWA		9 N	N	C	12/42
IO.-SIGNAL POLARITIES/VCO./FSK. GENERATOR/NAND	AD	9 N	N	C	
TIME-DOMAIN MEASUREMENTS/MAGNETISM/FEEDBACK	AD	9 N	N	C	28
FORWARD CONVERTER/RECTANGULAR-SHAPED/200KHZ/FILTE	A	2 N	N	C	
AM./SSB./EMITTER-FOLLOWER/GAIN/IMPROVEMENT	A	1 Y	N	C	37
BUTTERWORTH/FILTERS/NULLATOR-NORATOR/HPF/LPF.	A	9 N	N	C	
LATCH/MUX.S/BUS/COMPUTER/128 CHANNELS	DA	9 N		C	
AUDIO NOTCH/UP CONVERSION/AF. AMP.	AD	4			

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RAM./AUDIO POWER AMP./OA./SOUND/LED./DSP./PREAMP.	AD	4 Y	N	C	69
143 TO 149MHZ/FM.-SSB.-CW./30W OUT	A	2			
LOW TEMPERATURE/STATIC INDUCTION TRANSISTOR/POWER	A	7 N	N	C	
NON-VOLATILE/TALKING/MICROPHONE/AGC./MUX./EEPROM.	AD	7 Y	N	C	
DIGITAL VOICE RECORDER/PAGER/MEMORY/ADC./DAC./CPU.	DA	3 N	N		
ZENER DYNODE/HV./CAPACITOR BANK/RESISTOR CHAIN	A	4 N	N	C	
CAMAC-BASED/HIGH RATE/TRANSFER/TN-1700/PROCESSORS	D	5 N	N	C	
IA./ADC./LPF./UP.-BASED/MOISTURE/RH./TEMPERATURE	AD	9 N	N	C	
CROWBAR TO PROTECT THE LOAD/ACCELERATE THE IONS	A	9 N	N	C	
MOSFET./BUCK MODE/LINEAR TECHNOLOGY/VOLTAGE/DIODE	A	1 N	N	C	
ENABLE CCT/COUNTER/COMBINATIONAL LOGIC/ISOLATOR	AD	7 N	N	C	
LOW LOSSES/LOW IMPEDANCE/SHUTDOWN/ERROR AMP.	AD	5 N	N	C	
BUCK/LDO/INDUCTOR/CURRENT-SENSE RESISTOR/DRIVERS	AD	3 N	N	C	
LOW-DRIFT/HIGH-GAIN/FET./SPEED/VIDEO	A	9 N		C	
LOW-DISTORTION/HIGH SPEED/THERMISTOR/REACTIVE LOAD	A	7 N	N	C	
COUNTER/CURRENT TRANSFORMER/FEEDBACK/TRANSMITTER	AD	9 N	N	C	
CATCH DIODE/INDUCTORS/MAGNETIC COMPONENTS/ESR.	AD	9 N	N	C	
LASER/ATOM CELL/PMT./SPECTROSCOPY/LAMP/LPF./NOISE	A	5 N	N	C	
REPLACEMENT/MECHANICAL/TIME-DELAY		1			
DUTY-CYCLE MODULATOR/90% EFFICIENCY/LOW/NOISE	A	1 N	N	C	
20KHZ CARRIER FREQUENCY/SINUSOIDAL/MODULATING	A	7 N	N	C	
PHOTOFLASH CAP/MUX./IF. PEC/SEMICONDUCTOR/NOISE	A	3 N	N		
GAMMA-RAYS/PMT.S/PULSE/HEAVY ION FUSION REACTIONS	AD	5 N	N	C	5/28
ELECTRODES/PEAKING CAPACITOR/ARCS/PRF	A	3 N		C	
CHARGING VOLTAGE/DETECTOR/CERN./LEAR/CHAMBER	A	9 N	N	C	
INTERCHANGED NEUTRAL & LIVE/BROKEN EARTH-GROUND	A	1 N	N	C	
BLANKS/LAMP/PREHEATING/SMD.S/IGNITION/TIMER	A	7 Y	N		
CHOICE OF 3 BW.S/RIT/HW7/RADIO TRANSMISSIONS	A	3 N	N		
GARDENING/FREEZING/SENSORS/PHOTORESISTOR/TONE	A	1 N	N		
		2		C	
PULSE GENERATOR/REFERENCE PULSES/GAMMA RAY/GROSS	DA	6 N	N	C	
16 STROKES PER SECOND/TIMER	A	1 N		C	
MOS./LED./TTL. LS/OA.S	A	3 N			
		1			
5IN PM/RISE TIME/20NS/NEUTRON TOF. DETECTOR	A	4 N	N	C	
POLYSTYRENE CAPACITORS/SILVER MICA/PASSBAND/R.I.T.	A	3 Y	N		
HYSTERESIS/TRIP POINTS/SWING FROM RAIL TO RAIL	A	1 N	N	C	
QUALITY FACTOR/OA.S/GANGED POTENTIOMETER/TUNABLE	A	4 N	N		25
TESTING PS.S, POWER AMP.S/OA./VOLTAGE REFERENCE	A	1 N	N	C	
TRANSISTOR/IMPROVES THE CCT'S SNR./8OHM LOAD	AD	1 N	N	C	
CMOS./TTL./6502-BASED/HV./SPARK GAP/ZCD./6522 VIA.	AD	5 N	N	C	
INDUCTORS/12KV CAPACITORS/EMISSION SPECTROSCOPY	A	7 N	N	C	
DVM. DISPLAY/VARIABLE-PULSE/2 TO 200HZ/10A/LOGIC	AD	4 N	N	C	
COLOUR CENTRES/CATHODE/KCL/TEMPERATURE/PTFE. PLUG	A	5 N	N	C	
LOGIC FAMILIES/ECL. TO TTL./SUMMING AMP/100MHZ/DC.	AD	1 N	N	C	
REFERENCE VOLTAGE/COMPARATOR/ASTABLE/.4%	A	1 N		C	
PHASE-LOCKED/60HZ/COMPARATOR	DA	1 N		C	
IC/LOAD CURRENTS/SAFE-AREA/20W	A	4 N			
SYMMETRICAL RISE & FALL TIMES/MILLER INTEGRATOR	AD	2 N	N	C	

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MULTI/RECTIFIER/DOUBLER/TRIPLER	A	3	N			
HV. PS./FAST SCR./TRIGGER/SPARK DISCHARGE/TIMING	AD	5	N	N	C	25
1/100MHZ/BROADBAND NOISE SOURCE	A	3				
FAST/NARROW/100NS		2			C	
SWR. SET/3KW/ROLLER INDUCTOR/RELAY	A	3				
SWR.-POWER METER/INDUCTOR SELECTOR/ANTENNA/LOADS	A	2	N	N		
tone GENERATOR/RC./DIFFERENTIATOR/THERMISTORS	AD	1	N	N		
7KV/RISETIME/~8NS/FIBER OPTICS CABLE/APD./BATTERY	A	3	N	N	C	
REGULATOR/0 TO 1.25A/DRIFT/CONTROL POT/OA./PSRR	A	1	N	N	C	
REMOTE CONTROL/PULSES/REGULATION	A	1	N		C	
SERIAL DATA TRANSMISSION/DC. AMP./DATA ACQUISITION	DA	7	N	Y	C	
AUTOMATIC/SATELLITE/JAS-1/FO-12/JAPANESE/TNC.	AD	9	Y	N		
PHASE COMPARISON/DRIFT/RF./ANTENNA/RECEPTION/CW.	A	4	N	N		
CPU./SPEED OF THROUGHPUT/FAULT TOLERANCE/EMBEDDED	D	9	N	N	C	
SOUND-OPERATED SWITCH/FLASLIGHT FINDER	AD	4	N		C	
MOD./SWITCH/SSB./CAR/DRIVING/RECEIVER RIT/RADIO	DA	3	N	N	C	
BINARY PSK. (BPSK)/COMPARATORS/DETECTOR/EX-OR GATE	AD	5	N	N	C	
DRAM./STORAGE CAPACITY/ROM./MEMORY MAPS/EPROM.	D	6	N	N		
PC./NMOS. REPLACEMENTS/BATTERY BACKUP/PS.	DA	8	N	N	C	
PULSES/TRANSFERRING DATA/STORAGE/BBC MICROCOMPUTER	AD	6	N	N	C	
CURRENT SOURCE/PHASE INVERTER/LOW TEMPERATURE	A	7	N	N	C	
MUX./ZERO/CROSS-OVER DETECTOR/PHASE COMPARATOR	AD	9	N	N		
COLUMN/SETUP/MUX./LUMPED-CONSTANT	D	3	Y		C	
PORTS/8086 CPU./UP./IEEE STD 796/RAM./PIC./ARBITER	A	4	N	N	C	57
HM6116LP-3/READ-WRITE/EPROM./PULSE	D	5	N		C	
COMPUTER/BUFFERLINK/RAM./ASCII./UNIVERSAL/COPY	DA	7	Y	N	C	
LOCK DETECTION/DPLL./VCO./HCMOS./UP-DOWN COUNTER	D	9	N	N		42
		2			C	
ZERO CROSSING/TIMER & 3 TRANSISTORS/COMPARATOR	AD	1	N	N	C	
STEERING DIODES/PS./REGULATORS	A	1	N		C	
LOCATOR/CB./RADIO ALARM/OSCILLATOR-TIMERS/IGNITION	AD	6	N	N	C	
INTEL 8085A/PC. AT/METALLO-ORGANIC DECOMPOSITION	D	6	N	N	C	4
DIVIDER/INTERRUPT SIGNAL/REMOVE/UNWANTED HARMONICS	AD	1	N	N	C	
HW-101/HFO/SIDETONE LEVEL/CWO BFO./RELAY	AD	5	N		C	
TOKEN-PASSING RING/DECENTRALIZATION/ARCHITECTURE	D	6	N	N	C	
UART./MONOSTABLE MULTIVIBRATOR/RS232/SERIAL PORT	AD	3	N	Y		
DRAM.S/PROM.S/SRAM.	D	1				
LC.-TANK CCT/CAPACITORS/PC./EASY-PC/LAYOUT PCB.S	A	2	Y	N	C	
UP./HANDSHAKING/SERIAL DATA	D	4	N		C	
50MHZ/COMPLEMENTARY OUTPUTS/CHEAPER/SAME 5V RAIL	D	1	N	N	C	
MULTI-PATH/INTEGRATOR/PROPAGATION/DETECTOR	A	9	N	N	C	E
INVERTER/40MHZ/SWITCHES/BIT STREAM/300/1200 BAUD	AD	1	N	N		
DRIVER TRANSFORMER/CHOKES/MONITORING/PWM.	AD	4	N		C	
SENSORS/ROTARY/LINEAR PHASE/TRANSDUCER/RVDT/LPDT	AD	4	N	N	C	
MODULATION/COAXIAL/8M BPS/MULTICHANNEL	A	9	N		C	
EXCITER KEY CCT/RELAY/RF./FCC/2KW PEP-SSB. INPUT	A	3	N	N		8
ECL./FREQUENCY DIVIDER/PLL./NRZI TO NRZ./DATA	AD	2	N	N		
MEMORY-EXPANSION BOARD/0.5HR	D	3			C	
SENSE/LED./VCO./TRACK/FSK./TNC./PLL./LPF./OA.	AD	5	N	N		

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PIERCE/COLPITTS CRYSTAL OSCILLATOR/NBFM/FILTER	AD	4	N	N	E
OPTO-ISOLATOR/DEMODULATOR/RIT/USER PORT	AD	2	N		
60V PS./LF., HIGH-POWER, HIGH-EFFICIENCY/LOSSES	A	3	N	N	C
FREQUENCY RESPONSE/LAPLACE TRANSFER FUNCTION/SPICEAD		8	N	Y	C
LINAC/ION FLUX/ELECTRODE MATERIALS/PULSE FORMING	A	5	N	N	C
15KHZ/UNIPOLAR PULSES/SEVERAL 100KV/HIGH CURRENTS	A	5	N	N	C
LASER/LIGHT/TRIGGER/SPARK GAP/SWITCHES	A	4	N		C
BURGLAR ALARMS/LED./SWITCHES/POWER AMP./RESET	A	2	Y	N	
FLYBACK SWITCHING/UP CONVERTER/THERMISTOR/LV.	A	9	N	N	C
PROTECTION/SCR.S/CMOS./NOR GATE/LED.S/HEX INVERTER	AD	4	N	N	C
ELECTRODE/PC./ADC./CONDUCTIVITY/TK85/Z80 UP.	AD	5	N	N	C
NUMBER SYSTEM/EASY/PRIMARY SCHOOL/LED.S/PPI./DIGIT	D	8	N	N	C
MOTOR/COMPENSATOR/CLOSED LOOP/UP.S/IEEE-488/RS-232	DA	3	N	N	
COMPUTER/INTERFACE/LED.S, PHOTODETECTORS/SERIAL	DA	9	N	Y	
LED./DMA./TRAIN OF PULSES/DELAY/DURATION/POLARITY	DA	3	N	N	C 16
2-10 CLOCK PULSES/GATE/DIODE/BRIDGE RECTIFIER/TIME	DA	1	N	N	
MOSFET./JFET./2-FREQUENCY.SWITCHABLE/TEST/ALIGN	A	5	N	N	C
TO 50MHZ/RC. OSCILLATOR/SCHMITT TRIGGER/INTEGRATOR	DA	1	N	N	C
24 ACTIVE LINES/CONTINUITY CHECK/576 POSSIBLE	D	4	N	Y	C
WAFER SWITCH/DIODES/2-INPUT AND-GATE/FLASHES	D	1	N	N	C
TEST TELEPHONES/RING SEQUENCE/COUNTER/OPTOISOLATO	AD	7	Y	N	C
		1			C
MODULATE/TRANSMITTER		1			
DATA & ADDRESS BUSES/CONTROL/IORQ/WR	D	2	Y		
RF./LO./PHASE DETECTOR/SSB./PHASE NOISE/MICROWAVE	A	7	N	N	C
BURN COMPLEX LOGIC FUNCTIONS/JEDEC FILE/SOFTWARE	AD	5	Y	Y	AJ
BISTABLE/NOR GATE/BUFFER-INVERTER/A FEW KHZ/CLOCK	DA	1	N	N	
MICROCAP/CAD./IBM-PC./MACINTOSH/MODELER/DADISP	A	5	N	N	C
RF./COR/M-907 TONE DECODER/IC-22A/TRANSCIEVER/KEYS	DA	3	N	N	C
ERASABLE PLD./STML/COLLIDER/RAM./BED OF NAILS	D	5	N	N	C
SLEEP/DISTURBED/CALL/BILATERAL SWITCH/LED./COUNTER	DA	7	Y	N	
ARBITRARY SEQUENCE/2048/OUTPUT STATES/NMR./CAMAC	D	5	N	N	C
TELECATION ADAPTER/LINE-21 TELETXT/VCR./TV. SET	D	5	Y	N	C
NUISANCE CALLS/OPTOCOUPLER/SIMPLE/OPTOISOLATOR	DA	4	Y	N	C
FAST/100MHZ/PULSE HEIGHT DIGITIZER/REGISTER/NOR	DA	7	N	N	C
SH. OA./RF. POWER AMP./DC./RECOVERY/DVM.	AD	3	N	N	
20MHZ CRYSTAL/CLOCK/DRAM. CONTROLLER (8202)/TIMER	D	5	N	Y	C
DOUBLE-MAGNET SPECTROMETER/FERMILAB/MUON	DA	9	N		C
WORKBENCH/EASY TO BUILD		3			C
DIVIDE-BY-10 COUNTER/QUAD 2-INPUT NAND GATE	DA	3	N	N	C
CMOS./MOSFET./SPECTROSCOPIC/LASER	DA	6	N		C
AVOIDING SPURIOUS FREQUENCY CHANGES DUE TO/NOISE	AD	1	N	N	C
VSWR./RESONANCE FREQUENCY/INDUCTOR/IMPEDANCE	A	2	N	N	27
ANTENNA PEAK CCT/HEAR/WORLD/AM./INTERNATIONAL SW.	A	4	Y	N	C
SENSOR/MAGNETIC LINES/FLUX CONCENTRATOR	A	4	N		C
PIM/ASYNCHRONOUS PPM./SIGNAL/SAMPLING FREQUENCY	AD	6	N	N	C
LANGMUIR/STAIRCASE/GENERATOR/6-BIT/COMPARATOR	DA	5	N	N	C
DELAY/200MS/DRUG/HEART/CATHETER/COMPARATOR/AMP.	AD	3	N	N	C 42
POTENTIAL MEASURING PROBE/ELECTROCHEMICAL/VOLTAGE	A	8	N	N	C 12

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PULSE WIDTH/LENGTH OF CONDUCTOR/EVENTS/COUNTER	DA	1	N	N	C	
TANTALUM CAPACITORS/PROGRAM/CAD./RESISTOR	A	2	N		C	
ADC./TAC./LIGHT	AD	6	N	N	C	
PHOTOELECTRON/CATHODE/MEASUREMENTS/DARK CURRENT	A	4	N	N	C	
EXTREMELY SHORT RISE TIME (~100US)/SIMPLE/PRESSURE	A	3	N	N	C	
TRANSIMPEDANCE/DIFFERENCE AMP./LED.S/PHOTODIODES	AD	8	N	N	C	
MCS/BRIDGE/MOSFET./JFET./OA./DUT./AVERAGING	DA	4	N	N	C	
THRESHOLD & PULSE WIDTH ADJUSTMENTS/PMT./LIGHT	A	9	N	N	C	
AMP.S/VARACTOR DIODES/FM./BETWEEN 100 & 104MHZ	AD	5	N	N	C	
BROADBAND/PUSH-PULL/BI-QUAD/400HZ/SQUAREWAVE	A	2	N	N	C	
STANDING WAVE/RADIATION PRESSURE/SELF-LOCKING/AMP.	AD	3	N	N	C	39
100MOHM/POTENTIAL DIFFERENCE/UP.	AD	5	N	N	C	
BALLAST RESISTORS/LASER TUBE/DOUBLER/LIMIT CURRENT	A	2	N	N	C	
OUTPUT PULL-UP	AD	1				
ADC./DARLINGTON/DMOS./BBC MICROCOMPUTER/6522 VIA.	A	2	N	N	C	5
STOP TYPE/FILO/CAMAC BUS/MEASUREMENTS/PARTICLE/NIM	D	5	N	N	C	61
DETECTOR/LIGHT IONS/TOF./IRRADIATION/PULSE HEIGHT	A	9	N	N	C	12
IONIZING PARTICLES/TOF./TIME-WALK/SPECTRA	A	7	N		C	
RESISTANCE/20KOHM TO 200MOHM/4.5-DIGIT	DA	9	N		C	
2.5MBIT-S/8- & 16-BIT UP.S	D	7	N		C	
IO./SBX BUS/PROGRAMMABLE KEYBOARD-DISPLAY/PROM.S	D	4	M	N	C	
CFD.S/TAC./COINCIDENCE UNIT/SCINTILLATION CRYSTALS	A	6	N	N	C	
DRAM./TASK SCHEDULER/SYNC GENERATORS/PALETTE/DAC.S	DA	1	N	N	C	
<\$150/INTERFACED TO A 8080-BASED MICROCOMPUTER/PAD	AD	6	N	N	C	
PULSE DURATION/SCR./TELEPHONE/INDICATOR CCTS	A	3	N	N	C	
MINIMUM/MAXIMUM/CLOCK/100KHZ/COUNTERS/LATCH	D	2	N	N	C	
TTL. PWM. INPUT/10KHZ NOTCH FILTER (PARALLEL T)	AD	1	N	N	C	
VOLUME/INPUTS	A	1	N	N		36
EPROM. PROGRAMMER/DIP. SWITCHES/MEMORY MAP/RAM.	D	1	N	N	C	
MATRIX CONVERTER/MODULATOR/PROM./MICROCOMPUTER	DA	6	N	N	C	
SCHMITT TRIGGER/LONGER LIFE/BOUNCING	D	1	N		C	
BOOM/FAST IC MEMORY/LATCH/HISTOGRAM MEMORY CYCLE	DA	8	N	N	C	12
PC./GPIB./CHERENKOV LIGHT/MUONS/PARTICLES/FWHM.	A	6	N	N	C	12
10 STAGES OF DYNODES/COMPRESSION COIL/HV./FLUX	A	8	N	N	C	
CASCADE CCT/DYNAMIC IMPEDANCE/BW. OF 8MHZ	A	6	N	N	C	
CORRELATION/CODE-DIVISION MULTIPLE-ACCESS (CDMA)	DA	9	N	N	C	
LOCK RANGE/FREQUENCY/2MHZ	A	1			C	
HARMONICS/CONVERTER/CURRENT/VOLTAGE	A	5	N		C	
CHARGING CURRENT/SQUARE WAVES/POTENTIOMETER	AD	1	N	N	C	
LAMP CURRENT IS SENSED/PROGRAMMABLE REFERENCE/AMPDA	DA	4	N	N	C	
VARIAN E-LINE/SPECTROMETERS/SOFTWARE	A	6	N		C	
PELTIER/TEMPERATURE SENSOR/THERMISTOR	A	4	N		C	42
VOLTAGE DOUBLER/SUSPENSION-RELEASE/FREE-FALL	DA	7	N	N	C	
RADIO FACSIMILE/OPTICS/REVERSE-CONNECTED/FINCH	A	4	N	N	C	
VCO. NOISE/FREQUENCY SYNTHESIZER/2ND-ORDER LOOPS	AD	9	N	Y	C	3
LINE/MEMORY/PC./SELECTIVE EXTERNAL CALL ACCEPTANCE	DA	6	Y	N		
QUAD 2-INPUT NAND GATE/TRANSISTORS/CERAMIC FILTER	AD	3	N	N	C	
SOUND EFFECTS		1				
STATE-VARIABLE FILTERS/DESIGN		5				

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COUNTER/HARMONICS/TABLE LOOKUP/PLL./EPROM./DAC.	DA	6	N	N	C
AIR-CART POSITION DETECTOR/LIGHT/MIRRORS	DA	2	N		C
DUAL-TRACE SCOPES		3			
INTEGRATOR/LIMITER/RS FF./PHASE DETECTOR	A	1	N	N	
DAC. CARD/SCR./DIGITALLY PROGRAMMABLE/NOISE FILTER	AD	5	N	N	C
LOGIC FAMILY OUTPUTS & INPUTS	D	5			C
MEDILOG 1/TAPE RECORDER/HEART/WAVEFORMS/SHIFTS	A	5	N	N	C
FLUIDS/SCHMITT TRIGGER/BLOCK COUNTER-DECODER	DA	2	N	N	C
300V 75W/2MHZ TO 8MHZ/MRC/POWER MOSFET.S/DIODES	AD	9	N	N	C
SHIFT REGISTER/8086/8284 READY/MEMORY	D	1	N		C
REGULATOR/GATE CURRENT/RECTIFIERS	A	5	N		C
SERIES/OPTICAL COMMUNICATION/SHUNT/LED.	AD	3	N		
VERTICAL/HORIZONTAL/VIDEO AMP./DAC./VIDICON	AD	5	Y	N	47
VOLTAGE & CURRENT/CURRENT-STEERED/SWITCH/VFC.	AD	5	N	N	
BCD./THUMBWHEEL SWITCHES/FF.S/DIGITAL COMPARATOR	DA	5	N	N	C
MONOSTABLE/PERIOD/COUNTER/OSCILLATOR/BISTABLE/FF,	DA	1	N	N	
IBM-COMPATIBLE/PERIPHERAL/PRESET VALUE/DATA/MATCH	DA	6	N	Y	C E
PROTECTION/FET./OA.S/ADJUSTABLE SLOPE/POWER SYSTEM	A	9	N	N	C E
	A	1	N		
2-LEVEL/BRIGHTNESS/OUTPUT IMPEDANCE/LOW	DA	1	N		C
FF./ANY NUMBER/UP.	D	2	N		C
DATA	D	1			
		1			C
MEASURE/VOLTAGE/TIGHT SPOT		1			C
SKILL/CHANCE/STRATEGY		5			
100MA/RAMP/MEMORY/WAVEFORMS/PEAKS/450MA	DA	1	N		E
MOBILE DX/RFI. SUPPRESSION/VOICE/RADIO/NOISE/MIKE	A	2	N	N	E
MERCURY WETTED RELAY/COUNTER/LATCH/STROBE/BOUNCIND		1	N	N	
MASS SWEEP RAMP/AMP.S/TUNING/OSCILLOSCOPE/PS.	A	3	N	N	C
LOW PHASE NOISE LEVEL/FLICKER-FREE/PERIOD	D	8	N	N	C
BCD.-CODED/OPTICAL ISOLATOR/NMR./HELMHOLTZ/RF.	DA	9	N	N	C
FREEDOM FROM AMBIENT LIGHT/LOW COST/FIBER OPTIC	A	2	N	N	C
DUAL SYNCHRONOUS UP COUNTERS/PULSE GENERATOR/LED.	DA	5	Y	N	C
SCHMITT TRIGGER NAND GATE/STABLE/GAIN/~\$100/SWITCH	AD	3	N	N	C
FF./EDGE/SPIKE/SYNCHRONIZING BLANKING PULSES/TV.	D	1	N	N	C
CONTACTS/DATA FLOW/BIDIRECTIONAL BUFFER/ADDRESSING	D	3	Y	Y	
2 NANDS/EXTERNAL CLOCK OR SYNC. INPUT/DELAY	DA	1	N	N	C
CURRENT TRANSFORMER/60HZ AC.S/0.1A-300A/MEASURED	A	8	N	N	C E
GREEN/RED/YELLOW/PUBLIC TELEPHONE NETWORK (PTN)	A	9	N	N	42/AR
BATTERY/LEAD-ACID CELLS/NICD./DEEP-CYCLE/METER	A	9	Y	N	C
CONTROLLABLE/INPUT IS A 16-BIT WORD/COMPUTER	D	2	N	N	C
ELECTRODE/SOLUTION/AC./ELECTROLYTIC/CELL	A	9	N		C 42
GLOW/SHAPE/FREQUENCY/AMPLITUDE/SIGNAL/WAVEFORMS	A	1	N	N	C
1-OF-8/ADC.S/CRATE/MICROPROGRAMMABLE BRANCH DRIVER	D	5	N	N	C
CONSTANT-CURRENT AMP./CONDUCTIVITY CELL/SINE WAVE	A	3	N	N	C
1-SHOT/TRIGGER PULSE/RESET/TIMER/LED.	DA	2	N		
TO5 TRANSISTOR HEADER/INTERFACE/CARBON MONOXIDE	A	5	N	N	C
INTEGRATOR/30 TO 320US/SINUSOIDAL SIGNAL/CHOPPER	DA	5	N	N	C
ANALOG MUX./DUAL-TRACE/CHANNEL-2/SWEEP	DA	2	N		C

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SIGNAL TRACES/SIGNAL SAMPLING		2		C
-500 TO 750MW/RF./CW./RF./TV./5V REGULATOR/CRYSTAL	AD	3	Y	N C
NORMAL, LOW, OR HV./TTL./GATE/2 ZENER DIODES	DA	2	N	N C
DETECTOR/DATA LINK/PHOTOTRANSISTOR CCTS/GAAS.	AD	4	N	N
FREQUENCY COUNTER/INCREMENTS/DATA/MUX.	D	1	N	
SHIFT REGISTER/D FF./AND/NAND GATE/TRANSISTOR	DA	3	N	N C
MILLIAMMETER/ZENER DIODE/RESISTANCE	A	2	N	C
18DB/OCTAVE/OA. BUFFERS/PREAMP.	A	1	N	
ABOVE/CENTER/BELOW/BALANCE/DISPLAY	A	1	N	C
DIRECTION/POWER TRANSISTORS/POSITION/REVERSING	DA	2	Y	N C
HEWLETT-PACKARD/OPTOELECTRONICS/DATA-ENTRY/HP-41C	DA	3	N	N C
SILICON BILATERAL SWITCH/RAMP/BREAKDOWN/CAPACITOR	A	2	N	N C
GENERATOR/UNIVERSAL TIME/DIGITAL	DA	1	N	C
POWER AMP.S/SERVOMECHANISM/ANGLES	A	9	N	N C
TIMING RESISTOR/CAPACITOR/MAGNITUDE COMPARATOR	D	5	N	N C
LED. OUTPUT INDICATION/CMOS./PULSES/NAND GATE	D	4	N	N
RL0512SAQ011/PLL./LASER/RUBIDIUM LAMP/SPECTROMETER	DA	8	N	N C
J-K FF./TTL. LINES/REFLECTIONS	DA	2	N	C
BURGLAR ALARM/R-S LATCH/FF./D-TYPE	D	3	N	
BCD. INSTRUMENT BUS/HANDSHAKE LINES	D	3	N	N C
DELAY LINES/EQUALIZERS/VVT/ACTIVE RC.	A	4	N	C
ELECTRODES/75000V/25000W	A	5	Y	C
SELECTABLE		1		C
8085A/8086/DATA TRANSFER/WORKSTATIONS/OS.	D	6	N	C
INDUCTIVELY COUPLED/COIL/TUNING CAPACITOR/4-6MHZ	AD	4	N	N C
RS232 SERIAL/UP. BUS INTERFACE/1NS RESOLUTION	D	5	N	N C
4-BIT FULL ADDER/40NS IO. DELAY/8-BIT COMPARATOR	D	2	N	N C 4
SQUARE WAVE/USED AT 4 & 10MHZ/LOW CURRENT/3MA/TUNE	DA	1	N	N
3-WAY LAMP/LED. FLASHER/DEBOUNCER	AD	4	N	C
FILAMENTS/DISPLAY/AUDIO AMP./SPEAKER TERMINALS	A	2	N	N
TIMER/LED. DRIVING/OSCILLATORS/GEDANKEN	DA	7	N	C
TONES/DATA/OPTICALLY COUPLED/TTL./CMOS.	AD	2	N	C
READOUT/RPM./IGNITION/CLOCK/COUNTER/LED.	DA	5	N	C 42
TIMER/IC'S/FILTER/SWITCH	AD	4	N	
MAGNETIC FIELD/FARADAY CUP/CURRENT	A	9	N	C 42
GATE-PULSE INHIBIT/PULSE ROUTING/PHASE-DELAY CCT	AD	7	N	N C
SWITCH/MOTION/STM./BENDING MODE/STEP/~50 TO 5000NM	DA	3	N	N C
PRESSURE/1FT INCREMENTS/WHEATSTONE BRIDGE/TIMER	A	9	Y	N
DIVIDER/OSCILLATOR/SQUARE WAVE/FF.	D	3	N	
ON-RESISTANCE/LASER/OPTO DIODE/10A/NIR.	AD	7	N	N
ASTABLE/CURRENT-SENSING TRANSFORMER	A	2	N	C
TUNING UP/45HZ SQUARE WAVE/LOCAL TESTING/\$5/CHEAP	AD	1	N	N C
OSCILLATORS/SINGLE-STEPPING/SCANNING	D	1	N	E
KEY/MATRIX		1		
VIA./ANALOG MUX./SH.	AD	4	N	C 42
VOLTAGES/NOTE SEQUENCES/GATING		1		
TELESCOPE/SKY/OSCILLATOR/1-SHOT RELAY DRIVER	A	3	N	N C
RESISTIVE LADDER/LPF./CRADLE SWITCH BUTTON/KIM-1	DA	9	N	Y C
ASCII./MUSIC/INSTRUMENT/ORGAN/MICROCOMPUTER/UP.	DA	4	N	N C

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SWITCH/~1MIN/BATTERY-SAVING/TRIGGERED/CAPACITOR	A	1 N	N	C	
HIGH CURRENT PULSES/METER/VARYING THE PULSE WIDTH	A	2 Y	N	C	
FRONT END/SIGNAL PROCESSING CCT/AF./TIMER/1KHZ	A	9 N	N	C	
STABILIZATION/DRIFT/TIMER/RAMP GENERATOR/QUAD OA.	A	5 N	N	C	E
DC. MOTOR/TIMER/SPEED/BRIGHTNESS/LAMP	AD	2 N			
SERIAL COMMUNICATIONS CONTROLLER/INTERFACE/PC.-AT	D	9 N	N	C	
IO./8080/MUSIC/LATCH CCTS/ALTAIR/LENGTH CODE/SCALE	DA	7 N	Y	C	
FAINT OPTICAL SIGNALS/AMP.	A	8			
PULSE-AMPLITUDE WINDOW/MONOSTABLES		2		C	
INCOMING CALLS/HEARING IMPAIRED/LIGHTING/SIMPLE	A	4 N	N		
ADJUSTABLE/BREAK-BEAM TRIGGER CCT		5			
KITE FLYING/ALTITUDE/1000FT/AIRBORNE/BALLOON	A	6 N	N		
THERMISTOR NETWORK/SSR./RAM./SYM-1/IO./DEW-POINT	AD	4 N	N	C	
EMG./DAS./IBM AT COMPUTER/NEUROMUSCULAR INTEGRITY	AD	4 N	N	C	
RATE MULTIPLIERS/DISPLAY/CLOCK/CMOS.	DA	3 N		C	
NTC./PTC./HF.	A	3 N	N	C	
SCHMITT TRIGGER/GATE/MICROCOMPUTER/EDGE	DA	6 N			
TRANSMITTER		4			
BULLETIN BOARD/HOT-PART FINDER/CHECKING/RELAYS	AD	6 N	N	C	
EMI./HV./FLASH LAMP/ORTEC 9301 FAST PREAMP./TAC.	A	7 N	N	C	
ATE. SYSTEM'S/FIFO. MEMORY/TESTING	AD	3 N		C	
LOCKING RANGE/THEORY/BASICS/HISTORY/VCO.	A	3 N	N		
CAPACITOR & RESISTOR PARALLELS EACH DIODE/1000 PIV	A	1 N	N	C	
12800/STEPS PER REVOLUTION/EPROM./DAC./COUNTER	DA	9 N	N	C	
QRM/RECEIVER/TRANSCEIVER/AMP./MIXER/VFO.	A	2 N	N		
PREAMP./OSCILLATOR-TIMER/1HZ/FILM/EXPOSING	AD	4 N	N	C	
COUNTER/FF./FET./OA./AUDIO AMP./SYNTHESIZED VOICE	AD	8 Y	N		
INPUT OF 0.1 TO 24W/RF. TRANSFORMER/COAX/~\$362	A	6 Y	N	C	
SHORT-CCT MODE/RADIOGRAPHER/THERAPY/RADIATIONS	A	3 N	N		
COLORIMETER/LED./MICROCOMPUTER/RESPONSE/BEER'S LAW	A	5 N	Y		42
BREAKOUT BOX/DETECTOR/ANALYZER/LED.S	D	8 Y	N	C	
HOT WIRE/HEAT LOST/RESISTANCE/CELL/SAMPLE/OA.	A	2 N	N	C	28
PIPELINE PROCESSING/CMOS./33MHZ/DATA/INSTRUCTION	D	9 N	N	C	
RESISTOR/LOGIC/CMOS./SWITCH	A	2 N		C	
SPEECH SYNTHESIS/OPTICAL PROBE/24 COLORS	AD	5 N		C	
WINDINGS/TAPE DECKS/PROBLEMS/REVERSE THE POLARITY	A	5 Y	N	C	
52MM DIAMETER/DARK CURRENT/QUANTUM EFFICIENCY	A	7 N	N	C	
AUDIO/CODE/KEYPAD/VALID TONE DETECTION/PULSE	AD	2 N	N		E
PTFE. REFLECTOR/ENERGY/TIME RESOLUTION/UV./LIGHT	A	7 N	N	C	5
EPROM./NO RAM./SOUNDS/TOUCH-TONE/PLL./PERIPHERAL	AD	7 Y	Y	C	
DOUBLE BEAM COLORIMETER/POLARIMETER/CUVET/SAMPLE	A	4 N	N	C	30
TUNGSTEN FILAMENT/BLACKBODY RADIATION/EDISON	AD	6 N	N		
HV./DYNODE/GAIN MEASUREMENTS/COUNTERS/FLIGHT-PATH	A	9 N	N	C	61
COPY/UP TO 27512/LIST/DATA/SERIAL LINK/COMPUTERS	AD	5 N	N	C	
TO PREVENT AXIAL CATAPHORESIS/LASER TUBE/2KW/NAVY	A	4 N	N	C	
DIODES/FUSE/DC. PS.S	A	3 N			
32 IO. LINES/4 PROGRAMMABLE TIMERS/INTERRUPT	D	5 Y	Y		
BIAS/INVERTING AMP./DIFFERENTIAL/VOLTAGE	A	3 N	N		
INTERFACE/TELEPHONE LINE/VOICE/TRANSFORMER	A	4 Y	N	C	

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DTMF./ISOLATORS/SCREENING/CALLS/REMOPLY CONTROL	DA	8 N	N	57
LINE-SENSE RELAY/DETECTOR/LED.S/LINE "TESTER"	AD	4 N	N C	
COUPLING COILS/FEEDBACK/COAXIAL CAVITY	A	6 N	C	
		1	C	
TRIMMING/ZERO PHASE DIFFERENCE/QAM./OA.S/OTA.	A	1 N	N C	
PHOTOMULTIPLIER/STABILIZATION & DATA-ACQUISITION	A	5 N	N C	
PHOTORESISTIVE/SCALERS/MICROCOMPUTER	AD	9 N	C 42	
ACCURATE/LINEAR/FLOATING INDUCTANCE/INDUCTOR	A	5 N	N C	
SYNCHRONOUS DEMODULATION/ALIASING/NYQUIST/FFT./UP.	DA	9 N	N C	
MUX./PRESET COUNTER/1ST LEVEL TRIGGER/PHYSICS/LEP	D	4 N	N C	
ELECTROCHEMICAL/BUTTON CELLS/BATTERY/POWER SOURCE	A	5 N	N C 25	
NOISE/SPECTROMETER/RESISTANCE/CRYOGENIC	A	8 N	C	
RELAY/DOUBLE-INPUT/MEASURE THE PHASE DIFFERENCE	A	6 N	N C	
MIC PREAMP./TRIANGLE-TO-SINE WAVESHAPING	A	7 N		
COLOUR/COMPLEXION/INTEGRATING SPHERE/TISSUES/BEAM	A	4 N	N C	
	A	1 N	N C	
MPI/HIGHLY NOISE-RESISTANT/BUFFERED/FET. INPUT OA.	A	2 N	N C	
RESISTOR NETWORK/BIASED/DATA/SOFTWARE/RECORDER/SMAD	A	5 N	N C 3	
LOGARITHMIC/AUDIO/20HZ TO 20KHZ/-10DB & -50DB/2V	A	1 N	N C	
STRETCHER/THERMAL DIFFERENTIATOR/LEAKAGE CURRENT	A	8 N	N C 61	
HOLDING COIL/FAIRDIAL SET CES200 OR CES201/DIALER	A	1 N	N C	
RESET/BILATERAL SWITCH/AMP./CMOS./LINEAR/0-100MA	DA	5 N	N C 91	
TV./ROM./TIMING CHAIN/MP8048 MICROCOMPUTER/IF.	DA	9 N	N C	
CATS/5-CHANNEL, TIME MUX.ED, PWM.-FM./TRANSMITTER	AD	6 N	N C 28/AG	
TEMPERATURE CONTROL/LOOP/BALANCE/SENSOR/CMRR.	A	1 N	N C	
FINE/COURSE BALANCE LED./MEASUREMENT/PRESSURE	A	3 N	N C	
RS-232 DRIVER/FET./RELAY/PHONE MONITOR/ANSWER	AD	5 Y	N	
SAWTOOTH/10MS RAMP/LF. LIMIT OF 100HZ/LPF.	AD	1 N	N C	
QUIESCENT/10UA/VOLTAGE COMPARATOR/REFERENCE/LBO	AD	1 N	N C	
LIGHT/UV./500W TUNGSTEN LAMP/COMPUTER PROGRAM	A	4 N	N C	
MEMORY/POWER UP-DOWN SEQUENCING	AD	6 N	C	
30MHZ/BAND/COMMUNICATIONS/DIFFERENTIAL AMP.	A	2 N	N C	
DPM./DISPLAY/DAC./MULTIPLIERS/OA./ANALOG SWITCHES	AD	9 N	N C	
ANTI-ALIASING/2ND ORDER/C-MESSAGE FILTER/AUDIO	A	2 N	N C	
NQR./RF. SYNTHESIZER/10-300MHZ/PIN DIODE SWITCH	AD	4 N	N C 25	
PWM./PROGRAMMABLE	AD	7 N		
RESISTANCE THERMOMETER/THERMAL/CALORIMETER-SAMPLE	AD	6 N	N C	
LINE ISOLATION/SWITCHING/FLYBACK CONVERTER/TIMING	AD	9 N	N C	
SERIES-PASS TRANSISTORS/ZENER DIODES	A	9 N	C 42	
TRANSFER FUNCTIONS/1ST-HARMONIC/2-AMP.	A	9 N	N C	
OA./MULTIVIBRATOR/ECHOGRAPHY/A-SCAN ULTRASOUND	AD	6 N	N C	
STEPPING MOTOR DRIVER/8 BIT ADC./DAC./COMPUTERS	AD	7 N	Y C 42	
		4		
PATIENT'S BODY/ELECTRODE/DIFFERENTIAL AMP.S	A	7 N	N C	
650NS/SUCCESSIVE APPROXIMATION/MOD./REFERENCE	AD	3 N	N C	
PS./BATTERIES/DIODE/CHARGE/CMOS. SWITCHES/10KHZ	A	2 Y	N AJ	
INDUCTION COIL/BETTER THAN 100KHZ/PSD./GLOW	A	4 N	N C	
NONLINEAR/PULSE/PHASE SHIFT/COLLISION/LATTICE	A	7 N	N C 42	
CONTINUOUSLY VARIABLE/VCPS/450 TO 550MHZ/COILS	A	3 N	N	

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ECL.-LEVEL TRANSLATOR/COMPARATOR/STABLE/NETWORK	AD	1 N	N	C	
DIRECT-CONVERSION/QUADRATURE WAVEFORMS	AD	4 N		C	
SENSOR/TEST PROBES/JFET./SINUSOIDAL/AUDIO TONE	A	4 N	N	C	
CURRENT-CONTROLLED ATTENUATORS/ISOLATION/LOSS	A	2 N	N		
OUTPUT TRANSFORMERS/TRI-AMPLIFIED SYSTEM/TUBE	A	4 N	N		E/42
INTERFACE/MULTIPLE/54 CHANNEL/PRESCALER/VCO./LAN.S	DA	6 N	N		
DIVIDE/LOOP FILTER/OSCILLATOR/COUNTER	AD	1 N		C	
TEMPERATURE/DISPLAY/HEATING RADIATORS	DA	6 Y			
LIQUID LEVEL IN THE TANK/WATER/ROM./LOOK-UP TABLE	AD	4 N	N	C	
RESET/INTERRUPT/VLSI./PARTITIONING	D	4 N		C	
SIERRA SEMICONDUCTOR/CALLER NUMBER DELIVERY	AD	5 N	N	C	
TUNED CCTS/BALUNS/TRANSFORMERS/RECEIVER	A	2 N			
RF. GENERATOR/BILEVEL DRIVER AMP.S/TTL.	DA	9 N	N	C	
CLASS AD AUDIO POWER AMP./RFI.	A	1 N		C	
LED./INTENSITY/GAIN/ACCELERATOR BEAM/NE111 PLASTIC	A	6 N	N	C	
TEMPERATURE-COMPENSATED/DAC./OA./ZENER DIODES	AD	4 N	N	C	
OSCILLATION/1HZ/DECK/PAUSE/PLAY/RUNNING/FLASH	A	1 N	N	C	
TRANSFORMER COUPLE/SPEAKER/ISOLATED AMP.	A	7 N	N	C	
LOW-IMPEDANCE ATTENUATORS/HIGH-SPEED/VIDEO KEYING	A	2 N	N	C	
COUNTER/MUX./TOF./COMPUTER INTERFACE/32-BIT WORD	D	6 N	N	C	39
OSCILLOSCOPE/TRANSMISSION LINE/LOAD/FORWARD	DA	3 N	N		
LAST DYNODE/ANODE/GOOD TIMING RESOLUTION/DETECTOR	A	9 N	N	C	61
PART-68/TELEPHONE-TO-COMPUTER SERIAL INTERFACE	DA	7 N	N	C	
BUSY SIGNALS/REDIALS THE NUMBER AGAIN & AGAIN	DA	7 Y	N	C	
COLD FUSION/TOF./PHOTOMULTIPLIERS/TDC./ADC./CFD.	D	5 N	N	C	
PET MICROCOMPUTER/THERMOCOUPLES	DA	3 N		C	42
INPUT AMP./TONE GENERATOR/POWER LEVEL STEPS	AD	6 Y	N		
RING/OFF-HOOK/TOUCH TONE DIALING/PARTY WAITING	A	5 N	N		
OPTICALLY ISOLATED/SPECIFIC HEAT/TEMPERATURE	A	1 N	N	C	
~\$4.80/ELECTRONIC RINGER/BELL & EIA. STANDARDS	A	1 N	N	C	
PERIPHERALS/MC68000/MICROCOMPUTER/SIMPLE/DMA.	D	4 N	Y	C	
BRIGHTNESS/OPAQUE OVERLAY/MODULATED/PRIMARY COLOFA	A	1 N	N	C	95
FEEDBACK RESISTORS/TIMING CAPACITOR/INVERTERS	D	1 N	N	C	
INDICATOR/48V/~8V WHEN 1 APPLIANCE IS IN USE/~5V	A	1 N	N		
BIPOLAR POWER TRANSISTORS/TRANSFORMER/LIGHT/BULBS	A	1 N	N	C	
MOTOR/\$15 CCT		2		C	
PHOTOMULTIPLIER/MONITORING/STABILIZING GAIN/AMP.	AD	8 N	N	C	61
IF-10B/HAM RADIO/SERIAL COMMUNICATION/HF./DATA	D	4 N	Y	C	
PC.S/4-BIT/RINGER/DTMF.	AD	5 N		C	
POSITIVE/REFERENCE/DELAY/TRIGGER/DURATION/TIMES	D	1 N	N	C	
DIFFERENTIAL/<\$20/DRAWS 10MA/TERMINAL/COMPUTER	AD	1 N	N	C	
RING DETECTOR/OPTICAL ISOLATOR/RELAY/TIMER/LED.	A	8 Y	N		
BURSTS/LINEAR BEHAVIOR/UP TO 250KHZ	A	2		C	
OA./OPTICAL COUPLER/ISOLATOR/LINE/TONE/BATTERY	AD	5 Y	N		
LOW-IMPEDANCE RF. AMP./SONAR/GAIN	A	2 N		C	
HV./-2500V/FAST DISCRIMINATOR/AMP./RESOLUTION	A	4 N	N	C	
SWITCHED-MODE DC.-DC. CONVERTERS/FEEDBACK/PWM.	A	9 N	N	C	
		4			
FM. DEMODULATOR/IF. SIGNAL PROCESSING/VIDEO/AGC.	A	9 N	N	C	

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PRIMARY-SIDE VOLTAGE SENSING/5V/4A/-12V/12V/0.3A	A	2	N	N	C	
FET./SCR./DIALING/ACCESSORY/MODULAR PLUG/JACK	AD	6	Y	N		
DISSIPATION FACTOR/DIELECTRIC ABSORPTION/ESR.	A	3	N	N		
MARK:SPACE RATIO/GATE/OSCILLATES/RUN-STOP CONTROL	DA	1	N	N	C	E
OVERLOAD PROTECTION/WIEN NETWORK/50HZ/LOOP GAIN	A	2	N	N		E
VIDEO/SOUND/DATA/DAC.S/TELETEXT/TV. TRANSMISSION	DA	6	N	N	C	
SYM/COLLECTOR/RADIATION INPUTS/THERMISTOR/DEWPOINT	AD	6	N	Y	C	
SUBMICROSECOND/SPEED/HF.S/VIDEO-SPEED/RF./GAIN	AD	8	N	N	C	
CS5326/CDB5326 EVALUATION BOARD/VCO./RATE/76.8KHZ	AD	6	N	Y	C	12
LOW-DRIFT/FLUX/MEASURE/CHANGES/SH.	AD	3	N	N	C	
SEARCH COILS/TELAS/DAS./HALL PROBE/ADC.S/MAPPING	AD	8	N	N	C	61
CELLULAR-RADIO DATA PROCESSOR/PCB80-83C552/FILTERS	AD	1	N	N	C	10
30A POWER RELAY/APPLIANCE/RESTARTING/SCR./COUNTER	AD	3	N	N	C	
CMOS. LOGIC/OPTOISOLATOR/MUX.	DA	3	N			
FEEDBACK LOOP/VCO./ELECTRONIC-MUSIC	AD	1	N		C	
DIFFERENTIAL OUTPUTS/PHASE SPLITTING	A	2	N			
TRANSMITTED/PHOTOMULTIPLIER/TUBE/ELECTRON BEAM	A	4	N	N	C	
SINGLE-CUP/120W/BEAM POWER/ACCURACY OF 1%/ENERGY	A	3	N	N	C	
TIMER/MUX.ED/AMP.S/CURRENT CONTROL/20HZ OSCILLATOR	AD	4	N	N	C	
NTSC./TTL./RGB./TV./TEST/VIDEO/CHROMINANCE/3.58MHZ	AD	6	Y	N	C	45
COMPENSATES FOR/TEMPERATURE SENSITIVITY/TARGET CCT	A	2	N	N	C	
DIVIDE-BY-4 COUNTER/PHASE-FREQUENCY DISCRIMINATOR	AD	4	N	N		
SIMPLE, LOW-COST/NEGATIVE PULSE/DELAY TIME/~3HZ	DA	1	N	N		
VCO./PHASE COMPARATOR/RAMP/FF./MARK:SPACE/INVERTER	AD	1	N	N	C	
REPEATER/GROUP FILTER/TONE RECEIVER	AD	5	Y			
COMPUTER-CONTROLLED/SAMPLING SCOPE/PULSE GENERAT	A	3	N	N	C	
DAS. FRONT END/INSTRUMENTATION	A	3				
NARROW/MONOSTABLE MULTIVIBRATORS/1-SHOT	D	1	N		C	
SLEW-RATE/VOLTAGE SWING/SINUSOIDAL FREQUENCY	A	2	N	N		
VOLTAGE STEPS WITH OPPOSITE POLARITIES/RISETIME	A	5	N	N	C	
HV./TRANSLATOR/PIEZOVALVE/NOZZLES/BEAM/GAS/PUMPS	AD	7	N	N	C	
VLF./DISCRIMINATION/BURIED TREASURE/ARTIFACTS/COIN	AD	4	N	N	C	
POTENTIAL/GAIN/MONOLITHIC IA.	A	2	N	N	C	
FEEDBACK LOOP/QUADRANTS/DIFFERENTIAL INPUT/OA.	A	1	N	N	C	
LOW-DRIFT/OA./CHOPPER/OSCILLATE/COMPUTATIONAL CCTS	A	2	N	N	C	E
SMPS.S/PROTECTION/OVERVOLTAGE/SHORT-CCT/SIPMOS.	A	3	N	N	C	
BIAS/1.8V/TO 15V/110UA/UNITY-GAIN BW. IS 180KHZ	A	1	N	N	C	
COMPUTER-CONTROLLED/PROTONS/RF. PULSE	D	9	N		C	
DETECTOR/FM. DISCRIMINATOR/DE-EMPHASIS/DEMODULATE	AD	1	N	N	C	
MUX.ED ADC./ALTAIR 8800A MICROCOMPUTER/MOD./ICP.	A	6	N	N	C	
BINARY PSK./OA./PHASE DETECTOR/RC. FILTER/LOCK/IF.	A	5	N	N		
IMAGE CAPTURE/DAC.S/VIDEO BUFFER/DISPLAY	DA	4	N		C	
PHASE-SHIFTED/F-V CONVERTOR/COMPARATOR/DOPPLER AF.	AD	7	N	N	C	
QUADRATURE DETECTOR/19MI/TAPS	AD	6	N		C	
MOVING COIL CARTRIDGES/GAIN/MIXING/OA./CMRR./AUDIO	A	7	N	N		
SQUARE WAVE/PERFORMANCE CHECK/~\$125/ZENER DIODE	AD	3	N	N	C	
LOW DISTORTION/BASS/TREBLE/BOOST/CUT	A	6	N		C	
TEMPERATURE CALIBRATIONS/STABILITY	A	2	N		C	
PULSED DISCHARGE/INEXPENSIVE/500V/BATTERY PS.	A	2	N	N	C	

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RANGE OF 63DB/FINE/COURSE/STEPS OF 1DB/8DB/OA.S	AD	1 N	N	
SINGLE-BURST/ENERGY/THYRISTOR/SWITCH	A	1 N		C
DC.-COUPLED AT THE INPUT/NOISE/GAIN/BUFFERED	A	1 N	N	
REGULATOR/TOROID/TRANSFORMER/RADIO/2M FM./POWER	A	2 N	N	
DATA-ACCESS ARRANGEMENT/BELL-SYSTEM TELEPHONE LINEAD		8 N	N	C
CAPACITOR LEAKAGE CURRENT/POLE FREQUENCY/DC. ERROFA		1 N	N	C
"LINE-TYPE MODULATOR"/PULSER/MAGNETRON/SCR.S	A	3 N	N	C
SPOTTING/RF. CHOKE/1MHZ UP THROUGH 30MHZ/LED./HAM	A	2 Y	N	C
SET-POINT CONTROLLER/MERCURY RELAY/FURNACE/DVM.	AD	4 N	N	C 28
ECL./CFD./TAC./NIM/LIQUID SCINTILLATOR DETECTORS	AD	6 N	N	C E
REPEATER BEEPER/ADJUSTABLE/ASTABLE OSCILLATOR	DA	3 Y	N	C
PHASE DETECTOR/DIFFERENCE/VCO./FREQUENCY METER	AD	3 N	N	C
		1		C
SMALL ANGLES/ALIGNMENT/STEPPING MOTORS	A	4 N		C
ELECTRICALLY ERASABLE PROM.S/WRITE/ERASE	AD	1 N		C
DIGITAL AUDIO/SEPARATELY-STABILIZED PS.	AD	1 N	N	C
BCD.-BINARY CONVERTER/DIVIDER/DIGITAL COMPARATOR	DA	5 N	N	C
DEMODULATOR/VCO./CLEAN SQUARE WAVE SPECTRUM/FILTEFAD		2 N	N	
PULSE DETECTOR/COMPARATOR/ELECTROCHEMISTRY/CURREAD		9 N	N	C 28/AK
OUTPUT TRANSFORMERLESS (OTL) CCTS/MUSIC/AUDIO/THD.	A	6 N	N	
ADDER-SUBTRACTOR/FET.-INPUT/FREQUENCY RANGE/1000:1	AD	2 N	N	C
SWITCHABLE/SOUND EFFECTS/DOLBY/INPUT BUFFERS/OA.	A	7 Y	N	C
ELECTROCHEMICAL MEASUREMENT/SNR./DMA./DAC./ADC./CF	A	9 N	N	C
FET.S/NAI(TL) SCINTILLATOR/PROCESSING/GAMMA CAMERA	AD	4 N	N	C
PS./STEP-UP TRANSFORMER/HEAD/12.2US/TO 100NS/11.4J	A	7 N	N	C 25
BW./PULSE/WIRE CHAMBER/MEASUREMENTS/FET.S	A	9 N	N	C 61
OA./LED./PULSE/CURRENT	A	2 N		C
SYNCHRONIZER/PULSE/MICROCOMPUTER/DATA	DA	7 N		C
FOLLOWER-CONNECTED/SHARING RESISTOR		2		C
VOLTAGE-TO-CURRENT CONVERTER/LOW PHASE JITTER	AD	2 N	N	C
MONITORING OF ELECTRODE VOLTAGES/FET. INPUT OA.S	A	3 N	N	
LPF./SERVO CONTROL LOOP/SUNLIGHT/LED./COMPARATOR	A	2 N	N	C
SURGE/FILAMENT/FLUX/MAGNETIC RELUCTANCE/ACTIVATION	AD	1 N	N	C
ARRAYS/SUPPLY CURRENT SENSING/FEEDBACK/WIDEBAND	A	6 N	N	C
SINGLE AMP. BIQUADRATIC (SAB)/VCVS/CCCS/AD844	A	7 N	N	C
STORAGE CAPACITOR/MUX.ED DIGITIZER	AD	9 N		C
ERROR SIGNAL AMP./REFERENCE/HEATER	A	2 N		C
RC. DELAY/LINEAR FUNCTION/DISCRIMINATE/CAPACITOR	AD	1 N	N	C
VCO./PHASE COMPARATOR/FEEDBACK VOLTAGE/SYMMETRY	AD	4 N	N	C
OPTOCOUPLER/ISOLATOR/ELDERLY/REHABILITATION	A	5 N	N	C
MAY BE PRESET BETWEEN 1.6V & 8V/CURRENT AMP.	A	1 N	N	
SPHERE GAPS/800KV/LOW-CURRENT/COROTRON	A	3 N	N	C
BIAS COIL/MAGNETIC DETECTOR/LED./FLUX/300 GAUSS	A	3 N	N	C
CATHODE/ANODE/CSF/ELECTROCHEMICAL/PROBE/PRESSURE	A	9 N	N	C
CROSSED DIODES/DUPLEXER/SAMPLE COIL	A	5 N		C
DIODE NOISE BLOCK/PROBE/LC. CCT/RF. SWITCH/GATE	AD	6 N	N	C
DYNODES/PULSED/LIGHT COLLECTING/MONOCROMATOR	A	6 N	N	
ELECTROLYTIC CELL/COULTER/COUNTING/FLUID	A	3 N		C E
LOW DROOP-RATE/1-SHOT/BUFFER/MARGINAL OSCILLATOR	AD	7 N	N	C

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SMALL SIZE/0.2A/10OHM CONTACTS/LED. CURRENT	A	1 N	N	C	
MEASUREMENTS/TIMER/UJT. OSCILLATOR/OA./CMOS. CCTS	AD	9 N	N	C	5/42
AMPLIFICATION/>100/100MA/75V/RAIL/300V	A	1 N	N	C	
LOW-COST/DC./CURRENT SOURCE/STIMULATOR	A	3 N		C	
CONTROLLED BY A MICROCOMPUTER/KIM-1/REED RELAY	AD	7 N	N	C	
CHARGING & SWITCHING CCTS/KERR EFFECT/DIVIDER	AD	5 N	N	C	
BIKE/ALTERNATOR/AC./DC./DARLINGTON PAIR/BATTERY	A	2 N	N	C	46
HP DESKJET PRINTER/MS-DOS. COMPUTER/~15S	A	1 N	N		
NEGATIVE/POSITIVE VOLTAGES/RELAYS/ALC	A	6 N			
LINEAR/DARLINGTON TRANSISTOR/DRUG/NEURONS	A	7 N	N	C	
EED/EMP./EMI./EMC/FIRING LIKELIHOOD PLOT (FLP)	A	9 N	N	C	
UP.S/HEARING & SEEING AIDS/DEAF/BLIND/IMAGING	DA	6 N	N	C	57
TONE GENERATOR/PITCH/MUSICAL/LED.S	DA	4		C	
DIODE-METER CCT/RIT CCT/RF. AMP./CRYSTAL/CIO/QRP	A	3 N	N	C	
9V/VOLUME/2 CAPACITORS/DAC.S/PRESSURE TRANSDUCERS	AD	4 N	N	C	
DAC./0DEG C/100DEG C/OA.	A	4 N		C	
TRIGGER/DIFFERENTIATOR/PRESSURE/ENGINE	AD	7 N		C	E
+5V/-5V RAIL/TO HANDLE UNBALANCED LOAD CURRENTS	A	1 N	N	C	
LOGIC THRESHOLDS/INPUT TRANSISTORS/LOGIC PROBES	D	1 N	N	C	
TRIGGERS/TIMER/NAND GATE/REGULATOR/CLOCK/TTL.	AD	5 Y	N		
DETECTION/CHAOTIC DYNAMICS/FLUID/LIQUID/DROPS	A	4 N	N	C	25
THRESHOLD DETECTOR/INTEGRATOR/VOLTAGE FOLLOWER	A	1 N	N	C	
COMMUNICATIONS/EQUAL IMPEDANCES TO SCREEN/GROUND	A	3 Y	N		
LIGHT-SENSING/INTENSITY/DARKROOM/LAMP/PS.	A	3 N	N	C	
OA./FET./REFERENCE VOLTAGE/PSEUDO-ZENER DIODE	AD	3 Y	N		AJ
PHASE ANGLE/FREE RUNNING/DIODE/TRANSISTOR	A	2 N	N		
LOW LEVEL LIGHT DETECTOR/GERMANIUM/CAPACITANCE	A	8 N	N	C	
SHAPER/CHARGE-SENSITIVE PREAMP./GATED INTEGRATOR	A	5 N	N	C	
DAC./FET. ANALOG SWITCH/ATOMIC FLUORESCENCE (AF)	AD	2 N	N		
RESISTANCE/JFET./GATE-TO-SOURCE VOLTAGE	A	2 N		C	
HAMAMATSU/TIME JITTER/FLUCTUATIONS/PULSER/LED./GUN	A	7 N	N	C	
TRIANGULAR WAVEFORM/FOLLOWER/OFFSET/AUDIO/SPIKES	A	5 N	N		
INTERNAL POLE/OA.	AD	5 N		C	
OA./JFET. 3N187	A	5 N		C	
FF./TTL./ADDRESS-DATA PACKET/GATED CLOCK/1-SHOT	D	1 N	N	C	
10A AT 5V/DARLINGTON DRIVER/HEAT SINK	A	2 N		C	
AF.S/6KHZ/1.3MHZ/OUTPUT FREQUENCY	A	1 N	N	C	
RMS. CONVERTER/OA./AUDIO AMP.	A	5 N			
FIELD-GRADIENTS/MARK-TO-SPACE RATIO/COIL/OA.	A	3 N	N	C	
COMPUTER/LED.S/RGB./CAMERA/PHOTOGRAPHS/PICTURES	AD	3 Y	N		
DTMF. DECODER/FSK. MODEM	DA	5			
VOLTAGES/THRESHOLDS/2/REFERENCES	DA	3 N			E
DRIVER/CURRENT SOURCE/SINK/SWITCH/OA./LINES/700MW	AD	4 N	N	C	
DATA/0 TO 10V/OPTICAL/LIGHT REFLECTION/WAVES/WIND	AD	6 N	N	C	
RELIABLE/PHASE COMPARATOR/PICKUP/LPF.	AD	2 N	N	C	
EXTRAPULMONARY ELASTANCE/BREATHS/INSPIRATORY GAS	A	4 N	N	C	
POTTED/COMPACT/LED./ZENER DIODES/BRIDGE RECTIFIER	A	1 Y	N	C	95
OA.S/BUFFER AMP.S/ALC LOOP/AUTOMATIC LEVEL CONTROL	A	2 N	N	C	
S-METER/ANGLE/BRIDGE/RADIO DIRECTION FINDING (RDF)	A	2 N	N	C	

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FREQUENCY DIVIDER/NEURONAL/OSCILLOGRAPH	AD	5 N	C	
PARTICLE SIZES/8085A2 CPU./AMP./COMPARATOR/DISPLAY	DA	6 N	N C	
OA.S/SKIN SURFACE TEMPERATURE/RADIOTELEMETRY	A	2 N	N C	E
ACTIVE VOLTAGE SOURCE/CROSSTALK/NOISE	AD	1 N	C	
CARRIER SIGNAL/SUPPRESSION/INTERFERENCE/MULTIPLES	A	1 N	N C	
SENSITIVE & ACCURATE/MEASURING/LEVELS/ILLUMINATION	A	6 N	N	
1MA/2000V/SCINTILLATORS/PHOSWICH/CFD./BAF2 BALL	A	9 N	N C	28/AR
FEEDBACK-LOOP ANALYSIS/SPICE/ANALOG/RESPONSE/GAIN	A	4 N	N C	
VCO./FM. DEMODULATION/PHASE DETECTOR/LOOP FILTER	A	5 N	N C	
TEKTRONIX 31/AIR ACTUATOR/3-WAY NO OR NC/	DA	3 N	N C	
DPDT./LED.S/DOT/BAR/COMPARATOR/1.2V REFERENCE	DA	3 N	N C	
OA.S/VARIABLE WINDOW/RANGE/LED./2-WAY AC. SWITCH	AD	3 N	N C	
ARBITER SCHEME FOR INCREASED SPEED/COMMUNICATIONS	D	9 N	Y	
LIGHT ACTIVATED PULSE/MOSFET./NERVE	AD	7 N	C	
150W MONOLITHIC/CASCADING/DOUBLE OUTPUT SWING	A	9 N	N C	
SINE CONVERTER/SQUARER/PHASE SHIFTER/INTEGRATOR	AD	4 N	N C	28
TRANSFORMER/1.5A BRIDGE/FILTER/CAPACITORS/BYPASSED	A	1 N	N C	
CRYSTAL/PMT./CURRENT LIMITING/LOGIC/COUNT/NOISE	AD	6 N	N C	
COMPARATOR/60HZ PULSES/SERIAL/CMOS./DIN	DA	9 N	C	
"HOME STEREO" SOUND/CASSETTE PLAYER		3	C	
PICKUP/RF./EM. FIELD/VCO./INTEGRATOR/COUPLING	AD	6 N	N	
CALIBRATION TONE OSCILLATOR/FILTER		6		
MAGNETIC FIELD/TWICE THE SENSITIVITY/NORTH POLE	A	4 Y	N C	
BREADBOARD/PROTOTYPE DIGITAL, ANALOG & RF.	A	9 Y	N	
OPTOISOLATOR-COUPLER/OA./SCR./DIVIDE-BY-1000	AD	5 Y	N C	
LIGHTING SEQUENCE/RINGING/OSCILLATOR/DUAL OA./GATE	AD	2 N	N C	
CONTINUOUSLY ADJUSTABLE/TIMER/SAWTOOTH	AD	1 N	C	
POWER-AMP./NOISE REDUCTION/AUDIO	A	5 Y	C	
PHOTOVOLTAICS/VOLTAGE/CURRENT/SUNLIGHT	A	6 Y	C	42
		2	C	
STOP/SYNC INPUT/START-WIDTH/DELAY LINE/10GHZ	AD	2 N	N C	
MIXER/CAPACITOR/AC. SIGNAL/FREQUENCIES/NETWORK	A	3 Y	N	
MEASURING/FLUXGATE SENSOR/MAGNETIC FIELD/ADC./UP.	AD	5 N	N C	
ACTUATES/WITHOUT BURNING IT OUT/OA./DUTY CYCLE	A	1 N	N C	
UNIPOLAR SIGNALS/UNITY GAIN ADJUSTMENT/RESISTORS	A	1 N	N C	
RAIN/DRIVING/SWITCH/MOTOR/LED./UNDER THE DASH	AD	4 Y	N C	
GAMMA CAMERA/COMPARATORS/12 BIT COUNTER/FF./SCA.	AD	4 N	N C	61
SAR./DAC./COMPARATORS/PRIORITY ENCODER/0.5MHZ	DA	4 N	N C	
CRYSTALS/RF./SW./RIG/DIRECT CONVERSION RECEIVER	AD	2 Y	N C	
COUNTER/CAN LAST FROM 10US TO SEVERAL MILLISECONDS	D	1 N	N C	
FRONT END/SIGNAL-PROCESSING/INDICATOR METER/SENSOR	A	7 N	N C	
NOISE & HUM/ELECTRON TUBE	AD	2 N	N	42/65
VHF./RADIO-SCANNER/VCV (VARACTOR CONTROL VOLTAGE)	A	3 N	N C	
EMF./DVM./RC. CCT/EXPONENTIAL DECAY/STOPWATCH	A	3 N	N C	
TRI./COLOUR LED./VISUAL/COMPARATOR	AD	1		
SATURATION MAGNETIC MOMENT/DIGITISED/DETECTION	DA	4 N	N C	
HEATING CONTROL/SOLENOID/RELAY/DETECTOR	AD	4 N	C	
FET./RAMP GENERATOR/PREDRIVER/PEN CONTROL	A	5 N	N C	
AUDIO AMP.S WITH FEEDBACK/COILS/PC.-AT/680KHZ/RF.	A	6 N	N C	

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LIMIT INDICATING LAMP/3-TEERMINAL/HIGH-POWER	A	2 N	N	C	
SELF-EXCITED VIBRATION/EDDY-CURRENT PICKUP/MAGNETS	A	3 N	N	C	
EUROTHERM SCR. UNIT/831/FEEDBACK-CONTROL CCT/2KV	A	3 N	N	C	
FREQUENCY-TO-VOLTAGE CONVERSION/PHOTOTRANSISTOR	AD	6 N	N	C	
~50OHM/MONOCHROMATOR/GAAS./LOCK-IN AMP./LAMP/LIGHT	A	2 N	N	C	
PHASE/FREQUENCY/ZENER DIODE/TIME DELAY	A	2 N		C	
INTEGRATOR/TRANSCONDUCTANCE/OA.	A	2			
OSCILLATION/VARIES LINEARLY/TRIGGER/GAIN/AMP.	A	3 N	N	C	
DISPLAY/MUX.ING/HORIZONTAL LINES/VERTICAL/RASTER	AD	2 N	N	C	
TUNING AID/RADIO AMATEURS/OSCILLOSCOPE/LED./Q/GAIN	AD	5 N	N		
BALUNS/DIFFERENTIAL/CAMAC TDC.S/LAMPF/ECL./2.58NS	A	9 N	N	C	12
DC./RESPONSE/FLAT/HIGH INPUT IMPEDANCE/GAIN/AUDIO	A	2 N	N	C	
POWER MOSFET./WATER JET/GENERATE/COUNTERS/SWITCHE	DA	5 N	N	C	
TRIANGLE-WAVE/SQUAREWAVE OSCILLATOR/TAPE/FM.	A	2 N	N	C	
VOLTAGE MULTIPLIER/PHASE DETECTOR/METER	A	2 N		C	
FINGER-TAPPING/SWITCH/CONTACT/DETECT	AD	2 Y			
COMPARATOR/OA./LINEARITY/0.5%/V-F/SAWTOOTH/100HZ	AD	1 N	N	C	
POSITION SERVO LOOP/BRIDGE-DRIVEN MOTOR	DA	1 N	N	C	
2.3KV CATHODE/DYNODES/TEMPERATURE STABILITY	A	9 N	N	C	5
COMPARATOR/PHONE-ANSWERING/LED./ZENER DIODES	A	4 N	N	C	
FLASHLIGHT FINDER/INDICATOR/2.6HZ/VARIABLE-RATE	A	4 N	N	C	
QUAD/OA./INDUCTIVELY COUPLED/INDUCTOR/LISTEN IN	A	3 N	N	C	
RADIO-TNC. BOX/BATTERY-OPERATED/RF./LED./REGULATOR	AD	6 Y	N	C	
PHOTOPEAK/GAMMA-RAY/ENERGIES/HEIGHT	A	6 N		C	
POWER DISSIPATION/LV. PS./FORWARD DROP	A	2 N	N	C	
CHARACEAE/CELLS/MEMBRANES/POTENTIAL DIFFERENCE/PD	A	3 N	N	C	
SENSES/VOLTAGE DROPS/TEMPERATURE/78XX/THERMAL	A	2 N	N	C	
MATCHED/IMPEDANCE/>120DEG/RF./QUALITY FACTOR (Q)	A	3 N	N	C	
HEART-BUMP/REJECTION/DIGITAL FILTER/BREATHS/DATA	A	6 N	N	C	
CYCLOCONVERTER/3-PHASE/SINGLE-PHASE INDUCTION	AD	9 N	N	C	
LIGHT/TRANSDUCER/PHOTOTUBE/0-10V/0-10000HZ	DA	6 N	N	C	28
FAST DISCRIMINATOR/TRAPEZOIDAL WAVEFORM	AD	5 N		C	E
SOUND-PICKUP/FREQUENCY-SELECTIVE/LF./GENERATOR	A	3 N	N	C	
TOGGLING ACTION/RESISTORS/TIME DIVISION/ASSYMETRY	AD	1 N	N	C	
AMPLITUDE/RISE TIME/VOLTAGE/DURATION	DA	2 N		C	
PRECISION/POSITIVE/NEGATIVE/COMPARATOR	A	2 N		C	
VOLTAGE REGULATOR/LED./SCR./CURRENT/2 6V/2.5AH	A	3 N	N	C	
AMP./ROTATION/TORQUE/REDUCE POWER CONSUMPTION	AD	6 N	N	C	
EXTRA SPARKS/BETTER STARTS/PULSES		2		C	
FOR THE HEARING-IMPAIRED/MOV./PUMP/TRANSFORMER	A	3 N	N	C	
MOSFET. TUNED AMP./OSCILLATOR/COIL	AD	8 N		C	
SOLAR CELLS		1			
RELAY POWER REQUIREMENTS		2		C	
COMPARATOR/RELAY/THERMISTOR/TEMPERATURE SENSOR	AD	2 N	N	C	60
INDICATING/POWER LINE/LOAD/ENERGY CONSUMPTION	A	4 N	N		
THYRISTOR/STEP-UP PULSE TRANSFORMER/HEAD DISCHARGE	AD	5 N	N	C	
HARMONICITY/CHARGED PARTICLES	A	4		C	
LOCK-IN AMP./UHV./PROBE/PREAMP.	D	5 N		C	
"STAGGERED BRANCH"/50OHM IMPEDANCE	A	5		C	

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ACTIVATION ENERGY/STIMULATING PULSE/JFET./TRAP	AD	4 N	N	C	E	
LINE-VOLTAGE FLUCTUATIONS/QUALITY		3				
PMT./CONTROL OF PHOTOMULTIPLIER GAIN/ADC./LIGHT	AD	5 N	N	C		12
LED./STRESS/CRYSTAL/TRANSDUCER/KYNAR	AD	3 N		C		
MOTOR/AMPUTEE/PROSTHESES/SCR./ZENER/THERMISTOR	A	3 N	N	C		
MEASURE INDUCTANCE/COIL/COUNTER/LOAD CAPACITANCES	A	3 Y	N			
BIPOLAR/OA./WIPER/SLIDER/TRAVEL/PS./POLARITY	A	2 N	N	C		
INTEGRATOR/PV/SOLAR CELLS/DC. CHOPPERS	A	6 N	N	C		
NIM/TAC./MCA./DETECTION/DYE LASER/100MHZ	DA	6 N		C		
FREQUENCY TO VOLTAGE/SHIFT FREQUENCY/BLOOD FLOW	A	3 N	N	C		
TC./ACCURACY/SIMPLE/RANGE	AD	1 N	N			
PULSE BURSTS/AS SHORT AS 190PS/FWHM./3GHZ/APD.	A	6 N	N	C		
NEGATIVE/SHUNT/MCP./RESOLUTIONS BETTER THAN 40PS	A	5 N	N	C		
PROGRAMMING PIN/REVERSE HOOKUP/2716	A	2 N		C		
RECEIVER/AM.-FM./CB. CALLS/QUIET/RELAY	A	4 Y				
AMP./MUSIC/DIODE/BRIDGE CCTS/UNILATERAL ZENER	A	2 N	N			
PULSE/OPTICALLY ISOLATED/COMPUTER/SOLENOID	AD	5 N	N	C		
FUNDAMENTAL FREQUENCY/HARMONIC/SHUNT IMPEDANCE	A	1 N	N			
AUDIO FILTER/DOTS & DASHES/TIMING & SPEED/WORD	DA	6 N	N			
GSR/MOISTURE/STRESS/BATTERY-OPERATED/SPEAKER	A	3 Y	N	C		
NARROW/WIDE/~\$10/25-30DB OF ADDITIONAL/SELECTIVITY	A	1 N	N			28/95
SUN/GERMANIUM/VOLTAGE-DOUBLER/REGULATION	A	3 N		C		42
QSK/VARACTOR DIODE/INCREMENTAL TUNING	A	5 Y				
FET./CONSTANT CURRENT/TRICKLE CHARGES	A	1 N		C		
MOTOR/BUFFER GATES/COIL CURRENT	DA	4 N		C		
12V/COIL RESISTANCE OF/185OHM	A	1 N	N			
400-1000NM/RADIATION/WHEEL/WAVELENGTH	D	8 N		C		
ADD-ON SOURCES		1		C		
COMPUTER-TO-PHONE-LINE INTERFACE		2		C		
<20 DOLLARS/15 YEARS AGO		9		C		
CLOCK OSCILLATOR/BUFFER/PUSH-PULL	AD	5				
CONNECTS DIRECTLY/AC./48VDC./DIODES/CLAMPING/650MV	A	2 Y	N			
TRIP POINT/TRIGGER/LIGHT/TRIMMER POTENTIOMETER	A	1 N	N	C		46
VIDEO/DISSIPATES ~3.5W/MOUNTING/ZENER DIODE	A	2 N	N			
PS./HIGH RESOLUTION IMAGING/LIGHT/PHOTOGRAPHY	AD	7 N	N	C		
POLAROGRAPHY/BRIDGE CCT/POLARITY/ELECTRODE/CLUTCH	A	4 N	N			
NEON LAMP/RC./CAPACITOR/BILATERAL TRIGGER/AC.	A	3 N	N	C		
FSK./OA.S/DLO/SAW./DIGITAL/BANDPASS FILTER/IBM/PC.	AD	9 N	N	C		
12V DC./MOD.S/CONTROLLER/WIRE/CABLE/TEST PROGRAM	A	2 Y	N			
MAGNETICALLY SUPPORTED/TUBE/SIMPLE/INEXPENSIVE	A	4 N	N	C		
PTT./CW./AMP./TIT (TRANSMITTER INCREMENTAL TUNING)	A	4 N	N	C		
-25DEG C TO +110DEG C	A	3 N		C		
HANDY GADGET/WITH A NUMBER OF RIGS	A	1				
APFIM/UHV/MEBE/HV. DC. PS./VAPOR DEPOSITION	A	5 N	N	C		14/25
DBM./FF./COIL/10A/POWER TRANSISTOR/RF. POWER AMP.	AD	9 N	N	C		42
FRONT/BACK/TERMINATING/MONITORING/ICF	A	8 N		C		
COMPUTER/INPUT IMPEDANCE/2.2MOHM/VISUAL WARNING	A	1 N	N			
SPEED/RE-BIASED/MOTOROLA 10000 SERIES/LOGIC	DA	2 N	N	C		
ISOLATION AMP./HF. SPIKE REJECT FILTER/400HZ	A	3 N	N			

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THERMAL STABILITY/CURRENT/CROSSOVER DISTORTION	A	1 N	N	C	
PROBES/SILVER FOIL/STRESS	A	1			
LISTING/BASIC/CUSTOMER/NUMBER/AUTO-DIAL	A	5 N		C	
RISE & FALL TIMES/15NS/FAST PIN PHOTODIODE/XTOF.	A	9 N	N	C	
SAWTOOTH WAVEFORM/BISTABLE/TRIGGERS/3 TO 97%	DA	1 N	N	C	
DIGITAL FREQUENCY/TUNING/CONVERTER	D	2 N		C	
AVALANCHE TRANSISTORS/RISE TIME/<2NS/2.4KV/JITTER	AD	3 N	N	C	
FREQUENCY STABILITY/OSCILLATOR/10MBITS-S/PLL.S	DA	3 N	N	C	
PATIENT-MONITORING/SENSOR/LED./DIP.	A	3 N			
PAIR/CARRIER/DRAIN/GATE PORT/OA. GAIN/BUFFER	A	1 N	N	C	
0.001HZ TO 2MHZ/UP-DOWN COUNTER/LOCK-IN AMP./GPIB.	DA	6 N	N	C	
VARIABLE, AF. OSCILLATOR/SAWTOOTH WAVEFORM/VCO.	A	4 N	N	C	
120V/RESISTANCE/HV. TRANSISTOR/LINE ISOLATION	AD	2 N	N	C	94
FOLLOWER/DROPPING MERCURY ELECTRODE (DME)/CELL	A	7 N	N	C	25/91
WINDOW COMPARATOR/BEL FUSE/DELAY UNIT/BUFFER	DA	4 N	N	C	
EMITTER-FOLLOWER/MOBILE/AUTOMOBILE/FM.	A	9 N			
VIDEO/CPU./RAM./EPROM./SHIFT REGISTERS	D	7 N	N	C	
BATTERY-OPERATED CLOCK/POWER-SOURCE/AC. LINE	A	3 N	N	C	
SATURATION AMP./LC. TUNING CCT/SQUARE WAVE TRAINS	DA	4 N	N	C	
PARALLEL RESONANT/SERIES-RESONANT CRYSTAL/STABLE	A	6 N	N	C	
COMPRESSOR MOTOR CONTROL/LEVEL	A	1		C	
SCINTILLATOR/LIGHT/FWHM./PSI CYCLOTRON/PION/PULSES	A	7 N	N	C	
LO./VSWR./BIRD WATTMETER/COAXIAL	A	5 N	N		
EXCITER/TR. RELAY/GRID-DRIVEN TETRODE/TRANSISTOR	A	3 N	N		
DISTORTION REJECTION/HIGH IMPEDANCE/THD./0.0003%	A	2 N	N	C	8
RS232C INTERFACE/SIGNAL CONDITIONER/PC./DMM.	A	3 N	N	C	
COMPARATOR/RECHARGEABLE/100V/NICD.	AD	3 N	N	C	
NAI(TL) CRYSTALS/GLASS COUNTERS/CHERENKOV LIGHT	A	9 N	N	C	5/61
UMNLIMITED-VOCABULARY SPEECH PROCESSOR/INTERFACEDDA	DA	3 N	N	C	
VOLTAGE-TO-CURRENT CONVERTER/LED./PHOTOTRANSISTOR	A	1 N	N	C	
PARALLEL EMITTER-FOLLOWER AMP.S/TERMINATION/75OHM	A	3 N	N		
FREQUENCY TO VOLTAGE/NARROW BAND FILTER	AD	4 N		C	
LF./TRANSISTOR/MOSFET./DIODE/TUNING	A	5 N			
GENERAL INSTRUMENTS/CODE-TO-SPEECH/BREAK-INS/AMP.	AD	6 Y	N		
PROTECTED BY DIODES/50HZ UP TO ~50KHZ/9V BATTERY	A	3 N	N		
IDEAL SOURCE IMPEDANCE/QUIETER/IBM PC./FFT.S	A	4 N	Y	C	
MEASUREMENTS/FLOATING POTENTIALS/+-19V/0 TO +35V	A	9 N	N	C	12/42
TV.S/VCR.S/VIDEO/AUDIO/HIGH-INTENSITY LED./SOUND	A	4 N	N	C	
ZENER DIODE/TRANSISTOR/STABLE/MINIATURE TUBES	A	2 N	N	C	E
HIGH-IMPEDANCE DIFFERENTIAL INPUTS/TEE NETWORK	A	2 N	N	C	
FILTERING & AMPLIFICATION/SYNTHESIS/NAND GATE	AD	1 N	N	C	E
SUPERCONDUCTING BOLOMETER/NOISE/LASER/CMRR./>120DBA		9 N	N	C	
GAS CONSUMPTION/DRIVING HABITS		3			
PYROELECTRIC DETECTOR/VOLTAGE-TO-FREQUENCY/FAR-IR.	A	5 N	N	C	
FEEDBACK LOOP/AMP.-LOOP STABILITY/SUMMED/BROADBAND	A	4 N	N	C	
HV./UV. LIGHT/CERN./MUON SCATTERING/BEAM/SHIELDING	A	8 N	N	C	61
-20DB ATTENUATOR/9V BATTERY/TESTS/POTENTIOMETER	A	1 N	N	C	
DVM./LINE FILTER/LPF./NULL DETECTION/NOISE	A	4 N	N	C	
LNA./TRIPLE DOWN-CONVERSION/LO./RF./SINGLE CHIP	AD	7 N	N	C	

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THYRISTOR/30:1 RANGE/LED./FLASH/FIRES/TRANSISTORS	A	1 N	N	C	
DEMULATOR/BUFFER/OUTPUT LPF./LOW-POWER BUFFER	A	1 N	N	C	
HIGH SPEED/LOGARITHMIC/BETAS/TRACKING/ARRAY/LINEAR	A	9 N	N	C	
N-CHANNEL/POTENTIAL/BETWEEN INPUT & OUTPUT	A	1 N	N	C	
DIODE CLAMP/GATE-SOURCE INTERFACE/SWITCHING/50OHM	AD	3 N	N	C	
VOLTAGE LIMITERS/MOV.S/SELENIUM	A	5 N	N		
PROJECTILE/POWER CCT/CURRENT TRANSFORMER/CHECMATIA	A	6 N	N	C	
LOW NOISE BIPOLAR/DIODES/RF./DIPLEXER/NMR./COIL	A	8 N	N	C	
AVALANCHE TRANSISTOR/DRIVER/NEGLIGIBLE JITTER	A	3 N	N	C	
PROPORTIONAL & INTEGRAL TERMS/FEEDBACK CONTROL	AD	4 N	N	C	
SLEW RATE/130V-US/BIASED/IDLING CURRENT/DRIVERS	A	4 N	N	C	
DIFFERENTIAL AMP./HIGH-GAIN OA.	A	1 N		C	
HANDSET/RECORDER/ON-HOOK/LIGHT/TIMING CCT/MESSAGE	A	1 N	N	C	
BIASING/CLASS C AMP.S/TUNING/MOUNTING/LF. FEEDBACK	A	3 N	N	C	
SCHOTTKY DIODE/CAPACITIVE EFFECTS/SPICE/MOSFET.	A	8 N	N	C	
LOCK-DETECT/MARK-HOLD/DELAYS/VHF./HF.	A	2 N			
PWM./LC. RESONANT TANK/DC./CLASS-E/MILLER EFFECT	A	9 N	N	C	
TANK/TRANSISTOR/TUNED PLATE-TUNED GRID (TPTG)	A	1 N	N		
TEST PLATE/INTERFACING/TO DATA PROCESSOR	DA	3 N		C	
CARRIER DETECTION/PSK./FSK./FULL-DUPLEX/300/1200	AD	9 N	N	C	
SIGNATURE ANALYSIS/200 TO 500NS/UP./RELAY MUX.	D	5 N	N	C	57
FREE-ELECTRON LASER (FEL)/19KV PULSE/20US/LINACS	A	9 N	N	C	
AVOID FLASHES DURING PAGE SWITCHING/SUPERIMPOSING	D	7 N	N	C	28
SLEEP/UP TO 31MIN AS MANY TIMES AS YOU WISH/OA.S	AD	4 N	N		
PHONE LINE INTERFACE/RING DETECTOR/DTMF. RECEIVER	DA	9 N	N	C	
MAGNET/HALL-EFFECT/RECORD & PLAYBACK/VOICE/WORD	AD	4 Y	N	C	
WARNING INDICATORS/JEWELRY/ORNAMENTS	A	4 Y		C	
MODE-LOCK A LASER/49.40MHZ RF. OSCILLATOR/FLASH	A	2 N	N	C	
ACCESS III/DTMF./ANSWERING MACHINE/MODEM/PS.	AD	4 N	N	C	
SOUNDS/RECORDING/PERSONALIZED/MOV./OPTOCOUPLER	AD	4 Y	N	C	
LATCH/SHIFT REGISTER/MEMORY/CONTROL/ACCELERATOR	DA	3 N	N	C	
"PUSH-PULL" TOTEM-POLE/REMEDY FOR TIMING-OVERLAP	AD	3 N	N	C	39
MOSFET.S/1.44KW/PEAK/360W/AVERAGE/220-350V/32V	AD	9 N	N	C	6
FREQUENCY-TO-VOLTAGE CONVERTER/VFC./DIELECTRIC	AD	2 N	N	C	
ADPCM./HUMAN/FORMANT/CPU./PARAMETRIC/DAC./COMPUTERDA	DA	5 N	N	C	
COMPRESSION/NONVOLATILE SRAM./ADPCM. PROCESSOR	DA	3 N	N		
PULSE-FORMING NETWORKS/HIGHER CURRENT/HV./STACK	A	2 N	N	C	
REDIAL/LAST NUMBER RECALL/PABX./SLIDING CURSOR	A	2 N	N		10
QUAD OA./OFFSET/SPAN/WATER/CALIBRATION/TUBING	AD	5 Y	N	C	
VOLTAGE-BOOST, SWITCHING REGULATOR/HV./AVALANCHE	A	1 N	N	C	
TRANSFORMER/MAGNETISING ENERGY/FORWARD & FLYBACK	A	4 N	N	C	E
CHOPPER-STABILIZED/WEIGHT-SCALE CCT/TRANSDUCER	AD	9 N	N	C	
TRANSFORMER/FLYBACK/START-UP/MOSFET./DIODE/DAMPING	A	8 N	N	C	
100MV SENSITIVITY/ADJUSTABLE CURRENT THRESHOLD	A	8 N	N	C	
CHARGE PUMP/EFFICIENCY/LAMPS/LOW-CURRENT/PS.S	AD	9 N	N	C	
RECTIFIER/UTILITY LINE/ISOLATION/HF. TRANSFORMER	AD	7 N	N	C	
HOME-MADE/OSTROFF-WAUGH/25MHZ/ANGLE/RF. GATES/AMP.	DA	6 N	N	C	
LED./HADRON/MAGNET/TRIGGER LOGIC/BEAM	A	9 N		C	
SOFTWARE CONTROLLED/PICTURE/CMOS./VLSI./SOUND	DA	2 N	N	C	42

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RS LATCH/BIDIRECTIONAL MOSFET./BOUNCE-FREE	AD	1 N	N	C	
CAPACITORS/RESONANTLY CHARGED TO 20KV	A	5 N		C	
UART./SEQUENTIAL CCTS/TERMINAL/COMPUTER/VERIFY/PC.	DA	9 N	N	C	
TRIGGER/BIAS/DC. HV./CABLE/UV. RADIATION/EROSION	A	5 N	N	C	
MELODY-SYNTHESIZER/RING DETECTOR/SPEAKER	A	2 N		C	
SIDETONE/METER/PADDLE/RELAY/SUPPRESSION	A	5 Y			
CRYSTAL OSCILLATOR/80286 CPU./CAD./ENHANCEMENT	D	2 N	N		
FAILED/DEFECTIVE/PROBLEMS	A	1 N	N	C	
MODULATOR/NEGATIVE-GOING/CHANGE-OVER SWITCH	D	1 N	N		
DIVIDER/RELAY/TRANSMITTERS/MORSE/CODE	D	4 N			E
ANTENNA MEASUREMENTS/WAVEMETER	A	2			
12-STEP/LOW-DISTORTION/FILTERING/GATE	DA	1 N		C	
MONITOR/SLOW-SCAN TV./ROM.	D	2		C	
GAIT/DEBOUNCE/REPETITION RATE GENERATOR/NOR	DA	9 N	N	C	
ANALOG VIDEO INPUT/IO./DAC./ADC./PORT/TIMER/CLOCK	D	9 N	N		
RETRIGGERABLE MONOSTABLE/CMOS. GATE	D	1 N			
LED.S/GLITCHING/SPDT./NOISIEST	D	1 N		C	
PADDLES/MICROSWITCHES/RF./POWER FET./RTTY./KENWOOD	AD	2 N	N	C	
SATELLITES/RECEPTION/CAPTURE/ASCII./FSK.	DA	6 N			
DATA/LANGUAGE/PORT LINES/SERIAL IO. & RS232C/MODES	D	8 N	N	C	
SDK 85/8085/ADC./DAC./DATA/WAVEFORMS/PLOTTER/QRS	DA	6 N	N	C	
WHEEL/HIGH-SPEED CMOS./LIGHT/PHASE COMPARATOR	DA	4 N	N	C	
UV. EPROM./RAM./RS232/PORT/BEDSIDE MONITOR/PC.	AD	9 N	N		25
CORE TO SHIELD/LED./D-TYPE FF./WIRING/RESET	D	4 Y	N		69
SOLENOID/MOISTURE/REFRIGERATING/SENSORS/THERMAL	A	4 N	N		76
RC. ELEMENT/NOR-GATE/RESISTORS/LINE	D	1 N		C	
LINE/MONITOR/CONSOLE/TRANSMISSION GATES	DA	1 N		C	
THERMISTORS/TRIAC/LOW-TEMPERATURE	A	2 N		C	
COUNTER/MUX./PLL./60HZ/BRIDGE/ADC./COMPENSATION	DA	5 N	N	C	
LEVEL SHIFTER & INVERTER/AMP.S/TUNED CCTS	DA	2 N	N	C	
MULTIMETER/CAPACITOR-DIODE/CURRENT-FREQUENCY	A	2 N	N	C	
DIODES/TRANSITION/DIGITAL INPUT SIGNAL/DETECT	DA	2 N	N	C	
SAMPLE-CHANNEL CCT/DIFFERENTIAL AMP./OA./TRIAC	A	6 N	N		25
CMOS. QUAD 2-INPUT NAND SCHMITT TRIGGER/TRANSISTOR	DA	4 N	N	C	
BAR-GRAPH/CAR'S ENGINE SPEED/AUTOMOBILE/RPM.	DA	7 Y	N	C	
ADD PARITY/SHIFT REGISTER/FLASH ADC./GAAS./CODING	DA	8 N	N	C	
PREDETERMINED FREQUENCY & REPETITION RATE/FEEDBACK	D	1 N	N	C	
LOW COST/CW. SELECTIVITY/IF. FILTER	A	6 Y			
1000:1 TUNING RANGE/TRIANGLE/SQUARE	A	2		C	42
CMOS. HEX INVERTING BUFFERS/TTL. CHIPS/SWITCH	D	6 Y	N	C	
FREQUENCIES/CRYSTAL/2M BAND/MIXER/LO.	A	3 Y	N	C	
CMOS./VOICE SYNTHESIZER/RADIO/LOGIC/SWITCH/DIODES	D	2 Y	N	C	
IMAGES/INDUCTION MOTOR/PARALLEL/TRIPLE MIRROR	DA	7 N	N		
ROOF RACKS/JEWEL BOXES/TONE GENERATOR	DA	3 Y			
CAPACITATIVE COUPLING/PICK-UP/BUFFER	D	1 N		C	
FF./GATED ASTABLE MULTIVIBRATOR/NEWSPAPER	D	3 N	N	C	
MHTDC/TPC./CAMAC LOGIC/INFORMATION/MECL. MEMORY	D	3 N	N	C	
PHASE MODULATION/MONOSTABLE M.V./DIODE CLIPPER	AD	2 N	N	C	
5 LOGIC SWITCHES/MILLER ENCODER/SERIAL DATA	D	4 N	N	C	

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SLOTTED DISC/PHASE COMPARATOR/VCO./FREQUENCY/PULSEAD	1 N N C
INTEGRATOR/PUSHBUTTON/PULSE/CONDITIONING	D 2 N C
CRYSTAL HEADSET/VOLUME/161KHZ/FILTER	D 1 N C
CODED SWITCH/UP TO 9 SWITCHES	D 1
LINEAR AMP./INVERTER/GATE/MICA	D 1 N C
MAGNETOMETER/COILS/REMOVAL/ADC./FLUXGATE	AD 4 N C
SENSING ELEMENT/SHIELD/ATMOSPHERIC	A 3 N C
ACCUMULATION/DATA/PULSE-HEIGHT SPECTRA/MUX./SCALER	D 2 N N C
GATES/144MHZ/30DB OF ON-OFF ISOLATION/LOGIC LEVEL	AD 2 N N
PLL./SYNTHESIZER/COUNTERS/CMOS./KEYBOARD/SWITCHES	DA 5 Y N C
SWITCHING/CLAMP/CELL/OA.S/CROSSOVER DISTORTION	A 4 N N C
2.7MOHM POTENTIOMETER/VARIABLE TIMES/PERIOD/CR	DA 1 N N C E
OSCILLATOR DRIVER/A FEW SECONDS/TO ABOUT AN HOUR	DA 2 N N C
DECIMAL POINT/COUNT-RESET/DISPLAY START-STOP	DA 9 Y N C
CPU./14BIT TIMER/COUNT/8 BIT PORTS/SINE WAVE	D 2 N N C
UP.-BASED/HDLC./COMPUTERS/LINK/FULL DUPLEX/8-BIT	D 6 N N C AV
AMP./CMOS. INVERTERS/OA.S/LEVEL	D 1 N
ANTENNA/TRANSMITTING FREQUENCY	A 1
BINARY COUNTER/FF./27XX/ADDRESS	D 1 N C
SWITCHING GLITCHES/SMOOTHED/TIMING/STEPS	AD 1 N N C
TYPICAL ECL. GATE	5
RC. DELAY/CMOS./PHILIPS CAPACITIVE HUMIDITY SENSOR	D 1 N N C
PC./8 HV., HIGH-CURRENT OUTPUTS/POWER RELAY/MOTORS	DA 8 N N C
VOLTAGE CONVERTER/COCKROFT-WALTON SERIES-FED/GATE	D 2 N N C
COIL/SPEAKER/SENDING/AUDIO/TONE OSCILLATOR/PS.	A 3 N N
RS-232-C PORT/PC./AUTO-ANSWER MODEMS/DCD SIGNAL	D 1 N N
CLOCK/DETECTION GATE/STATE STORAGE/ENABLE/NAND	D 2 N N
PELTIER ELEMENTS/TEMPERATURE PROBES/DAC./EPROM.	AD 9 N N C
AF.S/SCALED DOWN/COUNTER/MICROPHONE/AMP./DECODER	DA 1 N N
SERIAL/LINK ADAPTER/MEMORY/RS232/CPU./RGB. ENCODER	DA 6 N N C
DATA TRANSMISSION/INTERLOCKED/TALKER/LISTENER	D 3 N Y C
ADDRESS BUS TIMING/MUX.ED/CYCLE/SHIFT REGISTER	D 1 N N E
LINEAR TO BETTER THAN 0.04%/CHARGE/15 TO 500PC	AD 3 N N C 61
MOSFET. PREAMP./PULSE-SHAPER CCT/DISPLAY	DA 8 N
DISCRIMINATOR/ADC.S/TDC.S/SCINTILLATION COUNTER	D 9 N N C 39
HIGH INPUT IMPEDANCE/NOISE-IMMUNITY	AD 1 N C
'TRANSMISSION GATE'/ANALOGUE/GAIN/SWITCH	AD 8 N
RECORDS/CARTRIDGE/CMOS./IR. TRANSMITTER	DA 3 Y
HAM RADIO/9V BATTERY/VOM/DOTS & DASHES/SPEED POT	D 2 Y N C
FREQUENCY/GAIN/2-LEGGED GATE/GATED OSCILLATOR	D 1 N N C 46
PLATE/NEUTRALIZATION/IMPEDANCE MISMATCH/METER	A 1 N N C
INPUT LEAKAGE CURRENT/0.1PA/RAMP MONITOR/OA.	AD 5 N N C 61
NOISE/CHAMBER/WIND TUNNEL/VELOCITY/MOD.S/FLOW/FID	A 6 N N C E
LF./1GHZ/ECL. PRESCALER/FAST	DA 2 N C
LOGIC ELEMENTS/8 LED.S/CODE/EPROM./VLSI.	D 6 N C
WAVEMETER/WAVEGUIDE/RF./ANTENNA/GUNN OSCILLATOR	A 2 N N C
SIMULTANEOUS/COMPUTER/MAGNITUDE & PHASE/1HZ-100KHZ	AD 6 N N C
TIME-RESOLVED SPECTROSCOPY/PHOTOELECTRIC DETECTIO	A 4 N N C
REGULATING ELEMENT/2-CHANNEL/CURRENT SOURCES/IR.	A 3 N N

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CONTROL VOLTAGE/PRESET STATIONS/LADDER/RAMP/MEMOR	DA	2 N	N	C	
RELAYS/SPACE HEATING/COLLECTION/STORAGE	A	2 N			
PROTECTION/FOILS/SOGGY/WINDOW/SHOWERS/SENSOR	AD	2 N	N		
LOW-PRESSURE GAS DISCHARGES/COIL/LASER	A	4 N	N	C	
LIGHT/ALARM BELL/TRANSIENT PROTECTOR	A	1 N		C	
MORE ACCURATE READINGS OF RF./STRENGTH	A	2 N		C	
SCHMITT TRIGGER/MONOSTABLE MULTIVIBRATOR	DA	3 N		C	
THYRISTOR/VOLTAGE-CONTROLLED SWITCH/PROGRAM/PULSE	EA	5 N	N	C	
IMPLANTED/MOSFET./SCR./TELEMETRY TRANSMITTER/RF.	AD	3 N	N	C	
TIMERS/STROKE/COMPARATORS/OVERLOAD PROTECTOR/AMP	AD	2 N	N	C	
PUMP BEAM/RING DYE LASERS/POWER/MEASURED/OPTICAL	A	3 N	N	C	
	D	1 N	N	C	
		2		C	
UNITY GAIN STABLE OA./BUFFER	A	2			
SENSOR/WATER/SCR. TESTER/MUSIC/LIGHT MODULATOR	A	5 N	N	C	
PRICE & ACCURATE MEASUREMENTS/VOLTAGE-CONTROLLED	A	4 N	N	C	
TRANSMITTER/RANDOM CONTACT/VHF./CW./COMMUNICATIONS	DA	5 N	N		
LED./VISUAL INDICATOR/LINE/ANODE-CATHODE/BUTTON	A	4 Y	N		
ILLUSTRATION WAS OMITTED FROM/ARTICLE/N.C. SWITCH	A	1 N	N		
PROGRAMMING & ERASING/SWITCH/DEVELOPMENT	DA	2 Y	N		35
ALLOY/FOCUSED CW. CO ₂ LASER/OXYGEN ENVIRONMENT	A	4 N	N	C	
OA.S/BILATERAL SWITCHES/VOLTAGE COMPARATORS/AMP.S	A	1 N	N		
STATUS/INDICATES/ADDRESS-DECODE LOGIC/ERROR/TEST	D	1 N	N	C	
DECODER/DATA REG./TRS-80 ADDRESS BUS	D	2 N		C	
OTHER COMPUTERS/PITCH/OCTAVE/HANDSHAKE	AD	6 Y			
-183.0DEG C TO +200DEG C/LINEAR/MEASURES	AD	9 N	Y	C	
LED. DISPLAYS/HF. OSCILLATOR/DECADE TIMEBASE/MUX.S	DA	5 N	N		
NORTON AMP./B-Q FILTER	A	8		C	
SPEECH SYNTHESIZER/AUTODIALER/TELEPHONE	DA	9 N		C	
CENTRONICS/UNIPOLAR/BIPOLAR/SOFTWARE-CONTROLLED	AD	9 Y	Y		
HEATING SEASON/HEATED AIR/TRIAC/RH./ENERGY COSTS	A	3 Y	N		
COIL/SCOPE/ANALOG DIVIDER/CRYOGENIC	A	3 N		C	
SIGNALLING/TOUCH-TONE/FREQUENCIES/MATRIX/GENERATOR	DA	6 Y	N	C	
LED.-PHOTOTRANSISTOR/1-SHOT/MISSING PULSE DETECTOR	A	1 N	N		
RTC./BIOS./CPU./COUNTERS/8-BIT IO./DMA./TIMEBASE	D	9 N	Y		AY
DMA. CONTROLLER/CLOCK GENERATION/ASIC./84-PIN	D	6 N	N	C	
BANK SWITCHING/LINE DECODER/COMPARATOR	D	4 N			
COMPUTER/RESPONSE SWITCHES/TONE GENERATOR/LIGHT	AD	7 N	N	C	
VARACTOR DIODE/HV./FREQUENCY CORRECTION/RADAR	A	2 N	N		57
VIDEO/CRT./PICTURES/GLASS DELAY LINE	A	4 N			
TRANSCEIVER/EPROM./NCR/BUS SPEEDS/DATA TRANSFER	D	5 N	Y	C	
OSCILLATOR/CRYSTAL DETECTOR/IF./RF./CW./SIDEBANDS	A	6 N	N		
12.7904MHZ/JFET./FM./FROM DC. TO 100KHZ/IDT/SAW.	A	8 N	N	C	
8-BIT LENGTH/LOGIC FUNCTIONS/TTL./FAIRCHILD	D	4 N	N	C	
NZB/GAASFET./PSPICE/HP4145A SEMICONDUCTOR/ANALYZER	A	7 N	Y	C	
PHASE NOISE MEASUREMENT/BARRIER DIODES/FULL-WAVE	A	3 N	N		
PULSE WIDTH/STABLE STATE/1-SHOT	A	1 N		C	
AMP./CONDITIONS/INPUT SIGNALS	AD	6		C	
INTERFACE CARD/MICROCOMPUTER/MEMORY/LED./8088 UP.	D	3 N	N		

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POSITIVE CLOCK EDGE/LOAD/TRIGGER/TIMING DIAGRAMS	D	1 N	N	C	
AUDIO/RECORDER/IO./EXCHANGE DATA/RADIO/MIKE JACK	DA	2 N	N	C	
MUX./DATA SELECT INPUT/LED.S/LOGIC GATE	DA	5 N			
ADDRESS/DECODER/"PULSE STRETCHER" FIX	D	4 N			
MOTOR/ROTATION/TRIAC/PROTECTS/FF.	AD	1 N		C	
MOVING-DOT VOLTAGE INDICATOR		5			
	D	4		C	
TO VOLTMETER/COMPUTER CONTROLLED/TEMPERATURE	A	9 N	N	C	
RESETS/DISCHARGING/CAPACITOR/RESTARTS/PULSES	AD	3 N	N	C	E
MULTIPLE/8/ENABLE LINES/RINGING/STANDING WAVES	D	3 N	N		
RESISTORS/AMP./NPN/PNP/SWITCHES/CURRENT	AD	3 N	N	C	
PMT./KEPCO/PS./COMMON EMITTER/SPECTROMETER/GFAA	AD	9 N	N	C	25
1000-3000/METRABYTE, PIO 12/EGA/COSY/ROI/ASCII.	D	9 N	Y	C	
VOLTAMMETRIC ANALYZER/VOLTAGE REFERENCE SOURCE	A	2 N	N	C	
STEPPER MOTORS/RADIATION PATTERN/ANGLE	D	3 N		C	
TRANSIENT PROTECTION/EPROM./RAM./8073 SINGLE CHIP	AD	5 N	N	C	
OVEN/HIGH-TEMPERATURE REFERENCE LOAD/80-150GHZ	A	3 N	N	C	
BROAD BAND/PMT./TTL./LOG AMP./HOLLOW CATHODE LAMP	AD	6 N	N	C	
TTL./RAM./IO./FAST/ADC.S/SH./DAC.	D	6 N	N	C	39
OA./PROBE VOLTAGE, GAS LEAK RATE/MAGNETIC FIELD	A	8 N	N		12
HIGH-SPEED HCMOS. SCHMITT TRIGGER/NAND	AD	2 N		C	
OUTPUT LEVEL/OA./SIMPLE TO BUILD	A	2 N		C	
DIGITAL SYNC SEPARATOR/ODD-EVEN FIELD	D	5 N		C	
250KHZ CLOCK/60HZ STROBE PULSE/VOLTAGE REFERENCE	DA	1 N	N	C	
DELAY/~18MIN/TRIGGER/BLOOD SAMPLES/SENSOR/RELAY	AD	2 N	N	C	
VCO./VARIABLE-SPEED/WIND-DRIVEN/TURBINE/SPEED	A	9 N	N	C	
OA., RLC. RESONATORS & POTENTIOMETERS/RECURRENT	A	8 N	N	C	42
PRECISION LIMITER/BIASING CCTS/OA.S/COMPARATOR	AD	8 N	N	C	
ATOMIZER-PS./TRANSDUCER/VARIABLE/RAMP RATE/LIGHT	A	4 N	N	C	
ELECTROPHYSIOLOGIC EXPERIMENTS/BULB/THERMAL SENSOF	A	4 N	N	C	
IR. TRANSMISSION/GAME/LIGHT/NARROW/BEAM/FILTERS	A	1 N	N	C	46
OPTICAL ISOLATOR/IFF/650PS/HIGH-SPEED	DA	3 N		C	
20HZ INPUT/ANY INPUT FREQUENCY/CLOCK	D	1 N		C	
PROM.S/PROGRAMMABLE LOGIC	D	5			
		3		C	
SOFTWARE/DATA ACQUISITION/DATA BUS	D	9 N		C	42
EXPANDORAM./8085/IMSAI/MEMORY MANAGEMENT/S-100 BUS	D	4 N	N		
MULTIPLE LIGHTNING STROKES/DEAD-TIME/UP./10MHZ	DA	5 N	N	C	
PRESET/SHIFT-REGISTER/DIVISORS/CLOCK CYCLE	D	1 N	N	C	
VOLTAGE-LEVEL SHIFTER/COMMON-EMITTER/HF./MEGAHERTZ	A	3 N	N	C	
PHASE/AMPLITUDE/NON-CONTACTING/ROTATION OF A SHAFT	A	3 N	N	C	
OSCILLATOR/5MHZ/BNC CONNECTOR/DIVIDERS/FREQUENCY	DA	4 N	N		
THERMOMETER BRIDGE/SENSOR/COLD FINGER/THERMAL	A	1 N	N	C	
TRANSISTOR/2-TO-1-OF-4 DECODER/2-BIT COUNTER/ADC.S	AD	4 N	N	C	42
COUNTING CCT/IR./CAR/ALTERNATOR/DIESEL/READ	A	2 N	N	C	46
MONOLITHIC DUAL COLOR LED.		3			
ENCODING/DVORAK/SOFTWARE/DECODER/PIO	D	9 N		C	
J-K FF.		1		C	
SWITCH/RETUNE WHEN YOU CHANGE BANDS/TRANSCEIVER	DA	2 N	N		

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FREQUENCY DIFFERENTIATION CCT/VOCAL TRACT/SPEECH	DA	4 N	N	C	
DUAL-TRACE/TIME-DOMAIN/VECTOR-DISPLAY/COMPUTER	DA	9 N	Y	C	
TV./LIGHT BEAM/SCREEN/VIDEO INTERFACE CONTROLLER	DA	4 N	Y		
ADDRESS BIT/TRISTATE BUFFER/LOGIC/DPDT. SWITCHES	D	1 N	N		
EXTERNAL PULLUP/CMOS./74HC14/DISCHARGES/RECHARGE	DA	1 N	N	C	
68000/3-STATE BUFFERS/ACCESS/QUAD 2-INPUT MUX.	D	3 N	N	C	
UP.S/PC./TTL./8 BIT BIDIRECTIONAL BUS/INSTRUCTION	DA	9 N	N	C	
DOT/DASH/AUDIBLE TONE/AUDIO IN/TTL. OUT/LED.	AD	3 N	Y	C	
A FEW PASSIVE COMPONENTS/OUTPUTS/COMMON	A	1 N	N	C	
PULSES, RAMPS/SINE/FOURIER/GIBBS PHENOMENON/LF.	A	3 N	N		
WATER HEATING/TANK SENSOR/PUMP/COLLECTOR	A	4 Y			
DEMODULATOR/ATARI(R) 400 OR 800/RGB./RAM.	AD	4 N			
MEASURE THE NUMBER OF PULSES/TRIGGER/RATE IS 25MHZ	D	5 N	N	C	
PUSH-PULL/Q-SWITCH/ON-OFF PULSING/TURN-ON-TURN-OFF	D	1 N	N		57
FULLY STATIC/MUX.ED/LATCHED/16 OUTPUT PORTS/UP.	A	9 N	Y	C	
100HZ TO 200KHZ/EDGES/ADJUSTMENT/OUTPUT/DC. SIGNAL	DA	2 N	N	C	
LOGIC/TIMING/EVENT COUNTER/COUNTDOWN	D	4 N		C	
UP./PROGRAM/PROM./COUNTER	D	1 N		C	
SUB-CARRIER/VIDEO/RECEIVER/TTL./AUDIO	D	1 N			
ZENER DIODE/OA.	A	2 N			
RF./POWER LEVELS/HETERONUCLEAR DECOUPLER	AD	4 N		C	
VFC.	DA	1			
ADAPTER/REMOTE-CONTROL/TRANSCEIVER	DA	5			
COMPARATOR/DIGITAL/LO.	DA	3 N		C	
D FF.S/LOCKOUT/SWITCH DEBOUNCING	D	1 N		C	
OPTICAL MCA./RESPONSE	D	4 N	N	C	
TTL.-COMPATIBLE CLOCK PULSES		1			
HOME/INSTALLATION/BELL/WIRES/WINDOW		1			
MUSIC KEYBOARD/MICROCOMPUTER		1			
ELECTRON FLUENCE/VAN DE GRAAF		2		C	
THERMOCOUPLE/5C-800C/+1C/FREQUENCY	AD	1			
BULB/SSB. TRANSMITTER/CW. RF. OUTPUT/LEVEL BALANCE	A	3 Y	N		
PROGRAM EXECUTION/DECODER/LOCATIONS/MODE/RESET	D	1 N	N	C	
ADDRESS DECODER FOR DATA LATCHING/S-100 BUS	DA	9 N	N	C	42
FF.S/DELAY LINE/NAND GATES/MCM6664	D	1 N	N	C	
NMR. SPECTROMETERS/WIDE RANGE OF SWEEP DURATIONS	A	2 N	N	C	
OA./X-OR GATES/ZENER DIODE/OUTPUT IS A PULSE TRAIN	AD	3 N	N	C	
9 FET.S/DETECTOR/BALANCE/COIL/PREAMP./OSCILLATOR	A	2 N	N	C	
BUFFER/25FT/>100FT/OVERTONE MODE/CRYSTAL/COIL	DA	1 N	N		
SAWTOOTH/PUSHPULL/CRO./ELECTRON TEMPERATURES	A	2 N	N		
SUBTRACTIVELY NORMALIZED INTERFACIAL/SNIFTIRS	AD	5 N	Y	C	
DECODER/SEQUENCER/COUNTER/HEXADECIMAL KEYPAD/1MIND		2 N	N	C	
AAS./RESPONSE/DETECTION LIMITS/ANALYTICAL CURVES	A	8 N	N	C	42
1NS PULSE SHAPER/VHF. PULSE GENERATOR/HF./CRYSTAL	DA	3 Y	N		
WORKS FROM 1 TO 7V/OSCILLATING/FREQUENCY/LV./5UA	AD	1 N	N	C	
EXPANSION BUS/PRINTER/CONNECTOR/PORT	D	2 N			
FIELD MAN'S FRIEND		1		C	
PRECHARGE-DELAY/PULSE GENERATOR/150NS/CLOCK/20MHZ	D	1 N	N	C	
STUDENTS/ELECTRONIC ENGINEERING/TEACHING/COURSES	A	9 N	N		

Sheet1

TONE/CONDUCT/NEGATIVE CYCLES/0.6V/ROLL OFF/LOW END	A	1 N	N	C	E
FET./OA./DIODE/CELL/DMM./DVM./0-200UA/0-2.5V	AD	1 N	N	C	
UP./SNR. IS EXCELLENT/LIMITS/33MA/OPEN-COLLECTOR	DA	1 N	N	C	
RESISTOR/CAPACITOR/FREQUENCY/BUFFER/DUAL OA.	A	1 N	N	C	
350V PK-PK/SYNC./X AMP./BLANKING	AD	1 N		C	
INFORMATION/ELIMINATES GROUND LOOPS/700V/ISOLATION	DA	3 N	N	C	
BIPHASE CLOCK/OTDR/RAMAN SCATTERING/CMOS./5NS	D	3 N	N	C	
TRANSMIT & RECEIVE/STAKE/TRANSFORMER/IMPEDANCE	A	6 N	N		
FIBRE-OPTIC CABLE/LV. REFERENCE	A	4 N		C	
PULSE GENERATOR/LEAKING/CAPACITOR/LED.	DA	2 N		C	
VIDICON TUBE-BASED/CELL/OMA/LIGHT/MINICOMPUTER	D	3 N	N	C	
COMPUTER/3-TO-8-LINE DECODER/MUX.-DATA SELECTOR	D	2 N	N	C	3
SNR. FOR A 800HZ SIGNAL IS >26DB/ADC. OF SPEECH	AD	6 N	N	C	
DIGITAL COMMUNICATION/BIT RATE/CLOCK/BIT STREAM	D	5 N	N		
PHASE COMPARATOR/MANCHESTER-ENCODED DATA	AD	1 N		C	
DIGITAL COMMUNICATIONS/VIDEO PROCESSING	D	2 N		C	
1-SHOT/RETRIGGERABLE/PULSE/COUNTER/PARC	D	3 N		C	
TRANSMISSION/LINE DRIVER-RECEIVERS/BYTE/FLAG	D	1 N	N	C	
MECHANICAL/10 TO 2000HZ/BLADES/VOLTAGE REGULATOR	A	4 N	N	C	
NIGHT/PHOTON/OA.S/LED.-MV5020	A	5 N	N	C	
WIND TUNNEL/HEAT TRANSFER/AIR SPEED/FAN/PITOT TUBE	A	8 N	N		
SHIFT REGISTER/DOWN-COUNT/DIVISION RATIO/RECEIVER	D	3 N	N		
COUNTER/START/STOP/ADJUST/AMPLITUDE/1024 STEPS	DA	2 N	N	C	
PIEZO BUZZER/OSCILLATOR/OA./RF. SIGNAL/TESTING	A	7 N	N	C	
SIGNAL TRANSITIONS/AMPLITUDE/TESTING COMMUNICATION	D	1 N	N	C	
DAS./MUX./FF./COUNTER/BUFFER & DECODE/DATAWAY/7474	D	3 N	N	C	12
SCHMITT TRIGGER/METER/COLOR-PHOTOGRAPHY/LED./RELAY	A	9 Y	N		
EMI./OA./BALANCE POINT/STABLE/+~0.5DEG C	A	2 N	N	C	
OPTOISOLATOR/HANDSHAKING/PULSING/IBM-COMPATIBLE	DA	6 N	Y	C	
ECD/ELECTRONIC CIRCUIT DESIGNER/CCTS/SOFTWARE/BW.	A	2 N	N	C	
HF./LF./RETRIGGERABLE/1-SHOTS/OR GATES/DELAY LINE	DA	1 N	N	C	
RF. HV. PASS/SPIN-LOCK PULSE SPECTROMETER/AMP.	DA	5 N	N	C	
EMERGENCY SIGNALS/COMMUNICATIONS/DISTRESS/C-CELLS	D	1 N	N	C	
Z-MODULATION PULSE/TRIGGER/DOT/SCANNER	AD	4 N		C	
16-INPUT AND GATE/PC.-XT OR PC.-AT/BIDIRECTIONAL	D	2 N	N	C	
HIGHER-VOLTAGE/REGULATION/DISCHARGE	A	2 N			
OPTICAL/FIBER OPTIC CABLE/PENLIGHT/PC.JR JOYSTICK	AD	4 N	Y		
TRIGGER/KICK DRUMS/TOM-TOMS/SOUND/OA./DELAY/REVERB	A	2 N	N		
PREVENTING/OVERWRITING OF DATA/TTL./COMPUTER/LASER	D	4 N	N	C	
PULSE SORTER/TAC./DIGITAL DELAY GENERATOR (DDG)	DA	9 N	N	C	
OA./BUFFER AMP./CURRENT-TO-VOLTAGE CONVERTER/SSR.S	AD	2 N	N	C	34
DC. MICROAMMETER/OA./METER-CALIBRATION CCT	A	3 N	N	C	
PHASE RELATIONSHIP/PERIOD/LENGTH/T=0.7XRC./210US	D	1 N	N	C	
NAND GATES/BLINKING/CLOCK/CC (CHANGE COLOR)/SHADE	D	1 N	N	C	
FOR A LATER RESTART/RC. OSCILLATOR/COUNTER	DA	1 N	N	C	
16-KEY ENCODER/CODE/DATA AVAILABLE LINE	D	2 N		C	
SIMPLE MULTIPLE MICROCOMPUTER/UP.S/ARBITRATION CCT	D	7 N	N	C	
300W/15A/TRIAC/AC. LINE/LSI./PROGRAMMABLE TIMER	AD	5 N	N	C	
BALANCED INCOMPLETE BLOCK DESIGN (BIBD)/KIRKMAN	A	5 N	N	C	

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COMPUTER/SPECTROMETER/NMR./BROADBAND	D	7 N	C	
FET. INPUT OA./FEEDBACK/FLIGHT TESTED/DC. DRIFT	A	3 N	N C	
OXYGEN/LOGGED/MIRINZ/REGULATORS/NATIONAL/RECORDER	A	5 N	N C	
HIGH SPEED/24MHZ/TTL./TRANSIENT	D	5 N	C	
DATA/MEMORY/PULSES/UV. RADIATION/\$40	D	5 N		
VARIABLE POSITIVE VOLTAGE/CURRENT/DC. MOTOR/DUAL	DA	9 N	N C	
DIGITAL PLL. (DPLL)/VCO./PHASE-FREQUENCY DETECTOR	AD	5 N	N C	4
OSCILLATOR/KEYING/LIGHT COUPLING/COMMUNICATION	AD	2 N	N C	
RAM./ROM./MICROCOMPUTER/OSCILLATOR/TIMER	D	4 Y		
IN CONJUNCTION WITH A DIVIDER & PHASE DETECTOR/OA.	A	1 N	N C	
TRANSISTOR SWITCH & LED./OSCILLATOR/MICROAMMETER	DA	1 N	N C	
LED./TROUBLESHOOTING/LOGIC FAULTS/POWER DISRUPTION	A	1 N	N C	
HEADLIGHTS-ON REMINDER/TEMPERATURE/HEATING/VENTING	A	4 N	N C	
NAND GATES/PULSES/LOGIC/PUSH-BUTTON SWITCH/COUNT	DA	1 N	N	
OUTPUT-PULSE WIDTH/BIPOLAR/CMOS./400 TO 1800HZ	AD	2 N	N C	
SCANNING RECEIVER/SCANNER/UJT./CHARGE/DISCHARGE	A	1 N	N	
TRIGGERING/NON-RETRIGGERABLE/TIMING/TRIGGER PULSES	A	3 N	N	
LATCHED/GENERATES/TRIGGERING/R-S FF./RESET	DA	1 N	N	
TIMER IC/IO./LISTING/CALIBRATION/PROGRAM	DA	6 N	Y C	
KEY SWITCH/DELAY/DISARM/MEMORY/ENTRY/LED.	DA	3 N	C	
OSCILLATOR/TIMER/MORSE CODE	A	1	C	
MERCURY-WETTED/PTT. LINE/TRANSVERTERS/GAASFET.S	A	2 N	N C	
MACROMOLECULES/COLLOIDS/LIGHT/LED./PTFE./DETECTOR	AD	4 N	N C	
220MHZ CONTROL LINK/REMOTE ANTENNA CONTROL/HAM	A	4 N	N	
TRANSMISSION/HYSTERESIS/PHOTOTRANSISTOR	AD	1 N	N C	
PROBE TIP/TTL./CMOS./TRANSISTOR/INVERTER/LED.S	AD	2 N	N	
1S/2 D-TYPE FF.S/DRIVES A RELAY/LED. INDICATION	DA	1 N	N C	
POTENTIOMETER/CALIBRATION CURVE/CURRENT	A	2 N	C	
SEPARATION/RECORDED DATA/SYNCHRONIZATION PULSES	D	9 N	N C	
DOOR/HOOD/TRUNK/OPEN/FALSE TRIPPING/SOUNDS/TRIGGER	A	1 N	N C	
PULSES/BUZZES LOUDLY/MONOSTABLE/AUDIBLE WARNING	DA	3 Y	N	
INEXPENSIVE/ASTABLE MULTIVIBRATOR/500HZ/HV.	A	4 Y	N C	
COMPUTERS/CONTROL PINS/DISABLED/STANDBY/WRITE/READ	D	3 N	N C	
NAND GATES/BLOCKED/HIGH/LF./MULTIVIBRATOR	D	1 N	C	
WORKING/REFERENCE ELECTRODE/BUFFERED/FOLLOWER	A	4 N	N C	25
MULTIVIBRATOR/DRIVING/POLYIMIDE (PI)/CAPACITANCE	AD	4 N	N C	
LED. LIGHTS/PHOTO RESISTOR/CELL/OUTPUT BUFFER	A	2 Y	N C	
UP./Z80-BASED/DATA COMMUNICATIONS/COUNTER/SOFTWARE	A	9 N	N C	
RANGE SWITCH/TIMER/200 PF/10 UF	A	2 N		
tone GENERATION/DETECTION/TELEPHONE	DA	3 N	N C	
PROGRAM/CAPACITORS/TRS-80 MODEL I	AD	3 Y	Y	
SENSORS/SWITCHES/TIMER/REED/FIRE BELL	A	4 Y	C	
PULSE WIDTH/UNKNOWN CAPACITOR		1	C	
SPEED/PITCH/VARIABLE		1	C	
CMOS.		1		
LINEAR/BUFFERED/STABLE		2	C	
EXTRACTOR FAN		1	C	
MICRO- OR MINICOMPUTER/PARALLEL/PORT/Z80	D	9 N	N C	42
COR CCT/SSR.	AD	1 N	N C	

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ASSEMBLY-LANGUAGE/COMPUTER/CENTRAL HEATING SYSTEM	3	N	Y	C	
SEQUENCE/BINARY OUTPUT CODE/INCREMENTED/STATE	D	1	N	N	C
TELEPHONE/AUDIO/COUNTER/TIMER/PIEZO BUZZER/DECODER	DA	4	N	N	
FLY-BACK/TV./TIMER/SQUARE WAVE GENERATOR/EXCITER	A	1	N	N	C
TRIGGER/RED LED./LIGHT/ADJUSTABLE/~10S/~1MIN	A	3	N	N	
MONOSTABLE MULTIVIBRATOR/1-SHOT/FF./MEMORY/16-USER	DA	7	N	Y	C
CMOS./TIMER/MONOSTABLE MULTIVIBRATOR/THRESHOLD	DA	2	N	N	C
INTRUDER SENSOR/OUTDOOR LAMP FLASHES/BREAK-IN	DA	4	N	N	C
ANALOG MULTIPLIERS/PIEZOELECTRIC/SYNCHRONIZED/TTL.	AD	3	N	N	C
PULSE-OMISSION DETECTOR/COMMUNICATION/SINGLE-SHOT	AD	2	N	N	
PULSE REPETITION FREQUENCY .05HZ THRU 400KHZ	DA	2	N	N	C
2W/EFFICIENCY OF 80%/BETWEEN 35KHZ & 80KHZ	A	1	N	N	C
HAND/TENSION LEVEL/STRESS/MONITOR	DA	9	N		C
RADIOACTIVE DECAY/CHARGE-DISCHARGE OF A CAPACITOR	A	4	N	N	C
TIMER/CAMERA/CAPACITOR/5S EVERY 10MIN/ADJUSTMENT	A	2	N	N	C
DELAYS/CAPACITIVE DISCHARGE/ATOMIC ABSORPTION	AD	8	N	N	C
BCD.-TO-DECIMAL DECODER/PICKUP COIL/TTL./TIMER/OA.	DA	4	N	N	C
START/BYPASS/+9V	AD	2	N	N	C
RS-232/MODEM LOGIC/DIGITAL/AUDIO TONES	DA	9	N		C
UP./USER'S PORT/MEMORY EXPANSION/RTC./BASIC/IO.	DA	4	N	N	C 42
HYGROMETER/PSYCHROMETER/WATER VAPOR/AIR/MEASURIN	A	4	N	N	42
LIGHT PROBE/LIQUID-LEVEL INDICATOR/THERMISTOR	AD	7	N	N	C
PULSED OR CONTINUOUS OUTPUT/NAND GATE	AD	3	N		C
CLOUDS/PROBE/ACCURACY OF 4%/ICE CRYSTALS	AD	3	N		C
UP./CASSETTE TAPE RECORDER/VOLTAMMETRY/ELECTRODES	DA	6	N	N	C
SWITCHING SEQUENCE/COILS/RUN/WINDINGS/LOGIC/WIRES	DA	3	N	N	C
POTENTIOMETERS/DIODES/RESISTOR/VOLTAGE	A	2	Y	N	94
OSCILLATOR/FREQUENCY DOUBLER/PULSE TRAIN/RF./TUBE	A	6	N	N	C
PHOTON COUNT RATE/DISPLAY/PORT/RAM./VIA.	DA	6	N		C
SLICER/TONE DECODER/SPACE/MARK DETECTOR/LIMITER	AD	6	N	N	C
SLF OSCILLATOR/VCO./1 SHOT/ENVELOPE/ATTACK-DECAY	AD	3	N	N	C
RF./OA./INTERROGATOR/SENSOR/INDICATOR/READOUT	A	4	N	N	C
SWITCHES/RECORD/STOP/CHANNEL-SELECTION	A	4	N		C
COMPUTER-CONTROLLED SCANNING/TONE DECODERS/PS.	AD	2	N	Y	C
NAND GATE/BW./200HZ/READ/BYPASS SWITCH/LED.	AD	1	N	N	C
INTERFACED/DAC./VIA./MONOSTABLE/RAMP/MICROCOMPUTER	AD	2	N	N	C
DIFFERENTIAL AMP./UNBALANCED/ANTENNA TUNER/MATCHES	A	3	N	N	C
LINEAR & DIGITAL IC'S/SH./LIGHT/LOGIC	AD	2	N	N	C
UP./PHASE CONTROL LOGIC/GEARBOX/SKIN DISCOLORATION	AD	4	N	N	C
COMPUTER/ADC./PMT./POLYCHROMATOR/UP./READOUT/MUX.	D	9	N	N	C
PROGRAM LISTING/TOUCHTONE GENERATOR	DA	5		Y	C
COMMUNICATIONS/CLOCK/NAND GATE/AUDIO OSCILLATOR	DA	2	Y	N	C
CHANNEL/LEFT/RIGHT/CONTINUITY/CONTACT/STEREO/LIGHT	A	2	N	N	
RECEIVER COR SIGNAL/INTERFACING/PTT./CW.	DA	7	Y		
TRANSFER THE ANTENNA, SPEAKER, KEY, & MICROPHONE	A	3	N	N	
80, 40, 20, 15 & 10M BANDS/ANTENNA/RF. COIL/TUNING	A	6	Y	N	
16-KEY KEYPAD/500 TO 29999KHZ/SCANNING/RECALL	DA	4	Y	N	
AC./CAPACITOR/FULL-WAVE BRIDGE RECTIFIER	A	2	N		C
1-2S PULSE/CONTACTS	A	1			C

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LED./FULL CHARGE (~1A)/TRICKLE CHARGE (50MA)	A	2	N	N	
RESISTANCE/TUNED AMP./HEATER/FET.S	A	3	N		
GATE/CONTINUES TO GLOW/VOLTAGE DIVIDER	A	1	N	N	
LIGHT/EMITTED/OPTICAL INTERRUPTERS/INVISIBLE RAYS	A	1	N	N	
ADDRESS/POINTER/28-PIN DIP. SOCKETS	D	2	N		C
INTERFACE LOGIC/ROM./BIDIRECTIONAL BUS DRIVER	DA	3	N	Y	C
BINARY SWITCH SETTINGS/FREQUENCY DIVISION/DIVIDER	D	1	N	N	C
OSCILLATOR/STEP, TROT, GALLOP/RIGHT/LEFT/BACKWARD	DA	2	N	Y	
LOUD, PIERCING TONE/FLOODING/PUSHBUTTON/TEST	A	2	Y	N	C
THERMOCOUPLE/VACUUM SYSTEM/TRANSDUCER/FURNACE	AD	4	N	N	C
64K DRAM./256X128 PIXELS/PICTURE	D	4	N		C
CONTROL UNIT/CONTACT RATING/CURRENT/3A/MOTOR	A	2	N	N	
<\$5/POTENTIOMETER/"TALK POWER"/GAIN ADJUSTMENT/9V	A	1	N	N	C
PROGRAM EPROM.S/ASSEMBLY/S-100 BUS/MICROCOMPUTER	A	6	N	N	C
VIDEOGAME CARTRIDGES/AUDIO CASSETTE TAPE	A	4	Y		C
ROM.-HELD OS./LED. DISPLAYS	D	4	N		C
MICROCOMPUTER-BASED/BIOPOTENTIAL SIGNALS/ECG.	DA	2	N	N	C
PC.S/PIPELINES/XR ACCESSES/LATCHES ADDRESS/CONTROL	D	6	N	N	C
SAMPLING RATE/5MHZ/8 BITS RESOLUTION	D	2	N		C
SYNTH/SEQUENCERS/CURRENT LOOP/TTL.	AD	5	Y		
CONVENIENCE/LIGHTING/COMPUTER/DIMMING	DA	9	N		C
CMOS. VLSI./HAZARDS/NMOS./WARNING/SUPERVISED/IO.	DA	9	N	N	C E
EPROM./SRAM./RELAY/DIALING/FILTER/ZCD.S/LATCH	AD	9	N	N	
FREQUENCY TO VOLTAGE CONVERTER	A	4			
9MHZ CRYSTAL FILTER/SPACE/VFO./DRIVER/AUDIO	A	9	Y	N	
RS-232 SERIAL PORT/PC./UP./DIGITAL SCOPE/TRANSIENT	DA	9	Y	Y	
BUS/PROGRAM COUNTER/MOSTEK'S STD. BUS-BASED CPU-1	D	1	N	N	C
BUFFER-DRIVER/FINAL AMP./PIERCE CRYSTAL OSCILLATOR	A	3	Y	N	C
RADIO/RECEIVER/EPROM./PORT/5V PS./64 CHARACTERS	AD	4	Y	N	C AY
MEASURE MINUTE CURRENT DIFFERENCES/PROBE	A	3	N		
TRANSISTOR/SINKS CURRENT/ZENER DIODE/PROTECTION	DA	1	N	N	C
READOUT/DETECTOR ARRAY/DATA-ACQUISITION	DA	9	N		C
EPROM./CPU./RAM./DMA./UP./ADDRESS, DATA, & CONTROL	D	4	N	N	C
DYNODES/BLEEDER CURRENT/TEMPERATURE STABILITY/GAIN	A	7	N	N	C 61
DIP. VERSION/TRANSCEIVER/POR (POWER-ON-RESET) CHIP	AD	6	N	N	57
DATA BUS/TTL.-LEVEL/OSCILLATION/BARE-BONES	D	2	N	N	C
DAS./POSITION-SENSITIVE DETECTOR/TOF./MAPPER/ADC.	D	9	N	N	C 39/61
SMOOTHING CAPACITOR/RECTIFIER/VOLTAGE	A	3	Y		
HANDSHAKE/BUS TRANSCEIVER/LINE DRIVER/68000/VMEBUS	D	6	N	Y	C
9V AT ~850MA/ADAPTER/VAN/TRAVELING/HEAT-SINK	A	1	N	N	C 46
TINY-BASIC/INTERPRETER/IO./UART./COUNTER-TIMERS	D	9	N	N	C 39
SDLC/DMA./CPU./IO. LATCHES/LOCAL NODE/MEASURING	D	5	N	N	C
BILATERAL SWITCH/OA./ISAAC-2000/DAS./COMPUTER/ADC.	AD	2	N	N	C 47
CLOCK RADIO/AUDIO OUTPUT TRANSFORMER	A	2	N		C
GAAS./SI/VOLTAGE DROP/DIODE/EMIT/LIGHT	A	1	N		
SOLAR POWER CELLS/BOATS/MOBILE RADIO	AD	3	Y		
SERIAL IO. UP./ADDRESSES/MEMORY CONTROLLER/BUS	D	1	N	N	C
COM PORT IO./INTERFACE/UART.S/HANDSHAKE/DCE/DTE	AD	8	N	N	
RF./~\$25/SUPPRESSED CARRIER MODULATION/DBM./MMIC.	AD	4	Y	N	C

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THD./0.3%/MUSIC/8 OR 16OHM	A	1	N	N	C	
LINEAR ACCELERATION/DECELERATION/CONTROL	A	1	N		C	
RF.-PROOF/455KHZ IF. TRANSFORMERS/LOGARITHMICALLY	A	4	Y	N	C	
GAIN CONTROLLED RF. AMP.S/SANYO/PULSE RESPONSE	A	2	N	N		
HIGH INPUT IMPEDANCE OF 1MOHM/HIGHLY STABLE/DRIFT	A	1	N	N	C	
POWER OA./MOTION/TIP/PC. AT COMPUTER/APEX/FEEDBACK	AD	5	N	N	C	
TELESCOPE/PHOTOGRAPH/FILM/CLOCK DRIVE/GEARS/STARS	AD	5	N	N	C	
PROPORTIONAL DRIFT TUBE/PDT/CONTOURS/FRONT END	AD	8	N	N	C	
DIGITALLY PROGRAMMABLE OSCILLATOR/CMOS. SWITCH	A	4	N	Y	C	
16 CHANNEL/COMPUTER BUS/PARALLEL INTERFACE/H11-2	DA	2	N	Y	C	
PIVKUP COIL/POWER AMP./OA. COMPARATOR/EDDY CURRENT	A	2	N	N	C	39
SOFTWARE/SYNCHRONOUSLY/INTERNAL OPTOISOLATORS/6USAD		1	N	N	C	
NTC. RESISTOR/SENSORS/AMP./GREEN/RED/COMPARATOR	A	3	N	N		
TEMPERATURE SENSOR/REFERENCE VOLTAGE	A	2	N		C	
FET OA./DECOUPLER/LED.S/AUDIBLE WARNING/AGC. CCT	A	3	N	N	C	
SIGNAL GENERATOR/NUMBER-CONTROLLED OSCILLATOR/NCODA		9	N	N	C	
SINEWAVE INVERTER/SQUARE WAVE/120VAC.	A	3	N			
HEAT/HIGH-CURRENT/THERMAL PROTECTION	AD	5	N		C	
DATA/CLOCK/TEXT DISPLAY/TV. SYNC/SYNCHRONIZING	DA	9	N	N	C	42
SNR./FET.S/CAPACITANCE/PIXEL/EXPOSURE TIME/LIGHT	AD	3	N	N	C	
UNICURVE THERMISTOR/OA./HEATER/NICHROME WIRE	A	2	N	N	C	
RS-232/TTL./YAESU'S FT-980 HF. RADIO/PC.S/TIMER	AD	6	N	Y	C	
INTEGRATES THE DIFFERENCE/GOOD LINEARITY/3 DECADES	A	1	N	N	C	
		1			C	
DVM./BASIC/RAM./USR JMP	DA	1	N			
INVERTER OUTPUT AMP.	A	3	N		C	
INDICATOR/UP-DOWN COUNTER/0-100DEG	AD	9	N		C	
INDUCTIVE LOAD/SYMMETRICAL/ADJUSTABLE PULSE WIDTH	AD	9	N	N	C	
INVERTING/20HZ TO 10KHZ/PROPERTIES/10^12OHM	A	4	N	N	C	
<\$10/FREQUENCY/MULTI-TURN POTENTIOMETER/READ-OUT	A	1	N	N	C	
TESTING OF PRECISION HIGH-SPEED OA.S/SETTLING TIME	AD	9	N	N	C	E
HEAT/OA./DARLINGTON POWER AMP./THERMISTOR PROBE	A	3	N	N	C	
RELIABLE, & RUGGED/<\$75/ANALOG DEVICES/HEATER	A	2	N	N	C	
SERIAL PORT OF AN IBM PC./USER PORT OF A BBC/TIMER	AD	8	N	N	C	
COMPUTING/EXPRESSION/SQUARING CCT MAY BE FORMED	A	1	N	N		
MM5837/NOISE SOURCE/NOISE DIODE/LASER BEAM/LED.S	A	3	N	N	C	
DIODE ARRAYS		5				
INEXPENSIVE/FEEDBACK LOOP/TIMING/WAVEFORMS/FILTER	A	4	N	N		
VARIABLE WIDTH 1 SHOT/CRO./DAC.S/RAM./BCD. COUNTER	AD	3	N	N	C	
4-INPUT/CMOS./ACCURACY/WITHIN 0.01%/+-10V/OA.S	AD	1	N	N	C	
BURST/CARRIER/ACC FILTER/AFPC/CRYSTAL	A	5	N	N		
POCKET-SIZE/TRANSMITTER/RECEIVER/MINI-AMP./OA.	A	5	N	N		
IMPEDANCE/ANTENNA TUNING UNIT (ATU)/MATCHED/100UA	A	2	N	N	C	
FLOATING IMMITTANCE/SIMULATION/BANDPASS FILTER	A	2	N	N	C	
MARK-SPACE RATIO/MULTIVIBRATOR/BAND OF ~1K	A	1	N	N	C	
5PA/TERAOHM/RESETTING/MEASURING	A	3	N	N		
THERMOELECTRIC POWER SIGN/SEEBECK/HEATER	A	2	N	N	C	
LINEAR/MAX666/LONGER BATTERY LIFE/5UA/9V/+5V/40MA	A	5	N	N	C	
MICROAMMETER/VOLTAGE SOURCE/GOOD/ACCURACY OF 1%	A	1	N	N	C	

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ELECTRODELESS/0.01 TO 100 MHO-M/MHD/EXCITATION/EM.	A	4 N	N	C	
FREE SOFTWARE/SW. RADIO/TONE/ASCII.	AD	3 N			
GERMANIUM RESISTANCE THERMOMETERS	A	2 N		C	
PMT./BEAM/RUBIDIUM/SINGLE MODE/SEMICONDUCTOR	A	5 N	N	C	
ADVANCED PERIPHERAL DISPLAY CONTROLLER/VCO.	DA	8 N	N	C	
DRIVING A 150OHM LOAD/GAIN-BW. PRODUCT OF 1GHZ	A	2 N	N	C	
OVERCURRENT TRIP/OPTOCOUPERS/HV./1000V/25ADC.	A	2 N	N	C	
RECEIVER FRONT-END/THOROUGH SHIELDING/SNR.	A	7 N	N	C	27
INTERFACE/CURRENT SOURCE/SUPERCONDUCTIVITY	D	6 N	N	C	
-10.24 TO +10.235V/WIDTH FROM 0 TO +20.47V/OA.S	AD	2 N	N	C	
PHOTOTRANSISTOR-OUTPUT/ELECTRICAL ISOLATION/IRED.	AD	7 N	N	C	
LO./BUFFER AMP.	AD	1		C	
PFM./SWITCHING REGULATORS/MOSFET./LCD./PALMTOPS	AD	7 N	N	C	
IO. CONTROLLER/DATA TRANSFER/INTEL-TYPE BUSES	D	5 N	N	C	
ANALOG SWITCH/GAIN-ADJUSTING CCT/TRIANGULAR WAVE	AD	4 N	N	C	
ADC./DAC./IA.S/+15V DC./HF.	A	5 N	N	C	
SWITCH SELECTS THE SAMPLE RATE/CALIBRATION	DA	2 N	N	C	
VARACTOR DIODE/DIVIDE-BY-2/VHF./PARAMETRIC DIVIDER	A	7 N	N	C	
DAC./OA./COMPARATOR/ECG./QRS/8255A/ISOLATION AMP.	DA	9 N	N		3
160-190KHZ/2-WAY COMMUNICATIONS/HAMS/FET./AMP.	A	6 Y	N	C	
NOISE/COIL/ZEEMAN/CW.	A	9 Y		C	
MODULATION/MOVEMENT OF THE BEAM/SPUTTERING/100KV	A	5 N	N	C	61/88
WAVEFORM/MONITORS		2		C	
AC. PS./HT. DC. PLATE VOLTAGE/50OHM DUMMY LOAD	A	2 N	N	C	
ELF./VOLTAGE/INDICATION OF DISTANCE/TRANSDUCER	A	1 N	N		27/42
ON-THE-AIR/DOOR OPENER/SCR./DIAC	A	4 N		C	
DATA/LINKS/OA./FSK./AUDIO TONES/TRANSMISSION/TTL.	AD	5 N	N		
READOUT/CALCULATOR/SKY/HOUSE/DRIVE BELT	A	2 N		C	
BUZZER/CALL ALERTING/EXTENSION/FCC/OFF HOOK/JACKS	A	2 N	N		
TRANSCIEVER/OPTOISOLATORS/RTTY./CW.	DA	4 Y			
LED. DISPLAY/10HZ RESOLUTION		4			
LED. NUMERIC/TEST INSTRUMENT/CRYSTAL/TTL. LEVELS	DA	8 Y	N		
IF./RF. AMP./MIXER/LO./NBS./CALIBRATE/TEST/PS.	AD	8 Y	N	C	
CPU./SERIAL/RS-232/TIME PROCESSING UNIT (TPU)/IO.	DA	9 N	N	C	
2 CLOCK CYCLE READ & WRITE/PAL./EPROM.S/IO./DUART.	DA	6 N	Y	C	
INTERFACE/PARITY GENERATOR-CHECKER/INTERRUPT/CPU.	D	8 N	N	C	
ECL./UNIVIBRATOR/PMT./CLIPPING CCT/COMPARATOR	AD	9 N	N	C	61
PHYSIOLOGY OF EXERCISE/SKIN/CONTACT/JERK REFLEX	DA	2 N	N	C	E
4 LED. INDICATORS/THRESHOLD/ZENER DIODE/OA.	A	2 N	N		94
VSYNC/RGB./Z MODULATION/SHARP PICTURE/RAMP	DA	1 N	N	C	
+5V/WINDINGS/256/STEPS/POWER-TRANSISTOR/FLEXIBLE	AD	2 N	N	C	
SHORT MAIN-POWER FAILURES/TIMER/DRAWS <50UA/RESET	A	1 N	N	C	
BREAKPOINT GENERATOR/MIXER/OSCILLATOR	AD	7 N			
LUNG/THORACIC GAS VOLUME (TGV)/RAMP/VOLUME/DIODE	A	4 N	N	C	
CHARGE MEASUREMENTS/AMORPHOUS SEMICONDUCTOR/TEFA		3 N	N	C	
50OHM/ALUMINA/LASER DIODE/RF./APD./COMMON-SOURCE	A	9 N	N		
PLL./DIFFERENCE AMP./CURRENT MIRROR/RC. NETWORK	AD	6 N	N		
TEST OSCILLATOR/TONE SIGNALING/FEEDBACK/FILTER	A	1 N	N		
AUTOMATIC POWER-UP RESET/24-STAGE, BINARY-RIPPLE	D	3 N	N	C	

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SIGNAL-SELECTOR CCT/7-SEGMENT DECODER/DRIVERS	DA	3 N	N	C	
MONOSTABLE/ASTABLE/333HZ/OSCILLATOR/16-PIN PACKAGE	DA	1 N	N		
APERTURE JITTER/DISTORTION/SNR./SSB. PHASE NOISE	AD	6 N	N	C	
14-STAGE RIPPLE-CARRY BINARY COUNTERS/RC. PRODUCT	D	2 N	N		
AUTOMOBILE ADD-ON/HIGHWAY SAFETY		4			
ATU COIL/TRANSISTOR/RFC/SIDE/FERRITE RINGS/DX/LPF.	A	3 N	N	C	
RF./BROADBAND MATCHING TRANSFORMER/2ND HARMONIC	A	3 N	N		3
DECORATIVE/BULB/BENZYL ALCOHOL/WATER/BUBBLES/AC.	A	4 N	N	C	
BUZZER/DIODE/ON-OFF INDICATOR/VOLTAGE STABILIZER	AD	1 N	N		
FEEDBACK/CHRONOPOTENTIOMETRIC/ION	A	9 N		C	42
IF./RGB./HORIZONTAL SYNC/COMPOSITE VIDEO/COUNTER	DA	1 N	N	C	
INPUT VOLTAGE VARIATION OF X4/OUTPUT/NOT >X2	A	1 N	N		
SCANNER/NFM.-AM./JFET./DC. OUTPUT/HAM/CB./SW./BC.	A	2 N	N		
BRIDGE/OA./SENSORS	A	3 N		C	
ELECTRONIC COMBINATION LOCK/SECURITY	DA	7 Y			
NUCLEI/MAGNETOGYRIC RATIO/SPECTROMETER	DA	5 N		C	
POWER MOSFET.S/15V PULSES AT 1A/10NS	DA	5 N		C	
TRIAC/RING VOLTAGE/LED. LIGHTS/DIAC	A	3 Y		C	
NONPRECISION/DIODE/LOGIC 1/0/MEMORY/VOLTAGE	DA	1 N	N	C	
TRANSISTORS/DARLINGTON PAIR/POTENTIOMETER/LAMP	A	1 N	N	C	
SELECT/SWITCHED-CAPACITOR/CODEC FILTERING	AD	1 N	N	C	
WATER PIPES/SMALL/RADIO WAVE CARRIER/COIL/LONGWAVE	A	2 N	N		
RC. INTEGRATOR/DIFFERENTIATOR/FAST ECL. COMPARATOR	AD	8 N	N	C	61
DIODE/BASE/CHARGE DUMPER/CR/RE-TRIGGERING RATE	AD	1 N	N	C	
CONNECTION/SH./D-TYPE FF.S/OSCILLATOR	AD	3 N	N	C	
BASS MONO/MOD. OF THE BIQUAD/OA./STEEPER ROLL-OFF	A	1 N	N	C	
CURRENT LOOP/CLOCK/CMOS. 555	AD	1			
READOUT/INSTRUMENT/0 TO 100DEG C/LCD.	AD	5 N	N	C	
VOLTAGE/DATA/UART./EPROM./IBM/VFO./MEMORY CHANNEL	DA	3 N	Y	C	
PIEZOELECTRIC-CERAMIC/MECHANICAL SHOCKS/DRIVER CCT	A	1 N	N	C	
ROARING/LEGAL-LIMIT		4			
4.5V/DELAY/POWER-UP/POWER-FAIL PROTECTION IC	DA	2 N	N	C	
INTERFACING/EEPROM.S/SRAM.S/REFRESH CYCLE/CS./DRC	DA	8 N	N	C	
DIVIDED DOWN/ANALOGUE MUX./DVM.	AD	1 N			
CAMERA/PHOTOGRAPHY/REED SWITCH/KONICA	AD	1 N			
32K/BASIC/GRAPHICS/LOW-COST/RS232C	AD	3		C	42
MUX.ING/INTERFACE/TELEPHONE HANDSETS/SPEECH/DATA	D	5 N	N	C	
PRODUCT DETECTOR/BFO./AMATEUR RADIO/CRYSTAL FILTER	A	4 N	N		
GAIN IS ~100/20UV-DEGREE C/DRAIN CURRENT/TC.	A	5 N	N	C	
SBC./CONFIG REGISTER/THERMOMETER/DISPLAY/ROM.	DA	6 N	Y		
AC./MULTIPLIER/ADC./PLL./ZERO LOGIC DETECTOR	D	9 N	N	C	
PROGRAMMABLE/FREQUENCY-PHASE DETECTOR/DIVIDE/VXO	DA	6 N	N	C	
GAIN BLOCK IF./VCO./DETECTOR/DECOUPLING NETWORK	A	6 Y	N	C	
~45MA/UP TO 8 PHONE NUMBERS/TONE-ENCODER/CODE	DA	4 N	N	C	
DIALER/DTMF./BUSY/SIGNALS/INTERFACE/TONE DECODER	AD	7 N	N	C	
AMPLIFICATION/DESIGN/INTRODUCTION/GAIN	A	3 N			
ECG. INPUT ELECTRODES	A	5 N	N	C	
WIDEBAND/PREAMP./TTL. OUTPUT/DECADE/ECL./LED.	DA	4 Y	N	C	
MULTIPLIER/REFERENCE/POPI/TVG/SWITCHED-MODE	AD	9 N	N	C	

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THERMOCOUPLE AMP./PROPORTIONAL REGULATOR/TRIAC	AD	5 N	N	C	25
FET./FLOATING REGULATOR/CURRENT-SENSE	A	1 N		C	
VFC./WEIGHT	AD	1 N		C	
29 PARALLEL IO. LINES/128 BYTES OF RAM./MEMORY MAP	DA	8 N	Y	C	
5.5MHZ/LOW-DISTORTION/PHOTODIODES/PULSE AMPLITUDE	AD	5 N	N	C	
COMPUTER/TIMEBASE CRYSTAL/MICROCONTROLLER/CALEND#D		7 N	N	C	
BATTERY/PROTECTED/SURGE ARRESTER/VOLTMETER/BEEPEFAD		3 Y	N		
PSPICE/PS.S/EMI., RFI./MUCH REDUCED/60V BATTERIES	A	9 N	N	C	
BCD.-TO-BINARY CONVERTER/R-R/ACTION POTENTIAL	D	5 N	Y		25
INTERFACE/UP./IO. LINES/PORTS/RAM./HOST/PIA.	D	6 N	Y	C	
COILS/CAPACITORS/IF. TRANSFORMERS	A	2 N		C	
RESONANT FREQUENCY/PIERCING 5KHZ WHISTLE/TUNED CCT	A	1 N	N	C	
SQUARE WAVE/2500HZ/GATE/DRAIN/SAMPLING	DA	1 N		C	
RTV/POWER-UP/CMOS. IC'S/BATTERY/CAPACITOR/RESISTOR	DA	1 N	N	C	
GAS BUFFER/ATMOSPHERE/VOLTAGES/ANALOG	A	4 N		C	
CLOCK PULSE/PRE-SCALER/JAM/COUNTER	DA	2 N			
ANALOG SIGNAL/DIGITAL TECHNIQUES		4		C	
SQUARE-WAVE/SINE-WAVE/PHASE ANGLES/DATA/SUMMING	DA	2 N	N	C	
EXPONENTIALLY RESPONDING/COUNTER/COMPARATOR/OA.	AD	6 N	N	C	
INLET & OUTLET/HEAT TRANSFER/BIOMASS BURNERS/LED.S	A	2 N	N	C	
BUFFER/INTERFACE/IBM-PC.-XT/FIFO./LASER/FT.-IR.	D	9 N	N	C	42/AR
HARDWARE-SOFTWARE/DATA-ACQUISITION/ADC.	A	9 N		C	
PICTURE IN PICTURE (PIP)/VCR./VIDEO/AGC. VOLTAGE	DA	4 N	N		
DIVIDE-BY-3.5 COUNTER		2		C	
"SMART" THERMOMETER/ROM./RAM./TIME/MEASURES/GATES	AD	8 N	Y		
SELF-CLOCKING/CALIBRATE/PS./REFERENCE/SAMPLE/~9KHZ	DA	2 N	Y		
2716 EPROM./8155 RAM.+IO.+TIMER/USART./INTEL 8085	AD	9 N	N	C	
VISION/APPLE/TV. CAMERA/MOTOR DRIVER/POSITION	DA	9 N	N	C	25
GAIN/BALANCED/ABSOLUTE-VALUE/PRECISION-RECTIFIER	A	9 N	N	C	
OSCILLATOR/60W/FALL ASLEEP/CHILD/LED./PUSH-BUTTON	DA	2 Y	N		
WARNING/SIGNALING/TIMER/OSCILLATORS/HORN	A	2 N		C	
PORT/CONTROL/INTERRUPT TIMING/PROGRAM	DA	5 N			
RATE GENERATOR/HEATER CONTROLLER/RATES	AD	9 N		C	42
RATIOMETRIC CONVERSION/8-BIT DAC./SH.	DA	5 N	N	C	
LEVEL SHIFTING BUFFERS/PRIORITY ENCODER/ASCII.	D	3 N	Y	C	
MICROCOMPUTER/UP. BUS/DIGITIZING STAGE/X & Y/DATA	DA	8 N	Y	C	
LCD. READOUT/DPM.	DA	4			
THERMOCOUPLES/SET POINT/EMF.S	A	7		C	
64K COUNTS/CHANNELS/8192/TIME RESOLUTION/200NS	DA	8 N	N	C	
PHOTODIODE/PREAMP./DEMODULATOR/BANDPASS FILTER	AD	4 Y	N		
REGISTERS/INTERRUPT/REFRESH/ADDRESSING	D	9 N		C	
SIMULATOR AMP.S/ADC./DATA LATCHES	AD	6 N		C	
65K BYTES/MEMORY/PROGRAMMING/IO. PORTS	DA	6 N			
INTERFACE/ADC./ANALOG MUX./SENSE LINES/DRIVERS	AD	4 N	N		
TONE GENERATOR IC/REPEATERS/FM. TRANSCEIVERS	A	3 N	N		
SH. AMP./COHERENT TRANSIENT SPECTROSCOPY	DA	6 N	N	C	
THERMISTOR PROBES/COUNTER/SENSING/88-108MHZ BAND	AD	4 N	N	C	
ROTATION RATE/SCHMITT TRIGGER/VIA.	AD	9 N		C	
COMPUTER/UART./DATA LINK/DECODER-DRIVER	D	2 N		C	

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CONSTANT CURRENT		1		C
CONTINUITY/SHORTS/OPEN-CCT.	D	2		
SOUND PROCESSOR/VIDEO-AUDIO SWITCH/COLOR DECODER	AD	9	N	N C
INTERNAL/5A OF PEAK CURRENT/LATCH/COMPARATOR	AD	1	N	N C
OSCILLATORS/LED.S/WIN/LOSE/CRAPS/SCHMITT TRIGGER	DA	8	Y	N C
HEATERS/SETPOINT/AMPLITUDE/STABILIZATION/PC.	A	3	N	N C
PC./PRINTER PORT/FREQUENCY/CHANNEL/40M/MOD.	AD	2	Y	N C E
DIRECT READINGS/CALIBRATION/WATER/ICE/OFFSET	AD	1	N	N C
SWITCH/SEQUENCE/+5V/12V/PS./DELAYS/RC. CCTS/LOGIC	DA	1	N	N C
LOW CURRENT & VOLTAGE NOISE/GAIN OF 100/BW.	A	2	N	N C
PIN-CUSHION/RMS. CONVERTER/SQUARES	A	3	N	
COLD-JUNCTION COMPENSATION/SIGNAL-CONDITIONING	A	2	N	N C 42
METER/CALIBRATION/PROBE/OA.S/DELAY NETWORK/MEASURE	A	2	N	N C
SIMPLE/RELIABLE/RELAY/SWITCH/CYCLE/LATCHES ON/LOAD	DA	2	N	N C E
OPTICAL TACHOMETER/AIR BUBBLE/LED./FOCUS/MOTORS	AD	5	N	N C
CPU./LO./RECEIVER/TRANSMITTER/VFO./DISPLAY/MEMORY	AD	4	N	N
WORD-WIDE/8-BIT/MUX./LATCH/UP./0.1US TO 10S	D	2	N	N C
INMOS/STEP MOTOR/T800/12-BIT ADC./VLSI./PC./LINKS	DA	3	N	N C
MEASUREMENT CCTS/NOISE/IMPEDANCE/SYNTHETIC/LOOP	A	3	N	N C
CAPTURE SHOTS/CAMERA/PHOTOS/SCR./IR. OR VISIBLE	AD	4	Y	N C
ERROR/<+-1DEG C/-25 TO 105DEG C OPERATING RANGE	A	1	N	N C
SERVOCONTROL/SUBLINGUAL/ZERO HEAT FLOW/TISSUE	A	4	N	N C
COMPLEMENTARY SIGNAL GENERATOR/VOLTAGES/MESFET.S	A	4	N	N 9
PRINTER PORT/SPECTROPHOTOMETER/SPECTROSCOPY/12-BI	AD	9	N	N C
LOGIC ANALYSIS/DIGITAL/ANALYZER/DATA	D	7	N	C
DIGIT/ILLUMINATES/OVERFLOW	D	1	N	N C
BINARY-WEIGHTED/NETWORK/MONITOR/MULTIPLE-TRACE	DA	1	N	N C
PREVENT/ACTUATION OF THE RELAYS/ADC./EPROM./ALARM	AD	2	N	Y C
100MA OUTPUT DRIVE/-90DB THD. WITH/+ -5V, 500KHZ	A	1	N	N C
INEXPENSIVE/COMPUTER-CONTROLLED/BATH	AD	2	N	N C
ACTUATORS/TEMPERATURE/SETPOINTS/SENSOR/UPS./RS-232	AD	5	N	N C
ABSOLUTE TEMPERATURE/RTD./SILICON/GERMANIUM DIODE	A	3	N	N
CMOS. OA./RAM./IO./UP.S/WATER/SERIAL PORT/RS232C	DA	9	N	N C 12
<\$100/TEMPERATURE SENSORS/PULSE COUNTER/+ -400MV	AD	5	N	N C
STABILITY/DYNAMIC/STATIC/NORMALIZED CANONICAL CCT	A	9	N	N C
BW.: 33KHZ/MAXIMUM/1200VRMS./MULTIPLIER/AC.	A	5	Y	N C
PASSIVE DATA TRANSFER/DAC./XENON ARC LAMP/LIGHT	DA	5	N	N C 42
TRANSDUCER/SUBSTRATE/ALUMINUM FINGERS/BELOW 1MHZ	D	4	N	N C
MOD./RIG/RETRIGGERABLE MONOSTABLE/STANDBY JACK	D	2	N	N
LOGIC/CAN SINK OR SOURCE ~0.5MA/LIMIT/~10MIN	D	1	N	N C
AGC. CCTS/OA./BUFFER/COLD RESISTANCE/TEMPERATURE	A	2	N	N C
ETCHING/RESIST/PATTERN/LACQUER/COPPER/FIBER GLASS	D	4	Y	N
600MHZ/NF. IS 4.8DB AT 75OHM/<\$5/RECEIVER	A	1	N	N C
ECHO PROGRAM/USER-PORT INTERFACE/BBC	A	2	N	
SMALL-SIGNAL/TO 600MHZ/SCHOTTKY DIODE	A	7	Y	
PREAMP./LOW POWER AUDIO AMP./SWITCHING TRANSISTOR	A	2	Y	N C
RESET/STORED CHARGE/INTERFACE/CAPACITOR	AD	2	N	
SMARTWORK/COMPUTER-AIDED DESIGN/CAD.	D	6		
MESFET./1 TO 8GHZ	A	4		

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VFO./AGC./SSB./QRP/CW./9MHZ IF./RADIO/BFO./AUDIO	A	3 Y	N	C	
TUTORIAL/MULTIPROCESSING/MULTIUSER/BUS SIGNALS	DA	8 N	N	C	
PICTURE/SYNCHRONIZATION PULSES/ATTENUATOR/BALANCE	A	5 Y	N		
ACTION/CMOS. NOR GATES/DUAL TIMER/KEY CONTACT	AD	2 N	N		
AC. COUPLED/SENSITIVITY/RECEIVER/SCATTERING	A	4 Y	N		
VERTICAL/HORIZONTAL DRIVE/COMPUTER/CRT./COMPUTER	AD	1 N	N	C	
COMPANDING NR/REDUCTION		5			
SPEAKER BUFFER/PIT./INTEL	DA	9 N	Y		
DIFFERENTIAL AMP./TTL. LEVEL SIGNAL/COMPUTER	AD	2 N	N	C	
RECORD & PLAY LOGIC/2 CLOCKS/TIMER/SHIFT REGISTER	DA	5 Y	N	C	
VARACTOR DIODE/VTVFO/IFT/OSCILLOSCOPE/IF. FILTER	A	3 N	N	C	
OSCILLATOR/TIMER/LED./START/READY/RESET	A	2 N		C	
IMAGES/TRANSMISSION/PICTURES/SLOW-SCAN TV./FRAME	AD	4 N	N	C	
TRIAC/LAMPS/500W/MOTORS/300VA	A	2 N			
WEATHER EMERGENCY ALERT WARNINGS		3			
REMEMBERING TO ID DURING A RAGCHEW	AD	1			
PEAK DETECTOR/SYNCH SEPARATOR/REFERENCES/DECODING	AD	2 N	N		
RECEIVER/TRANSMITTER/STABILITY/RF./AUDIO PREAMP.	A	7 Y	N		
TEST/PS./QUIESCENT SUPPLY CURRENT/450UA/0.06%	A	1 N	N		
SWITCH SPDT./NEON BULB/SINGLE-UNIT RECORDING/PS.	A	3 N	N	C	6/25
DAC./COMPARATOR/OA./REFERENCE VOLTAGE/FF.	DA	6 N	N	C	
REED RELAY/LED.S/PARC/POTENTIAL SCANNING/RECORDER	AD	2 N	N		E
LOAD LINE/RESISTORS/DC. VOLTMETER/PS.	A	2 N	N		E
RESISTOR/EJECT BUTTON/AMBIENT COMPENSATION/PS.	A	2 N	N		8
VARIABLE-LENGTH TIMER/RESET/\$10	AD	1 N			
RESISTOR/TO LIMIT CURRENT/117V AC./POWER	A	1 N	N		11
TIMER/MONOSTABLE/NEGATIVE/THYRISTOR/CMOS./LOGIC	AD	7 N	N	C	42
RECEIVER/TRANSMITTER/AUDIO FILTER/AGC./LO.S	A	7 Y	N		
SECONDARY ELECTRON EMISSION/GLOW DISCHARGES/TUBE	A	4 N	N	C	
SB180/COST-EFFECTIVE/CONFERENCING	DA	9		C	
AMATEUR-RADIO/HAM/GILBERT CELL/LOW-Z INPUT/MIXER	A	3 N	N	C	
CLASS 1 CAPACITORS AT 1MHZ/LC. TANK CCT/INDICATOR	A	1 N	N	C	
+24V DC./CMR./AUDIO'S PS.S/AMP./LOAD/IMBALANCES	A	4 Y	N		
LC.-TUNING/VARACTOR DIODE/BC. BAND/AF.-OUTPUT AMP.	A	2 N	N	C	
40DB-RANGE INTO 20DB/AMP./SNR.	A	3 Y			
POWER/RS-232/DIODE/TERMINATING RESISTORS/SPEED	AD	9 N	N	C	
NF.S/GAIN/GAAS./MESFET./40GHZ/0.3DB NOISE	A	3 N	N	C	
SELF HEATED/HIGH OUTPUT SLOPE RESISTANCE/MOSFET.	A	9 N	N	C	
DECREASES IT FOR FERROUS OBJECTS/~75CM/PHASE SHIFT	A	1 N	N	C	
EARTH GROUND/CHASSIS/SWITCH/NEON LAMP/LINE-FAULT	A	1 N	N	C	
OSCILLATION/PIECEWISE-LINEAR APPROXIMATION	A	4 N	N	C	E
ACTIVE/NOTCH/SWITCHED CAPACITOR/OA.	AD	2 N			
CONTROL LOGIC/TRACKS STEADILY INCREASING INPUTS	AD	1 N	N	C	
PIA./PUMP CONTROL/POWER/SUPPLY/HEATER/IO./TIMER	DA	8 N	N	C	
ARITHMETIC PROCESSING UNIT/BUTTERWORTH/ADC./FFT.	DA	8 N	N		
LED.S/VOLTAGE/CURRENT/RESISTANCE/MEASUREMENTS	A	9 N	N		42
HIGH-RESOLUTION STAIRSTEP/DAC./FEEDBACK	AD	2 N		C	
PERMANENT-MAGNET/FEEDBACK/STEP CONTROL/LINEAR/DC.	AD	5 N	N	C	
CONSTANT LASER OUTPUT POWER/PHOTODIODE/THERMISTOFA		9 N	N	C	45

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HR/RADIO-TELEMETRY/THERMISTOR/PROBE/ACTIVE FILTERS	AD	5 N	N	C	
APPROXIMATION FUNCTION/Y=EXP(-X^2-2)/SIMULATOR	AD	4 N	N	C	
AMATEUR RADIO/SSB./JFET. HARTLEY OSCILLATOR	A	3 N	N		
PCM./RAMP GENERATOR/ANALOGUE DEMUX./PULSE SHAPER	AD	5 N	N	C	
LOW DC. OFFSET/BIPOLAR TRANSISTORS/RIAA-1 AMP.	A	1 N	N		
MILLER INTEGRATOR/CHARGE INTEGRATOR/ZERO CROSSING	AD	2 N	N	C	
8-BIT COUNTER/RATIO/FREQUENCY/128:1/LESS EXPENSIVE	AD	1 N	N	C	
AC./YSI/ERROR OF <0.002 K OVER A RANGE OF 10 K	A	4 N	N	C	
PVDF/PIEZO SPEAKER/SWITCH/IMPACT & VIBRATION	A	7 N	N		
BW./LOW-NOISE/LAMINAR OIL FLOW/DOPPLER/LDA'S/50OHM	A	2 N	N	C	
CHANNELS/FILTER/CUT-OFF FREQUENCY/TRANSMISSION	A	1 N	N	C	
INTENSITY/GUARD THE OA.'S INPUTS/VOLTMETER	A	1 N	N	C	
ORIGIN/SYMMETRY/SIZE/X-Y-Z OSCILLOSCOPE DISPLAY	AD	4 N	N	C	
TWIN-T NETWORK/PI-NETWORK/TEST/INTEGRATOR	A	4 N	N	C	
VIDEO/12000 FRAMES-S/CAMERA/HIGH-INTENSITY/RCA/PS.	A	3 N	N	C	
LED./LODESTONES/MAGNETITE/SCHMITT TRIGGER	A	2 N	N		
STATE-AVERAGING/MODEL/PWM./HF. SWITCHING CCT	A	1 N	N		9
METHANE, BUTANE, PROPANE, & CARBON MONOXIDE/AIR	A	5 Y	N	C	
PHOTOSENSITIVE ARRAY/LENS/AVERAGER	DA	3 N		C	
RTD./LINEARISER/HEATERS/OVERTEMPERATURE PROTECTION	A	3 N	N		
RELIABLE/HIGH INPUT/LOW OUTPUT IMPEDANCE/30MHZ	A	2 N	N	C	
INEXPENSIVE/BACKGROUND/SKY BRIGHTNESSES/6MHZ	A	4 N	N	C	
MONITORING/SENSE RESISTOR/SHUTTING OFF/DETECTS	A	1 N	N	C	10
CALIBRATION/DRIFT/240-WORD CMOS. MEMORY/SEABOTTOM	AD	6 N	N	C	
20MHZ OSCILLATOR/DMA./SYNCHRONOUS BINARY COUNTERS	DA	9 N	N		
THERMOPILE/HEATING ELEMENT/THERMAL	A	4 N		C	
INTEGRATOR/BETTER FREQUENCY RESPONSE/TELEPHONE	A	7 N	N	C	
REGULATED/STEPPER MOTOR/BRIDGE RECTIFIERS/\$25	A	1 N	N		
GATE/EXCESS LOAD/LED. FLICKERS	A	1 N		C	
BRIDGE/AMP.S/NEGATIVE FEEDBACK	A	7			
VOLTAGE GAIN/NOR GATE/BEHAVIOUR/BIPOLAR	AD	5 N		C	
CLOCK GENERATOR/32MHZ/MULTIPLE UP.S/WAIT-STATE	D	2 N	N	C	
TRANSFORMER/LAUNCH/MODEL ROCKET/HEXFET./LIGHT	AD	6 N	N	C	
SOFTWARE/PARALLEL PORT/DECLINATION	D	2 N		C	
CAPACITY/LIFE/BATTERIES/CHARGE		3			
WIRELESS/COMPUTER/AUTOMATION		4			
BRIGHTNESS/STARTER/CURRENT/VOLTAGE/FILAMENTS/PHASEA		1 N	N		
MAGNETIC FIELD/WIEN BRIDGE OSCILLATOR	A	2 N		C	
CONVERTING 6V TO 130V/>80% FOR 0.3 TO 30MA/HT.	A	3 N	N	C	
COMPARATOR/OA./POTENTIOMETER/SWITCHES/INTEGRATOR	A	2 N	N	C	
FSK./OPTO-ISOLATOR/HEX INVERTER/KEYING	AD	1 Y			
COLOR BURST TV. CRYSTAL/DIGITAL TIMING/DATA/VHF.	AD	2 N	N		
KEYPAD	AD	2 N		C	
DELTA-SIGMA MODULATION/MEMORY/CONVERSION	DA	2 N		C	
MIXER/CRYSTAL FILTER/AMP./OSCILLATOR/AFC.	A	3			
FOIL/DRILLING/HOLES/COPPERCLAD/PATTERN/PERFBOARD	A	3 Y	N		
ROCKWELL AIM 65/THERMOCOUPLE/ISOLATORS	AD	7 N		C	
ICL7135 ADC./ULTRA-HIGH VACUUM (UHV)/CHAMBER/TPD	AD	9 N	Y	C	42
FAST RAMP MOVEMENTS/MOTOR WITH POSITION FEEDBACK	A	5 N	N	C	

Sheet1

WIEN BRIDGE/DIODES/ATTENUATOR/FREQUENCY	A	3 Y		
VOLTMETER/PULSE COUNTER/BASIC/USER PORT	AD	5 N	C	
REMOTE CONTROL/TRANSISTOR/STOP-START/INTERVAL	AD	2 N	N	
SWITCHED-MODE/SAWTOOTH/2.5KHZ/MAPPING/MODELING	A	9 N	N	C
TUNABLE/FET./GATE SOURCE VOLTAGE	A	4 N		C
VOLTAIC CELLS/DIFFERENTIATOR/ZENER BRIDGE/TRACKER	A	4 N	N	C
BAND-GAP DIODE REFERENCE/JUNCTION/VOLTAGE DROPS	A	1 N	N	C
SWITCH/NOT OSCILLATE/WIDE BW./HIGH GAIN	AD	7 N	?	C
TRANSDUCER/LVDT.S/LRDC/ANGLE SENSOR/OA.S/PLATES	A	4 N	N	C
COMPUTER/MOD.S/PCB. LAYOUT/SCHEMATIC CAPTURE	AD	4 N	N	C
DC. MOTORS/FOLLOW A FLASHLIGHT/COMPARATOR	A	2 N		C
HIGH-TEMPERATURE/HIGH-ACCURACY/SILICON CARBIDE	A	5 N	N	C
ROOT SQUARE/CURRENT/50DB DYNAMIC RANGE	A	1 N		
MODULATORS & DEMODULATORS/SPDT.	AD	1 N	N	C
ANALOG SWITCHES/SPDT./1 LOGIC SIGNAL/AMP./PHASE	AD	2 N	N	C
LINEAR/FEEDBACK LOOP/FREQUENCY CONTROL/SAWTOOTH	AD	7 N	N	C
HIGH INPUT IMPEDANCE MILLI-VOLTMETER	A	2		
AMP./COMPARATORS/HYSTERESIS	AD	2 N		C
VARIABLE DELAY/TARGET/UP-DOWN COUNTER	AD	5 N		C
CURRENT/LONG TRANSMISSION LINES/PROTECT/LED.	D	3 Y	N	
OUTPUT VOLTAGE/PROPORTIONAL/BLOOD/SKIN/BRAIN/CORE	A	3 N	N	C
THERMOSTAT/DVM./DIGITAL READOUT/HEATER/FEEDBACK	AD	3 N	N	C
HEATER/RF. RESONATOR/CAVITY/LINEAR ACCELERATOR	A	3 N	N	C
OUTPUT IMPEDANCE OF 600OHM/SOURCE IMPEDANCE	A	1 N	N	C
UP OR DOWN TO VARY THE WIDTH OF THE OUTPUT PULSE	DA	1 N	N	C
EPROM. LOOKUP TABLE/107 TONES SPACED 10KHZ/DAC.	DA	4 N	Y	
COMMERCIAL-QUALITY/TELETYPE/CW./PTT.	AD	4		C
TIMING/DISPLAY/REGULATOR/POWER/4-DIGIT COUNTER	AD	7 N	N	C
RADIO/BETWEEN 100HZ & 10KHZ/ANTENNA/<\$40/EM./SEPAC	A	4 N	N	C
SYNCHRONIZING PULSES/FROM THE MAINS/DIMMING CYCLE	A	2 N	N	
CALCIUM/DOPAMINE/200W LIGHT BULB	A	9 N		C
ADJUSTING K/PARALLELING/VARIABLE/CUTOFF FREQUENCY	A	1 N	N	C
LPF./OA.S/50HZ/ACCIDENTALLY SHORT-CIRCUITED/LED.	A	1 N	N	
FILTER/INTEGRATOR/LOW PHASE NOISE & JITTER	A	3 N	N	C
OPTICAL FEEDBACK/DIFFRACTION/LIGHT/CESIUM/RUBIDIUM	A	9 N	N	C 39
TV. INTERFERENCE/KEY/MORSE CODE/ELECTRON-COUPLED	A	3 N	N	C
SH./REFERENCE/LIGHT/OPTICAL FIBERS/LAMP	AD	4 N	N	C
PERIODIC WAVEFORM/TRANSFORMATION/EMF.	A	3 N		C
DELAY/UP TO MILLIMETRE-WAVE BANDS/25GHZ/100GHZ	A	2 N	N	C
50/10000HZ/BALANCE/CHOKES/WHEATSTONE/1MH TO 1000H	A	7 Y	N	
TO 0V/OA./VOLTAGE-SHUNT FEEDBACK/DIODES/PROTECT	A	3 N	N	C 28
HED/PAPER CUTTER/TRIAC/40W BULB/REFRIGERATOR DOOR	A	5 N	N	C
EARPHONES/PRIVATE LISTENING/HEARING IMPAIRMENT	A	3 N	N	C
SYNTHESIZER/PCB./FULL-SCALE/RF./STEREO/RECEIVER	AD	5 Y	N	
GLITCH/CLOCK/DAC.S/TTL./DIODE CLAMPS/ATTENUATOR	AD	3 N	N	C
VCO.		2		
PHASE ANGLE/NULLING/REACTIVE/INDUCTANCE	A	4 N		C
DOT-BAR DISPLAY/LIMITED RESOLUTION	DA	2 N		
VU METER/BAR-GRAPH/FET./ATTENUATOR	AD	2		C

Sheet1

OSCILLATOR/ULTRASOUND/BUFFER ROD/FURNACE	D	5 N	C	
18W/HEATING ELEMENT/DPM./THERMISTOR	A	1 N	C	
EVAPORATION SYSTEM/PROCESSING/ALLOYS	A	2 N	C	
LOW-NOISE/BATTERY-POWERED/OA./DISPLAY	A	1 N		
MULTIVIBRATOR/ENCODING/DRIVING/ILLUMINATE/PULSES	D	1 N	N	
STABLE/INSTABILITY/TRANSITIONS/TRIANGLE WAVE/12V	A	9 N	N C	
INSENSITIVE TO DISTORTION/1-120HZ/ANODE SUPPLY	AD	7 N	N C	
74198/DM8556N/74198N/TEMPERATURE-COUNT ACCUMULATOR	DA	6 N	N C	
TTL.-COMPATIBLE/SIGNAL/ASCII./AMATEUR BANDS/FCC	AD	3 Y	N	
THRESHOLD VOLTAGE/TRANSITIONS/UNSTABLE/HYSTERESIS	A	2 N	N C	
APPLE'S MAC II/DUTY-CYCLE/D-DLIP-FLOP/DELAY-LINE	DA	2 N	N C	
LED./4-BIT/QUAD-OA./PULSES/VOLTAGE/RANDOM NUMBERS	AD	5 N	Y	
MONOSTABLE MULTIVIBRATOR/PRESET LEVEL/ENZYME/PULSE	DA	9 N	N C	
200PS RESOLUTION/60NS DOUBLE PULSE RESOLUTION/ECL.	AD	5 N	N C	
HIDDEN FM. TRANSMISSIONS/DEMODULATOR/VCO./LOW PASS	A	3 Y	N C	
3-TERMINAL/RECTIFIER DIODES/CIGAR LIGHTER CCT/CAR	A	2 N	N	
SEQUENCER/HIGH PERFORMANCE PROCESSORS/ROM./MUX.	D	4 N	N C	
AMPLITUDE DETECTORS/HOLDING CAPACITOR/INDUCTION	A	9 N	N C	
LED./RECEIVING/CATHODE EMISSION/AUDIO/SOUND/PLATE	A	6 N	N	
SINCLAIR/ZX81/MICROCOMPUTER/IO./PACING, DEMAND	DA	9 N	Y	
TIMER/12V DC. RELAY/SCR./VOLTAGE REGULATOR/117VAC.	A	6 N	N	57
MCU/MPU./PHOTOMETER/LED.S/SENSOR/PHOTOTRANSISTOR	AD	6 N	Y	
SINGLE-SUPPLY OA.S/INVERTING GAIN OF 2	A	2 N	N C	
PSPICE/NEGATIVE FEEDBACK/STABILITY/PHASE/POLE-ZERO	A	6 N	Y	
FET./ATTENUATOR/BASELINE/VERTICAL/BALANCE CONTROL	A	3 N	N	
5W/GAIN OF 100/40DB/POWER/13.5V/AUTOMOTIVE/CAR	A	3 Y	N	
OA.S/DISPLAY/DOT/BARGRAPH/9V/MICROPHONE/LINE-LEVEL	A	1 N	N C	
MIKE/BUFFERS/DRIVERS/PRECISION VOLTAGE REFERENCE	A	2 N	N C	
OA.S/CONSTANT COLLECTOR CURRENTS/TRANSISTOR ARRAY	A	3 N	N C	
COMPUTER/60HZ/CRYSTAL OSCILLATOR/PULSES	DA	9 N	C	
COMMODORE/PET MODEL 4016/PROGRAM/RATE/OSCILLOSCOP	DA	7 N	Y C	42
HEADINGS/BLIND & SIGHTED HAMS/VOLTAGE COMPARATOR	A	5 N	N C	
SIGNAL AVERAGING/SYNCHRONIZATION/TTL./MOTOR	DA	7 N	N C	42
WET HANDS/EMOTIONAL STATE/ENTERTAINMENT/GAMES/SALTA		2 N	N	
HIGH BACKGROUND NOISE/CAR RADIO/FILTER/ALTERNATOR	A	3 N	N	
SELF-HEATING/THERMAL TIME CONSTANT/FEEDBACK LOOP	A	1 N	N C	
GROUND/AUDIO/LEFT & RIGHT CHANNELS/RECEIVER	A	6 Y	N C	
LIGHT/OSCILLATING REACTIONS/COMPUTER/BZ/ELECTRODE	A	2 N	N C	
THERMOCOUPLE/SATURATION/ERROR/NONLINEARITY/1DEG	A	3 N	N C	
OA./HYSTERESIS/HEATER/<\$20/SOLID-STATE/MEASUREMENT	A	4 Y	N C	
IMPEDANCE/FILTER OUT INPUT TRANSIENTS/RATES	A	2 N	N C	
LIGHT INTENSITY/CLAMPED-FEEDBACK/HYSTERESIS	A	4 N	N C	
CPU./4KX16/STIMULUS/DIGITISER/NEURONAL DISCHARGES	DA	9 N	N C	39/61
IRON-CONSTANTAN THERMOMETER/HEATERS/DETECTOR	AD	5 N	N C	61
CASSETTE/MICROPHONE/RELAY/DICTATE	A	4 N	C	
RAM./CORRECTION/BUS BUFFERS/RINGING	D	4 N	C	
CLOCK CHIP/LED. DISPLAY/TRIAC/TIMING	DA	4 Y		
SUBMERSIBLE/COMPARATOR/LED./CONSTANT UP TO 85DEG C	A	3 N	N C	
PM MOTOR & GEAR DRIVE/AMIDON	AD	1 N	N	

Sheet1

AM. RADIO/METER/WEATHER FORECASTING/TRACKING/DATA	A	4	N	N	C	
BATTERY VOLTAGE/3.6-6.0V/TEMPERATURE/SENSOR PROBE	A	2	N	N	C	
SHIFT REGISTER/RECEIVER/COMPUTER/LONG DISTANCE	DA	9	N	N	C	
XENON STROBE LIGHT/WARBLE ALARM/CHARGER/FLUID	AD	9	N	Y	C	
DATA LINKS/LIGHT/AF. TONE/STEP-INDEX/REFRACTION	A	5	N	N		
AUTOZERO IC/LOW NOISE, HIGH GAIN AMP./LC. FILTER	A	1	N	N		
WIRELESS COMMUNICATIONS/MICROPHONE/VARACTOR DIODE	A	5	Y	N	C	
LEVELS/AVC, ALC/VOLTAGE DOUBLER/DISTORTION/ZENER	A	2	N	N	C	
MICROCOMPUTERS/EMITTER FOLLOWER/OA./DIVIDER/ADC.	AD	4	N	N		12/42
1V PER 1000 REV-MIN./SHAFT OR ENGINE SPEED/SENSING	A	1	N	N		
LS7061/LS7060/16 CHANNELS COUNTING UNIT/SEQUENCER	D	9	N	Y	C	61
LED./COMPARATOR/BUFFER/6TH ORDER/BUTTERWORTH LPF.	AD	8	N	N		
D-TYPE FF./TRI-STATE BUFFER/LOGIC/BUFFER GATES	D	1	N	N	C	34
FIELD & GRADIENT/SPECTROMETER/HALL PROBE/AMP./DAC.	AD	6	N	N	C	
LINE TRANSIENTS/FLOATING DRIVER/SCHMITT TRIGGER	A	1	N	N	C	
UP TO 0.5A/10US WIDE/9V SOURCE/TURN OFF SPEED/TIME	A	1	N	N		
HOWLAND CURRENT SOURCE/NTC.	A	3	N	N	C	
OA./VOLTAGE REFERENCE	A	1	N			
MODULATOR/SENSOR/ERROR/CURRENT AMP.	AD	5	N		C	
SMALL CURRENT SIGNALS/LDR./FARADAY	A	1				
RECTIFICATION/TRANSFORMER/VOLTAGE/FILTER	A	6	Y			
AUTOMATICALLY SENSES/CHANGES IN VOLUME	A	4	N		C	
LEVEL SENSOR/COLD TRAP/VALVE/LED./DEWAR	AD	2	N	N	C	
BLANKER		5				
6HZ-1.2KHZ/0 TO +180DEG/DMM./FET./COMPARATOR	A	8	N	N	C	
QUAD/MORNING/EVENING/MOTOR/RELAY/TRANSISTOR	A	2	N	N	C	
PULSE INHIBIT/TRIGGERING/MODULATED/TRANSFORMERS/3	AD	7	N	N	C	
SOUND IS EMITTED/CHILDREN/STYLOPHONE/BATTERY	AD	1	N	N		
GAIN-STABILIZED/SPECTROMETER/REFERENCE/NAI(TL)	AD	5	N	N	C	61
POSITIVE/1.25V REFERENCE/GOOD LOAD REGULATION	A	1	N	N		
HF./PS.S/INDUCTION & DIELECTRIC HEATING	AD	9	N	N	C	
VOLTAGE-CONTROLLED CURRENT SOURCE/PHOTODIODE	A	2	N	N	C	
DRIVE HEATING ELEMENTS/PROPORTIONAL CONTROL	A	4	N	N	C	
SH./DOT-BAR DRIVER/LED./AUDIO TONES	A	4	Y	N		
RSX-11-M/OS./TERMINAL/TRANSFER/HANDSHAKE LOGIC	D	2	N	N	C	
REGULATOR/OA./FET./SWITCH/CW. FILTER/POT/TAPER/VOM	A	4	N	N	C	
TUNED MICROVOLTMETER/OA./RADIO/NOISE RESISTANCE	A	3	N	N	C	
COMPARATOR/SCHMITT TRIGGER/HYSTERESIS/TRIP POINT	AD	1	N	N	C	E/6
OPTO COUPLER/ISOLATE/AC./DC./MONITORING/BATTERY	A	2	N	N		
PS./LED./BACKUP/VOLATILE/DATA/POWER INTERRUPTION	AD	2	N	N	C	
BW./5 PARTS/DYNAMIC RANGE/ZERO TO/OA. SATURATES	A	1	N	N	C	
OA.S/TTL. GATE/AC./10A/SENSOR/DIFFERENTIAL AMP.	AD	1	N	N	C	95
PLAYBACK/SAMPLING/BETWEEN 16KHZ & 64KHZ/SYNTHESIS	DA	2	N	N	C	
BROADBAND/LED./VOLTAGE REGULATOR/TRANSFORMERS	A	3	Y	N	C	
LOW/HIGH/WITHIN LIMITS/LED./BUFFERS	A	1	N			
SOUND/IF. FILTER/IF. TRANSFORMER/AUDIO	A	4	Y			
DMA. TRANSFERS/CPU./DATA RATES/0.5 & 10M BPS/24MHZ	D	6	N	N	C	
OPERATING POINTS/WIRED-OR/THRESHOLD/HYSTERESIS	AD	1	N	N		
PLAY/"SKILL LEVEL"/PUSHBUTTONS/TAP THE SWITCHES	A	1	N	N	C	

Sheet1

EASY-TO-BUILD/2M TRANSCEIVER/PAD/BUZZER/SCR./GATE	AD	3 Y	N	
LED./LIMIT DETECTOR/FAST & SIMPLE GO-NO-GO	A	1 N	N	C
PROPAGATION/2M SHORT-SKIP/6M/AUDIO/TRANSCEIVER	A	3 M	M	
BALANCED BRIDGE/LPF./THERMISTOR/DC.	A	4 N	N	C
PLATINUM WIRE/DAMPING COEFFICIENT/FLOW/RESISTANCE	A	4 N	N	C
LS7030/DECADE DIVIDER/1MHZ/MUX. DISPLAY/LED.S	DA	8 Y	N	C
REACTION CAVITY/UP.-DRIVEN/LIQUID/AUTOMATED/PTFE.	A	8 N	N	C 13
PS./BATTERY/CAPACITORS/TO 2A/SUN/SOLAR POWER	A	1 N	N	C
INTEGRATOR/SCR./WAND/CRYOSTAT/CURRENT SOURCE	A	3 N	N	C
LINEAR/SWITCHING/TRANSFORMER/REFERENCE VOLTAGE	A	2 N	N	C
HBCS1100/REFLECTOR/IR. SPECTRUM/DATA/PHOTODIODE	AD	6 N	Y	C 42
COMMUNICATIONS/WIDE-BAND/>2300MHZ	DA	6 N		
POTENTIOMETERS/RASTER-SCAN MONITOR/SWEEP	A	2 N		C
RIDERS/CONVERSATION/NOISE/MIKE/AUDIO/POWER AMP.	A	4 Y	N	C
12UA/MOSFET. SWITCH/DISABLES A SMOKE DETECTOR	AD	1 N	N	C
CS., ENABLE & WRITE INPUTS/INTERFACING	AD	1 N	N	C
MOD./EIA. RS232/ASCII./2 3-DIGIT DAC.S/7015B/LA36	DA	3 N	N	C
IR. PHOTOTRANSISTOR/VCR./TAPE/MEASURING IDLER/TV.	AD	5 Y	Y	3
SCANNING RECEIVER/DTMF. ENCODERS/OA.S/TNC.	A	4 N	N	C 3/27
DC. TO 1.5KHZ/BIOPOTENTIALS/FEEDBACK/TRANSDUCERS	A	4 N	N	C
GAIN/REDUCED BY/10^4 WITH 20US/HV./OPTOCOUPERS	A	2 N	N	C
	A	1 N		
NON-ISOLATED REGULATOR/INTERNAL 200MV REFERENCE	A	5 N	N	
ELIMINATING QRM & QRN/NOISE/AGC./TONE DECODER	AD	1 N	N	
HIGH-PURITY GERMANIUM/CFD./REDUCING THE WALK	AD	5 N	N	C
3-IC/CRYSTAL-CONTROLLED/COUNTER	D	2 Y		
DISPLAY/ELECTRICAL SYSTEM/METER/MODULE	AD	3 Y		
PORTABLE CHAMBER/TRANSPORTATION/TISSUE	A	6 N		C
MODULATION/146.52MHZ/GENERATOR	A	4		C
CONDUCTION/PRECISION/BILATERAL/BIAS CURRENT	A	2 N	N	C
EVENT SEQUENCING/LIGHTING/PTT./TRANSMITTER/20S	A	2 Y	N	
CBM 3032 MICROCOMPUTER/ADC./CMOS./BASIC/SIMPLE	AD	6 N	Y	
AUDIO POWER AMP./SPEAKER/PHASE-SHIFT OSCILLATOR	A	3 N	N	C
AMD/COUNTER CHIP/DADIO/LABPAC SOFTWARE/LOGIC/TIMER	DA	4 N	Y	C
PC./PARALLEL PRINTER PORT/TIMER/PERISTALTIC/SPEED	AD	9 N	N	C 42
CYCLE TIMERS/RADIOS/HT/PORTABLE/4-MESSAGE PROM.	AD	6 N	N	C
WINDOW COMPARATOR/THRESHOLD/REFERENCE	AD	3 N		C
BLUE LED./TEMPERATURE SENSOR/PM/DETECTION/MUONS	AD	6 N	N	C E
DISTRIBUTION/BW./DC. VOLTMETER/NOISE SOURCE	AD	2 N	N	C
80HM/0.5W/CHECKING LOUDSPEAKERS/WEIN BRIDGE	A	3 Y	N	
FLASH ADC.S/DELAYS/PROCESSING & CONTROL/PIPO/SIPO	AD	4 N	N	C
DIODE RECTIFIES/HEADPHONE JACK/MOD./POWER PLUG	A	2 N	N	C
SIGNAL CONDITIONING CCT/DIFFERENTIAL AMP./ADC.	A	8 N	N	
CMOS./ADC. WITH 1-BIT RESOLUTION/FEEDBACK/FILTERS	AD	9 N	N	C 12
BETWEEN 40 & 600US/140 & 1400HZ/TRIGGER/MPD/PLASMA	A	4 N	N	C
NTSC./OVERLAYS/SCOPE TV. FRAME LOCKING/VIDEO GAMES	DA	7 Y	N	C
80HM SPEAKER/VOLUME/AUDIO TEST AMP.	A	1 N	N	C
FIELDS/CRYOSTAT/SUSCEPTIBILITY/TERBIUM	A	5 N		C
PCB./ANALYSERS/IN-CCT TESTER/ATE./DIGITAL	AD	6 N		C

Sheet1

ACQUISITION/COMPUTERS/CPU./IO. PORT/EPROM./TIMER	DA	9 N	N	C	42
TRANSDUCER/ROBOT/MACHINE VISION/DISTANCE MEASURING	AD	3 N	N	C	
COMPARATOR/REGULATOR/INPUT VOLTAGE/5 TO 40V	A	1 N	N	C	
HF. CAPACITANCE/BOXCAR INTEGRATOR/BRIDGE	DA	2 N	N	C	39
HEATER/OA./SENSOR/6.8V/VOLTAGE REFERENCE CCT	A	2 N	N		
PIEZOELECTRIC SOUNDER/AUDIBLE TONE/STRONTIUM-90	A	3 N	N	C	42
OA./COMPARATOR/RELAY/PUMP CONTROL UNIT/VALVES	A	4 N	N	C	
SEMICONDUCTORS IN LIGHT TRANSMISSION & RECEPTION	AD	1 N	N	C	E
TARGET OR DEVELOPMENT SYSTEM/HITACHI CMOS SRAM.S	DA	2 N	N	C	
INTERFACE/10-SEGMENT LED. BARGRAPH/UP TO 100KPA	AD	3 N	N		
INEXPENSIVE/AUTORADIOGRAPHY/MICROSCOPE	A	9 N		C	
PHASE-MODULATED RF./INVERSE FT./PREAMP./ATTENUATOR	DA	4 N	N	C	E/25
DECODER/TTL./INVERTING AMP./TRACES/DC. SHIFT	DA	3 N	N	C	
BARGRAPH DRIVER/ADC./INPUT VOLTAGE		1			
LINEAR TECHNOLOGY/NATIONAL/FLYBACK CONVERTER	AD	4 N	N	C	
MOTION DETECTION/X600 AC. AMP./0.3-5HZ/FET.	A	6 N	N	C	
DISPLAY/MOTOROLA EXORSET MICROCOMPUTER/8-BIT/CCD.	DA	4 N	N	C	12
REGULATOR/TTL./BRIDGE RECTIFIER/LED.	A	2 N			
SCRAMBLING/DECODING/MONOSTABLE/BC.ERS	AD	4 N	N	C	
PC.S/INTERFACE/TTL./MOS.-LSI./BCD./REAL-TIME OS.	DA	8 N	Y	C	
RF. SAMPLING/SINUSOIDAL/CW./THERMOCOUPLE/REFLECTED	A	5 N	N		
MICROWAVE/SPEED/RECEIVE TONE/SHIFTED IN FREQUENCY	A	3 N	N	C	
IF. AMP./DETECTOR IC/MOSFET. MIXER	A	5 N			
NON-INVERTING AMP./VOLTAGE FOLLOWER/FEEDBACK	A	8 N	N	C	
SWITCHES/SENSOR/CMOS.-AIDED/1UA/BURGLARY	DA	6 N			
RS-232-TO-TTL. LEVEL CONVERTER	AD	1 N	N		
CHANGE/VOLTAGE-TO-TEMPERATURE/HEAT	A	2 N		C	
RUGGED/COMPACT/<30MW	A	2		C	
BOMB DETECTOR/BATTERY/LIGHTS-ON REMINDER/WARNING	AD	5 N	N	C	
VOLTAGE GAIN IS ~1/TRANSISTORS/MOD./IMPEDANCE	A	1 N	N	C	
POWER AMP./BIG FET. TRANSISTORS/LM329/REFERENCE	A	4 N	N		
NICD./0.6V DIODE DROP/PS./100MA/TRICKLE-CHARGING	A	2 N	N	C	46
22.4V/TO 300V/VOLTAGE DIVIDER/ZENER DIODES/CW.	A	1 N	N	C	
ZERO-CENTER METER/CELLS/MAINTENANCE & SAFETY	A	3 N	N		
EXTREMELY SMALL/LOW INPUT ADMITTANCE/PROBE/4.2 K	A	7 N	N	C	39
VCXO/SRD./FILTER CELL/MODULATION/ERROR DETECTOR	A	5 N	N		
COM1 PORT/SIGNALS AS WEAK AS S4 TO S5/DITS & DAHS	AD	3 N	N	C	
OSCILLATE/FREQUENCY COUNTER/TURNS/FET.	A	3 N		C	
TRANSFORMER-RECTIFIER/RATES/CELL/DISCHARGE/POWER	A	4 N	N	C	
MONOSTABLE MULTIVIBRATOR/ANALOG INTEGRATOR/COUNTED	DA	1 N	N	C	
TRACER/SIGNAL TRACING/RECEIVER/INJECTION	A	2 N		C	16
COLOR BANDS/RARED/CONDUCTOR/RESISTANCE	A	5 N			
MORSE CODE/BATTERY/PERIMETER LOOP	A	1 N	N		
SPIKE EATER		2		C	
SAWTOOTH VOLTAGE/AUDIO/TONE-GENERATOR	A	1 N	N	C	
50-50 CHANCE/HEADS/TAILS/LED./FLIP	A	2 N		C	42
RECEIVER/LIGHT/BSR X-10 HANDHELD/LED.S	AD	9 N		C	
"PIPS"/BAND OPENINGS/SUNSPOT CYCLE	A	2 N			
TIME AN EVENT/UP TO 24HR/SOUND AN ALARM/PROGRAM	A	2 N	Y		

Sheet1

FORWARD-BIASED/REVERSE-BIAS/DC. VOLTMETER/TEST	A	1	N	N	
TEST EQUIPMENT/ALARM/IF. STAGE/RF. STAGE/SPEAKER	A	1	N	N	C
ELECTROSTATIC CHARGES/IONIZING RADIATION/LEAVES	A	2	N	N	30
CCT SIMULATION/CAD./PSPICE/FREQUENCY RESPONSE	A	5	N	Y	C
SPICE/CCT SIMULATORS/HF. HYBRID-PI MODELS/JUNCTION	A	6	N	N	C 7
RATEMETER/SCALER-TIMERS/DIGITAL FREQUENCY METER	A	3	N	Y	
RC. PHASE LAG NETWORK/SHIFT/HIGH Q/TRANSISTOR	A	6	N	N	E
RTL./DTL./TTL./ECL./MOS./LED./COMPARATOR	AD	2	Y	N	
FREQUENCY/MIXER/VCO./LO.		2			C
TEST EQUIPMENT/1-250MHZ/TRANSMISSION LINES/RF.	A	2	N	N	
MULTIBAND MANUAL TUNER/CAPACITOR	A	6			
HV. TRANSISTOR/MOD./PS./TRANSMITTER/GAIN	A	2	N	N	
CURRENT FLOW/5MA/LOGIC/TTL./RATE/31.25KBAUD/MUSIC	D	3	N	N	
MONOSTABLE/MICROCOMPUTERS/ACKNOWLEDGE SIGNAL/PULDA		1	N	N	C
RF. POWER/VXO CAPACITOR/2 TO 4KHZ/FREQUENCY SPREAD	A	2	N	N	C
MM5837N NOISE GENERATOR CHIP/SQUARE WAVES/DIGITAL	AD	2	N	N	C 46
PARALLEL-RESONANT FREQUENCY/SERIES RESISTANCE	A	1	N	N	C
TUNING UP LOW-POWER TRANSMITTERS/DIODE/SWR.	A	6	N	N	C
BALANCED MIXER/LPF./IF. AMP./1700KHZ OSCILLATOR	A	2	N	N	
HV. LEAKAGE, STATIC BUILD-UP/NEGATIVE/ION FLUX	A	2	N	N	C
EXCITER/DELAY/TEN-TEC OMNI/VOLTAGE/TR./RF./SWITCH	A	1	N	N	
X-ACTO KNIFE/RF. AMP./LAYOUT/DREMMEL/DRAFTING TAPE	A	3	Y	N	
CAD.S/AC., DC. & TRANSIENTS/LANGUAGE/ANALOG	A	9	N		C
COMPUTER/AMDEX/SANYO/1V P-P/VOLTAGE	A	2	N		
RELIEF FROM POWER-LINE NOISE/PVC/BETTER SNR.	A	2	N	N	C
48V DC./LED. POLARITY INDICATOR/RING/LOOP/LOAD	A	3	Y	N	C
TAMPER-PROOF/FAULT PROTECTED/RESET	A	1			
DM-170 BOARD/MOD.S/TERMINAL	A	2			
POTENTIOMETER/BUFFER/TAC./CFT/PMT.S	A	3	N	N	C
400V/3000V-US/HIGH-SPEED MEASUREMENTS/AFTER-FIRING	A	5	N	N	C
CONVENIENT/RING VOLTAGE/LED./ON-HOOK/~36-48V DC.	A	2	Y	N	C
AUDIO TO VHF./NEGATIVE-RESISTANCE/LAMDA/SIGNAL	A	1	N	N	C
4KV PSEUDO-RECTANGULAR/IMAGE INTENSIFIER TUBE/\$400	A	2	N	N	C
HEATING/COOLING/LOAD/UNIUNCTION/SCR.	A	2	Y		C
INEXPENSIVE/TOGGLING/CLOCKING/NAND/LED.S	D	3	N		
TRANSISTORS/7-SEGMENT LED. DISPLAY	D	1	Y		
TIMING RESISTOR/CAPACITOR/TRANSISTOR	A	6	N		C E
PRINTER/RTTY. INTERFACE/COMPUTER	DA	1			C
		1			
<\$30 CCT/SINGLE-ENDED		4			
MIXER CHANNEL/ATTACK/DECAY/HUM & HISS/DISAPPEARING	A	1	N	N	
RADIO-CONTROLLED MODEL AIRPLANES/COIL/PHONES	A	1	N	N	C
OLD ROM. SET/TTL./HORIZONTAL DRIVE/VERTICAL/SYNC	DA	1	N	N	C
BUILT IN DISPLAY/TIME INTERVALS/SECONDS/MONTHS	D	2	N	N	
EASY-TO-BUILD/SWITCHES/REED RELAY/TRANSISTOR	DA	5	Y	Y	C
X-RAYS/MAGNESIUM/UNITY GAIN BUFFER AMP.	A	5	N	N	C 61
BASE BIAS/CONDUCTION/VARIED/HEAT SINK/HOT/COOLING	A	1	N	N	C
PTT. LINE/REPEATER/HAND-HELD/2M/VHF./UHF./SQUELCH	A	2	N	N	C
MICROPHONE/ELECTRET/ANTENNA/WIRE	A	1	N	N	C

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SHIELDED WIRE/SMALL-SIGNAL-DETECTOR	A	1	N	N	C	
455KHZ IF. COIL, 100KHZ/4.5MHZ IF. COIL, 1MHZ OUT	A	1	N	N	C	
ATTENUATION/DIODE/EMITTER FOLLOWER/COIL/ROLLOFF	A	1	N	N	C	
TUNERS/TUNED CCT/INDUCTORS/COILS/RF./MATCHED/LOAD	A	3	N	N		3
LATCH ON/TRIGGER/1.5A FAST-ACTING FUSE/ZENER DIODE	A	2	Y	N	C	
CURRENT/VOLTAGE/UROLOGIC/BURNS/TRANSFORMER/LPF.	A	4	N	N	C	E
X-Y MODE/DIODE/TEST PROBES/VERTICAL AMP./SWEEP	A	1	N	N		57
FLASHGUNS/CAMERA/EXPOSURES/CONSERVING FILM/TRIGGER	A	3	Y	N		E
CAMERA/TRANSMIT/RECEIVE/FADE/SWITCH	A	1	N	N		
BUFFER/COMPLEMENT OUTPUT PAIR/LINEARITY/2.5 TO 40V	A	1	N	N	C	
COINCIDENCE UNITS/JITTER/<20NS/TRIGGERED/DIODE	A	1	N	N		
1KW/100US/MIRROR/TRIGGER/STEP-UP RATIO/1:50	A	3	N	N	C	
LED. LAMPS/IONS/KINETIC ENERGY/MOD./MAGNETIC FIELD	A	2	N	N	C	26
THERMAL DELAYS/PULSE/RUGGED DV-DT/DARLINGTON	A	9	N	N	C	
RF./MICROPHONE/ANTENNA/12IN/80-130MHZ RANGE/9V	A	3	N	N	C	
VIDEO-CHROMA PROCESSOR/LENS/TUNERS	A	3	N			
MIXER/RF. AMP./OSC.	A	3	Y			
TRANSMISSION LINE/FORWARD/REFLECTED/VHF./UHF.	A	3	N	N	C	
HARMONIC ATTENUATION/EASE/MATCHING INPUT & OUTPUT	A	4	Y	N	C	
SCR./LATCHING FUNCTION/3 LED.S/TOGGLE SWITCH/RELAY	A	4	N	N		
LED. "HEAT"/MOD./BATH/1000W/BULB/GLASS TUBING	A	1	N	N	C	
POWER-FET. AMP./AMATEUR BAND	A	5	Y			
	A	2	Y			
LINE VOLTAGE/235V/RECTIFIED/CARBON PAPER/ALUMINUM	A	2	N	N		
GERMANIUM DIODES/TRANSMITTER MEASUREMENTS/GROUND	A	5	N	N	C	
EPROM./AC. LINE/Z80/TOUCH-TONE/TELEPHONE/LIGHTS	DA	4	Y	Y	C	
COUNTER ENABLE/DIODE/PROTECTS THE INPUT CCT/TTL.	AD	2	N	N	C	46/94
T NETWORK/TRANSCIVERS/METER/LOADS/RF./MATCHING	A	5	N	N		
PS.S/VOLTAGE REGULATOR/FET.	A	3	Y			
HIGH-RESOLUTION/RECEIVING/PICTURE/BASIC	A	5	N		C	
GUN SHOT/EXPLOSION/STEAM TRAIN/CAR		6				
RECEIVER/VHF./MOD./RF./UHF./AF./AGC./70MHZ IF.	A	2	N	N		
USEFUL READINGS UP TO 100MHZ/12V DC./32MA/COIL	A	3	Y	N		
AM./1HZ/VERY FAST/ATTENUATORS/COMPUTER/FILTERS	A	3	N	N	C	
OPTICAL COUPLER/SBC./EEPROM./MCU/ASM/ASSEMBLER	AD	7	N	Y		
LASER BEAM/POLARISERS/MONOSTABLE/CMOS.	AD	3	N		C	
BLINKING NEONS/CMOS./MULTIVIBRATOR/LED.	AD	6	N			
GALENA-&-CAT'S WHISKER CRYSTAL DETECTOR/RADIO	A	3	N	N	C	
JAMMING/HF./VHF./ANTENNA/S-METER/RECEIVERS	A	1	N	N	C	
DIODE POLARITY/BEEP/POOR SOLDER JOINTS	A	1	N		C	
PROJECT/ECCLES-JORDAN FF.	AD	2			C	42
RMS.-TO-DC. CONVERTER/CURRENT SOURCE/DC. OFFSET	A	6	N	N	C	
DIODE-BRIDGE/TRANSISTORS/SPIKE-SUPPRESSION/HV.	A	2	N	N	C	
CONVERTER/SPS/LOAD VOLTAGE/CONTROL/PULSE/RECTIFIER	AD	4	N	N	C	
PHASE-LEAD COMPENSATION/COIL/BALL BEARING/UNSTABLE	A	5	N	N	C	
ADC./COUNTERS/LATCHES/PULSE HEIGHT MEASUREMENT	D	4	N	N	C	61
IMD./POSITIVE LEVEL SETS THE STARTING AMPLITUDE	A	6	N	N	C	
BULB/FOREIGN CARS/TRUCK/GATE/DARLINGTONS	D	1	N			
SWITCHING/MULTIBAND/RF./1-RPM. MOTOR/CORES	A	3	N			

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BASIC PROGRAM/OPTOISOLATOR/COMPUTER	AD	3	N	Y	
OLD OSCILLOSCOPE/SIGNAL MONITOR	A	5			C
HV./HEIGHT/SYMMETRIC PULSES OF +-120V/WIRES/GRID	A	8	N	N	C
SWITCHING TRANSISTORS/ZENER DIODES/VOLTAGE LEVELS	AD	1	N	N	C
C64/RS-232-C/TTL./HEX INVERTER/OPTOCOUPLER/VIC 20	D	2	N	N	
SENSOR/FULL OR EMPTY/RELAY COIL/SWITCH/TANK	A	2	N	N	C 46
KIT/BAND/OSCILLATOR/REVERSE BIAS VOLTAGE/FREQUENCY	A	1	N	N	C
VHF./RECEIVER/RF./AUDIO AMP./VCO./SYNTHESIZER PLL.	A	4	N	N	C
PROJECT/MOD.S		3			
CARRIER SUPPRESSION/1W AMP./6M/100MW/DIODES	A	2	N	N	C
LOSS RESISTANCE/WIDE FREQUENCY RANGE	A	2	N		C
RAMP GENERATOR/SAWTOOTH/VARIABLE CURRENT	A	1	N		C
UJT./RELAXATION/NEON-BULB/MULTIVIBRATORS	A	3	N		C
TMOSFET./GEOMETRY/STRUCTURES		4			
SWR. METER/RECEIVER/TRANSMITTER	A	3			
DUMMY LOAD/BALANCE/COAX/SHIELDED CABLE/MEASURE	A	2	N	N	E
FIELD/HIGH-IMPEDANCE METER/DISC CAPACITOR/VTVM	A	1	N	N	C
CAPACITOR/VOLTAGE-DROPPING/117V AC./POWER LINE	A	2	N	N	
SENSORS/ACCELERATION/GRAVITY/MAGNETIC STRIP	AD	2	N	N	C
NONINDUCTIVE/RF./SWR./MOTOR/MULTIPLE DIPOLE/CABLE	A	3	N	N	
INTEGRATES BIPOLAR & CMOS./LARGE LOADS	A	7	N		C
THERMOCOUPLE/VOLTAGE ISOLATION/NOISE	A	7	N		C
VIDEO DISK/CD. PLAYERS/TRACK/FOCUS/LED./ENERGY GAP	A	3	N	N	AM
AIR CONDITIONER/REFRIGERATION	A	3			C
OPTICAL ISOLATOR/TRIAC/DIAC/GAAS. IRED./PORT	AD	4	N	Y	
RIPPLE/240V/AC./4 DIODES/VOLTAGE DOUBLER	A	6	N	N	
RC. NETWORK/CONSTANT-CURRENT SOURCE/RAMP VOLTAGE	AD	4	N	Y	C
0.25W OF OUTPUT/CRYSTAL/RF.	A	1	N		E
HIGH-GAIN/BW./STABILITY/FEEDBACK/SETTLING	A	8	N	N	C 7
COUNTERS/VCO./CRYSTAL OSCILLATOR/PHASE-NOISE	AD	3	N	N	C
THERMALL STIMULATED CURRENT (TSC)/MBE/HEMT'S	A	4	N	N	
TONE/FET./SIGNAL/CODE/TRANSCIEVER	A	1	N		
DETECTORS/HE-NE LASER/INCANDESCENT LAMP	A	4	N		C
TTL./CMOS./HV.-HIGH-CURRENT LOAD/LOGIC-LEVEL/FAST	DA	5	N	N	C
NONLINEARITY/SOURCE & GATE TIED/P-CHANNEL/KNEE	A	1	N	N	C
RELATIVE/BUFFER/TFEL/THIN-FILM ELECTROLUMINESCENT	A	1	N	N	C
SIGNAL STRENGTH/SW./RELATIVE METER READINGS/AMP.	A	2	Y	N	
ERROR AMP./BIAS LOOP/ZENER DIODE	A	1	N		C
UP.-BASED/PROBE/SAMPLE/DAC.	AD	9	N		C
PROGRAM IN M-BASIC/ALLOPHONES/SOUNDS	AD	6	Y		C
THERMOCOUPLE/ISOTHERMAL COLD-JUNCTIONS	A	5	N		C
TEST CCT/POWER TRANSFERS/WAVEFORMS/100HZ/33KHZ	AD	6	N	N	C
STAIRCASE/NO/NC/CLOSURE/FULL-WAVE RECTIFIER	A	1	N	N	C
RESONATOR/CAPSULE/BARKING/DOG TRAINER/WIRELESS	AD	5	Y	N	C 48
MUSIC/SOUND/CARTRIDGE/PARALLEL PRINTER PORT	DA	1	N	N	C
STABILITY/INPUT STEP CHANGE/LPF./RC. TIME CONSTANT	A	2	N	N	C
POWER-FAILURE MANAGEMENT CCT/CALENDAR/UP./RTC.	DA	9	N	N	C
JFET. VOLTMETER/COILS/WIND/RF.	A	3			C
CRYOTRON AMP.S/0.03 TO 3.0MHZ/SUPERCONDUCTORS	A	2	N	N	C

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SWITCHED-CAPACITOR/BANDPASS/LOWPASS/NAND	AD	1 N	C	
LIGHTS/CARS/VEHICLE/LAMP/SIGNAL/FLASHER	A	1 N		
MC6800 UP./MICROCOMPUTER/QUANTISATION ERROR/JITTER	AD	9 N	N C	
HIGH DC. ACCURACY/SUMMING NODE/VIRTUAL EARTH	A	9 N	N C	
BURR-BROWN/CLOSED-LOOP GAIN/BW./150OHM LOADS/+-10V	A	1 N	N C	
COUNTER/EPROM.S/RESET-TRIGGER/PROGRAMMABLE CLOCK	DA	3 N	Y C	42
TRANSDUCERS/MEASUREMENT/AMP.S/DIFFERENTIAL	A	5 N	N C	
RECEIVER/REGULATOR/TUNER/LUMINANCE/CRT.	AD	4 N		
VARACTOR DIODE/VARIABLE/TUNED CCTS	A	4 N		
MOSFET.S/AUDIO/80HMS/75W INTO 40HM/SPEAKER	A	2 Y	N	
HV. TRANSISTOR/SPEECH/AUDIO TRANSFORMER/MICROPHONEA		1 N	N C	
C31024 PHOTOMULTIPLIERS/FF./SCINTILLATORS/GATES	DA	6 N	N C	61
NOISE/NF./IMD./SNR./AMP.S/EMF./IMPEDANCE/ROD	A	4 N	N	
STORAGE-REGISTER CLOCK/INTERNAL MOSFET.S/SHIFTS	DA	1 N	N C	
STEREO CD./ANTI-ALIAS/PC./DIGITAL AUDIO FRONT ENDS	AD	8 N	N C	
VERY LOW LIGHT LEVELS/PHOTOCURRENT/INTENSITIES	A	5 N	N	
EXCITATION/KELVIN-VARLEY VOLTAGE DIVIDER	A	9 N	C	
STORE/DTMF. TONES/MELODY/FIXED-VOCABULARY/PHRASES	AD	1 N	N C	
POTENTIOMETER/FERRITE RODS/RF./VARIABLE CAPACITOR	A	2 N	N C	
SIGNAL COMPRESSION/10^-11\ -10^-5VA/-10 TO 70DEG C	A	3 N	N C	
PREAMP./CONSTANT/CLASSES OF AMP.S/CONTROL VOLTAGE	A	6 N	N	
14MHZ/CRYSTAL OSCILLATOR/RECEIVER	A	3 Y		
BACKUP COPIES/DEMODULATOR/DATA RECORDER/COMPUTERAD		4 N	N	
MARK/SPACE/BW./300 BAUD/INTERFACE/TU./MODEM	AD	1 N	N C	
MONITORING/CURRENT/SWITCHED/TRAFFIC LIGHT/AC. LINE	A	2 N	N C	
7MHZ/ANTENNA/KEYING/RELAY/AMP./QUARTZ CRYSTAL	A	4 Y	N C	
FREQUENCY ADJUSTMENT/POT/"ABOVE AND BEYOND"/HV.	DA	1 N	N C	94
PHOTOACOUSTIC SPECTROSCOPY/MOSFET./JFET.	AD	9 N	C	42
OSCILLATOR/VCO. AMP./MEASUREMENT/FILMS/COUNTER/RF.	AD	4 N	N C	
COMPUTER/RS-232/2000HZ TO 3000HZ/VHF./MARK/SPACE	AD	1 N	N C	
WATER/VFC./TIMER/CASSETTE TAPE RECORDER/AMP.	AD	5 N	N C	
GAAS./COMMUNICATION RECEIVERS	A	4	C	
CMOS. SWITCHING/MATRIX/CHANNEL-INDICATING/PAUSE	DA	6 N	N	
DSP./TELEPHONE/DATA ACCESS ARRANGEMENTS/DTMF./FSK.	DA	8 N	N	
4-PHASE STEPPER MOTOR/BIPOLAR/TORQUE	D	4 N	C	
WITHSTANDS MOMENTARY SHORT CCTS/NEEDS NO GATE-BIASA		1 N	N C	E
1-SHOT MULTIVIBRATOR/PLAY/60S COUNTDOWN/POWER-AMP.	DA	7 N	N	57
ASCII./BAUDOT/F1 EMISSIONS/MARK/SPACE/PLL./RADIO	AD	4 N	N	
COMPUTER RS232/2125/2295/TERMINAL/TU/COCO/6809	AD	9 N	Y C	
UP.S/SERIAL INTERFACE/MODEM	DA	1 N	C	
PAGER/AFSK./DECODER	A	1 N	N C	
TIME-OUT/TARGET TRANSFER/LIFETIME SYSTEM/DETECTORS	D	6 N	N C	61
TIMER-COUNTER IC'S/SCR.S/PERIOD/LAMPS	DA	2 N		
ULTRA-LONG/PROGRAMMABLE DELAYS/PULSE	D	3 N		
MINI-CIRCUITS/NMR. IMAGING/RF./LO./DSB/SSB./VSWR.	A	2 N	N	
AT LEAST/DECADE ATTENUATOR CCTS/PHONO/RIAA/IHF	A	7 N	N	
RF. FEEDBACK/DRAIN LOADING/GATE SWAMPING/POWER	A	6 N	N	
PHASE COMPARATOR/NMR./AMP.-DETECTOR/ULTRASOUND	AD	8 N	N C	
DISPLAY/VOLTAGE/LINEAR SLOPE/L/200UH/15A/PULSES	A	1 N	N C	E

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BASIC/SOFTWARE/CHECKSUMS/PROGRAM LISTING	AD	7 N	C	
MICROSTRIP/SRD. IMPULSE GENERATOR/1-20GHZ/MIC./IF.	A	4 N	N	
COLLECTOR TUNED TO 50MHZ/GAMMA MATCHES/9V BATTERY	A	3 Y	N	
ASTABLE/DEFLECTION PLATES/SQUARE WAVE	A	4 N	C	
PRINTER/PASCAL CODE/MUX./DEMUX./SWITCHES	D	4 N	Y C	
SIGNAL PROCESSING/SERVO CONTROL/PRELOADED COUNTERD		4 N	N C	
TEMPERATURE STABILITY/MAXIMIZED/GENERIC/RC./DRIFT	A	6 N	N	
PS./MONITOR/AT-CUT CRYSTAL/OSCILLATOR/DAC.	A	7 N	N C	
BACK-TO-BACK/POWER UP/INITIALIZE/INDETERMINATE	D	1 N	N C	
MOV./TRANSIENT SUPPRESSION/KEYPAD/3.579545MHZ	DA	5 Y	N C	
MK5087/SIGNAL ENCODER/LC. CCTS/BANDPASS FILTERS	AD	9 N	N C	
68000/SIGNALS/ARBITRATION SCHEME	D	4	C	
HADRON/VERY HIGH READ-OUT CHANNEL/DETECTOR/BURSTS	A	4 N	N C	
TIME MARKERS/PULSES/CONTROL SYSTEM		3	C	
THERMISTOR/SENSING/RIGHT ATRIUM/ARTIFICIAL/PROBE	A	3 N	N C	
MOD./BW. CAN BE EXTENDED TO 140-155MHZ/MARS/RADIO	AD	4 N	N C	
SYNTHESIZED/RADIO/BCD./BIFET. SWITCH/PTT./DUPLEX	AD	6 N	N	
DOUBLET ANTENNA/1650KHZ/HAM/MOSFET./VARACTOR DIODE	A	2 N	N C	
PHOTODIODE/MCA./PULSE GENERATOR/TRACE ELEMENTS	A	2 N	N C	
MODAMP/GAIN BLOCKS/RF./MICROSTRIPLINE/UHF./TEST	A	8 Y	N	
QUARTZ/ALLAN DEVIATE/STABLE/RECTANGULAR	AD	8 N	C	
STORAGE/AGC./EEPROM./MICROPHONE/SPEAKER/AMP.	AD	5 N	N	
TRANSMITTER HUNTING/CTCSS/DTMF. DECODER/TONES	AD	2 N	N C	
DRIVER/BIPOLARS/TRANSISTORS/DH-200/DAVID HAFLER	A	5 N	N C	
BCD./DECODER/DRIVER/DATA BUS/7-SEGMENT	D	4 N	C	
5KHZ/CB.-TO-10M CONVERSION/MIXER	A	1 N	C	
CAPACITANCE/DRIFT CHAMBER/POLE ZERO NETWORK/STRIPE	A	5 N	N C	
SATELLITE APPLICATIONS/GAIN/K-BAND/LOSS	A	7 Y	C	
LOOP TECHNIQUE/HIGH-SPEED FET. OA./BUFFER/LOADING	AD	7 N	N C	
QRPP/CW. KEY/ANTENNA/FIREBALL/MINIATURE/LITTLE	DA	2 N	N	
ROTARY AF. MIXER/ANALOGUE SWITCH/RF./LO. DIVIDER	AD	7 N	N C	
BCD. COUNTERS/OSCILLATOR/OSCILLATOR/TRIGGER/PULSE	DA	9 N	N C	42
REGULATOR FAILURE/ADJUSTABLE/ZENER DIODE	A	1 N	C	
THERMOCOUPLES/IMPEDANCE/REGULATOR/TEMPERATURE/CEA		5 N	N C	
BIT-SLICE PROCESSORS/MICROSEQUENCER/RAM.	D	7 N	C	
LINEAR/TRANSISTOR/CURRENT-LIMIT/QUIESCENT/600UA	A	1 N	N C	
PIN PHOTODIODE/HEATER/LOGARITHMIC/THERMISTOR	A	9 N	N C	
LED.S/CONSTANT-CURRENT SOURCE/LINE/CCTS	A	1 N	C	
KEY-CLICK FILTER/<\$20/COLOR-BURST TV. CRYSTAL	A	1 N	N C	
LOWER/EMI./10W/1KW/30KHZ/50KHZ/SNUBBER CCT/POWER	A	9 N	N C	
MICROALTERNATOR/CHOPPER DRIVEN EXCITER/WINDING	A	4 N	N C	
COVERED/AIR/TIME & TEMPERATURE DRIFTS/THERMAL EMF.	A	7 N	N C	
CAD./ENGINEERS/CCT SIMULATION/GAIN/ANALYSER II	A	4 N	Y C	
LOUDSPEAKER/TEMPERATURE SENSOR/COLD	AD	2 N		
DARLINGTON TRANSISTORS/DRAIN-TO-SOURCE	DA	2 N	C	
HEADLIGHTS/PARKING/CAR/FLAT BATTERY	A	2 Y		
CALLS/INTERRUPTING/PLL./DETECTION/VOICE/NOISE/2M	AD	3 N	N	
LPF./BANDPASS FILTER/LASER/DYNODE/INTERFACE/PC.	AD	6 N	N C	25
ERROR DETECTION CONTROL/TALKOFF & TWIST/DTMF. TONE	DA	3 Y	N C	

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MOSFET./PROTECTION/FOLDBACK	A	1		
THERMISTOR/BRIDGE/VOLTAGE REFERENCE	A	2 N		C
KEYPAD/SRAM./COMPARATOR/COUNTER/FF./MONOSTABLE	DA	5 Y	N	C
RESONATOR/AMP./PHASE SHIFT/INPUT IMPEDANCE	A	6 N		N
LNA./MICROWAVE/DOWNCONVERTER/HOT-CARRIER DIODES	A	7 Y	N	C
WWW/ACCURATE/FREQUENCY COUNTERS/MEASUREMENT/RF.	A	2 N		N
DAC./SAMPLING/OA./DPM./CLOCK/2'S-COMPLEMENT BINARY	AD	2 N		N C
BIDIRECTIONALLY/LAN. TRANSFORMERS/IXYS IGBT./IO.	AD	5 N		N C
4 DOUBLER STAGES/1.75MHZ CRYSTAL/PENTODE/FINAL	A	6 N		N
LINEAR/DIFFERENTIAL AMP./+-1243 PA/PLETHYSMOGRAPHY	A	5 N		N 76
RIGS/PS.'S RECTIFIER/POWER PENTODE/PNP TRANSISTORS	A	5 N		N
UP./8-BIT/16-BIT INSTRUCTIONS/DELAYS	D	9 N		N C
BULB LOAD LINE/4 DIODES/NICD. CELLS/CHARGING	A	2 N		N C
IO. PORTS/HS/PSG/IBM PC.S/EXPANSION CARD/BRAIN	DA	5 N		N C
COMPUTERS/MIDI. PORT/HAM RADIO/SIGNAL ANALYZER/HAM	DA	3 N		N C
BIG TRAK/8-CHANNEL/PLL./UP./ROBOT/CMOS.	DA	9 N		Y C
TONE PITCH/AM./FF./SOUND EFFECTS/DATA	DA	6 Y		Y C
HIGHER PRESSURE/COMMUTATION TIME/5KV/TRANSMISSION	A	2 N		N C
120HZ/EMISSION SPECTROSCOPY/FIRING/HV./LOW/NOISE	A	5 N		N C
DUAL-GATE MOSFET./QUARTZ CRYSTAL/IF. OUTPUT/FILTER	A	1 N		N
PARALLEL/INTERFACING/INTEL/CP-M/DOS./IEEE STANDARD	D	9 N		N C
VIDEO STORAGE/RGB. OUTPUT/DMA./RAM./COLOR	D	6 N		C
SERIAL, ADDRESSABLE, RECEIVE-TRANSMITTER/RS-232	DA	9 N		Y
PLL.-BASED/DIGITAL/GIGABIT-PER-SECOND/HIGH-SPEED	DA	6 N		N C
ISOVOLUMIC CONTRACTION PERIOD/DOGS/DRUG/ALGORITHM	DA	7 N		N C
CENTER FREQUENCIES/STOPBAND/+-1.25DB/RIPPLE	A	2 N		N C
SYMMETRY/VOLTAGE/FREQUENCY/SINE-WAVE	A	2 N		C
LCD./CODE SPEED/CW./LF. SYNTHESIZER/OSCILLATOR	DA	2 N		N C
OA./10^-8-10A/DC.-10KHZ/ALLOYS/OXIDE SURFACES	A	9 N		N C
EACH/IS ASSOCIATED WITH A C VARIABLE/RAM./EPROM.	D	9 N		Y
LINEAR AMP./DRIVERS/GAIN OF 20/SYNC TIPS/VIDEO	DA	7 N		N C
10S DELAY/DISCONNECTED/ON POWER-UP/BACKUP BATTERY	DA	7 Y		N
TOUCH SWITCH		2		
10TH-ORDER HIGH-PASS & 1ST-ORDER LPF.S/DETECTOR	A	9 N		N C
ROM.-RESIDENT/EPROM. PROGRAMMER/PIA./RAM.	D	9 N		C
FOG SET/THERMOELECTRIC MODULES/LED.	A	7		C
SINGLE-CHIP UC/RS-232/INTERFACE/COIL PREDRIVER	D	6 N		Y C
ADC./DUAL PORT RAM./5101L1/DATA ACQUISITION	D	6 N		N C 42
AM9511A ARITHMETIC-PROCESSING UNIT (APU)/COMMANDS	D	5 N		N C
LINE/UP./OPTO-COUPLER/EPROM.	DA	9 Y		C
SYMMETRISING FF./MICROSTRIP LINES/TOF./START/STOP	D	6 N		N C 61
WHICH LINE THE CALL IS ON/OPTO-COUPLER/6 LINES	A	1 N		N C
DIODES/GOOD PERFORMANCE/NOISE/SPIKES	A	2 N		C
PC./COMPUTER/PARALLEL/PORT/INTERFACES/SIMM'S	DA	7 Y		N AJ
78OHM TWISTED-PAIR WIRE/INTERFACE/IEEE 802.3/LAN.	DA	9 N		N C
JFET./DUAL-GATE FET./AM./SW./SSB. RECEIVER/RIG	A	3 N		N
STEP-UP TRANSFORMER/DC. TO AC. CONVERTER/TUBE	AD	4 Y		N
OPTOISOLATOR/RELAY/RADIATION METER/PROBABILITY	DA	6 N		Y
ADD AN INDEPENDENT LATCH/DATA/CLOCK PULSES	D	1 N		N C

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TRIGGER PULSE/FET./HYSTERESIS/SMALL DELAY/INTERSIL	A	1	N	N	C	
ETHERNET/LAN.S/CPU./PACKETS/ADDRESS RECOGNITION	D	8	N	Y	C	42
ATMOSPHERIC ION LEVELS/AC./HV. TRANSMISSION LINES	A	6	N	N	C	8
WAVEFORM GENERATOR/SINE CONVERTER/TIMER	AD	4	N			
9V/BATTERY/"DIT"/"DAH"/CW./SKIN RESISTANCE	AD	2	Y	N	C	
RF. OSCILLATOR/SWEEP GENERATOR/COUNTER-DIVIDER	DA	3	N	N	C	
USART./RAM./EPROM./TIMER/STD BUS/INTERFACE/DATA	D	2	N	N	C	
125MHZ/DRIFT CHAMBER/TIME-INTERVAL MEASUREMENTS	D	2	N	N	C	61
ROOM FOR EXPANSION & CUSTOMIZING/EPROM./PC./LINK	DA	7	N	N		
PLATE ANTENNA/CMOS./PHOTORESISTOR/BUFFER	DA	2	N		C	
POWER MOSFET./REFLECTOR/TRS-80 COLOR COMPUTER	AD	8	N	N		
TRANSDUCER/"CHOKE-ON" REMINDER/PULSE/NOTE/CARS	D	3	Y	N		
6800/6802/LOW-COST ADAPTORS/DEBUGGING/ICE.	DA	3	N	N		
PERIODS/CURRENT/MYOELECTRIC/YOUNG AMPUTEES	D	2	N	N	C	
PC.S/DMA./HOST BUS/ADVANCED ETHERNET DATA LINK	D	3	N	N	C	
DMA./IEEE/AMD/SEEQ/LANCE/MEC/MEDIUM ACCESS CONTROL	D	9	N	N	C	12
DATA & COMMAND BUSSES/PERIPHERAL CCT DELAYS/LATCH	D	5	N	N	C	
FULL-DUPLEX LINE PROTOCOL (HDLC.-LIKE)/CPU./FRAME	D	9	N	Y	C	
EXCLUSIVE-NOR/COLOUR/COMBINING WITH THE VERTICAL	DA	1	N	N	C	
INCREASE IN BW./IMPROVEMENT IN SOUND QUALITY	A	7	N	N		42
WHITE/BULBS/ILLUMINATION/UV./9/PARALLEL-CONNECTED	A	2	Y	N	C	
SAFE/PENILE/REED RELAY/LED./FEEDBACK CURRENT AMP.	AD	9	N	N		E
LOGARITHMIC/PERIOD/EXPONENTIAL MODEL/TRANSDUCERS	A	6	N	N	C	
DUAL-MODULUS DIVIDER/500MHZ/VARACTOR DIODE/ECL.	DA	6	N	N		
ELIMINATE NON-LINEARITY/PROGRAMMABLE SCALE FACTOR	AD	1	N	N	C	
TTL. PULSE/TRIGGER/MOSFET./MONOSTABLE/OPTOCOUPLER	AD	4	N	N	C	
DUAL/LED.S/OA./AUDIO/18KHZ CUTOFF	A	1	N			
PSD./STEPPING MOTOR DRIVE/RAMP	A	4	N	N	C	
CHARGE AMP./LPF./NOTCH FILTER/150MS PULSE/PLATES	AD	4	N	N	C	
HV./FAST DUMP/A FEW 100 JOULES/COILS/POWER PULSE	A	4	N	N	C	
SAP MENISCUS/COMPUTER-ASSISTED/VIDEO	AD	6	N		C	
OA.S/VOLTAGE COMPARATORS/REFERENCE	AD	1	N			
WORK-HORSE/RF./SHIELDING/PS.	A	5	N			
RADIO ALERT LIGHT/ENERGIZED/RADIO STATION CARRIER	A	9	N	N	C	
SNUBBER/DC. MOTOR/CONSTANT TORQUE/POWER	A	1	N		C	
SPUTTER/MULTIVIBRATOR/PRINTED WIRING BOARD (PWB)	DA	3	N	N	C	
"CHANNEL ADVANCE"/"START OF SWEEP"/GATE LOGIC	D	9	N	Y	C	
RAM./EPROM./8-CHANNEL ANALOGUE MUX./PAPER MILLS	DA	9	N	N	C	
COMPUTER/FT./PROCESS CONTROL	DA	5	N	N	C	
512K/BUFFERS/RAMSEL-BAR/DTACK-BAR/FF./REFRESH	D	1	N	N	C	31
CELL IMPALEMENT/MECHANICAL/SPINDLE	D	8	N		C	
1-100S TO 59 MIN, 59.99S/SPORTS	D	3	N			
POTENTIOMETER/AUDIBLE ALARM/LIMIT/DEUTERIUM	AD	3	N	N	C	
BC./VACUUM TUBE/CARRIER/RF./BETWEEN 1100 & 1600KHZ	A	5	N	N	C	
VARIETY OF SENSORS/BRIDGE	A	1				
CONSTANT OPEN LOOP GAIN/VCO./PLL./8086 CPU./POWER	AD	8	N	N	C	
TTL./MODE/CONTROL WORD FORMAT/ADDRESS/SOFTWARE	D	9	N	Y	C	
GOOD/HIGH AMPLITUDE/NOISE/MEAN RATE MODULATION	AD	4	N	N	C	
MULTIPROCESSORS/IO./DZ11/UP.S/PDP-11/TTL./RS232C	DA	9	N	N	C	

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MUX.ING/ADDRESS & DATA LINES/DECODER/PAL./VOLTAGES	D	9 N	N	C	E/42
VANE/PHOTO TRANSISTOR/DISC INTERRUPTER TAB/SHAFT	A	5 N	N	C	
FAST/DRAM.S/XT'S & AT'S/CAD./CGA/EGA/VGA/IO.	D	7 N	N	C	
ADC./MICROCOMPUTER/UP./DRAFT/SPEED/F-V CONVERTERS	A	6 N	N		
HAMAMATSU PHOTONICS/NEUTRON SPECTROSCOPY/LINAC	AD	5 N	N	C	12
ELECTRODES/DIELECTRIC PERMITTIVITY/MEASUREMENT/HF.	A	7 N	N	C	
PHOTODETECTORS/PHOTODIODE/VIDEO AMP./HV. OA.	AD	9 N	N	C	39
EUV EMISSION/SCANNING/CAMAC/TOKAMAK/PHOTODIODE	DA	8 N	N	C	2
OPTICAL CAVITY/METALLIC COATINGS/OSCILLATOR/VCO.	A	3 N	N	C	
COMMON-MODE/CANCELLED/TWIN-WIRE/CONSTANT CURRENT	A	3 N	N	C	
LINEAR FEEDBACK SHIFT REGISTERS/LOGARITHMIC AMP.	A	6 N	N	C	
DISPLAYS STATUS INFORMATION/ACTIVE/OCTAL/CAPACITOR	D	1 N	N	C	
SCHMITT TRIGGER/COMPUTER/ALGORITHMS/INTERFACE	DA	3 N	N	C	
LED.S/FF.S/BRIDGE/OSCILLATOR-AMP./PHOTOCELL	AD	6 N	N	C	
LED.S/3.58MHZ CRYSTAL/TELEPHONE/DATA	DA	4 Y			
DATA LINES/CONNECTOR/STROBE/CHARACTER	DA	5 N		C	
6A TRIACS/AUDIO/MIDI./PARALLEL-COMMUNICATION	DA	3 N	Y		AE
SERIAL INTERFACE/LOW POWER/COMPUTER	DA	3 N		C	
PLL./DEMODULATOR/FM. TRANSMITTER/JAS-1-OSCAR 12	D	2 N	N		
		1		C	
LINEARLY PROPORTIONAL/555 TIMER/DEPTH PROBES/OA.S	AD	9 N	N		
FILTER/AT CUT/RESONANT FREQUENCIES/ESR./OVERTONE	AD	7 N	N		E
MANOMETER/ELECTRO-OPTICAL SENSORS/PC./PUMP/LIQUID	A	4 N	N	C	
PMT./DAS./ADC./8080A UP./ALTAIR 8800B/SERIAL LINK	D	4 N	N	C	
PIGGYBACK CCT/ABOVE THE RETURN KEY/CTRL KEY/CABLE	D	2 Y	N	C	
AC. TO AC./GATE TRIGGER/MONOSTABLE/CURRENT-ZERO	AD	9 N	N	C	
RAM./VDP/EXTERNAL/PLL./COMPOSITE-VIDEO SIGNAL	DA	6 N	N	C	
DRIVING/BACK EMF./CURRENT/OA./VOLTAGE/EFFECTS	A	2 N	N		
1 TO 20/OFFSET/REAGENTS/RECORDER/MEASUREMENT/FLUID	A	2 N	N	C	
INTEGRATOR/COMPARATOR/RAMPS/INVERTER/LF.	D	1 N		C	
OSCILLATOR/CURRENT AMP./STABLE	A	3		C	
8KV/ELECTROSPRAY/EMISSION/COMPOUNDS	A	9 N		C	42
SM024-0065/SLOTTED/SWITCH/UP./INTERFACE	DA	9 N	N		
SONAR RANGING/PULLEY/UP./MOTION-CONTROL/ADDRESS	DA	4 Y	N	C	
REVERSIBLE/UP-DOWN/NAND/DARLINGTON/TRANSISTOR/COIL	DA	3 N	N	C	
REFRESH CYCLE/CPU./MUX./TIMING DIAGRAM/COUNTERS	D	4 N	N		
CONSTANT VOLTAGE SUPPLY (VRS)/TRIAC/ELECTROTHERMAL	A	3 N	N	C	
CHANNEL LENGTH/4095/LOW COST/RAM.	D	4		C	
CONVERSION/STORAGE/RETRIEVAL/ADC.	DA	9			
PHASE LOCKED/STORAGE/PULSER/OPEN LOOP/HALFCYCLES	AD	5 N	N	C	
DECODING CONTROL/ADC./ADC./VCR./RECORDING/MOUNT	D	5 N	N	C	
CURRENT CONTROLLED CURRENT SOURCE (CCCS)/I-NIC.	A	9 N	N	C	
WEATHER VANE/CODIFIED DISC/CYCLIC CODE/POSITION	D	2 N	N	C	
STEPPED/BIFET./OA./ANALOG MUX.S/OTA./FILTER/DAC.	AD	9 Y	N		
PENLIGHT/UP TO 12FT/TV. COMMERCIALS	DA	3 Y			E
PULSER/CONTROL GATES/5V TEST PS./ASTABLE	DA	3 N	N	C	
COUNTERS/FF.S/SIMPLE/COLLECT SPECTRAL DATA/SERIAL	D	5 N	N	C	39
15-PIN/9-PIN/NES/SHIFT REGISTER/OSCILLATOR-TIMER	DA	6 Y	N	C	
FILTERS/SOURCE IMPEDANCE/LOW/COMPONENTS/MATCHED	A	2 N	N	C	

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PROM./TEST WAVEFORM/FREQUENCIES/ADDRESS	D	2 N	C	
ANALYSER/QVT/OSCILLOSCOPE/PRINTER	D	3 N	C	
VOLTAGE REGULATOR/ZENER DIODE/INEXPENSIVE	A	2 N	N	
OA.S/TRANSISTORS/BEL/20HZ TO 80HZ/-10V TO +4V/RC.	A	3 N	N C	
BINARY COUNTER/MWPC./POSITION SENSITIVE DETECTOR	D	9 N	N C	61
WEIGHTED BY RESISTORS/STAIRCASE WAVE/SUMMATION	DA	9 N	N C	
FLASHES/LOW/HIGH/INPUTS/DIODES/CMOS.	D	1 N	C	
CAD. PROGRAMS/PERSONAL MICROCOMPUTERS/DIGITAL	D	9 N	N	
MAINS WIRING/RECEIVER/CODED RF. BURSTS/Z80 TIMER	D	4 N	N C	
HEATER/TEMPERATURE/APPLE IIE COMPUTER/GPIB./DOPED	DA	3 N	N C	42
NON-LINEAR/EFFECT/OPTICAL/TEMPERATURE SENSORS	A	4 N	N C	
FT. MS. (FTMS)/PIT.	D	5 N	N C	16
GPLIS BUS/LATCHES/16-BIT/INPUT CHANNEL/SELECTOR	D	3 N	N C	39
REMOTE CONTROL/RELAY/BCD./MOD./OPTICAL ENCODER	DA	9 N	N C	35
ASYMMETRIC NONLINEAR NEGATIVE RESISTOR/INDUCTOR	A	9 N	N C	
EAR/LOUDSPEAKER/DRIVER/TRANSDUCER/MEASUREMENT	A	4 N	N C	
TTL.-LEVEL INPUT/SOLDER POT/BLADE SWEEPS/WIPES	D	2 N	N C	95
EARTHQUAKES/BUZZER/LED. FLASHES/CHART RECORDER	A	2 N	N	
OPTOISOLATOR/FET./OA./COUNTER EMF./SCR./AMP.	A	1 N	N C	
DENSITOMETER/PHOTOCELL/RESISTANCE/DIODE	A	2 N	C	
NAND/4-BIT COUNTER/DECODER/CLOCK	D	1 N	C	
QRP/WATTMETER/SWITCH/TRANSMITTER/ANTENNA	A	1 N		
MANY DATA WORDS/RECORDED/RANGE/EXTENDED	D	4 N	C	
COMPUTER/SEQUENCER/FAST/SHIFT-REGISTER	D	4 N	C	
BCD. CODES/DISPLAY/UNITS/10'S/RESET	D	4 N		
		1	C	
QUAD LATCHES/COUNTERS/READOUTS/MONITORING/PULSES	D	3 N	N	
OSCILLATOR/INSTRUMENTATION/PROBE/TEST SOLUTION	A	4 N	N C	
CPU./GPIB./AIB/DATA GENERAL/PIXELS/MOSLM/HAMAMATSU	D	9 N	N C	2
TTL./EXCEPTION VECTORS/SUPERVISOR STACK POINTER	D	2 N	Y C	
OA.S/FET.S/ULTRA-LOW DISTORTION/4-QUADRANT/VLF.	A	5 N	N C	
TTL. &/CMOS. COMPATIBLE/OSCILLATOR/NAND GATES	D	2 N	N C	
PROJECTOR/FILAMENT LAMP/PS./AMP./OA./TRANSISTOR	A	3 N	N	
D TYPE/EXCLUSIVELY OR'ED/50% MARK SPACE RATIO/LAN.	D	2 N	N	
EXTREMELY SIMPLE/6 RANGES/CURRENT SENSING RESISTOR	A	1 N	N C	
TRIGGER/PC./NAND/MONOSTABLE MULTIVIBRATOR/INHIBIT	DA	7 N	N C	25
PHOTOCELL/DAMPING/DC. EM./ELECTROMAGNETS/AIRGAP	A	9 N	N	
38.9MHZ/RC. ELEMENTS/SRCO/CONTROLLING RESISTOR	A	3 N	N C	39
LATCH/QUAD NAND/SELF-BIASING/HAND CAPACITANCE	DA	1 N	N C	
RGB./TTL. CLOCK OSCILLATORS/SHIFT REGISTER/COUNTER	DA	4 N	N C	
HANDSHAKING/DATA TRANSFER/BUFFERS/MONOSTABLE	DA	3 N	N	
CARRIER/28.322MHZ/OA./VOLTAGE REGULATOR/SIDEBANDS	A	2 Y	N	
		2	C	
DAC.S/TTL./LATCH/COUNT/WRITE	D	4 N	C	
AN-ON-&-OFF SWITCH/INPUT LINEAR GATE/ADC./MCA.	D	5 N	N C	
AMP./MOD.S/TTL./DIGIT DISPLAYED/BCD. ENCODER	D	8 N	N	
PID. ACTION/EXTENDED FREQUENCY RESPONSE	A	7 N	N C	
TINY BASIC INTERPRETER/DEVELOPMENT/CONTROLLER	D	2 N	N	
S-100 BUS/FAST/SIMULATIONS OF MONTE-CARLO/63-STAGE	D	4 N	Y	

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LCR/COUPLING CCT/BIFURCATION/DYNAMICS/POINCARÉ MAP	A	9 N	N	C	
OPTICAL DETECTOR, PULSE EDGE-CONDITIONER/DISPLAY	DA	3 N	N	C	
DRAM. ARRAY/REFRESH/CLOCK/SHIFT REGISTER	D	4 N		C	
CURRENT ANALYSIS		2		C	
OA.S/WAVEFORM/HARMONICS/DATA/4 X 74LS164	AD	9 N	N	C	
32-BIT ADDRESS & DATA BUSES/PIPELINED/CYCLES/80387	DA	4 N	N	C	
POWER AMP./COMPARATOR/ISOLATOR/MEASURING PLASMA/5/A		3 N	N	C	
PMT./VFC./HOLLOW CATHODE (HC) LAMPS/READOUT	DA	8 N	N	C	39
2DEG-OF-FREEDOM/ROTOR SPEED TRACKING/RESPONSES	A	8 N	N	C	
PULSE WIDTH/TWT AMP./CONTROL PULSE	D	2 N		C	
DARK ROOMS/WEATHER STATIONS/SECURITY	D	4 N		C	
MULTIPLIER/COMPARATOR/OA.S	A	2 N		C	
FIRING CCT/AUTOMATICALLY STABILISED	A	2 N		C	
ENVELOPE DETECTOR/LASER/MICROCOMPUTER	D	5 N		C	
CONTROL/SLEW/SCAN/MINICOMPUTER/MOLECULES	D	9 N		C	42
MARKER/REFERENCE PULSES/DELAYS/DISPLAY/MEASUREMENT	DA	3 N	N	C	
SUMMING AMP./MODULATION/AUDIO/TRANSMITTER/HF./AFC.	A	7 N	N	C	
INTEGRATORS		1		C	
FREQUENCY RESPONSE CURVE/SPECTRUM	A	5		C	
64 NOTES/RANDOM NUMBER GENERATOR/LIGHT/SPEAKER	D	6 N	Y	C	
MACH-ZEHNDER/PLASMAS/VIDEO MEMORY/FREEZE	D	4 N		C	
DRIVE A LOUDSPEAKER/EMITTER FOLLOWER AMP./TONE	A	4 N	N		
HIGH/LOW/PROTECTING/SET-CONTROL/BISTABLE	A	1 N		C	
TRIGGER/THRESHOLD/CONTROL VOLTAGE/TIMING DIAGRAMS	AD	2 N	N	C	
300-3.4KHZ/<0.5DB OF RIPPLE IN THE PASS-BAND/Q	A	1 N	N	C	
PHOTOTRIACS/LOW-LEVEL SIGNAL/GATE/CURRENT DRIVEN	A	2 N	N	C	
PCB. FABRICATION/ANALOG COMPUTER/COFFEE TIMER	A	5 N	N	C	
MELTING/3A VARIAC/MICROSWITCHES/TUBES/MATERIALS	DA	2 N	N	C	16
RETRIGGERABLE MONOSTABLE/ADC./RTI-800/IO. BOARD	DA	4 N	N	C	16
DISTINGUISH BETWEEN STRONG/WEAK ELECTROLYTES/DMM.	A	1 N	N	C	
COMBUSTION/COUNTER/R-S FF./EX-OR GATES/CLOCK	D	1 N	N		
2KW DRIVE/ROTOR/SPEED/VOLTAGE/SCR.S/PLL./GENERATOR	D	9 N	N	C	
COMPARATOR/AUDIO OSCILLATOR/TL/MOS.	DA	2 Y			
PROGRAMMABLE/IBM PC./HOST COMPUTER/OPTOISOLATOR	DA	7 Y	N	C	
TIME DELAY CCT/45S BEFORE IT RECONNECTS/SPIKE	A	2 N	N		
BCD./CMOS. DUAL SYNCHRONOUS DIVIDE-BY-10/D FF.	DA	7 Y	N	C	
TRIGGERING/SIMULATING/SOUND GENERATOR/EFFECTS	A	4 Y	N	C	
OSCILLATOR/100HZ TO 10KHZ/DIODES/CLIPPING/LPF.	AD	2 Y	N	C	
VARIABLE ATTACK, SUSTAIN, & DECAY TIMES	A	2 N		C	
PMT./PULSES/LIGHT INTENSITY/DOUBLE-BEAM RATIO	DA	3 N	N	C	25
OPTIMUM RUNNING/CALIBRATION/RED LED.S/PHA./LIGHT	A	2 N	N	C	61
DUAL MONOSTABLE MULTIVIBRATOR/NAND/SCHMITT TRIGGER	DA	5 N	N	C	
MUSICAL/HI-FI/FREQUENCIES/STEREO/MONO	A	2 N			
BEAT/PITCH MODULATION/DECAY TIME	A	2 Y			
WIEN BRIDGE/DUAL/POTENTIOMETER	A	1			
CRYSTAL-DERIVED PURE SINEWAVE/PLL./FILTER	AD	2 N		C	
STROBE PULSE/SOLID STATE 2.5A RELAYS	AD	4 Y			
VARIABLE DELAY		1			
WIPE-RATE SELECTION		2		C	

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		1		C	
		1			
PULSE GENERATOR/INVERTER/LOW-PASS ACTIVE FILTER	A	8	N	N	C
SCR./FUSE-BLOWING/0.25A TO 5A/OPTOISOLATOR-COUPLER	AD	3	N	N	C
DETECTOR/6-STAGE LADDER MULTIPLIER/VOLTAGE DOUBLER	A	6	Y	N	C
EXCLUSIVE OR GATES/STEPPING MOTOR/INFUSION PUMP	D	1	N	N	C
PULSE TRANSFORMER/DIODE/CAPACITOR/VOLTAGE DIVIDER	AD	1	N	N	C
LINEAR VOLTAGE TUNING		2			C
BCD./GYMNASIUM/DATA SELECTOR/SEQUENCER/SWITCH BANK	DA	7	Y	N	
PROLONGED		1			C
BATTERY/CAR DOOR/LIGHTING CCT/SENSORS/OPEN/CLOSED	AD	2	N	N	C
SENSOR/OSCILLATOR-TIMER/ON-DELAY/WINDOW COMPARATOR	AD	4	N	N	C
CAPACITOR/CONTROL VOLTAGE	DA	1	N		C
TARGET DETECTION/TRANSDUCER/ECHOES/BURST/RELAY	AD	8	N	N	
ASTABLE FREE-RUNNING/HIGH-CURRENT NPN TRANSISTOR	AD	1	N	N	C
RESISTORS/GRAPHITE PENCIL/LINES/CONDUCTIVE INK	AD	3	N	N	C
SINGLE OUTPUT PULSE/OA. SQUARE-WAVE GENERATOR	A	3	N	N	C
RESET/CONTROL VOLTAGE/OUTPUT CCTS/THRESHOLD/PS.	AD	5	N	N	
CO ₂ /SEPARATION & MEASUREMENT/NONDISPERSIVE IR.	AD	6	N	N	C
2 MONOSTABLE MULTIVIBRATORS/DELAY/TRAFFIC/RELAY	DA	2	Y	N	
LOAD & LINE REGULATION/1.5%/TIMER/ZENER/PULSES	A	1	N	N	C
		3			
MTS/SOUND/DECODER/STANDARD/FM.	A	3			
60W POWER OA./IA./SENSOR/NEUTRAL DENSITY FILTER	A	3	N	N	C 61
VISUALLY/0.25-WAVELENGTH/HV./WINDING/AF. GENERATOR	A	3	N	N	C
1050HZ/NWS/VHF. RADIO BC.S/SCANNER/RECEIVER/162MHZ	AD	8	Y	N	C
MCA./SIGNAL AVERAGER/PMT./LIGHT/DETECTORS/MOTOR	D	5	N	N	C 39
MOTOROLA/KINETICS/HYDRAULICS/FLUID FLOW VALVE	AD	4	N	N	C
SERIAL-IN, PARALLEL-OUT/IA./ADDER	D	6	N	N	
NOVRAM./OTP/68HC711D3/ADC./ALU./IO./INTERFACE	D	7	N	N	
RS-232/ANNUNCIATOR/40KHZ OSCILLATOR/IO./HD61830	DA	7	N	N	
PULSE GENERATOR/TRANSISTOR/TESTER/BATH	A	5	N		C
DETECTION/MEASUREMENT OF SEA LEVEL OSCILLATIONS	DA	5	N	N	C
VIDEO OA.S/CRID/JFET./DMOSFET./TPC./SLD/SLAC/WIRE	A	9	N	N	C
SHIELDED/TEFLON/DETECTOR/12V/AIR/FILL GAS	A	4	N	N	C
OA./GENERATES A RAMP WAVEFORM/FEEDBACK/1V DIODE	A	2	Y	N	
INTELLIGENT ADC./DISPLAY/CPU.	DA	4	N	N	C
UP./IRON LOSSES/CURRENT/LOAD	AD	8	N		C
TAPE SENSOR/STRIP OF METAL/CARTRIDGE/RELAY/DISPLAY	A	1	N	N	C
FIRING/REFLECTOR/SPOTLIGHT/SCR./LIGHT/TRIGGER COIL	A	5	N	N	
AC./X-Y OSCILLOSCOPE/<\$25/TRANSFORMER/SIGNATURES	A	3	N	N	C
ON-CHIP EPROM./ICE./ZIF. SOCKETS/CMOS./PC./DATA	AD	3	N	N	
SERIAL DATA/STREAMER TUBES/EFFICIENCY/CAMAC/CMOS.	DA	4	N	N	C
SLD DETECTOR/HYBRID/GREATER AMPLIFICATION/CHANNEL	DA	5	N	N	C
DIMMER/FADER ADC./RAMP GENERATOR/VDU./BUFFER/BUS	DA	6	Y	N	C
2-D/PLANT CUTTINGS/GRIPPER/STEM/LVDT./RAM./RS-232	AD	9	N	Y	64
OSCILLATOR/TIMER/NAND BUFFER/WAVE SHAPER	DA	1	N	N	C
RS LATCH/ELECTRODES/PULSED ARC WELDING	A	3	N		C
PHASE-SHIFT COMPENSATION/QUALITY FACTOR CONTROL	AD	1	N	N	

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P-N JUNCTION/TRANSPORT/GERMANIUM/SILICON	A	3 N	C	50
INEXPENSIVE/PARALLEL PORT/COMPUTERS/DATA	D	9 N	C	
UP TO 1MHZ/DEMONSTRATION KIT	AD	1 N	N C	
SEALED LEAD-ACID CELL/12V/BATTERY	A	1		
VIDEO RAM./CPU./DMA. CONTROL/FLOATING-POINT/FPA	D	7 N	N C	
RS423 LINK/SERIAL/INTERFACE/PORT/LED./PLAY/8KBYTE	DA	4 Y	N	
2MHZ/PC.S/8K RAM. EXTENSION/INTERFACE/PORTS	DA	6 Y	Y	
STABILIZE THE CURRENT TO A CW. LASER DIODE/LOAD	A	1 N	N C	
QRS/AMP./CPU./RTC./ERRORS/INTEGER	DA	8 N	Y C E	
16-BIT/STD/CIMBUS/IBM PC.-XT-AT/OS./INTERFACE/DIN	D	9 N	N	
RESOLUTION/0.1MM/DATA-COMMUNICATION/INTERFACE/ADC.	DA	3 N	N C	
ATE./TRAINING/COURSE/PCB./TRANSLATION/NAND GATE	AD	8 N	Y C	
VENTER FREQUENCY/QUALITY FACTOR (Q)/UP OR DOWN	AD	2 N	N C	
OA./M937/BUFFER/RADIO/REPEATER/CMOS./7-SEGMENT	AD	4 N	N C AC	
PACKET RADIO/NOVRAM./AFSK./CPU./ROM.S/COMPUTER	DA	4 N	N	
SUBHARMONIC/TRIANGLE GENERATION/SINE/MICROCOMPUTE	DA	6 N	N C	
CASCADED/LONG DELAYS/MULTIVIBRATOR	AD	6 N		
MAXIM/DUAL-CHARGE PUMP/VOLTAGE DOUBLING	AD	4 N	C	
VALVE/PUMP/PESTICIDE ANALYSIS/MOD./ELECTRODES	A	3 N	N C	
<\$60/LSI./AMP.-PRESCALER/ECL.	DA	6 Y	C	
PROPORTIONAL CHAMBER/HADRONS/PION	AD	9 N	C	
OA./DYNAMICS/MATHEMATICAL MODEL/DISCRETE MAP	AD	2 N	N C	
GATE CCT/SPECTROMETER/POLARIMETRY/MALUS CURVE/MCAA		3 N	N C 61	
COMMUNICATIONS/RADIO/DBM./MMIC./DUAL-GATE GAASFET.	A	6 N	N C	
IO. PORTS/SCALE/WEIGHING/LSI.	D	5 N	C	
VAN DE GRAAFF ACCELERATOR/MAGNET FIELD CONTROLLER	AD	9 N	N C 12	
VFO./VCO./COUNTER/IF. AMP./MIXER/7-SEG. DISPLAY	AD	8 N	N	
INCIDENT/TAPE RECORDER/AUDIO/DATA LOGGER/RADON	AD	7 N	Y C	
DIGITAL CCTS/FAST CHARGE-INTEGRATING & SHAPING CCT	AD	8 N	N C	
AMP./PHOTOELECTRIC/HORN DRIVER	AD	1 N	C	
LOW BIAS CURRENTS/OA./FULL-SCALE/5KV AT 3.5 IN.	A	1 N	N C	
FEEDBACK LOOP/DVM./CELL/AMP./FREQUENCY/CURRENT	A	3 N	N C	
MIKE/SIGNAL TRACER/BENCH CHORES/20-PIN DIP SOCKET	A	1 N	N C	
DYNAMICAL/OSCILLOSCOPE/PERIOD-DOUBLING/OSCILLATION	AD	9 N	N	
AVALANCHE NOISE/DIODE/AMPLIFIED/JUNCTION	AD	2 N	C	
SCREW MOVEMENT/AUTOMATIC/SERVOMOTOR/FEEDBACK/LOCDA		7 N	N C	
STATE GENERATOR/LATCH/COUNTER/21.5MHZ/ARBITRATION	D	8 N	Y C	
PHASE SPLITTER/BUCKET-BRIGADE DEVICE/BBD	A	5 Y		
HORIZONTAL/VERTICAL/CENTROID/CYCLOTRON	A	5 N	C	
VCO./COMPARATOR/PHASE DETECTOR/BRIDGE	AD	6 N	C	
CLEANS UP RADIO/TAPE/RECORD SIGNALS		5		
TV./MACROVISION-ENCODED VIDEO TAPE/DECODER/VCR.	AD	8 Y	N C	
AUTOMATIC/ZEROING/OA./INTERFACE/POTENTIOMETER	AD	5 N	N C	
FEEDBACK/OA./VCA./MULTIPLIER/COMPANDING/OSCILLATOR	AD	6 N	N C	
VARIABLE TRANSCONDUCTANCE AMP.S/MUSICAL/8088	AD	3 N	N C	
SPICE/TARMY-GHAUSI/ROOT FINDING/PREDISTORTION	A	4 N	N C	
MEASURING FLUX DENSITIES TO 20KGAUSS/MAGNETIC	AD	1 N	N C	
RF. BOARD/AMP./DIRECT CONVERSION	A	4 Y		
OPEN-LOOP CONSIDERATIONS/BODE PLOTS		4	C	

Sheet1

VOLTAGE GAIN/OFFSET/HF. NOISE/RATIO/SIGNAL/IDEAL	A	2	N	N	
MINIMUM GAIN OF 10/CLOSED-LOOP GAIN/STABILIZATION	A	2	N	N	C
	AD	4			C
VERTICAL-COUNTDOWN/10-STAGE COUNTER/VERTICAL-HOLD	AD	2	N	N	C
YEAST CELLS/VCO./VCA.	A	4	N	N	
TV. TUNER/PROGRAMMABLE DIVIDER/VIDEO GAMES/RF.	AD	4	N	N	C
DIRECTIONAL COUPLER/DETECTOR/SIGNAL-PROCESSING	A	9	N	N	
FF.S/SHIFT REGISTER/VOLTAGE COMPARATORS/MOD.	AD	2	Y	N	C
FFT./OA./LOGARITHMIC AMP./ADC./PIEZOELECTRIC	AD	6	N	N	C
MEASUREMENT/VELOCITY/ABSORPTION/BETWEEN 10 & 30MHZ	A	5	N	N	C
MEASUREMENTS/+-200DEG C/SEMICONDUCTOR/CALIBRATION	AD	3	N	N	C
NEEDS/STABLE, PRECISELY SYMMETRICAL SUPPLY VOLTAGE	A	1	N	N	
LOW IMPEDANCE OUTPUT NODES/BIASING RESISTORS	A	2	N	N	C
PROGRAMMABLE TIMER		1			C
OA./INVERTING AMP./IMPULSE RESPONSE/SH.	AD	9	N	N	C 61
30-50MHZ & 130-175MHZ/3-30DB/DIGITALLY CONTROLLED	AD	3	N	N	C
FET. VCO./OSCILLATOR/VARIABLE-CAPACITANCE DIODE	AD	4	N	N	C
SEED/AGITATOR/HEATING/SALTS/ZERO-CROSSING SWITCH	A	8	N	N	
FIELD-EFFECT/LOW-PARASITIC HIGH-GM/GAIN/VSWR.	A	2	N	N	C
ODD-ORDER FREQUENCY MULTIPLIER/INTERCEPTS/AMP.S	A	1	N	N	
DIGITAL SWICHES/AUDIO POWER AMP./DOWN TO 1HZ/SHAPE	DA	3	N	N	C
LIQUID-HELIUM-COOLED/IO. MATCHING/430MHZ/50OHM	A	6	N	N	C
ACTIVE LPF./VCO./TRACKING OF A NOISY REFERENCE	A	1	N	N	
SHORT SETTLING TIME/PASS-BAND & STOP-BAND/BUFFER	AD	1	N	N	C
RC. LPF./AMP.S/AUDIO BAND	A	1	N		C
THYRISTOR-CONTROLLED REACTOR/EPROM./CORRELATOR	AD	4	N	N	C
FREQUENCY, DURATION & AMPLITUDE/INTERFACE/FF. CCT	AD	4	N	N	C
ATOMIZATION TIMER/MONOSTABLE/SCR./PHOTOTRANSISTOR	AD	5	N	N	C
OSCILLATOR/INFINITE VARIETY/MUSICAL	A	2	N		
AC.-DC. CONVERTER/BRIDGE RECTIFIERS	A	7			C
POSITION SENSITIVE DETECTOR/LIGHT PARTICLES	A	8	N	N	C
INTERFACE/DECODER/MASTER/SLAVE/WRITE/LOCATION/WAIT	D	1	N	N	C
VHF./PL259 CONNECTORS/SO239 UHF./PLUGS/CONTEST	A	3	N	N	C
TV./BC./PULSES/16 DIFFERENT WAVE SHAPES/DAC.	DA	1	N	N	C
AQUARIUM/SPEAKER/SHIELDED CABLE/RTV/TEST TUBE	A	3	N	N	C
APPROXIMATION/TRIGONOMETRIC FUNCTIONS	A	1	N		C
PIN/BUS/UP./PROGRAM/DATA	D	1	N		C
SERIES-RESONANT/INDUCTOR/VCXO/IMPEDANCE/FILTER	A	5	N	N	C
BRIDGE/REVERSING RELAY/SBC./BIOLOGICAL/ADC./DAC.	AD	8	N	N	C 25
SYMMETRIC ASTABLE/MODULATOR/SCHMITT TRIGGER/LOGIC	D	6	N	N	C
PIN DIODE/TV. SOUND IF. AMP./VIDEO DETECTOR	AD	5	Y	N	C
LINE SCAN COILS/BEAMS/PURITY/STATIC/DYNAMIC/FAULTS	A	5	N	N	
MIXER, IF., AGC., AFC./PILOT-TONE DETECTOR/PLL.	A	4	N	N	
NEAR-ZERO DISTORTION/POWER-AMP./DRIVE 50OHM LOADS	AD	7	N	N	
ADJUSTABLE VOLTAGE REGULATOR/TRACK/EPROM./MCU	AD	9	Y	N	C
TRANSDUCERS/LPF.S/FEEDBACK/DAMPING/SENSOR/FORCE	A	9	N	N	
DETECTOR/PULSE SHAPE DISCRIMINATOR/GAMMA-RAY EVENT	A	9	N	N	C 12
LOAD/SPEED/MICROCOMPUTER/CAR/DRIVING STABILITY	D	7	N	N	C
ROBOT FINGERS/UP./DATA ACQUISITION/RC./FINGERTIP	DA	5	N	N	C

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MUCH FASTER/DATA MATCHES/UP.-BASED/MEMORY-MAPPED	D	2	N	N	C	
INPUT AMP.S/FADER/PANNING/NOISE/LINEARITY/HEADROOM	A	4	N	N	C	
DX/UP/DOWN/HUNT/ACTIVITY/MEMORY/CHANNEL	DA	3	N		C	
SEGMENTS/EXCLUSIVE OR GATE/EVALUATION KIT/0.1999V	AD	3	N	N	C	
TELEPHONE/SPEAKER/MICROPHONE/OA./HOOK-SET/SPEECH	AD	5	N	N	C	E
UP.S/7 SEGMENT/LED. DISPLAY/CMOS. TO TTL. DRIVER	DA	4	N	Y	C	8
FREQUENCY SYNTHESIS/THUMBWHEEL SWITCH/RECORDER	DA	2	N	N	C	
VFC./LCD./SENSOR/TRIAC DRIVER/AMP./TIMER/DPM./DVM.	AD	2	N	N	C	
OSCILLATOR/15KHZ/LED./HEX SCHMITT TRIGGER/CMOS.	AD	3	N	N	C	
LINEAR MODEL FOLLOWING CONTROL (LMFC)/SPWM./VSI/PI	AD	7	N	N	C	
MONO/STEREO AMP.S/100HZ/SELECTABLE		4				
RETURN-TO-ZERO (RZ)/DATA-PROCESSING/AMI/BINARY	DA	5	N	N	C	
HALL CODE/FORWARD-REVERSE/FILTER/CURRENT-LIMITING	DA	1	N	N	C	
SILICONIX/BCD./CMOS./LED.S/FIELD-EFFECT/NEMATIC	D	8	N	N	C	
40V/MOSFET.S/H-BRIDGE/PHASE-SHIFTED/TRANSFORMER	AD	9	N	N	C	
VOLTAGE BOOSTER/ARRAY FUSES/FINITE STATE	DA	9	N		C	
ADC./MICROCOMPUTERS/8 CHANNELS/NUMERIC	DA	9	N		C	42
SOLENOID BANK VALVES/GAS TRANSFER/FLOW/SENSOR	DA	4	N	N	C	
RELAY/LINE/HYBRID-COIL, OR BALANCE, CCT/TELEPHONE	A	5	N	N	C	
EVENT SELECTION LOGIC/DECODING/POSITION-SENSITIVE	DA	9	N	N	C	39/61
WARBLE/LINE/VARY THE TONE/FROM <100HZ TO >15KHZ	A	3	Y	N	C	
DIODES/SEMICONDUCTORS/SHORT CCT/OPEN CCT/SPEAKER	A	1	N	N		E
STRONG/FIELDS/VITEK/MONITOR/SAR'S/ABSORPTION RATES	AD	5	N	N	C	42
3-DIGIT/7-SEGMENT/COMMON-CATHODE/<\$30/TRANSISTORS	D	2	N	N	C	
SCR./POWER/TRANSISTOR/LED./WIDE RANGE OF BATTERIES	A	1	N	N	C	46
BUCK CONVERTER/STABILITY, OUTPUT IMPEDANCE/ESR.	A	7	N	N	C	
MICROPHONE/DURATION/AMPLITUDE/SOUND/VCA.	AD	4	Y		C	
SIT VIDICON/MECL.-TTL./TUNABLE/DETECTION/OMA/DELAY	DA	5	N	N	C	
		1			C	
		6			C	
PCB. FOIL PATTERN		1	Y			
POWER ON RESET/FAULT TOLERANT	DA	1				
BLOCK DIAGRAM/TINY/1W OUTPUT	AD	3				
INTERFACE/SYNCHRONOUS ADDRESS MUX./SAM/DECODER/\$2!D	AD	9	N	Y	C	
"WARBLING"/SIGNALING/ALERTING/PIEZOELECTRIC SOUND	AD	3	N	N		
RESPIRATORY/AIR/OXYGEN/INSPIRATORY/TIME DELAYS	A	6	N	N	C	
ANIMAL/RAT/FEMUR/3-ELEMENT/RESISTANCE/IMPLANTATION	A	6	N	N		42
WAVEFORM GENERATION/QUADRATURE/SAWTOOTH/TIMING	A	1	N	N	C	
RELAY/CONTACT/ADJUSTABLE/ENERGISE/CLOSES/OPENS	AD	1	N	N	C	
DVM./16-BIT SERIAL-TO-PARALLEL CONVERTOR/COUNTERS	AD	3	N	N	C	25
OPTO-ISOLATOR/LED./COMPARATOR/SCHMITT TRIGGERS	AD	9	N	Y	C	42
CHAMBER/HV.S/LOAD RESISTANCE/ISOLATION TRANSFORMER	A	1	N	N	C	
10KHZ/NOTCH FILTER/COMPARATOR/GATE/INTEGRATOR	AD	8	N	N	C	
SIMPLE/MAINS TRANSFORMER/LV./HV. WINDING/VOLTAGE	A	1	N	N	C	
BUBBLE CHAMBER/CONDUCTIVITY/HEATER BULB	A	7	N	N	C	
ASCII.-TO-BAUDOT/CODE/UP./PRINTER/DATA/RS232 LINKS	DA	6	N	Y	C	
TRANSFORMER/WINDINGS/NORTON AMP./POSITIVE FEEDBACK	A	3	N	N	C	
10MS/HV. TRANSISTORS/TOF./COIL/HIGH VELOCITY/GAS	A	4	N	N	C	39
LIMIT THE BASE CURRENT/MILLIAMPERES TO AMPERES	A	1	N	N		

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COMPARATOR/REFERENCE VOLTAGE/FILTER	A	1 N	C	
MONITORING/REFRESH TESTER CLOCK-QUALIFICATION CCT	DA	9 N	N C	
FET./ANALOG SWITCH/60HZ/TRAIN OF PULSES/0.1S/CELL	AD	2 N	N C	
REED RELAY/EDGE DETECTOR/ASTABLE/1MIN MONOSTABLE	DA	4 N	N	
OPTOCOUPLER/TAPE RECORDER/MESSAGES/JFET. OA.	AD	6 N	N C	
PS./TEST/AUDIO OSCILLATOR/FREQUENCY	A	4 Y	N	
4 TRANSISTORS/CONTROLLED/MATCHED/TRACK/VARIATION	A	1 N	N C	
FET./VARIABLE-VOLTAGE RESISTOR/COMPUTER	AD	1 N	C	
INTERFACE/SPECTRUM ANALYZER/PROGRAMMABLE-GAIN AMPAD	7 N	N C		
MEASUREMENTS/PULSE AMPLITUDE/FIRING TIME/DAC./PC.	AD	4 N	N C	
SQUARER/ACTIVE FILTER/OA./BIFET./NO PHASE ERROR	AD	1 N	N C	E
AMSTRAD CPC-6128/Z80A CPU./OA./TTL./PIA./RAM./ROM.	AD	9 N	Y	
LATCH/FFT./REAL TIME/BIN/MICROPHONE/UP./8KHZ/AUDIO	DA	6 N	N	
FLOW CELL/FLOW INJECTION ANALYSIS/FIA/IBM/PC./DACA	A	9 N	N C	42
DIVIDE-BY-2/FLOODING/MONITOR/RESISTIVITY/FF.	DA	8 Y	N	57
DAS./7.5HP/ELECTRICAL ENGINEERING (EE)/120V/LOAD	AD	5 N	N C	
BOOST & RECTIFY THE OSCILLATOR'S 10KHZ/MOSFET.	AD	1 N	N C	
SYNC SEPARATOR/OA.S/ELECTRONIC SWITCHES/BLANKING	AD	3 N	N	
6TH-ORDER/UP./LADDER RESISTANCE/LOOK-UP TABLE	AD	8 N	Y C	
SPECTROMETER/LVDT./NICOLET 308 PARALLEL IO. BOARD	AD	8 N	Y C	25
OA./SUMMING JUNCTION/WAVEFORM/16KHZ CLOCK/600HZ	AD	2 N	N C	
FLASH ADC./MONOTONIC/OA./SAMPLING/SAR./DUAL-SLOPE	AD	9 N	N C	
REPEATERS/COMMUNICATIONS/AUDIO-BURST GENERATOR	D	6 N	N	
PPI./IO. BUS/QUADRATURE/OPTICAL CODE WHEEL/12-BIT	AD	5 N	N C	
TSM-11 KIT/LOW-COST/\$15.50/PA/INTERCOM/TRANSISTOR	A	3 Y	N C	
HIGH PERFORMANCE/SH./12-BIT ADC./MUX.	AD	7 N	N C	
TEMPERATURE/IA./PRECISION OA./1KHZ CARRIER/AC.	A	2 N	N C	
LOW-POWER IC'S/WORKS FROM MEGOHM SOURCES/3 DECADEAD	2 N	N C		
LOW-PASS/6-POLE/COLLECTING SURFACE	A	4 N	C	
STROBE PULSE/DATA-VALID/ANALOG/KEYPAD	DA	1 N	C	
TRANSPONDER/MULTIPLE TARGET REJECTION/TRANSDUCER	DA	9 N	N C	
TRIGONOMETRIC-FUNCTION GENERATOR IC/AMP./RESONATORA	7 N	N C	57	
QUAD CMOS. NOR GATE/LF. OSCILLATOR/BUFFER/LED.	DA	2 N	N C	
ANALOG-TO-DIGITAL/KIM-1/INTERFACE/SCOPE	AD	6 N	C	
DIFFERENTIAL OUTPUT/CMRR./BUTTERWORTH/CALORIMETER	A	9 N	N C	25
PMT./MCD/LOCK-IN AMP./APPLE II PLUS COMPUTER	AD	7 N	N C	
1000PF/STARK CELL/OSCILLATOR/REAL ZERO BASED/MOS.	DA	3 N	N C	
FREE-RUNNING OSCILLATOR/DUTY CYCLE	D	1 N	C	
ANALOGUE MULTIPLIER/HOWLAND CURRENT PUMP	A	1 N	C	
SINE-COSINE MULTIPLIER/OSCILLATOR	A	1 N	C	
PEAK VALUE DETECTION/SEMIAUTOMATED	AD	9 N	C	
		2	C	
STORE/DIFFERENCE BETWEEN SUCCESSIVE SAMPLES/RATE	AD	1 N	N	
OA./PLL./D FF./BCD. THUMBWHEEL SWITCH/\$100	AD	4 Y	N C	
NBS./EM. DRIVER/IMPACT STRENGTH/HARDNESS/LOAD	A	5 N	N C	
COMPARATOR/INTEGRATOR/JFET./FREQUENCY TRIPLER/VLF.	A	1 N	N	60
SMALL SIZE/HV. AC. TRANSMISSION LINES/60HZ/METERS	A	3 N	N C	
LED.S/SELECTED/UP-DOWN/BINARY-TO-DECIMAL DECODER	DA	2 N	N C	95
INSTRUMENTATION CCTS/TEMPERATURE/SHIELD	A	3 N	C	

Sheet1

VOLTAGE REFERENCE/DUT./CMOS./PARAMETERS/8 ON-CHIP	AD	4 N	N	C	
CURRENT-CONTROLLED AMP.S/UP. CONTROL/BINARY WORD	AD	1 N	N	C	
12-BIT DAC.S/ADC./RAM./EPROM./UP./PC./RS232/NOISE	AD	9 N	N	C	
8-BIT/8-CHANNEL/8X8 DUAL-PORT./BCD. SWITCH/CMOS.	DA	5 N	Y	C	
ANALOGUE INTERFACE/PC./LINK/MICROSYSTEMS/SOFTWARE	AD	7 N	N	C	
EHA2539/COMPUTER/TTL.-COMPATIBLE INPUT(S)/SIMPLE	AD	4 N	N	C	
FAST COMPARATOR/JITTER/TTL./TIMING/FF./500PS/100PS	DA	5 N	N	C	
LIGHT INTENSITY/DATA CAPTURE/MOVING AVERAGER/PC.	AD	7 N	Y	C	
UNITY GAIN CURRENT MIRRORS/TRANSLINEAR/SIMULATION	A	6 N	N	C	
OA./AMP. OFFSET/PROGRAMMED	AD	1 N		C	
AMP./REAL-TIME/MICROCOMPUTER/SPIKE DISCRIMINATION	DA	9 N	N	C	
MIXER/4-POLE COHN CRYSTAL BANDPASS/700HZ ACTIVE	A	7 Y	N		
1MS/20MS/SWITCHED VOLTAGE/TRANSIENT VOLTAGES/FET.	AD	8 N	N		
VSWR./TEM./TRANSMISSION LINE/DIELECTRIC CONSTANT	A	4 N	N	C	
MICROCOMPUTER/ALL-DIGITAL VOICE & DATA NETWORK	DA	5 N	N	C	
LO./VLF./CRYSTAL/IF. TRANSFORMER/MIXER/TRANSLATOR	A	1 N	N	C	
WAVEFORMS/PERIODS/VARIATION/OFFSET	A	2 N		C	
BALANCED MODULATOR-DEMODULATOR/RF./TONE-DECODER	A	3 N	N	C	
DTMF./DECODER/RELAYS/TOUCH-TONE(R)	AD	5 Y			
JFET., SMALL-SIGNAL VHF. MIXER & AMP.	A	2 N			
SERVO-AMP./SPEED/FET.S/PUSH-PULL/DC.	AD	7 N		C	
AMATEUR/1750M BAND (160 TO 190KHZ)/80AU/JFET.	A	3 Y	N	C	3
AVERAGING/LOW-NOISE OA./FILTER/MODULATOR	A	1 N	N	C	
TEMPERATURE SENSOR/VOLTAGE-CONTROLLED	A	3 N		C	
CMOS./LOAD CELL/LOW NOISE & DISTORTION/OA./5-25KHZ	AD	5 N	N	C	
RADIO-CONTROLLED CARS/MOTOR/CLOSED-LOOP	AD	4 N			
TRANSISTOR MATCHING CCT/EQUALIZED PREAMP./AUDIO	A	9 Y	N		
ENCRYPTED COMMUNICATIONS/SINE WAVE/DECODE	A	3 N	N	C	
1-SHOTS/LATCH/COUNTER/DECODER/MAGNITUDE COMPARATCDA	AD	4 N	Y	C	
TIP-TO-SAMPLE APPROACH/TIP CRASH/TIMER/NAND GATES	DA	2 N	N	C	
PACKET/DC. SWITCH/AEA PK-88/AUTOMATIC RESET	A	2 N	N		
READING LAMP/INDUCED VOLTAGE/MUSIC/25A/POWER CORD	A	4 N	N		
CMOS. MULTIPLYING/VARIABLE-FREQUENCY/WORD	AD	3 N		C	
BUFFER/MILLER MULTIPLICATION/GAIN/2-7PF	A	2 N		C	
THD. & IM/TIM/CASCADE/TRANSCONDUCTANCE/DRIVER	A	9 Y	N		
PHOTODIODE/10E-9 BER/NONINVERTING AMP./GAIN OF +16	AD	1 N	N		
CHAOS/COMMUNICATIONS/TEST/NOISE/VFO./PROBABILITY	AD	8 N	N	C	
VEROBOARD/1 IC/NO SETTING UP	A	1			
MODERATE FAST (16.6MBIT-S) FIBER DATA LINK/BW.	A	5 N	N	C	12
THERMODE/SEEBECK/HEATING/COOLING/SKIN	A	9 N		C	
PVDF/POLYVINYLIDENE FLUORIDE/FORCE-VERSUS-TIME	A	2 N	N		
LC./PARALLEL-TUNED/CURRENT-FEEDBACK AMP./IMPEDANCE	A	1 N	N	C	
TMEC/REFERENCE PHOTODIODE/LASER-INDUCED HEATING	A	4 N	N	C	
DAC./SH./ANALOG FILTER/COMPARATOR/OA.S	AD	6 N	N	C	
FREQUENCY/AMPLITUDE CONTROL/O.1-30HZ/30KHZ/CLOCK	AD	1 N	N	C	
LAMP/LIGHT INTENSITY/IA.	A	9 N		C	
0.5% DISTORTION/SINEWAVE/CAPACITANCE-MULTIPLIER	AD	5 N	N	C	
SCR./"CROWBAR" PROTECTION/REGULATOR/CW./QSK/SSB.	AD	4 N	N		
LARGE CAPACITOR/QUASISTABLE STATE DURATIONS	A	6 N	N	C	

Sheet1

3.5MHZ/GAIN-BW. PRODUCT OF 350MHZ/LOOP GAIN	A	1	N	N	
	A	1	N	N	C
ANTENNA/STRIPLINE/INPUT IMPEDANCE IS 50-75OHM/PS.	A	2	Y	N	36
BUFFER/COMPARATORS/NERVE IMPULSE/DISPLAY	AD	9	N		C
RADIOMETRIC/TEMPERATURE SENSOR/THERMAL/ABSORBER	A	6	N	N	C
UNITY-GAIN/FET.S/REGULATORS/STEREO/AUDIO/PHONO	A	9	Y	N	
Z80 UP./COMPUTER-CONTROLLED/REHABILITATION/BICYCLE	AD	9	N	N	E/26
STANDBY CURRENT/<50UA/RINGING VOLTAGE/TRANSISTOR	A	1	N	N	C
BALANCED/UNBALANCED LINES/COUPLING/LOOP	A	5	N		C
CURRENT/BBC/LASER/USER PORT/INTERFERENCE	AD	2	N		C
FRAGMENT/40KHZ/POWER MOS. TRANSISTOR/MOD.S/HEATING	AD	9	N	N	C
SOFT BEHAVIOR/WEAK POSITIVE FEEDBACK/BITTER MAGNET	A	3	N	N	C
FIGHTER-BOMBER/0.5MHZ BW./LINK	AD	1	N		C
FAST COINCIDENCE/NIM/CAMAC/ENERGY/PARTICLES/TARGET	A	4	N	N	C 12
CONTINUOUSLY-RUNNING/INDUCTIVE/TRANSFORMER/MRC	AD	3	N	N	C
ESAT/LIQUID-MEMBRANE COUPLING/PZT./0.5-15MHZ	A	7	N	N	C
RESISTORS/8-CHANNEL/DATA-ACQUISITION	AD	4	N		C
STEPPING MOTOR DRIVE/FF./TORQUE	D	5	Y		
MICROWAVE/S-BAND WAVEGUIDE EXPOSURE SYSTEM/FROG	A	7	N	N	
DETECTOR/GROUP SPLITTER/DECODER/S3525A	A	2	N		C
COMPUTER CARDS/ANTILOG COMPARATOR	AD	1			
FLASH-TUBE		3			
DENSITY/ATMOSPHERIC PRESSURE/SIMULATE/LIGHTNING	A	4	N	N	C
AMATEURS/NEC/VARIABLE NEUTRALIZING CAPACITOR/PLATE	A	1	N	N	C
OPTO-COUPLER/TRANSISTORS/MECHANICAL LOAD/WINDINGS	DA	7	N	N	C 42
INDEPENDENT OF THE LAMP RESISTANCE/CVAA/PUMP	A	4	N	N	C
<\$65/LC. FILTERS/MICROCAP/RESPONSE/POLES/ZEROS	A	3	N	N	
RIAA/MAGNETIC/BASS/TREBLE CUT		5			
LOWPASS/HIGHPASS, NOTCH & ALLPASS/BUTTERWORTH	AD	1	N	N	C 10
PHASE-SHIFT ELEMENT/VAN DER POL/HARMONIC CONTENT	A	9	N	N	C E
SOLAR CELL/LED./COLLIMATOR/SUN ANGLE/AIR MASS	AD	4	N	N	
UNIVERSAL, HF. (150KHZ) DUAL FILTER/EQUALISER	A	1	N	N	C
POLES/ZEROES/SALLEN-KEY RESONATOR/HIGHPASS/LOWPASS	A	3	N	N	C
WIND SPEED & DIRECTION/TEMPERATURE/PRECIPITATION	AD	9	N	N	C 42
TORSION BALANCE/MOD./FIBRE/MEASUREMENT/GRAVITY	A	5	N	N	C
TAPE-RECORDER/DECK/MOTOR/FSK./FAST FORWARD/REWIND	DA	4	N	N	C
AUDIO/LOW-NOISE/BIAMP./HI-FI/FILTER	A	4	Y		C 42
BOOST/CUT/SYMMETRY/SHELF BEGINS AT ~250HZ & 4KHZ	A	1	N	N	C
OSCILLOSCOPE/CONVERSION/ANALOG/DIGITAL	DA	2	N		C
RADIO DIRECTION FINDING/2 ANTENNAS/TDOA/NULLS	A	2	N	N	C
2 VOLTAGE DIVIDERS/MEASUREMENTS/VALUE/INDUCTOR	A	3	N	N	C
GENERATING POLE-ZERO PAIRS/VOLTAGE DIVIDERS	A	2	N	N	C
VOICE-COIL ACTUATOR/SERVO BURST/WINCHESTER/FAST	DA	7	N	N	C
VOLTAGE AMPLITUDE/OA.S/MONOSTABLES/SCHMITT TRIGGER	AD	2	N	N	C
POSITIVE/NEGATIVE PULSES/AF.S/TRANSISTOR/PROBE	A	2	Y	N	C E
CRT./DAC.S/PLL./GENERATOR/MAGNETIC DOMAINS/60HZ	DA	6	N	N	C
APPLE IIE/GAME PORT/PHOTODIODE/IR. LED.S/PULSES	AD	6	Y	N	C
THUMBWHEEL SWITCHES/HYSTERESIS/COMPARATOR/MINIMUM	AD	2	N	N	C E
PC./LIGHTNING PROTECTION/WIND FORCE/METEOROLOGY	AD	5	Y	N	

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PHASE QUADRATURE/SHIFT	AD	1		E
MIXER/MUSICIANS/VOLUME/BASS/TREBLE	A	4Y		
BALANCED MIXERS/TELECOMMUNICATIONS		1		C
AUDIO/PA/BIFET. OA./ADDER	A	1		
POWER CONSUMPTION/WEAR/AIRSTREAM/DUTY CYCLE	A	1N	N	C
1250HZ/CHECKING PCB.S/3V BATTERY/MAXIMUM 12V	A	1N	N	
INVERTING/NONINVERTING/ADVANCED LINEAR DEVICES	A	6N	N	
MCP./TREELS/FWHM./PULSE HEIGHT DISTRIBUTION (PHD)	AD	5N	N	C 16
CONTROL FEEDBACK LOOP/OA.S/POTS/ADJUSTMENT/SAFE	A	1N	N	
SPACE INTERVAL/DOT & DASH/CHARACTER TIMING	A	4Y	N	
HT./EHT./OPEN-CCT HEATER/HUM/WIDTH/FIELD TIMEBASE	A	5N	N	
SPATIAL RESOLUTION/LEADING EDGE/ANGULAR DEPENDENCE	AD	7N	N	C 4/12
PROBE/SHORT CCT/CHECKING/OSCILLATOR	A	1N		C
UP./CURRENT PROPORTIONAL TO/LIGHT/HPLC./SBC.	A	3N	Y	C
COMPARATORS/VSS/FREQUENCY & AMPLITUDE/2ND-ORDER	AD	7N	N	C
BC.-BAND/AM. DETECTOR/MODULATION METHODS/DAC./SSB.	A	9N	N	
AUTOMATIC/HEATSINK/220V/THYRISTORS/OA./SWITCHING	A	6Y	N	
BASS, TREBLE/REMOTE CONTROL/LOUDNESS	A	1N		
VIDEO WAVEFORM GENERATOR/FLASHING UNIT	AD	6N		C
OA./MEASURE SOLAR-CELL OUTPUT	A	2		
DATA ACCESS/ALU./CPU./PROCESSOR/BIT SLICE	D	7N		C
TRD/RESIDUAL ENERGY/PROPORTIONAL WIRE CHAMBERS	AD	9N	N	C
NON-INVERTING/ZOBEL NETWORK/LOUDSPEAKER/POWER OA.	A	2Y	N	
SCANNER/MOD.S/2M/CHANNEL-SELECTOR/ANALOG SWITCH	DA	5Y	N	C
DETECTION/MODULATION/ELECTRODES/LPF./IMMERSION	A	7N	N	C E
PROTECTION/ADJUSTABLE DC. OFFSET & GAIN/PROBE	A	3N	N	C 60
IDENTIFY/SELF STARTING/SPEAKER/AMP./AUDIO/SMALL	A	2N	N	C 46
FREQUENCY STABILITY/FLAT RESPONSE/BATTERY/DRIVE	A	3Y	N	
PH METER/REVERSAL OF CURRENT/SOLUTION/TITRATION	A	2N	N	C E/6
FUNCTION OF TEMPERATURE/THERMOCOUPLE AMP.	A	3N	N	C
RAMP GENERATOR/SAWTOOTH/PATTERN/PULSE/FADER/VCR.	AD	6N	N	C
POSITION/LINES/MICROSCOPE/CAMERA/CURSORS/8255 PIO.	DA	2N	N	
100HZ RESOLUTION/DISPLAY/LED./PLL. TONE DECODER	A	3N	N	
DC. CORRECTION SIGNAL/ERROR/MOTION/DAMPING/FILTER	AD	4N	N	C
PROBE/TRIAC/DIAC/LED./ERROR AMP./HEATER/LIQUID	A	3Y	N	C
REFLECTED FROM LEAF/COLLIMATOR/SUNLIGHT	AD	2N	N	
RF. TRANSISTORS/TANK CCT/BUFFER/SURFACE-MOUNT	A	3Y	N	C
MATCHING CAPACITORS/SNR./MR IMAGING/MAGNETIC FIELD	A	7N	N	C
GOOD RANDOMNESS/R647-04/DAC./UP-DOWN COUNTERS/FET.	AD	4N	N	C
CONSTANT DUMMY LOAD/POWER/LIVE LOAD	A	2N	N	C
DRIVER/EMG.-AMP./RECTIFIER & INTEGRATOR/TIMER/LIMB	AD	9N	N	42
REMOVES DISTORTION		7		
NEW MOS. NOISE GENERATOR IC		1		
OPTICAL APPARATUS/EYE-DISPLAY/RECORDINGS/CAMERA	DA	5N	N	C
HISTORIC/DETECTOR/PENCIL LEAD/RAZOR BLADE/TACKS	A	2N	N	C
REGULATOR/VARIABLE/TRANSFORMER/RECTIFIERS/FILTER	A	5Y	N	C
CMOS./TTL./DUAL-COLORED LED./RESISTOR NETWORK	AD	3N	N	C
RED, GREEN, & YELLOW LED. ARRAYS/MICROPHONE INPUT	AD	5Y	N	C
NO MORE THAN 0.6VDC./3MA/TRIGGER THE ALARM/PROBES	A	2N	N	C 95

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		4	N	C	
PROGRAM GAIN/20MA OUTPUT/FET./BUFFER	A	5	N	C	
RIAA/PHONO PREAMP./TAPE PREAMP.	A	4			
ACCURACY OF +-40'/MAGNETOMETER/MOTOR/REDUCER/RELAY	A	2	N	N	C
RATE/PWM./TIMER/OA./TRIAC/1 SHOT MULTIVIBRATOR	AD	7	N	N	C
FAST RISE-TIME/AUTOMATIC LEVEL SETTING/ZENER-DIODE	AD	3	Y	N	C
BSR-TYPE REMOTE CONTROL/RS-232/SECURITY	DA	7	Y		C
INSTANTANEOUS/HEAT TRANSFER/PIPE FLOW/JFET.	A	3	N	N	C
BIPOLAR/SHAPED/TIME 'WALK'/PULSE/TIMING/20NS/DELAY	AD	1	N	N	
MONOSTABLE MULTIVIBRATORS/NOR GATES/BISTABLE LATCH	DA	1	N	N	C
TTL.-TO-ECL. LOGIC/8US/INPUT FILTERING/MONOSTABLE	AD	7	N	N	C 16
FIFO./ADC./RANDOM EVENTS/MULTICHANNEL DETECTORS	DA	7	N	N	C 61
MICROWORD/CONDITION CODE REGISTER/RAM./ROM./PORTS	D	3	N	Y	C
PIN PHOTODIODE RECEIVER/LED./AMP./BALANCED MIXER	A	4	N	N	C
XENON FLASH TUBE/SCR. GATE/STROBOSCOPES	A	2	N		C
UPPER & LOWER THRESHOLD SETTINGS	AD	2			
1% THD./WEIN BRIDGE OSCILLATORS	A	4			C
OTA.	A	3			
LED.	A	1	N		
		1			
STRAIGHT WIRE INDUCTOR/SERIES/FREQUENCY/CAPACITOR	A	1	N	N	
PROBABILITY/SPECTRAL DENSITY/VELOCITY/PROBE/SHEAR	A	4	N	N	C
NOISE TRIGGERING/EXCLUSIVE OR (XOR) GATE/CMOS.	AD	2	N	N	C
FET./INTEGRATOR/SCHMIDT TRIGGER/FREQUENCY CONTROL	A	7	Y	N	
FUSE/SHORT CCTS/BAD CONNECTIONS/CMOS./SIMPLE/LED.	AD	4	Y	N	
VCA./TRANSCONDUCTANCE AMP./PEAK DETECTOR/VOLUME	A	1	N	N	C
FLOPPY DISK DRIVES/SHUGART/ANSI./MOTORS/40 TRACKS	D	8	N	N	C
LVR CCT/PMT./TRIGGER/CURRENT SWITCH/DISCHARGE/BEAM	AD	4	N	N	C 61
GAIN/~400/IBM PC./12-BIT ADC./COMPUTER PROGRAMS	A	5	N	N	C
SORTS THE VERTICAL FROM HORIZONTAL SYNC PULSES	AD	6	Y	N	60
CLOCK PULSES/POSITIVE FEEDBACK/HYSTERESIS	AD	1	N	N	C
LEVEL COMPARATOR/FET. INPUT OA./RF./900 TO 990MHZ	AD	3	N	N	
PULSE GENERATOR/DEMODULATOR/MATCHED FILTERS/EYE	AD	8	N	N	C
AMP./SPEED CONTROL/POTENTIOMETER/BUFFER	A	1	N	N	C
CELL CAPACITY/LED./REGULATOR	A	2	N	N	
LARGE CRYSTALS/RAMP GENERATOR	A	2			C
TEMPERATURE/INITIALIZATION/LOOP/PIO/ADC./DTMF.	DA	3	N	N	C
NAND GATE/SOLENOID/VOLTAGE COMPARATORS/RELAY	AD	9	N	N	C E
SHOE/MONOSTABLE/ASTABLE MULTIVIBRATOR/FILTER/GAIT	AD	8	N	N	C
EMITTER-COUPLED PAIR/SPICE/CURRENT MIRROR	A	3	N	N	C
FAST/SUMMING AMP./HIGH INPUT IMPEDANCE/100DB	A	2	N	N	C
BATTERY/OA.S/AMP./LED.S/SWITCH/OSCILLATOR/~300KHZ	AD	3	Y	N	C 94
CURRENT/WIND-SPEED/SENSOR/LED.S/SCR./TIMER/BLOWING	AD	1	N	N	C
MASKING		6			
30KV RMS. OR 42KV PEAK/DC. POWER/PS. RECTIFIER	A	4	N	N	
BRIDGE CCT/OA./LED./LOGIC/MEASUREMENT/PTFE./TIMER	AD	4	N	N	C
IA.S	AD	1			
GEL/VAPORIZATION/NEUTRON DETECTOR	AD	4	N		C
ERRORS/FAULT/OSCILLATION/TEMPERATURE SENSOR/OA.	AD	8	N	N	C

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CRYSTAL RADIO/DIODE/VOLTAGE-DOUBLER-DETECTOR CCT	A	3 N	N	C	
GEL CELL/NICD.S/LEAD ACID/CELLS/CONSTANT-CURRENT	A	4 N	N		
CPU./SEARCH & SORT/DATABASE MANAGEMENT/RAM./IO.	D	5 N	N	C	
BEAM/INTERRUPTION/PC.S/BINARY CODE/VIDEO TOUCH	DA	4 N	N		
CCII/ANALOGUE MULTIPLIER/SINEWAVE OSCILLATOR	A	7 N	N	C	
DELAY/ANALOG BILATERAL SWITCH/MULTIVIBRATOR	AD	2 N	N	C	
FAST/SLOW/ANALOGUE CHANNEL/FLUORESCENCE	AD	7 N		C	
NON-INVERTING/INVERTING CCT/TESTER/POTENTIOMETER	A	1 N	N	C	
REGULATION/FEEDBACK/AORTIC OCCLUDER/INFUSION PUMP	A	6 N	N	C	AK
RELAYS/MAGNET/PROTON/SIEVE STRIPPER	DA	4 N		C	
NOSE/MOUTH OPENINGS/VACUUM/AIR/TRACHEA	A	9 N		C	E/42
OA./RC. DIFFERENTIATOR/MILLER INTEGRATOR/MICRO	A	6 N	N	C	
SAMPLE PULSES/DVM./TRANSIENT HOT-WIRE/10KHZ CLOCK	D	4 N	N	C	
3-WIRE KELVIN MEASUREMENTS/APPLE II/DRV11-J	AD	5 N	Y	C	
LED. DPM./NO RFI./HEATER	A	2 N	N	C	
SOLENOID/OA./DUAL D LATCH/BINARY RIPPLE COUNTERS	DA	2 N	N		
PREST CONTROLS FOR THRESHOLD PRESSURE & TIME DELAY	DA	2 N	N	C	61
LUMINANCE/VISION RESEARCH/OA.S/MAXWELLIAN-VIEW	A	9 N	N	C	
MICROPOWER/ON RESISTANCE/CELL VOLTAGE/NICD./LOAD	A	1 N	N	C	
ACTIVE FILTER/MIC AMP./AUDIO POWER AMP./COMPARATOR	A	5 Y	N	C	
SSAVI-ENCODED/VERTICAL BLANKING/VIDEO	AD	3 N		C	
TRANSISTORIZED/REACTANCE/IMPEDANCE/FREQUENCY	A	5 N	N	C	
		1			
STRANGE ATTRACTORS/DIODES/DIGITALLY PROGRAMMABLE	AD	9 N	N	C	E
CMOS. INVERTER/RECEIVER/PHOTODIODE/PLL./LED.	AD	8 N	N	C	
DELAY TIME/VELOCITY/RING/TTL. IC'S/IRED./LED./LOOP	D	3 N	N	C	
CODE/7-SEGMENT		1		C	
ANTENNA/TRANSMISSION-LINE	A	1 N			
FET./RISE TIME MEASURING/DOUBLE-DELAY-LINE AMP.	A	2 N	N	C	61
PIEZOELECTRIC POLYMER/ULTRASONIC FIELDS	A	9 N	N	C	
RESISTORS IN SERIES WITH THE EMITTERS OF/DRIVERS	A	1 N	N	C	
525-LINE NTSC. OUTPUT/FULL INTERLACE/2.520MHZ XTAL	A	6 N	N	C	
STABILISER/OVERLOAD/TRANSISTORS/SERIES-PASS/POWER	A	1 N	N	C	
DELAY LINE/COMBATING QRM/3.5 TO 29.7MHZ	A	5 N			
RESISTANCE BRIDGE/LDR./OA.	A	2 N	N	C	16
TIMING/SOUND WAVES/LOGIC & CONTROL/IBM PC./ECHO	DA	9 N	Y		
H-CONFIGURATION/TURN-ON THUMPS/CLICK SUPPRESSOR	A	1 N	N	C	
SWITCH/IEEE 488 INTERFACE/IBM XT PC./ELECTRODES	D	6 N	N	C	39
SERIAL/2-WIRE BUS/SYMMETRICAL/80KHZ/OPEN COLLECTOR	AD	2 N	N	C	
SW./LONG WAVE BANDS/MEDIUM/BC.	A	1 N			
SOUND/DOORKNOB/TRIGGER/SCR./HOME/OFFICE	A	4 N		C	42
COMPLEX SOUND GENERATOR/LOCK		6			
ANALOG/2716S/8755AS/INTEL/TTL./PS.	AD	2 N	N	C	
TRANSMITTING ANTENNAS/CAPACITOR/COIL/WINDING	A	3 N	N	C	
DATA COMMUNICATION/SWITCH/TR./DCE/DTE	AD	3 N	N	C	
MEASUREMENTS/BIOLOGICAL & MICROWAVE SYSTEMS/EMI.	A	5 N	N	C	
RECEIVING/ENERGY/BATTERY-POWERED/RESONANCE/LC.	A	2 N	N	C	
PLATE-CURRENT READINGS/METER/BATTERY SETS/QUALITY	A	3 N	N	C	
LED. LAMPS/REACTION HEATS/SOLUTION, MIXING/MOD.	AD	3 N	N		

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RS-232-C/UNIVERSAL TU./UTU	D	4	N		
2 LED.S/HV./AUTOMOBILE/ELECTRICAL SYSTEM/ENERGIZE	A	1	N	N	C
INTERFACE/COLPITT'S OSCILLATOR/PROXIMITY DETECTOR	AD	1	N	N	
VCO.		1			
SELECTABLE CHARGE RATE		1			
3A TRANSFORMERS		1			
INTERVALS/RC. PRODUCT	AD	1			C
HEADSET/MICROPHONE AMP.	A	6			C 42
ANTENNA SWITCH/SWR. SET/INDUCTOR	A	5			
TRIAC/TIMING/UJT./RELAXATION OSCILLATOR/TRIGGER	A	2	N	N	C
TRANSISTOR DIFFERENTIAL PAIR/AMPLITUDE DETECTOR	A	9	N	N	C
POTENTIOMETRIC MEASURING CCT/TITRANT GENERATION	AD	3	N	N	C 13
CURRENT SENSE RESISTOR/PIECEWISE-LINEAR/100V/1KHZ	A	7	N	N	C
IMPEDANCE MATCHING CCT/ACOUSTO-OPTIC MODULATORS	A	3	N	N	C
COAXIAL RELAYS/200FT/CABLE/VSWR. LOADS/IMPEDANCE	A	4	N	N	E/54
PULSE/CHARACTERIZATION/ENERGY/SELF-TERMINATING	A	2	N	N	C
SMPS./FAILURE/LV. CUTOFF CCT/OPTICAL COUPLING	AD	5	N	N	C E
3V BATTERY PACK/PHOTO CELLS/LIGHT INTENSITY	A	2	N	N	C
SPECTROPHOTOMETRIC/COUNTER/MONOSTABLE/COMPARATCDA		2	N	N	C
THERMISTOR/UNIUNCTION/LATCHING SCR./COIL	A	5	N		
500MA TO 1.5A LOAD/3 TO 15V/PASS TRANSISTOR	A	4	N	N	
AERIAL/CLOVER LEAVES/RADIATION/GAIN/MASTHEAD TUNER	A	4	N	N	C
MICROWAVES/10GHZ FM./WAVEGUIDE CAVITY	A	5	N		
SAFETY/HOUSEBOAT/CRUISER/LED. FLASHER	A	5	Y		
VARACTOR/GUNN/IF./2M/70TH HARMONIC/HORN ANTENNA	A	2	N	N	C
SPICE/RIAA PREAMP./PC./CCT ELEMENTS/NODES/FILE	A	4	N	Y	
DIODE/VOLTAGE/DOES NOT NEED BUFFERING	A	2	N		C
DG508/LATCH/OFFSET/IBM PC.-COMPATIBLE/DATA	AD	5	N	Y	C 42
145.960 TO 145.975MHZ/LOW POWER/VARACTOR TUNING	A	2	N	N	69
DC. MOTOR/SUMMING JUNCTION/ARMATURE/SPEED	A	3	N		C E
BAXANDALL TONE CONTROL/AUDIO/PUSH-PULL/RECEIVER	A	5	N	N	
ADC./DAC./INTEL SDK-85/SAMPLE TURRET/MOTOR	DA	6	N	N	C
TU/TTY/MOTOR CONTROL RELAY/RADIO	A	3			
SMALL-SIGNAL DIODES/TRANSISTORS	A	2	N		
AMPLITUDE DETECTOR/LEVEL SENSING/GAIN	A	8	N		C
TRANSCEIVER/RELAY UNIT/DECODER	DA	5			
PROBE/DIODES/DECOUPLE/TRANSMITTER/PREAMP./RF.	A	3	N	N	C
PATIENT ELECTRODES/ENT/CONSTANT/LOAD RESISTANCE	A	3	N	N	
LIGHT BEAM/COUPLED-CAVITY/QUADRATURE/BRAGG CELL	A	3	N	N	C
PROPAGATION/SURFACE WAVES/CRYSTAL/VLF./LF.	A	6	N		C
ROTARY SWITCH/1000W/HF. BANDS	A	3			
1 RESISTOR/1 CAPACITOR/FED BACK/LINEAR/COLLECTOR	A	2	N	N	C
DRAIN/GATE/SOURCE/GLOW/IGFET./ZENER DIODE/<\$5	A	4	N	N	
SNR.S/AUDIO/REDUCED DISTORTION & FADING/LIMITER	AD	3	N	N	C
OPTICAL ISOLATOR/MOSFET./PHASE-CONTROLLED/TRIAC	AD	9	Y	N	
COMMUNICATION/ASCII./HEXADECIMAL/SERIAL	AD	9	N		C
LED./CHARGING CURRENT IS INDUCTIVELY COUPLED	A	8	Y	N	C 45
MANCHESTER/COAXIAL CABLE/PROTOCOL	D	6	N		C
OA./WITHDRAWING/TIP/SAMPLE/COMPUTER/INTEGRATOR	AD	5	N	N	C

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SNIFFER/COILS/ANTENNA/200UA METER/FREQUENCY/CHOKE	A	4	N	N	C	
BOLTZMANN'S CONSTANT/NATIONAL SEMICONDUCTOR	A	1	N	N		
VOLTAGE-CONTROLLED/GAIN/INPUT ERRORS/BW./CMRR.	A	9	N	N	C	
DIFFERENTIATION/BASELINE/GATING/DELAY	A	1	N			
TRANSIENTS/CURRENT LIMIT/JFET. OA./MINIMUM LOAD	A	1	N	N		
ISOTHERMAL BLOCK/UP./TEMPERATURE/HEAT CAPACITY	AD	9	N	N	C	25
PLL./VCO./2,7 ENDEC/ESDI/ECC/DATA SEPARATOR CHIP	DA	2	N	N	C	
INPUT & OUTPUT CCTS/LOW VHF./RECEIVERS/IF./RF./LO.	A	4	N	N	C	
TOF./DELAY/ROTOR ACCELERATOR/PARTICLES	D	5	N		C	
TELEPHONE NUMBER AUTODIALER/24HR CLOCK/PLL.	AD	3	N	N		
MARS & CAP FREQUENCIES/LCD./ROM./RAM./CPU./CMOS.	AD	3	N	N		
CMOS./LEVEL-SENSOR ELECTRODE/FF./ALLOPHONE	AD	1	N	N	C	
DTSS PAGING/DTMF./NOAA WEATHER RADIO/5W OUTPUT	AD	4	N	N		
MARINE/AIRCRAFT/ANTENNA/DPDT. SWITCH/LO./RIGS	A	4	Y	N	C	
LIGHT BEAM DEFLECTION MEASUREMENT/SCHLIEREN OPTICS	A	9	N	N	C	
ION BEAMS/GAS PHASE/PLATINUM NEEDLE/0-10V DC.	A	9	N	N	C	
SPEAKER/EPROM./FILTERING/PCM./BINARY	DA	2	N		C	
CHARM PHOTOPRODUCTION/WINSTON CONE-PHOTOTUBE	A	9	N	N	C	
TRANSIMPEDANCE STAGE/CAPACITOR/UNITY-GAIN BUFFER	A	2	N	N	C	
AC.S/VOLTAGES/BALANCE CURRENT/SHUNT FEEDBACK	A	1	N	N	C	
TRANSDUCER/FILTER/DIODE & GATE/LAMP	A	1	N		C	
SLEW RATE/TRANSISTOR CURRENT MIRRORS/DAC./OA.	A	1	N	N	C	
DAS./DISCRIMINATOR/TFR TOKAMAK/NE 213 SCINTILLATOR	A	9	N	N	C	61
DISTORTION OR SPECTRUM ANALYZER/THD./FOLLOWER	A	7	N	N	C	
BATTERY-POWERED/LOWER DROPOUT VOLTAGES	AD	4	N		C	
PICTURES/STEREO IMAGE PAIRS/STEREOPTICON/VIEWER	AD	6	N	Y	C	
PHASE ANGLE/~110DEG/SOLDERING IRON/BULB/REMOTE	A	2	N	N		
MEASUREMENT/STANFORD LINEAR COLLIDER (SLC)/TPC.	AD	6	N	N	C	
ENVELOPE/HIGH SPEED/REAL TIME/PROGRAMMABLE TIMER	DA	7	N	N	C	
DATA BUS'S/MAGNETIC-BUBBLE/STAND-BY MODE	AD	4	N		C	
DIFFERENTIAL/IMPROVES CURRENT/OUTPUT VOLTAGE RANGE	A	3	N	N	C	E
LO./SAW. RESONATORS/INTERFERENCE/QUIETER	A	5	N		C	
VERSATILE/PASSIVE COMPONENTS	A	1				
PROFESSIONAL PERFORMANCE		4			C	
5W/INTO 80HM/VARIABLE AMPLITUDE/TEST BENCH	A	8	N	N		
IF./PHASE DETECTOR/FREQUENCY SHIFTER/QAM./QAD/SSB.	A	6	N	N		E
4-QUADRANT ANALOG MULTIPLIER/BUFFER/8038	A	4	N		C	
SRC/SERIES-RESONANT CONVERTER/PHASE-MODULATION	A	9	N	N	C	
PASS TRANSISTOR/CLAMP VOLTAGE/ZENER DIODE/10J	A	1	N	N	C	
QRO/50W PEP/BIASING NETWORK	A	6				
PIEZO ALERT/WETNESS/FLOOR/SCR./LOUD	A	2	N		C	
2W/TO 10 TO 15W/420 TO 480MHZ/RF. POWER TRANSISTOR	A	5	Y	N	C	
CROSSLINKERS/TIMING/DECODING/MEMORY/BUS INTERFACE	D	5	N	N	C	
SCAN COMMAND/OPTICAL SYSTEM/INTERFACE/READ/ARRAY	DA	4	N	N	C	
INDICATOR/LIGHTS/OFF/ON BUTTON/AC. ADAPTER/GEAR	A	5	Y	N		
MIXERS/2-STAGE AMP. CHAIN/TRANSMIT/POWER	A	1	N	N		
FREE-RUNNING/IMPATT DIODE & GUNN MICROWAVE	A	3	N	N	C	
UP CONVERSION/NOTCH	AD	5				
20 TO 45MHZ/VARIABLE-FREQUENCY RESONATOR/RRC	A	9	N	N	C	

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TELEDYNE/NONINVERTING/TRANSMITTER/RF.	D	6 N	C	
HALF/PRICE/COMMERCIAL UNIT		8	C	
NETWORK INTERFACE/TOUCH-TONE/VOICE OPERATED (VOX)	AD	5 Y	N C	
MESSAGES/AGC./5TH-ORDER TCHEBYSHEV FILTER/PREAMP.	AD	2 N	N C	
SHORT-TIME/COMPARATOR/POWER/6A PEAK	A	1 N	C	
DYNAMIC RANGE/ACTIVE MIXER		4		
AUDIO/SECURITY CODE/BUS/COMPUTER/LED.S/DIP. SWITCH	DA	4 N	Y	
RADIO WAVE PROPAGATION/SENSOR/MUX./PSYCHROMETER	A	5 N	N C	
BIAS VOLTAGE/INCREASED TO +-35V/+40V/REGULATORS	A	3 N	N	
RF./VSWR./BASEBAND INTRINSIC NOISE RATIO (BINR)	A	7 N	N C	
DENSITOMETER/FM./REACTANCE MODULATOR CCT/HF. CHOKE	A	1 N	N	44
5 INTERRUPT LEVELS/MUX.ED BUS/MLSI./NMC6514/FASTER	D	7 N	N C	
IMPROVE S-N/PIF PREAMP./AGC./VIDEO/CRT.	A	3 N		
IMPEDANCE MATCHING/WIDE- OR NARROW-BAND/4GHZ	A	3 Y	N C	
TV. RECEIVER/PICTURE TUBE/HV. PULSE/10KV DIODE	A	5 N	N C	
TABLE/PORTABLE/AUTOMOBILE/CLOCKS	A	7	C	
RF. FILTER/AF. AMP/FET./TRIODE-TUBE/BIPOLAR/ENERGY	A	3 N	N	4
GATE/DRAIN/EXCESSIVE CURRENT OR POWER DISSIPATION	A	2 N	N	E
BRIDGE SWITCHING/GEOPHYSICAL EXPLORATION/20KHZ	A	8 N	N	
HIGH-POWER/START-UP LOOP/BATTERY/EFFICIENCY	A	2 N	N C	
OUTPUTS/INDEPENDENTLY OR COMBINED	A	1	C	
400HZ-10KHZ/10HZ-1000HZ/100HZ/BPF/LPF./ELLIPTIC	AD	2 N	N C	
30UA DURING LOW-BATTERY/VOLTAGE/TRIP POINT	A	1 N	N C	
DURING 80US TEST/LOAD CURRENT/COMPARATOR/LIMIT	AD	2 N	N C	
SENSOR IDENTIFIER/SUM AMP./COMPARATOR/CENTERLINES	AD	9 N	N C	
AGC. AMP./OA./SENSOR/SWITCHED-CAPACITOR/MODELS	AD	9 N	N C	57
CESIUM CLOCKS/UP./CALENDAR/MICROCOMPUTER/PLL.	DA	4 N	N C	
IEEE-488/RESOLUTION OF 100NV/DMM./MICROCOMPUTER	AD	7 N	N C	E
CHOPPER-BUNCHER/TOF./BEAM PROFILE MONITORS (BPM)	A	4 N	N C	12
ECL./TDC./PULSE HEIGHT/WIDTH/ARRIVAL TIME/RF. AMP.	DA	4 N	N C	5/39
RF. & MICROWAVE CCTS/SCEPTRE/STABILITY/RC./RL	A	4 N	N C	
MULTIPLIER/CURRENT/VOLTAGE/MOBILITY AIDS/BLIND	AD	9 N	N C	
TROUBLESHOOTING/MONITORING/HOST COMPUTER/+5V	AD	8 N	N C	
INTERFACE/ASCII. KEYBOARD/COMMAND/SYNCHRONIZATION	DA	7 N	N C	
FT. ICR./ADDER/SINE TABLE ROM./LPF./CHEMISTRY	DA	4 N	N C	
SUPPRESS/HF.-OSCILLATION/EMULATORS/CRYSTAL/SPEED	DA	2 N	N C	
IFT'S (IF. TRANSFORMERS)/AFC./RF./SUPERHETERODYNE	AD	4 N	N	
COMPUTER/TIMING/SOFTWARE/BURN/3-STATE SWITCHES	D	3 N	Y	
PRIORITIZED INTERRUPTS/REAL-TIME/CLOCKS/SERIAL IO.	D	9 N	Y C	
TUNED CCT/PERMEABILITY-TUNED COILS/STABILITY	A	2 N	N	
CONTACT/SWITCHING NOISE	DA	1		
IEEE 488 BUS/TEMPERATURE/PREPROCESSOR	D	4 N	C	
EVENT-COUNTER/TIMER		3		
SIMPLE/ISOLATION/PS./EXCELLENT FREQUENCY RESPONSE	A	4 N	N C	
HIGH-POWER/NOTES/LCD./EPROM./KEYPAD ENCODER/DEMUX.	DA	6 Y	N C	
OA./INTEGRATION/RESET/DISCHARGES & CHARGES	AD	2 N	N C	
PLL.	DA	4		
CMOS. UP./CPU./EEPROM./EPROM./COMPUTER/PTT./AUDIO	DA	2 N	N C	
OSCILLATOR/DIVIDER/BINARY COUNTERS	D	1 N	C	

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QUAD BILATERAL SWITCH/DECADE COUNTER/TONE DECODER	AD	3 N	N	C	
RACE CARS/DECODER DRIVER/SCHMITT TRIGGER	DA	7 Y		C	
CURRENT/INTENSITY/COLOR SENSORS/WATER/MOISTURE	A	7 N	N	C	
RS FF.		1			
QUAD SCHMITT NAND GATE/RS FF.	D	1 N			
GUNN-DIODE LO.S		4		C	
LINE CLOCK/FIELD CLOCK/MODULATOR	D	2			
SUPERHETERODYNE/80, 40 & 10M/80M PRESELECTOR/OA.S	A	9 N	N		
X10 LINEAR AMP.		5			
DOT & DASH/CW./4KX1/4096 BITS/IAMBIC/MESSAGE	D	7 N	N		
FASTBUS/HIGH DATA THROUGHPUT/MUX./DECODER/CONTROL	D	3 N	N	C	
TRIGGER PULSES/ZERO-CROSSINGS/BUFFER TRANSISTOR	AD	1 N	N	C	
GOOD SNR./SPECTROMETERS/5-60MHZ PULSED FT. NMR.	A	2 N	N	C	
SWITCH/CW./CODE SPEED/VARIABLE/"DOT"/"DAH" (DASH)	D	2 Y	N		
TO FURTHER SIMPLIFY THE SWITCH/EARLIER/SUBMISSION	DA	1 N	N	C	
16-BIT CPU./ENHANCED 8088/20 SUPPORT IC'S	D	5 N			
LED./DECADE/RIPPLE/DIVIDE-BY-N/OCTAL/SYNCHRONOUS	D	6 N	N	C	
BINARY/SETTLING/DELAY TIMES/SERIAL FLOATING FET.S	D	5 N	N	C	
SPLIT-RAIL/DC.-TO-DC.-CONVERTER/GATES	DA	1 N	N		
TIMER/CMOS./LED.	DA	3 N		C	
RAM./BEIJING SPECTROMETER/TRACK FINDING LOGIC	D	6 N	N	C	
MUX.ED ADDRESS-DATA BUS/LOCAL/5 TTL.	D	6 N		C	
SURGES/TRANSIENT/PREVENT DAMAGE/BARRIER/IA./ADC.	AD	5 N	N	C	
OSCILLATOR/40-65KHZ/REGULATION/BETTER THAN 5%	AD	1 N	N	C	
LESS EXPENSIVE/SIMPLER/GROUND-REFERENCED	A	1 N		C	
FERA/BISMUTH GERMANATE (BGO) DETECTORS/START/STOP	DA	5 N	N	C	
DIVIDERS/60HZ LINE FREQUENCY/CLOCKING/COUNTER	AD	2 N	N	C	E
VFC./PHRENIC NEUROGRAM PROCESSOR/RAMP/GENERATOR	DA	8 N	N	C	
TIMEKEEPING/MINUTE SET & HOUR SET AT 2HZ RATE	AD	1 N	N	C	E
TL/BEAM/LIGHT/BEER'S LAW ABSORPTION/APERTURE	A	4 N	N	C	
DTMF. TONE DECODER/8-BIT IO. PORT/DISPLAY	DA	2 N			
ADJUSTABLE/1000V FET./SERIES-PASS/RFI. RESISTANT	A	5 N	N		
DIFFERENCE AMP./PS./1.5KW HEATER/SSR./THERMOSTAT	A	6 N	N	C	29
PROTECTED/POWER FAILURES/IA./OA.	A	3 N	N	C	
AMORPHOUS SEMICONDUCTORS/LOCK-IN AMP./IEEE-488	D	4 N	N	C	
KEYBOARD/MEMORY/REFRESHING/ROM./DISKS	DA	9 N		C	
REGULATOR/DAMPING/GAIN/SELENIUM RECTIFIER/1958	A	1 N	N		
1957/PRECISION ELECTRONICS/TAPE/TUNER/RECORDER	A	1 N	N		36
1958/PRECISION ELECTRONICS, INC./TAPE TUNER	A	1 N	N		36
BAL-UNBAL SWITCH/HI-Z JUMPER/600OHM/TRANSFORMER	A	1 N	N		36
DIRECTION OF ROTATION/STEP-RATE/MICROCOMPUTER	DA	5 N	N	C	
AUDIO/DYNACO/LINE STAGE/A-1033/<\$125/TUBE/POOGE	A	5 Y	N		
8080A/PDA/DIRECT MEMORY ACCESS	D	9		C	42
COIL/RFC/RF./FEEDBACK/HOT PENTODE/TUNING/PULLED	A	1 N	N	C	
SPECTRA/HIGH-PRESSURE CELL/RF./SAMPLE	A	5 N		C	
IEEE STD 488/BUS/TRIGGER/CLEAR/HANDSHAKE	D	8 N			
HANDSHAKE/LOCAL/REMOTE/ADDRESSED/ASCII./SWITCHES	DA	9 N	Y		42
REAL-TIME DEBUGGING/PROGRAM/TEST/EPROM.S	D	2 N	Y		
PHOTOMULTIPLIER (PM)/PSD/SINGLE PHOTOELECTRON	AD	7 N	N	C	2

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COUNTERS/PROGRAM VERY PRECISE PULSE PARAMETERS	D	2 N	N	C	
OA. DIFFERENTIATOR CCT/UP TO 5MM/LINEARITY OF 0.2%	AD	1 N	N	C	95
ADC./220NS/STOP/START/ANODE/HV. SUPPLY/DETECTORS	AD	5 N	N	C	
COUNTS DOWN/UP. MUST INITIALIZE/ALE/READ/READY	D	1 N	N	C	
TTL./SYNCHRONOUS/COUNTER/FF.S	D	1 N		C	
PHOTOTRANSISTOR/LIGHT/STROBE/SAMPLE	A	2 N		C	
DBM.S/PHASE SHIFTING	AD	6 N		C	
CLOCK PULSE/MPU.S/ESR./SMT./COMPUTER/COMMUNICATION	D	4 N	N		57
INTERFACE GLUE CCTS/DRAM. MUX.ING/REFRESH/IBM PC.	D	9 N	N	C	
LOW-COST/APPLE II+ OR APPLE IIE/PMT./DAS.S/BCD.	DA	3 N	N	C	61
PHOTOAMMETER/3-30MHZ/CURRENT/FIELD STRENGTH	A	3 N	N	C	
FEEDBACK/RF./LEVELING/POWER/LC./OSCILLATOR TANK	A	1 N	N	C	
SPEAKER/CAPACITOR/LEAD LENGTHS/SENSITIVE	A	2 N		C	
STEREO		6			
CURRENT MIRROR/EMITTER-FOLLOWER/DETECTION/ND:YAG	AD	8 N	N	C	25
LIGHT/TIME PULSE/PHYSICS/PENDULUM/PC./MOTION/MASS	DA	5 N	N		8
PULSE WIDTH VARIATION		2		C	
ELECTROSTATIC SHIELD/LIGHT/NEUTRAL DENSITY FILTERS	A	2 N	N	C	
HORSESHOE "CRAB" LIMULUS POLYPHEMUS/CARDIAC/TAPE	A	4 N	N		E
DOWN TO 0V/VOLTMETER & AMMETER/117V AC./OA./LED.	A	5 N	N		
VARIABLE CAPACITANCE DIODES/MULTIPLIERS/CLAPP	AD	1 N	N	C	
MUX./50MHZ/FAIRCHILD'S FAST/DIVISORS/DATA/PARALLEL	D	1 N	N	C	
ADC./8-BIT REGISTER/MAGNITUDE/UP./DATA-ACQUISITION	DA	2 N	N	C	6/27
SEMICONDUCTOR DISKS/DRIVES/SOFTWARE/CPU.	DA	8 Y	N	C	
CMOS./LS-TTL./MEMORY/ALU./ADDITION LOGIC/COUNTS	D	5 N	Y	C	
MAMMALIAN/HODGKIN-HUXLEY MEMBRANE EQUATIONS	DA	8 N	N	C	
SWITCHING/PCB./GROUND PLANE/DECOUPLING CAPACITOR	D	1 N	N		
AC.-COUPLED/PHOTO GALVANIC/SOLAR CELL/PN JUNCTIONS	A	7 N	N	C	
MOSFET./SOLENOID COIL/1-SHOT/NEEDLE VALVE	AD	4 N		C	
INTERFEROMETER/AUTOCORRELATOR/SPEAKER	A	2 N		C	
ACCURACY/1DEG C/200-1000DEG C RANGE	A	4 N	N	C	
NODE/MODELS/FINITE-STATE MACHINES/DATA STATEMENTS	D	4 N	Y	C	
LIQUID SAMPLE/WARM AIR BLOWING/CIRCULATION	A	2 N	N	C	
REGISTER/OSCILLOSCOPE/DELAYED-SWEEP	D	1 N		C	
CPU./CODE/ADAPTERS/INTERFACE/HOST/PRINTER	DA	4 Y		C	
10/PROGRAMMABLE TONES/REMOTE SIGNALLING	A	2 N			
ADVANCED LOW-POWER SCHOTTKY/PLL.	D	2 N		C	
		1		C	
LOGIC/REUSABLE/RUN/SINGLE STEP/RESET	DA	5 Y		C	
MONOSTABLE MULTIVIBRATOR/PULSE AMPLITUDES/LOGIC	AD	2 N	N	C	E
FF./NPN TRANSISTORS/DIGITAL/INEXPENSIVE	DA	2 N	N	C	
FUSE-LINK LOGIC/BIPOLAR PLA.S/MICROCOMPUTER	DA	4 N	N	C	
TTL./READ & WRITE/SECTORS/DATA/STEPPING/TRACK	D	9 N	Y	C	
DIGITAL/FREELY RUNNING, COUNTED, & SINGLE PULSE	D	2 N	N	C	
LCV/PHOTOCELL/POLARIZING MICROSCOPE/SOLID-LIQUID	A	3 N	N	C	
TO PROTECT/PREVENT OVERLOADING/DATA/CONTROL LINES	D	4 Y	N		
EPROM./PC. PRINTER PORT/TTL./REGULATORS/DUMB	DA	8 N	Y		
BCD. COUNTER/COMPARATOR/SH. AMP.	DA	6 N	N	C	
ICU (INDUSTRIAL CONTROL UNIT)/ROM./ENCODER/EPROM.S	DA	9 N	Y	C	

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LEVEL TRANSLATOR/LASER-DOPPLER/LDV/RAMAN	D	8 N	C	
CALIBRATED/PHOTORESISTOR LIGHT/EXPOSURE	A	4 Y	N	
UP. DATA BUS/4-BIT LATCHES/SLOW PERIPHERALS/MEMORY	D	1 N	N C	
MINIMIZE HARMONIC DISTORTION/DIGITAL/VFC.	A	2 N	N C	
LOGIC/INTEGER UNIT (IU)/7C601/SPARC/MEMORY/DELAYS	D	3 N	N C	
PC./GLIDER/SENSED/OPTICAL MARKS/REYNOLDS NUMBERS	DA	6 N	N C	
PS.-AMP./IR./TIME-RESOLVED X-RAY SCATTERING	AD	6 N	N C	E
		2		
FIBERS/LVDT./FRUIT/BERRY/MICROCOMPUTER/ADC.	A	6 N	N C	
ASTABLE MULTIVIBRATOR/MONOPULSE GENERATOR/PERIOD	D	2 N	N C	
TIME/NOISE BURSTS/LIGHT SCATTERING/SPECTROSCOPY	DA	7 N	N C	
HV. REGULATOR/PHOTOCONDUCTIVE/GLOW LAMP	A	2 N	C	
OSCILLATOR/TIMER/LAMP/12V/FAKE	A	2 Y	C	
PC. PARALLEL PORT/LEAKY TAP/CHAOS/FLOW/DRIP RATES	AD	9 N	Y	
LDR./HARTLEY AUDIO OSCILLATOR/SCR./ENTRY-DELAY CCT	AD	4 N	N C	
VACUUM TUBES/ELECTROLYTIC/PENTODE-TRIODE/PS.	A	9 N	N	42
8-BIT ADC./RTC./SCALER/8085 CPU./COSINE	AD	9 N	Y C	
DAC./OA.S/LED./VCO./INTEGRATOR/PZ CCT/STABILIZER	AD	6 N	N C	12
FF./1KHZ OSCILLATOR/TIMER/SPEAKER/CMOS.	DA	1 N	N	
FILTERS/OA./\$5.50/MUSIC-SYNTHESIZER/SOUNDS/REED	A	1 N	N C	
PROGRAM COUNTER/REGISTER/ADDRESS/TAPE/COMPUTING	D	9 N	Y C	
DOWN-COUNTER/SHIFT REGISTER/DIODE MATRIX/CW./CODE	D	3 N	N C	
GSR/GALVANIC SKIN RESPONSE/TENSENESS/RESISTANCE	AD	4 N	Y C	
PRESERVE THE INPUT-PULSE SPACING/MULTIVIBRATORS	DA	1 N	N C	
		2		
STANDARD PULSE-DIAL TELEPHONES/RELAY	DA	5 Y	C	
DIL. SWITCHES/ZERO VOLTAGE SWITCHING	D	1		E
WAVEFORM GENERATOR/TONE GENERATOR		3		
"THUMPS"/SPEAKER/VOLUME/TAPE DECK/CHARACTERS/CLICK	A	3 Y	N C	
LOGIC/CMOS. OSCILLATOR/ALARM/SOUNDS/PZT./DIVIDER	D	2 Y	N	57
AUDIO/TOOTH STRIKE ENVELOPE/SYLLABLE/TRAPEZOIDAL	AD	2 N	N	39
THRESHOLD/BOUNDARY ACCURACY/WITHIN +-0.002%	A	1 N	N C	
PHOTOTANSISTOR/SCR./HIGH-SPEED PHOTOGRAPHY/BB	A	3 N	N	
DECADE COUNTER		6		
CHANGES VERY SLOWLY/SH./TIMER/INVERTER	AD	6 N	N C	
HOOD/SENSOR/TRANSDUCER/AIR/EXERCISE/RESPIRATION	AD	7 N	N C	
ATTACK/DECAY/TRIANGLE/RAMP/PULSE TRAIN	A	5 N	C	
TRACKING FILTER/AUDIO CONVERTER		2		
6S/THERMOMETER/CONSTANT-CURRENT	AD	5 Y	C	42
TIME CONSTANT WAS 100S/TEMPERATURE/SELF-HEATING	A	3 N	N C	
4TH-ORDER SWITCHED-CAPACITOR/SH. AMP.	DA	8 N	N	64
DAS./METALS/CYLINDRICAL MIRROR ANALYZER/COMPUTER	AD	7 N	N C	
PVC PIPE/LAMP/BEAM/LENS/ROTATING CIRCULAR PLATE	A	3 N	N	
INTERFACE/AUDIO/KEYING TRANSISTOR/SPIKE/ROM./VOICE	A	2 N	N C	
IR./SI:AS & SI:BI DETECTORS/NEP./DUAL JFET./BLIP	A	3 N	N C	
OSCILLATOR-TIMER/INVERTER/SCR./POWER TRANSISTOR	AD	4 N	N C	
SCA./TTL. LOGIC NAND GATES/FLYBACK PULSE/METER CCT	AD	4 N	N C	
COUNTER/COMPARATORS/TRIGGER/MICROWAVE	D	9 N	C	
AUDIO-VISUAL PRESENTATIONS/LOW-COST	AD	3 N		

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20HZ TO 2KHZ/ELIMINATE EARTH LOOPS/POWER AMP.	A	2	N	N	
LV. PS./MWPC./TARGET/NUCLEON-NUCLEON/CERN./BEAM	A	9	N	N	C 39/61
INTELLIGENT/SINGLE-COMPONENT MICROCOMPUTER/UP.	DA	6	Y	Y	C
5V TO ~0V/IO./IBM PC./EXPERIMENTS/INTERFACING	AD	9	N	Y	
~70KHZ OF COVERAGE ON 40M/80M/<\$20/FUN-MITTER/FET.	A	4	Y	N	C
PL/EXPERIMENTING/BASIC PROGRAM	D	6			
HYSTERESIS/LED. DISPLAY/TEMPERATURE/CRYSTAL	AD	4	Y	N	
PREAMPLIFICATION/MC68020/WIC/WARM IRON CALORIMETER	AD	8	N	N	C
DATA TRANSMISSION OVER RADIO/1200 BAUD	D	1	N		C
DUAL DMA. CHANNELS/MMU COUNTERS/SERIAL IO./BUSES	D	5	N	N	C
QUARTZ CRYSTAL MICROBALANCE (QCM)/AES/IEEE 488	DA	6	N	N	C 2/39
FREQUENCY RESPONSE/ADC./DAC./DSP.S/ALGORITHMS/PIA.	AD	9	N	N	C
HP64000/INTERFACE/RS232 INTERFACE/ADC./DAC./LCD.	D	8	N	N	C
KEYBOARD/WEIGHT/CONSUMPTION/DATA ACQUISITION/FOOD	DA	8	N	N	C
UART./OPTICAL ISOLATORS/ADC./MUX./AMP./HEART/QRS	AD	9	N	N	C
'CENTRONICS' PARALLEL/BOOTUP/FORMAT/CRT.	D	2	N		
64K BYTES/8 4164-TYPE DRAM.S/CODE/COMPUTER	D	7	Y	Y	
ADAPTIVE CLOCKING/STATE MACHINE/80NS/100NS/120NS	D	3	N	N	C
PROCESSOR/SBC.S/RAM.	D	2	N		C
NEUTRON GENERATOR/BICRON BC 501/ELECTRONS/DETECTOFA	A	5	N	N	C E
HEAT PUMP/REGULATION/THERMOSTATED/MANUAL/SENSOR	AD	4	N	N	25
PMT./SIGNAL/BOXCAR AVERAGER/XENON FLASHLAMP/AMP.	AD	8	N	N	C 39
		2			C
7TH ORDER CAUER-CHEBYSHEV/HFP/HF.S/BW.	A	7	N	N	8
GI NETWORK/RIORDAN OA./NEGATIVE RESISTANCE/FDNR	A	2	N	N	C
LC. RESONANT CCT/TANK CCT/~25MHZ/HIGH-T/C FILMS	AD	3	N	N	C
IF./RF./SID (SLEW INDUCED DISTORTION)/DE-EMPHASIS	A	4	N	N	
SIMPLE & LOW-COST/MEMORY/TTL.-CMOS./6-BIT/DETECTOR	DA	5	N	N	C
QUAD OA./DETECT A TRANSMISSION/PLESSEY/LO./RAMP	A	2	N	N	C
CUT-OFF FREQUENCY OF 20HZ/DETECTORS/DOSEMETERS	AD	9	N	N	C
CPU./FIRMWARE/UV. LIGHT/ERASED	DA	9	N		C
WIDE BW./UNITY-GAIN FOLLOWERS	A	6			C
HAMS/TEST EQUIPMENT/MEASUREMENTS/POWER/BOOSTING	A	3	N	N	
2 2ND-ORDER SECTIONS/DELAY EQUALISATION/RESPONSE	AD	4	N	N	C 60
CLINICAL/MULTICHANNEL/CEREBRAL PALSYP/CHILD/NAND	AD	2	N	N	C
SPECKLE PATTERN/FRINGES/OA./FF./COUNTER DRIVER	AD	4	N	N	C
15UA DURING STANDBY/TRIAC/TUBE/PUSH-PULL OUTPUT	A	1	N	N	C
TRANSCONDUCTANCE/FEEDBACK NETWORK/FEP/COMPENSAT	A	9	N	N	C 61
RECTANGULAR/PULSES/AMMETER/OSCILLOSCOPE	A	3	N		C
DEMODULATOR/MODULATOR/CCITT./FSK.	AD	1			E
PRECISION MONOLITHICS/TTL. COMPATIBLE/1.4MHZ/1HZ	AD	1	N	N	
LOW-PASS/SAFE MONITORING/SENSING/LV. BATTERY	A	3	N	N	C
ODOMETER/TAXIMETER/ITT/PULSES/PROXIMITY SWITCH	AD	1	N	N	C E
HIGH AS 1500V/SHIFT REGISTERS/DATA TRANSMISSION	DA	2	N	N	C
ADC.S/RESISTOR NETWORK/SINGLE-ENDED OUTPUT	AD	2	N	N	C
NERVE STIMULATOR/NEUROMUSCULAR/TRAIN-OF-4 SEQUENCEAD	AD	4	N	N	C
HEARTBEAT/MUSCLE CELLS/ELECTRODES/IONS/DETECT	A	6	N	N	
CRYSTAL PULLING/LINEARLY/ANTENNA/RADIO/89.1MHZ	A	8	N	N	C
DIFFERENTIAL/TRANSCONDUCTANCE AMP./MONOFLOP/GSPC	AD	4	N	N	C 61

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START WINDING/UNIVERSAL/LIGHT-DIMMER	AD	5 N		
FET./RF./1-70MHZ/TUNED/TANK CCT/1-100MV/COIL/FM.	A	5 N	N	C
PHOTOMULTIPLIERS/HAMAMATSU/ADC.S/COUNTER	A	7 N		C
INSTRUMENTATION/MEASUREMENT/FEEDBACK	A	3 N		C
DISPLAY UNIT/RC. CCT/COMPUTER INTERFACING/RAM.	AD	5 N	N	C 25
TTL.-COMPATIBLE/8NS PROPAGATION DELAY	AD	2 N	N	
NF./NOISE /SNR./LOW-TEMPERATURE/RECEIVER COIL	A	6 N	N	C
GAIN-OF-1 INVERTING/X-RAYS/GRID/CATHODE CURRENT	A	1 N	N	C E
LASER-INDUCED FLUORESCENCE (LIF)/DETECTOR/CESIUM	A	5 N	N	C
HF. AC./POWER/TISSUE/50W/30MHZ/BW./IS 34KHZ	A	5 N	N	C
BALANCED INPUT PRE-AMP./DETECTOR/LIMITING	A	4 N		
VARIABLE HIGHPASS & LPF.ING/COMPENSATION	AD	9 N	N	C
CW./BFO.-HETERODYNE OSCILLATOR/CRYSTAL FILTER/IF.	A	5 N	N	
1MHZ BW./ADC./PLL./VCO./PHASE DETECTOR/SYNTHESIZER	A	7 N	N	C
DATA SOURCE MUX. & BUS INTERFACE/SWITCH DEBOUNCING	D	9 N	Y	C
RESET CONTROL/LED. INDICATOR/PC./EPROM./RAM.	DA	9 N	Y	
TOROID/TUNED CCT/VXO/CORE/QRP/INDUCTORS	A	2 N		
RADIO AMATEUR/AGC./VFO./45MHZ IF./RF./NOTCH FILTER	AD	6 N	N	
TTL. MEMORY/IEEE 488/DAC.S/CRT./LED./DETECTION	AD	5 N	N	C
		1		C
MUX./DECODER/MOTORS/PIA.	DA	6 N	N	C
QUARTZ CRYSTAL/5V PS./UP.S/DIGITAL LOGIC/WAVEFORM	AD	1 N	N	
DAMPING RESISTOR/UNDERSHOOT/CPU./EDGE	D	1 N		
OVERCOME/PINOUT CONSTRAINTS/SERIAL-OUTPUT/LATCH	D	1 N	Y	C
SPARK BREAKDOWN/MWPC./GASEOUS DETECTOR/IONS/GMSC	A	9 N	N	C 39/61
TRANSISTOR/CUTS OFF/CONDUCTS/ATTENUATION/>-30DB	AD	1 N	N	C
OPTOISOLATOR/LIGHT/SOLENOID/IO./SCR./ISOLATE/TRIAC	AD	9 N	Y	
TIMER/SWITCH TRUTH TABLE/DISPLAY/CLOCK	DA	7 Y		C
MIXER/AF. PREAMP./BFO./FILTER	A	4		
COLOR TV./18MHZ/HI-REZ GRAPHICS/MODULATOR	A	1 N		
NOISE THRESHOLD DETECTION/DIP./INDUCTANCE SOURCES	DA	2 N	N	
DYNODE/4.4MA/PHOTOCATHODE/HIGH-SPEED/TEMPERATURE	A	4 N	N	C
CAMAC/FAST VOLTAGE COMPARATOR/DETECTOR AMP./NIM	DA	4 N	N	C
ISOLATION/HIGH SPEED/FAST DATA-RATE	DA	4 N		C
START/STOP/DISPLAY UNLOCK/OPTOCOUPLER	AD	5 N		
HEAT/HEAT/MELT/DISCHARGING/ELECTRODES/SURGERY	A	3 N	N	C
PIEZOELECTRIC/JFET./MOTOROLA/SIMPLICITY/30 & 40M	A	6 Y	N	
AMATEUR RADIO/BREAK-IN/SSB./CW./RF.-MIXER/BPF/100W	A	8 N	N	
GO/REVERSE/LEFT TURN/TURN RIGHT/STOP/RESET/PREAMP.	AD	6 N	N	
PLL./FM. DETECTOR/MIXER/LIMITER/PACKET	AD	7 N		
REGENERATIVE OSCILLATOR		1		C
CPU./PLL. BLOCK/DISPLAY	AD	6		
LATCH/LED./PHOTOTRANSISTOR/LOW BATTERY VOLTAGE	DA	1 N	N	C
PHOTOTRANSISTOR/LIGHT BEAM/IR. LED/NAND GATE	DA	2 N	N	C
VERIFIED/UP./RAM./ROM./IO./CUSTOMIZING/ADC./UV.	DA	8 N	Y	C
2-PHASE/2A/AC. DRIVER/LOGIC FOR DISC-DRIVE/1-SHOT	DA	1 N	N	C
10S INCREMENTS/PCB./INEXPENSIVE/THUMBWHEEL/ALERT	AD	2 Y	N	6
OCT. 17, 1957/PRECISION ELECTRONICS, INC.	A	1 N	N	36
EMG./HEART-RATE VARIABILITY SIGNAL (HRVS)/TRACKING	A	4 N	N	76

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COORDINATION & INDICATION/SYNTHESIZER/LED. READOUT	DA	4	N	N	C	
CLAMP CCT/IA./STRAIN-GAUGE PREAMP./ADC./FREQUENCY	AD	4	N	N	C	
AMP./LOAD/OA./UHF./CONTROL OR SHUT DOWN RF. OUTPUT	A	1	N	N	C	
SEPARATE PS./POWER-ON/TIME-CONSTANT/CAPACITOR	A	1	Y	N		
DPM./OA.S/GE DIODE/3.5-DIGIT, 200MV DISPLAY	AD	1	N	N	C	E/20
CONSTANT-CURRENT DIODE		4				
CLOCK DRIVER/ECL./TTL./NIM/BUBBLE CHAMBER	AD	9	N		C	
TUNING COIL/TRIMMER CAPACITORS/THERMAL STABILITY	A	2	N	N		
TRANSISTOR/CHARGING & DISCHARGING/CAPACITOR/LOOP	AD	1	N	N	C	
INPUT BUFFERS/IA.	A	4	N	N	C	
RAMP/SERVO/KELVIN/LINEARITY/TOLERANCE/ACCURACY	AD	4	N	N	C	
SYNCHROTRONS/MODE-LOCKED LASER/RADIATION/PMT./ECL.	DA	5	N	N	C	
VARIABLE/TUNING CAPACITOR/AM. BC. BAND RADIO	A	2	N	N		
OA.S/TIMER/MONOSTABLE/COMPARATOR/PULSE GENERATOR	AD	9	N	N	C	42
QRP/HOME COMPUTER/DESIGN/TUNED CCTS/PA	A	4	N			
SUPPLY/OR GATES/FASTER SWITCHING/ON-RESISTANCE	D	9	N	N	C	
REGULATOR/3-STATE/1200-BAUD AFSK./NODE	A	9	N			
AMATEUR/TOP BAND/POWER FET./RF./DC. RESTORER	A	5	Y	N	C	
SH./MUX./IA./HIGH-SPEED/PC.S/MAGNITUDE CONVERTER	AD	5	N	N	C	
MOS./SATURATED/TRANSMISSION LINE/CAD./SPICE/FILTER	A	5	Y	N		42
SPEED/LSB./LINEARITY/CODES/RESOLUTION/ACCURACY	AD	9	N	N	C	
AIM 65/PORT/AUTOMATICALLY BALANCED/TEMPERATURE	AD	5	N	N	C	
PARALLEL (PRINTER) PORT/TRANSDUCERS/LIGHT/AUDIO	AD	7	N	Y		
COMPARATOR/DAS./CDF/16-BIT/FLOATING POINT ADC.	AD	4	N	N	C	
VOLTAGE-CONTROLLED CURRENT SOURCE/HF./RF./AMP.S	A	9	N	N	C	57
SOFTWARE-PROGRAMMABLE GAIN/SWITCHES	AD	1	N		C	
SK*DOS./COMPUTER/PARALLEL PORT/68000/READ/WRITE	D	7	N	N	C	
STEREO AUDIO/AMBIENCE/REFLECTIONS/BBD'S/4 SPEAKERS	AD	9	Y	N	C	
8-BIT/VOLTAGE REFERENCE/BLOWER/HEATING SYSTEM/SSR.	AD	9	N	N	C	
+40V/10A/140V RMS./OSCILLATOR/STABILIZE/SOURCE	AD	3	N	N	C	E
TRIANGLE-WAVE GENERATOR/DEMODULATOR	A	2	N	N	C	
		2			C	
UP./SOLID STATE DISPLAY	D	4				
1802 UP./DMA./INTERLACING/DIVISION	D	9	N	Y	C	
ROCKWELL 6502/UP.S/INTERFACES/LSI./DRIVERS/BUS	D	6	N	N	C	
PROVIDES A TRIGGER TO THE ADC./PICSO CONTROLLER	D	8	N	N	C	
FLUID SENSORS/COUNTERS/LF. CLOCK/TRANSITIONS	DA	1	N	N	C	
HYBRID ANALOG MEMORY UNITS (HAMU)/EPLD./SLD	AD	7	N	N	C	
USER PORT LIGHT PEN INPUT/BLOOD/LIQUIDS/RTC./LCD.	AD	5	N	Y	C	AG
GAIN/CONTROLLED BY A DIP. SWITCH/AD574 ADC./AD585	AD	1	N	N	C	
EPWM./SPWM./UP.-BASED FIRING/M6809 & INTERFACE	AD	8	N	N	C	
CONTINUOUS-CURRENT CONTROL/MOSFET./15V AT 10A	AD	5	N	N	C	
BATTERY & CRYSTAL OSCILLATOR/TIMEKEEPING/NOVRAM.	DA	9	N	Y		
PHASE COMPARATOR/PULSED PLASMAS/BUTTERWORTH LPF.	A	4	N	N	C	
SDA5010/SDA5200/VERY FAST/PULSE HEIGHT DIGITIZER	AD	5	N	N	C	
ELECTROMETER/FET./PLASMA CHROMATOGRAPH (PC)/CMOS.	AD	5	N	N	C	
DARK CURRENT/IEEE-488 BUS/ABSORBANCE	DA	9	N		C	42
UP TO 2500VAC. OR 3500VDC./HV./OA./PTC. THERMISTOR	A	2	N	N	C	95
DIODE BRIDGE ENSURES SYMMETRICAL OPERATION	DA	1	N	N	C	

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ONLY CHANGING WAVEFORMS ARE SAVED/ADC./ARRAY	DA	6	N	N	C	
PLL./AMP./COMPARATOR/JK FF./FREQUENCY DIVIDER CCT	AD	7	N	N	C	
1PF/INPUT RESISTANCE OF ~100MOHM/BW. OF 100KHZ	A	7	N	N	C	
THUMBNAILED-SIZED DISPLAY/PUSH-BUTTON SWITCH/LED.	D	6	N	N		
PRODUCT DETECTOR/QRP TRANSCEIVER/7MHZ	A	6	Y		C	
TOGGLE/SYMMETRY CONTROL/OTA./ATTACK/DECAY/SOUND	A	4	N	N		
21MHZ/VARIABLE CRYSTAL OSCILLATOR (VXO)/LC. LPF.	A	1	N	N		
MUSIC/NONLINEAR/DISTORTION/UNITY-GAIN INVERTER	A	3	N	N		
PROGRAM/CALCULATES/LOCATION/REFLECTION	A	6	N		C	
BASS-BOOSTED RESPONSE/RC. NETWORK/ACTIVE FILTER	A	3	N	N	C	
WHITE & BLACK WIRES/LAMP/PLUG/WIRED	A	1	N			
VMOS. POWER TRANSISTOR/DIODE BRIDGE/TRANSFORMER	A	2	N	N	C	
EDM/ELECTRIC-DISCHARGE MACHINING/SPARK/TOOL	A	7	N	N	C	
RATE/PS./117V AC. LINE/POWER SWITCH	A	1	N	N		
RF./28MHZ BANDPASS FILTER/11MHZ IF./RELAY/FET.	A	7	Y	N	C	
RF./CAE./SIMULATOR/NETWORK/OPTIMIZATION/MICROWAVE	A	3	Y	N		52
LED./RESET/START/TIMING PERIODS	A	3	Y			
FLASHING/PERIOD/TIME/CONDUCT/BREAKDOWN VOLTAGE	A	1	N	N		
CPU./MMU-CACHE/DMA./RAM. CONTROLLERS/CMOS.	D	7	N		C	
SHORE-STATION/UHF. RADIO-LINK ANTENNA/REMOTE/LAKE	AD	9	N	N	C	42
SBL-1 DBM./TRANSDUCERS/IMAGING/LO./DELAY/HARMONICS	A	7	N	N	C	
TIME INTERVAL/OA.S/COMPENSATION/LF./WHEATSTONE/FM.	AD	3	N	N	C	
QUAD JFET. SWITCHES/LF13331/POTENTIALS MEASURED	AD	9	N	N	C	
COMPUTER/PIA. INTERFACE/ANALYSIS/BW. (~80MHZ)/CW.	AD	3	N	N	C	
SHORT-CCTS/DEACTUATE/OA./COMPARATOR/BRIDGE/PS.	A	6	Y	N		
LISTEN/4 INPUT RANGES/800HZ AT 0V/TO AROUND 1800HZ	A	7	Y	N		
BALLISTIC PENDULUM/CURRENT TO VOLTAGE CONVERTER	AD	3	N	N	C	
DATA DIGITIZATION/ADC./DETECTOR/4 INPUT JFET.S	A	9	N	N	C	12
2ND-ORDER/OA.S/RC./OTA.S/CONTROL BUFFER CCT/PMOS.	DA	9	N	N	C	
100KHZ/LEVEL DETECTOR/DELAY/MISSING-PULSE DETECTOR	AD	3	N	N	C	
DETECTOR/NOISE/PREAMP./MATCHING/CHARGE SENSITIVITY	A	7	N	N	C	12
HIGH-FIDELITY DISPLAY/POSITIONING/AMPLITUDE/PROBES	AD	2	N	N	C	
REDUCE/SIGNAL-TO-THERMAL-NOISE RATIO/10^2/DME	A	9	N	N	C	
SWITCH/SERIALY-CONTROLLED ARRAY/GAIN-RANGING CCT	A	4	N	N	C	
SNUBBER/TEST APPARATUS/30KW PS./TRIGGER PULSE	A	6	N	N	C	
0-1MHZ BW./PROBE DRIVER/COMPUTER	A	9	N		C	
FLOW INJECTION ANALYSIS/FIELD-FLOW FRACTIONATION	A	3	N	N	C	
SINGLE ENDED/BALANCED SOURCE/AUDIO/CASCADE INPUT	A	2	N	N		3
TRIPLE-PROBE/RFP PLASMA/ELECTRIC/MAGNETIC FIELDS	A	9	N	N	C	39
CANCELLATION/CHARGES/OFFSET VOLTAGES/SH.	AD	2	N	N	C	
OA./DRAIN-TO-SOURCE/DRAIN-TO-GATE FEEDBACK/BUFFER	A	6	N	N	C	
TRANSCEIVER/RADIATION/CARRIER FILTER/EMI./16-LED.	A	9	N	N	C	
IMPEDANCE/AC./AMP./NEGATIVE FEEDBACK/CHEAP/NOISE	A	2	N	N	C	
ALLPASS/LC./RC./CR/RL/LR/2ND & 3RD ORDER LCR/RF.	A	6	N	N	C	
ZCD./VARIABLE VOLTAGE RESISTANCE/VVR/LPF./DIVISION	A	5	N	N	C	
PHOTODIODE/POSITION-SENSING/DIVIDER	A	2	N		C	
MINIMIZE PEDESTAL ERROR/DATA-ACQUISITION/ADC.	AD	7	N	N	C	
D FF./FLUX COLLECTOR/OA./TRIAC/SHUNT-TRIP/POWER	AD	1	N	N	C	
SAFETY/MINIMIZE INTERFERENCE/TRANSFORMER/OA.S	A	1	N	N	C	

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RECTIFIER BRIDGE/TRANSFORMER COUPLED/INPUT/OUTPUT	AD	2 N	N	C	
VOLTAGE FOLLOWER/DIODES/SCHOTTKY/BW./LEVEL SHIFT	A	1 N	N		3
AIR TRACK/GLIDER/MOD./PEN/LIGHT/RELAY ARMATURE	A	2 N	N	C	
RESONANT GATE DRIVING/MONOLITHIC	A	4			
IMD./GATE DRIVE/RF.	A	4 N	N		
TV./NTSC./COMPOSITE VIDEO/DC. RESTORER/MICROCHIP	DA	9 N	Y		
ALTERNATOR/CAR/VEHICLE/ELECTRICAL SYSTEM/CHARGING	A	3 Y	N	C	
8-BIT OS. CP-M/LOGIC FOR DRAM., BUS DRIVER & RESET	D	5 N	N	C	
LARGE VARIABLE COIL/LF./TRANSMITTERS/STABILITY	A	6 N	N		
HEATS THE ENDS OF THE TUBE/HOLDING CURRENT/MAINS	A	2 N	N		
TIME-RESOLVED SPECTROSCOPY/AMP.-DISCRIMINATOR/PMT.	DA	6 N	N	C	
INFUSION PUMPS, RESPIRATORS/ISOLATION ROOMS/LED.	A	4 N	N		
TRANSMITTING/MINIDUCK ANTENNA/BATTERY PACK/CHARGER	AD	3 N	N		
CMOS. SQUARE-WAVE-PULSE GENERATOR/TRIAC/LED./RELAY	AD	6 N	N	C	
ALSO ADJUST THE WIDTH, OR Q/BAND/BYPASS SWITCH	A	5 N	N		
LOW-NOISE/>50MHZ/TRANSFORMER COUPLING/SIMPLE/50OHMA	A	6 N	N	C	
THRESHOLD SWITCH/OA.S/COUNTER/CRYSTAL/OSCILLATOR	DA	4 Y	N		AJ
ABSORPTION/RADIATION/BEAM/TRANSMISSIVITY/PLATE	A	2 N	N	C	
SPECTRUM ANALYZER/FREQUENCY-TO-VOLTAGE CONVERTER	A	4 N	N	C	39
PAS/LASER/LIQUID-PHASE/CELL/BOXCAR AVERAGER/LIGHT	A	5 N	N	C	
PZT./LASER EXCITATION/PULSE/SOLVENTS/FLUORESCENCE	A	6 N	N	C	
PS./BRUTE FORCE/~1MA/SET BETWEEN 5V & 25V	A	1 N	N		
DAC./SINE LOOK-UP TABLE/ROM./LPF./J-K FF./COUNTER	DA	5 Y	N	C	
BASELINE RESTORATION/SSC DETECTOR/SPICE SIMULATION	A	9 N	N	C	4
VCO./ZCD./ANALOGUE SWITCH/LPF./PHASE DISCRIMINATOR	AD	5 N	N	C	14
RECORDS/AUDIO/FEEDBACK LOOP/RESPONSE/CARTRIDGE	A	3 N	N		
OA.S/-10.000V REFERENCE/LED./PHOTODIODE/LIGHT/~\$7	A	1 N	N	C	
FILTER/UV./DUAL-WAVELENGTH ABSORPTION SPECTROSCOPY	AD	7 N	Y		
BAND/LOW/HIGH PASS/OSCILLATOR/INTEGRATOR/BIQUAD	A	9 N	N	C	
PS./DIVIDER-COMBINER/ECFB/SENSOR/DUAL TIMER/FAULT	AD	6 N	N		
AMPLIFICATION/LOW LEVEL SIGNALS	A	1 N			
INTEGRATOR/PHOTOTRANSISTORS/DUAL TIMER/RAMP/LIGHT	AD	4 N	N	C	
CRYSTAL/DATA SEPARATION/68000/ADDRESS TIMING	DA	5 N	Y	C	
DUT./ATE./FUNCTION GENERATOR/SERVO AMP./CM ERROR	A	3 N	N	C	
TUBES/ARGON-CARBON DIOXIDE GAS/X-RAY PHOTONS	AD	8 N	N	C	
MULTIPLE-VALUED LOGIC (MVL)/LINEAR SEQUENTIAL CCTS	DA	3 N	N	C	
40 TO >200MHZ/SAMPLING SWITCH	AD	5 N			
PPI./8255/ADC0809/8-BIT, 8-CHANNEL/INTERFACE/PC.	AD	9 N	Y		
HEAVY FORWARD BIAS CONDITIONS	A	4		C	
HOST/FAST/MOVING IMAGES/FLICKER-FREE/PALETTE/ADC.	D	3 N	Y	C	
SPECTROMETER/FWHM./MONITORING/ANODE/LIGHT/ARRAY	A	9 N	N	C	
CURRENT-CONTROLLED/VOLTAGE-CONTROLLED	A	5 N	N	C	
MUX. LIMITER/FILTER/SYNCHRONOUS DEMODULATOR/SPST.	AD	2 N	N	C	
1.8V TO 32V/CORE - ARNOLD A-254168-2 60 TURNS	A	2 N	N	C	
TESTING AUDIO/SPECTRUM ANALYSIS/PMOS./TRANSISTOR	AD	6 Y	N		
Q-INVARIANT INDUCTANCES/SIMULATION/TUNED CCT	AD	8 N	N	C	
DAC./PC./PID./GENERALIZED PREDICTIVE CONTROL (GPC)	A	6 N	N	C	28
RPM./LIGHT PULSES/COUNTS/DIGITAL	DA	5		C	42
NATIONAL SEMICONDUCTOR/SOFTWARE PROGRAM/DC.-DC.	A	5 N	N	C	

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PHOTOMULTIPLIERS/EHT./IR./PHOTON	A	9 N	C	
LED. FLASHER/EAVESDROPPING/POLARITY/VOLTAGE	A	2 N	N C	
LASER PULSE/SH./PROBE BEAM/128 POINTS	DA	4 N	N C	
SUMMING AMP./BW.S/20KHZ/CURRENT MIRRORS	A	4 N	N C	
0-100% LINEAR CONTROL/PULSES/OA.S/POWER TRANSISTOR	A	2 N	N C	
6522 VIA./DATA	AD	4 N	C	
SUCCESSIVE-APPROXIMATION		2	C	
CURRENT SUMMATOR/BUFFER/CONDUCTANCE SIMULATION	A	9 N	N C	
AC./DC./BUZZER/FLASHING/KITS/SWITCHES/TIME READOUT	D	3 Y	N C	
LED./DTMF. DECODER/INVERTERS/FF./PROGRAMS	D	3 N	N	
ZERO OFFSET/CALIBRATION/POWER GAIN/CURRENT GAIN	A	4 N	N	
TRIP CURRENT/TRANSFORMER/TRIMMING RESISTORS/SHOCKSA		4 N	N C	
DAC./DMM./TEMPERATURE SENSING/FLOW/RAMP/OA.	AD	7 N	N C	
ALERT/LEVEL/VOLTAGE DIVIDER/1.6V REFERENCE	A	1 N	N C	
PULSES/CLOCK TIME/DAC.	DA	6	C	42
NOVRAM./READ ADAPTER/PROGRAMMED/STORE/VFO./RETAIN	DA	2 N	N C	
BC. BAND RECEIVER/TRANSISTOR/ALARM	AD	5 N		
EXPOSURE/DARKROOM/PHOTORESISTOR/PRL9	AD	3 Y		
LED. FLASHER/GREEN/RED/NOT A REAL	A	3 Y	C	
CODE KEYS		1		
OSCILLOSCOPE		1		
COMPUTER/LOCK/PROTON DECOUPLING/SWR.	DA	5 N	C E	
BANDPASS FILTER/SYNC DETECTOR	A	4		
BUCKET-BRIGADE DEVICE (BBD)/AFG/BAND-PASS FILTER	A	6 N	N C	
SOUND/HANDSET/LIFTED/PICKED UP/RELAY/RADIO/~5S	A	3 Y	N C	
FLOW/CRYOGENIC FLUIDS/GASES/RELAYS/SENSORS/MOSFET.	A	5 N	N C	
VHF./TWT'S/CATV./PEAK ENVELOPE POWER (PEP)/IMP	A	4 N	N C	
PROGRAMMABLE UJT. (PUT) RELAXATION OSCILLATOR/FF.S	DA	2 N	N C	
ECG./EEG./INTERFERENCE REDUCTION/ELECTRODE-SKIN	A	3 N	N C	
1KOHM TRANSFORMER/RF./IMPEDANCE/TRIFILAR TOROIDS	A	2 N	N C	
FULL-SCALE/DIGITAL INPUT WORD/CONTROL INPUTS	AD	2 N	N C	
455KHZ/BFO./AGC./DELAY & ADD/RF. IC/LF./FSK./LAN.	A	6 N	N	
TONE/RIAA EQUALIZATION/80HM SPEAKER/BASS-BOOST	A	6 N	N C	
FF./PAD (PULSE AMP. DISCRIMINATOR)	AD	5 N	N C	
QUAD OA./NTC. THERMISTOR/ROAD/HIGHWAY/CHILLING	A	4 N	N C	
EPROM./AUTO-RANGING/2GOHM TO 2MOHM/FET./CMOS./TTL.	AD	9 N	N C	25/42
AMP./PREFIXES/VALUES/TOLERANCES/BASIC/PROGRAM	A	3 N	Y C	
SUN/ENERGY INDEPENDENCE/COMPARATOR/ELECTRICITY	DA	5 N	N C	
LINEARLY/ACCURATELY/VOLTAGE-CONTROLLED	A	3 N	C	
BLIND/VISUALLY HANDICAPPED/FIBEROPTIC PROBE/LED.	AD	4 N	N C	
TESTING/METER/2-T0-1 CURRENT GAIN/CHANGE/VOLTAGE	A	1 N	N C	
ADC.S/PULSE-HEIGHT/SPLITTER/CALORIMETER/CAMAC/MUON	A	9 N	N C	61
COMPARATOR/LIGHT/PHOTOTRANSISTOR/SOIL TENSIO METER	AD	2 N	N C	
TRIGGER/DISPLAY WAVEFORMS ON THE LED.S/20X20	A	2 N	N C	
BUFFERS/INDUCTOR/SENSITIVITY/2-PORT NETWORK	A	3 N	N C	
TACHOMETER/TRIGGER/THYRISTOR/BRIDGE	A	1 N		
6V/STARTING CURRENT/0.5A/10:1 GEAR RATIO/BIPOLAR	A	1 N	N C	
SIMPLE & INEXPENSIVE/WIDEBAND IC'S/METER CCT	A	3 N	N C	
IBM PC.-AT/B003 4-TRANSPUTER BOARD/MUX.S/DEMUX.	D	5 N	N C	

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CURRENT GENERATOR/DELTA SIGNAL/PHOTOMULTIPLIER/NIM	A	5 N	N	C	61
COMPUTER SIMULATION/SPICE/UP.-BASED/FAST TURN-ON	A	7 N	N	C	
OUTPUT STAGE/ALIGNMENT/40 & 20M CW.	A	4 Y			
BREAK-IN/BURGLAR ALARM/SECURITY/INTRUDER	A	3 N		C	
		3			E
PULSE WIDTH/RAW DATA/FT. SPECTROMETER/MIXER/MUDISM	AD	9 N	N	C	
CLIPPING LEVEL/DRIVEN/OPTIMUM RESISTOR VALUE/ZENER	A	2 N	N	C	
INTERACTIVE/JOYSTICK INPUT/EMOTIONS/RELAX/LOW-COST	AD	5 Y	Y		
HORIZONTAL & VERTICAL/PATTERNS/CRT./ADAPTER/PEP	A	3 N	N		
COMMON-COLLECTOR/COMMON-BASE/BJT./BIASING/SWITCH	AD	6 N	N	C	
SIMULATE SIGNALS/SYNTHESIZED-FUNCTION/ECG./HEART	A	8 N	Y	C	E
OPTOCOUPLER/AVERAGE/PULSE TRAIN/ZENER DIODE/0-600V	A	2 N	N	C	E
AUDIO-SIGNAL TRACER/GAIN/POTENTIOMETER	A	4 Y		C	42
OPTO-COUPLER/SPEED/PHOTOTRANSISTOR'S TURN-OFF TIME	A	5 N	N	C	
TUNING/DETECTOR/RECTIFIERS/SWITCHES	A	4			
POSITION/DATA ACQUISITION/VME/STAR/CPU.	AD	9 N		C	
REFERENCE/MOSFET./HIGH-IMPEDANCE	A	4 N		C	
LANGUAGE/SAY/DECODE/DISPLAYS/LED./COUNTER	DA	7 Y		C	
QRP RIG/RAINY-WEEKEND PROJECT	A	4			
NULL AMP./BALANCE/STRIP-CHART RECORDER/MOD./BALLS	A	4 N	N	C	
PHOTODIODE/RF./MICROWAVE/25HZ/SCATTERER	A	7 N	N		42
DIAC/THERMISTOR/REED SWITCH/TEMPERATURE	A	4 Y			
VARIABLE CAPACITOR/16MHZ TO ~2MHZ/TRANSISTORS	A	2 N	N		
FLASH RATES/10 9V BATTERIES IN SERIES/90V/<48UA	A	6 N	N	C	
TRIFILAR BALUN/BALANCED/FERRITE-CORE	A	5 N		C	
ADC./AMP./HORIZONTAL SWEEP	AD	4 N			
COMPLEMENTARY SYMMETRY/LARGE SIGNAL AMP.S/HELIPOT	A	2 N	N	C	16
GLUE-DOWN STRIPLINE/PROJECT/THERMISTOR	A	5 N			
LONG SWEEP TIME/X-Y/CHANGES		1		C	
CERAMIC TRANSDUCER/MICROPHONE/ACOUSTIC	A	2 N		C	
CURRENT-LIMITING/POLARITY/CONNECTIONS/DEAD/DARK	A	4 N	N		
VARIABLE-FREQUENCY CRYSTAL CONTROL/OSCAR	A	4 N			
FET./POTENTIOMETER/TUNING/INDUCTOR	A	3 N			
PINCH-OFF VOLTAGE/FREQUENCY SHIFT	AD	5			
SEMICONDUCTOR MEMORIES/DATA RETENTION/PROBLEMS	DA	5 N	N	C	
FERRANTI ZNA 116IC/LED. DISPLAY/MOD./PSU/LAMP	A	5 Y	N		E
NIGHT LIGHT/INCANDESCENT LAMP/RELAY	A	3 N			
RF./PUSH-PULL/VFO./FET./CLASS-A/POWER	A	5 Y			
		1		C	
		1			
CARRIER AMPLITUDE/MODULATION LINEARITY/WAVEFORM	A	4 N	N	C	
TRANSFORMER/GAIN/AMP./FREQUENCY SYNTHESIZERS	A	2 N	N		
PARALLEL-OPPOSING/50KHZ/LOW-LEAKAGE/RECTIFIERS	A	8 N	N	C	
BUFFER AMP./30M/BASE/CORE/PARALLEL RESONANCE	A	1 N	N	C	
VARIABLE RESISTOR/FET./MOSFET.S	AD	3 N			
DATA ACQUISITION/PROCESSING/AMPLITUDE/PERIOD	AD	6 N	Y		
LOWER FREQUENCIES/RECEIVING/3.5-3.8MHZ/NOISE	A	3 N	N	C	
SWITCHING/LOW-LIGHT-LEVEL READINGS/FET.	A	1 N		C	
NPN & PNP BIPOLARS/DARLINGTON PAIRS/FET.S/DIODES	A	4 N	N		

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CMOS. MUX./SH./ADC./PROCESS-MONITORING	AD	8	N	N	C	
RECOVERY TIME OF 5US AT 10MHZ/RF. PULSE EXCITATION	A	4	N	N	C	25
TRIP OUT/HALF-WAVE/FULL-WAVE BRIDGE/DIODES/PS.S	A	2	N	N	C	
RECEIVER/RADIO/STRENGTH/CRYSTAL SET 'DETECTOR'	A	2	N	N	C	
RESISTORS/TUNING UP/POWER MEASUREMENTS/SWR. BRIDGEA		4	N	N		
PHOTOSENSITIVE/LIGHT BEAMS/SENSITIVITY	A	2	N		C	
32MHZ/COMPUTERS/80386/WAVEFORM SYMMETRY/TTL.	DA	3	N	N		
TRIAC/PHASE DELAY		2				
NEUTRAL LINE/HOT LINE/SHORT-CCT'ING	A	1	N		C	
MAGNITUDE CONTROL/VARIABLE-GAIN/FEEDBACK/ERRORS	A	9	N	N	C	
DYNODES/RC./CFD./TAC./SHAPING AMP./SCA./BACKGROUND	A	9	N	N	C	39
ELECTRET TYPE TRANSDUCER/APNOEA/SIDS MONITOR/EMG.	A	4	N	N	C	
FEEDBACK/PHASE SHIFT/MARGIN/HIGH-SPEED/POLES	A	8	N	N	C	
SPEAKER/LED./LAMP/LATCH/AMP./KIM-1	AD	6	N		C	
VARIABLE/TUNING CAPACITOR/TRIMMER/TOROID CORE	A	1	N	N	C	48
PROCESSING/SENSOR/LED./PHOTOTRANSISTOR/COAL MINE	AD	3	N	N	C	
TOROIDAL CORE/SATURATION/PERMEABILITY/500KHZ/5MHZ	A	2	N	N	C	
WIDEBAND AMP./LASER BEAM/DETECTOR/1NS/DEFLECTION	A	6	N	N	C	
PLL./UP.	AD	1			C	
LED./SWITCH/GAME-PADDLE/THERMISTOR/MEASURING	DA	6	N	Y		
SYNCHRONOUS-COUNTER/COMMANDS/FDC/CPU.	D	5	N		C	
DIGITAL DISPLAY/FREQUENCY COUNTER	AD	7			C	
FLASHLIGHT/DISTANCE/TIME/PHYSICS/FREE FALL/PLANE	AD	9	N	N		
CROSSOVER DISTORTION/THD./CURRENT DUMPING/SANDMAN A		5	N	N	C	
AMP./DISPLACEMENT/LIGHT/LINEARITY/FLAT/UP TO 50KHZ	A	2	N	N	C	
PAL./UART./ADDRESS STROBE/MEMORY MAPPING/PROCESSOFD		8	N	N		
UV./PULSES/SPLIT-CATHODE/DETECTOR/BBO CRYSTALS	A	3	N	N	C	
CURRENT-TO-VOLTAGE/FET.-INPUT/LASER/BEAM/LIGHT/EM.	A	5	N	N	C	E
ADC./DAC./CUVETTES/ARTERIAL & VENOUS/CONSUMPTION	AD	5	N	Y	C	AG
LOCK/PHASE DETECTOR/LOOP-FILTER/DIODE	AD	1	N			
PLL./OSCILLATOR/SPLIT	AD	3				
BW./PASS-BAND/ATTENUATION RIPPLE <=0.3DB	A	1	N	N	C	
ALPHA, BETA & THETA/ELECTRODES/FET. INPUTS/OA.S	AD	8	Y	N		
RIG/LO. INPUT/FET./SWITCH/DX/VARIABLE CAPACITOR	A	2	Y	N	C	
DC.-DC. CONVERTER/LED.S/FEEDBACK AMP./LINEARITY	A	2	N	N	C	
35MV PK-PK, MINIMUM/TANK CCT/1.544MHZ/OSCILLATOR	AD	2	N	N	C	
RESOLUTION/2.5KV/LIGHT/SCINTILLATION COUNTERS	A	9	N	N	C	
REDUCES NOISE/BW./IS 16KHZ/SHUNT CAPACITANCE	A	2	N	N	C	
FET./ADC./SIZE/PULSED/CHAMBER/DETECTOR	A	4	N		C	
TRANSCONDUCTANCE DROOP/CROSSOVER/SPEED/PROTECTICA		9	N	N	C	
TUBE/WALK ADJUST/CONSTANT FRACTION TIMING/ENERGY	AD	4	N	N	C	8
INPUTS/BALANCES/LED./REDUCTION OF NOISE PICK-UP	AD	4	N	N	C	
10MA/PASS TRANSISTOR/COLLECTOR-BLOCKING DIODES	A	1	N	N	C	
PHILIPS/STABLE/PHOTOCATHODE-TO-1ST-DYNODE/CRYSTAL	A	8	N	N	C	
CLOCK/RADIATION SENSING/SIMPLE/DETECTOR	DA	3	N		C	
LINAC/SCR.-SWITCHED HV./KLYSTRONS/FEL/PRESSURIZED	A	5	N	N	C	12
DYNODE/ANODE PULSES/320PS/SCINTILLATION COUNTERS	A	4	N	N	C	12
LPTV. TRANSPOSERS/TRANSISTORS	A	4			C	
DIFFERENTIAL OUTPUT/DOUBLES/VOLTAGE SWING/OFFSET	AD	8	N	N	C	

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1KW/COMBINERS/GAIN OF 15DB/IMD./VSWR./IMPEDANCE	A	4	N	N	
EXAR/MULTIWAVEFORM/SYNTHESIZER/SAWTOOTH/INTERSIL	A	6	N	N	C
FREQUENCY-TO-VOLTAGE CONVERTER/SEISMOLOGICAL/FDM	AD	9	N	N	C
3-DIODE/AUDIO OUTPUT/N-CHANNEL/CRYSTAL-CONTROLLED	A	3	N	N	C
PION SCATTERING/FAST/ECL. OUTPUTS/NIKHEF/CAMAC	AD	4	N	N	C
KEYBOARD DECODER/MUSIC/PS./COUNTER	DA	3	N	N	
AC. LINE/NEON LAMP/FUSE/COMPUTERS/SOCKETS/PLUG	A	4	N	N	C
RECTIFIER BRIDGE/BOTH POLARITIES/CURRENT SENSE	AD	3	N	N	C E
BUS BUFFER/PHANTOM/EPROM./S-100/IMSAI 8080/CPU.	D	6	N	Y	
MULTICHANNEL/AMP.S/3PF TUNGSTEN	AD	5	N		C
SIMULATION ANALYSIS/BASIC COMPUTER PROGRAM/UHF.	A	6	N	Y	C
PULSING/EVERY 10S FOR 20MS/ALARM/LATCH/LOGIC	AD	1	N	N	C
DISPLAY/CRT.-CONTROLLER/UP./MEMORY	DA	9	N	N	C
RC. OSCILLATOR/5 WEIGHTED BINARY INPUTS/DETECTOR	AD	4	Y	N	C
SLOW DECAY OF CURRENT/SUPERCONDUCTING/EM./WINDING	A	9	N	N	C
MPU./PLL./LOGIC/MEMORY CHANNEL/SCAN	AD	3	N		
RF. PREAMP./VHF./IF./TRANSMITTER/RECEIVER	AD	7	N	N	
REFERENCE INPUT/12-BIT/CURRENT SOURCE/COMPARATOR	AD	1	N	N	
PROTECT/2-WIRE TRANSMITTER/TRANSDUCER/RECEIVER	A	6	N	N	C
OSCILLATOR/PULSE FORMER/TIMER/LINEAR TRANSMITTER	A	5	N	N	C
AMP.-LINE-DRIVERS/CHERENKOV COUNTER/ADC.S/CERN.	A	9	N	N	C
SKIN CONTACTS THE RIVETS/PING PONG BALL/TRANSISTOR	A	3	N	N	
LONG-TAILED PAIR (LTP)/VCF/OA./THD. IS 0.75%	A	3	N	N	C AC
ADJACENT SIGNAL/IF./LO.	A	8			C
THERMISTOR NETWORK/F-V/VFC.	A	6	N		C
SCR./SPICE/ANODE VOLTAGE & CURRENT/RECOVERY CCT	A	9	N	N	C
CURRENT BALANCE/POWER-MOSFET./ISOTOP/TEMPERATURE	A	8	N	N	C
FREQUENCY COMPENSATION/OSCILLATION/SAMPLING BRIDGEAD	AD	9	N	N	C 57
COUNTER/COMPUTERS/PARALLEL/ELECTRODES	D	9	N		C 42
DUT./INTRINSIC DIODES/MOTOR/CURRENT TRANSFORMER	DA	9	N	N	C
REJECTING EMI./TRANSDUCERS/RESISTOR VALUES/PRECISE	AD	6	N	N	C
OA./<50NV OF PEAK-TO-PEAK NOISE/0.1HZ TO 10.0HZ	A	1	N	N	C
FAST/0.1OHM ON-RESISTANCE/VOLTAGE DOUBLING	A	2	N	N	C
GAIN/PHASE SHIFT/FEEDBACK LOOP/VOLTAGE/CURRENT	AD	5	N	N	C
FAST LOGIC/PULLUP RESISTOR/5V/PS./SEQUENCING	D	9	N	N	C
TONE CODED/SEAWATER/DUMAND/480NM FILTER/OCEAN	AD	4	N	N	C
IEEE-488/DIGITIZING OSCILLOSCOPE/COMPUTER/HP85 PC.	DA	6	N	N	C
REFLECTANCE/DETECTORS/PHOTONS/REVERSE BIAS/LIGHT	A	3	N	N	C
A-D/CONVERTOR/AUDIO INPUT/VIDEO OUTPUT/PCM.	AD	3	N		
ECL./TTL./DISCRIMINATORS/MAGNETIC MONOPOLES/PMT.S	AD	9	N	N	C
LOW-NOISE/PHOTOSIGNAL/SHIELDING/CARRIER	A	4	N		C
UART./ASCII./SUB-BLOCKS/TAPE/CHARACTER/COMMANDS	D	9	N	N	C
PLATE LOAD/GRID/SIGNAL/PLATE DISSIPATION	A	3	N		
LEVEL/TUNES UP/GRID/SCREEN DISSIPATION	A	2	N		
RELIABLE & FLEXIBLE/INTERRUPT/IO./2400-BAUD RATE	DA	2	N	N	C E
PHASE INSURANCE		2			C
HIGH-POWER (60KW)/GTO. THYRISTOR/FET.S/BIFILAR	A	9	N	N	C
PSEUDORANDOM SEQUENCE/SYNTHESIZER/PITCH/TONE/DIODE	AD	6	N	N	
GPIB./MICROCOMPUTER/NOISE SOURCE/DATA-ACQUISITION	DA	6	N	N	C

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BIAS VOLTAGE/<20V/X-RAY/RADIATION DETECTOR	A	4	N	N	C	61
~3MHZ TO 10MHZ/RF./TANK CCT/RADIO/PI/LINK OUTPUT	A	2	N	N	C	
EPROM.S/PROGRAM-MEMORY/LATCH/DECODING/SEGMENT	D	8	N	Y	C	
ADC./CAN HANDLE HIGH POWER LEVELS/TRANSISTOR AMP.	AD	1	N	N	C	46
LOCAL DOCUMENT BUS/REDUNDANCY/CCITT. ALGORITHMS	D	7	N	N	C	
INTERFACE/LED. INDICATORS/TTL. OSCILLATOR/ROM.	DA	9	N	Y		3
CRYSTAL OSCILLATOR/MIXER/RECEIVER/RADIO	A	2	N		C	
PLASMA DISCHARGE TUBE/THIN-FILM DEPOSITION/POWER	A	8	N	N	C	
15KVDC./FOCUSING VOLTAGE/IGNITION COIL	A	3	N			
DECODING/INTERFACING/UP-DOWN COUNTER	D	4	N		C	
NE602-BASED/VFO. DIAL/VARACTOR/KIT/LOW DROPOUT	A	8	N	N		
MARK/POST-DETECTION FILTER/PLL./FM.	AD	5				
IO./PPI./HOME CONTROL SYSTEM/HCS/AUTOMATION	DA	9	N	Y		57
HEX/\$130/CPU./COMPATIBLE/8080 SOFTWARE	D	6	N		C	
CURRENT/FAULT CONDITION/LIMIT VOLTAGE/LOAD/OUTPUT	A	1	N	N		
ALARM/BUZZER/CURRENT SOURCE/TRIPLE OA./ECG./EEG.	A	2	N	N	C	
RAM./STEREO/LATCH/MEMORY/REVERBERATION	AD	6	N			
RF. INTERFERENCE/PHASE-TRIGGERED/THEORY/DC./BUZZER	A	5	N	N	C	
POWER/TC./DIODE GATES/COMBINED	A	3	N	N	C	
TELEMETRY/EEG./ECG./TRANSMITTING UNIT (T.U.)	A	4	N	N	C	
NEARLY UNIVERSAL/TRS-80/COMPUTER/PROGRAM	DA	9	N	Y	C	
LED./3 WIRE POWER TRANSMISSION/DC. MOTORS/SEQUENCE	A	1	N	N		E
TOF. DETECTOR/TEXTOR TOKAMAK/RUTHERFORD SCATTERING	A	9	N	N	C	39
VARIABLE-TIME LATCH/USER PORT IO. BUFFER CCT/UP.	AD	4	N	N	C	
DOUBLE SUBTRACTION/SUPPRESSION OF COMMON-MODE	A	4	N	N	C	
OPTOISOLATOR/AUDIO/SOUND/LINE/DRIVER	A	4	Y			
NRZ. SIGNAL FORMATS/PSEUDO-RZ/DIGITAL TRANSMISSION	DA	2	N	N	C	
TUBE/SKIN/TRANSMITTING FLUID/PNEUMATIC/CELL	AD	4	N	N	C	
\$32/CPU./DATA TERMINALS/SERIAL/TTL./TRANSISTOR	D	1	N	N	C	
50MHZ/RAM./ROM./UP./PLD./KEYBOARD INTERFACE/LCD.	DA	9	N	N	C	
Z8 BASIC-CONTROLLER/PROCESS CONTROL/SINGLE-CHIP	AD	9	N	Y	C	42
CALLING CQ/ADC./DAC./FILTERS/CONTESTING/AMP.	AD	7	Y	N		
B+/FVA-873/VOLTAGES/AUDIO/KIT/LED./TRANSFORMER	A	9	Y	N		
ANY TRANSFORMER/8-15V/TRANSISTOR/REFERENCE VOLTAGE	A	1	N	N	C	
AUDIO/CATHODE FOLLOWERS/HIGH-FIDELITY	A	2	N	N		42
EXTEND/USEFUL OPERATING FREQUENCY/MAGNITUDE/PHASE	A	5	N	N	C	16
PC./28F256/MICROCOMPUTER/80C186 MEMORY MAP/UP.	AD	7	N	N	C	
BASIC ROUTINE MOVES DATA/NONVOLATILE/SEEQ/COMPUTER	D	2	N	Y	C	
HAND-SHAKE/ADDRESSING/RABBIT/HIGH ENERGY PHYSICS	D	4	N	N	C	
TMS320C30 DSP./ASIC.S/SMT./UP./VLSI./BOUNDARY-SCAN	D	4	N	N		
FOLLOWER BUFFER/INVERTER-AMP./DISPLAY	AD	3	N		C	
NACL & KCL/50MHZ/INTERDIGITAL TRANSDUCER (IDT)	A	9	N	N		42
ELECTRODE/PLATINUM ANODE/GOLD CATHODE/SENSOR	A	5	N	N	C	
JTAG/UP./SCAN TEST DEVICE/PATH SELECTOR/BUS	D	1	N	N		10
CONVERT YOUR APPLE INTO A HOST/AIM-65	D	9	N		C	
PROBES/DETECT/CONTAINER/INTERFACE/INDICATOR/ALARM	AD	1	N	N	C	
HIGH-QUALITY GRAPHICS/VDI COMMANDS	D	6			C	
OPTOCOUPLER/OPTICAL ISOLATOR/BIOMEDICAL/OA./LOAD	A	7	N	N		
REDUCING NOISE/SELECTIVITY		2				

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SIGNAL GENERATOR/PIA./IO. PORT/DATA	AD	6 N	Y	C	
DIFFERENTIAL/GAIN-FREQUENCY/MATHEMATICAL TECHNIQUE	A	5 N	N	C	
OA./CURRENT-TEMPERATURE SETTING/COMPARATOR/VOLTAGA		1 N	N	C	
TEMPERATURES/300DEG C/DRY ROOM/COMPUTERS	AD	9 N	N	C	
1MHZ SQUARE WAVES		1		C	
TC. COMPENSATION/2MHZ/500V-US	A	1 N	N	C	
WITHSTAND THE TRANSIENTS/BREAKDOWN/PROTECTED	A	8 N	N	C	61
ADDRESS BUFFERS/PC.-COMPATIBLE/IO./MEMORY/DECODED	D	3 N	N	C	
FIFO./TIMER/DRV11 INTERFACE/NEUROPHYSIOLOGICAL	D	6 N	N	C	
THORAX/MICROPHONE/LF. RESPONSE	A	3 N		C	
MOD./ASCII./DTL./RTL./TTL./VIDEO-INTERFACE BOARD	D	1 N	N	C	
SCAN COUNT/BINARY VALUE/ANALOG DEVICES/DISPLAY	DA	1 N	N	C	
ALGORITHM/PLUTONIUM/WASTE/BOHNEL/SIGNAL PROCESSING	D	7 N	N	C	
8 POLE, BESSEL FILTER/LINEAR PHASE-SHIFT/CASCADING	A	2 N	N		
CMOS./INTERLOCKED SWITCH CCT/LOCKOUT/DRIVE CURRENT	AD	2 N	N	C	
GATING SIGNALS/POTS/UP.	D	1 N			
UNCRITICAL/SUPPLY MUST FLOAT		1		C	
EXPANDING/ADDRESS BUS/UP./CPU.S/8-BIT/32-BIT/IO.	D	6 N	N	C	
8 OUTPUTS/256 POSSIBLE STATES/DEVELOPMENT/FEEDBACK	D	2 N	N	C	
PROCESSOR/16-BIT/COMPATABILITY/MEMORY	D	9 N		C	
COMPARATORS/PRIORITY ENCODER/LED. ARRAY	AD	3 N			
MUX.ED TEST LINES/CAPACITY		1		C	
FUTURE/BINARY NUMBERING SYSTEM		4		C	
SEMICONDUCTOR NUCLEAR RADIATION DETECTORS/SOFTWAFAD		5 N	N	C	
NITROGEN/HELIUM/CRYOSTATS/GOOD LINEARITY/TRIGGER	DA	7 N	N	C	
THERMAL CONDUCTIVITY/SAND/MEASUREMENTS/FIELD/BOX	A	6 N	N	C	91
SENSOR/PULSE TRANSFORMER/SPEED CONTROL/PWM./UP.	A	7 N	N	C	
POSITIVE-NEGATIVE CONTROLLED UNITY-GAIN AMP./BJT.	A	3 N	N	C	
CMOS./FRACTIONAL MULTIPLICATION/RUNS AT 120KHZ	AD	1 N	N		
PULSE TRAIN/LINEARITY IS EXCELLENT/INDUCTORS	DA	2 Y	N	C	
OA./DIFFERENTIATOR/BW.	A	7 N	N	C	
FANOUT AMP./PHOTOMULTIPLIER/ANODE PULSES	A	9 N	N	C	
ACTIVE FILTERS & OSCILLATORS/ACTIVE-RC./FEEDBACK	A	3 N	N	C	
TTL./VOLTAGE REGULATOR/TRANSISTOR/14.060MHZ	DA	3 Y	N	C	
SYMMETRICAL TWIN-T BRIDGE	A	2		C	
COMPUTER/BCD. LEFT SHIFT NETWORK/BCD. ADDER/CLOCK	D	9 N	N		
MCP. DETECTOR/FAST RAM./TOF./TAC./MECL./FIFO.	D	7 N	N	C	
CPU./SRAM./DRAM./ZERO-WAIT WRITE CYCLE/UP./INTEL	D	7 N	N	C	
OA. PRINCIPLES/APPLICATIONS		5			
NEUROSCIENCE/PIT/ANALYSIS/PERIPHERALS/RECORDING	D	9 N	N	C	2/42
FILTERS HF./BOB/MASS/PC./MEASUREMENTS/0809 ADC.	AD	3 N	Y	C	
COMPUTE/14-BIT BINARY NUMBER/MILITARY/LSI./ROM.	D	8 N	N	C	
PREPROGRAMMED/PC.S/256KBYTE EPROM./COPROCESSOR	D	9 N	Y	C	
APPLE IIE MICROCOMPUTERS/TRANSMISSION OF DATA	AD	3 N	N		
MEMORY/JOY STICKS/JUMPER SETTINGS/NAND GATE	D	3 N	N		
SWITCHED CAPACITOR FILTER APPLICATIONS	D	6 N		C	
74BCT2420 LOGIC/COMPARATOR/PAL./IEEE/MUX. BUS	D	9 N	Y	C	9
PS./6V BATTERIES/RECORDER/LEHMAN/MOVEMENT/MAGNET	A	7 N	N	C	
PHOTORESISTORS/THERMISTORS/TAPE RECORDER/FREQUEN A		2 N	N		

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510OHM RESISTOR/HIGH-LEVEL OUTPUT CURRENT/74L04	DA	1 N	N	C	
NOR/NAND GATES/4 TRACK/STROBE DISC, OR ANNULUS	DA	5 N	N	C	
HAND-HELD/MEASUREMENT/TEST CAPACITOR/LED. DISPLAY	AD	7 Y	N	C	
OPTICAL SWITCH/ADVANCED LOW-POWER SCHOTTKY/ALS	DA	4 N	N	C	
PROGRAMMABLE PARALLEL PORTS/REPORTING	DA	3 N			
BALLOON/CAMERA MOUNTED/TRIPOD/WIND VELOCITIES	AD	4 N	N	C	
KEY/CAPACITOR/RESISTOR	A	1 N	N		
FREQUENCY-TO-VOLTAGE CONVERTER/OA./TRIACS/SIMPLE	AD	9 N	N	C	
DIODE/NONLINEARITY OF THE JUNCTION CAPACITANCE	AD	5 N	N	C	
TIME/LED./BUZZER/LOW COST/SIMPLICITY	AD	1 N			
WIPER CONTROL CCT		1			
PROGRAMMABLE/MYOELECTRIC CONTROL/SENSORY FEEDBACK	DA	4 N	N	C	
TIMER IC'S/ICOM/ON THE AIR/LED.S/UHF./CTCSS/HAMS	AD	6 Y	N	C	
BCD./LATCHES/LED./DECADE COUNTER/DIGIT SELECTOR	DA	2 N	N	C	
ADJUSTABLE DURATION/OSCILLATORS/PTT./BREAKERS/TTL.	DA	3 N	N		
DIGITAL JOYSTICKS/FIRE SEQUENCE/BUTTON/SWITCHES	AD	4 Y	N	C	
COMPARATOR/SENSOR/AD630/CURRENT DETECTOR/NOISE	A	5 N	N		
OPEN OR SHORTED/6 OR 9VDC. OUT/LED.S/VCO./LAMP	A	3 N	N	C	
TRACKING BEACON/MODEL ROCKET/CHIP RESISTOR	AD	3 Y	N	C	
VIA./PORT/8-CHANNEL/CLOCK	DA	3 N	Y	C	
SENSING/FRUIT HANDLING/TRANSDUCER/FF.S/DMA.	AD	6 N	N	C	
TIME/FREQUENCY DOMAIN/LOSS TANGENTS/AMP.	AD	8 N	N	C	
CW./QUENCH MODULATION/OA./TRIANGLE WAVE GENERATOR	A	6 N	N	C	39
PROBE/ELECTRODE/GAIN ADJUST/MEASURE TEST	A	8 N	N	C	42
ADC./COMPUTER/ENERGY/DETECTORS/LIGHT/COMPUTER	A	4 N	N	C	28
RELAXATION OSCILLATOR/CMOS. OA./GOOD/LINEARITY	A	7 N	N	C	28/42
TELECOMMUNICATIONS/ECLIII BUFFER/ECL.	DA	2		C	
MONOSTABLE PULSE SHAPER/TTL./NIM/PWC/COUNTER/LATCH	DA	7 N	N	C	61
PTT./COURTESY BEEP/AUDIO/CW./AUTOPATCH/ID/TIMEOUT	AD	6 Y	N	C	
LED.S/CUSTOM-PROGRAMMED/UP.S/CHIME/FADING-OUT/TIDE	DA	9 Y	N	C	
LOGIC & TIMING ANALYZER/CHIP TESTER/LSI./PC.-BASED	D	9 N	N	C	
DRIVER PROGRAM/PROCESSORS/MULTIPROCESSOR/LED.S	D	9 N	N	C	
DIGITAL PLL./DPLL UPDATE/DELAY/TAPR/MODEM/FM./MOD.	DA	3 N	N	C	
REED RELAYS/TIMER/DVM./PLATE/CUP/ION BEAM/GASES	AD	4 N	N	C	
LOGARITHMIC/FUNCTION GENERATOR/NON-INVERTING/METER	A	2 N	N	C	
+24V/+21V/BATTERY PS./PROGRAMMING VOLTAGE	AD	5 N	Y	C	
STAYS OFF/DIODES/POWERS DOWN/ON-OFF SWITCH/CMOS.	AD	1 N	N	C	
INTRODUCTION/BASIC DIGITAL LOGIC	A	5			
APPLE II BUS/12-BIT/AF./HIGHER SAMPLING FREQUENCY	AD	9 N	Y	C	
FREQUENCY DISCRIMINATION/FILTER/RAM./MEK6802D-5	AD	9 N	N	C	
INDUCTOR/SERIES PASS TRANSISTOR/CONTROL	A	4 Y			
ISOLATION/ERROR-SIGNAL-FEEDBACK/CONVERTER/SMALL	A	7 N	N	C	
PPI./PIA./UP./TTL. BUFFERS/PWM. OUTPUT/8052AH	D	6 N	Y		
ZENER DIODES	A	1			
RAM. ADDRESS MUX./ROM./MOUSE/PAL.S/DISK CONTROLLER	DA	9 N	N	C	
ROM. EMULATOR/UART./IEEE-488 BUS/CPU./PASS-FAIL	D	3 N	N	C	
FDDI/ETHERNET/TOKEN RING/NETWORK INTERFACES	D	1 N	N	C	
VIDEO AMP./CHARGED PARTICLE TRACKING/FET.	AD	9 N	N	C	
LED./REGULATOR/TRANSFORMER/MONITOR/RECTIFIER	A	5 Y	N		

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RISE TIME IS 35NS/FAST/TIMING/POSITION MEASUREMENT	A	3	N	N	C	61
12-BIT/PROGRAMMABLE CLOCK/APPLE II+	AD	8	N		C	42
BODY SURFACE/RHYTHMIC/STRAIN-GAUGE	A	9	N		C	
ZCD.S/MOSFET. INPUTS/TESTING/PF. MEASUREMENT/AMP.	A	8	N	N		E
SIGN & MAGNITUDE/RESISTANCE-TO-VOLTAGE CONVERSION	AD	4	N	N	C	
ROLL-OFF FREQUENCIES/Q FACTORS/SWITCHED-CAPACITOR	AD	6	Y	Y		
REPLACES CAPACITANCE BRIDGE & LOCK-IN AMP./SQUID.	A	7	N	N	C	39
COILS/EFFICIENCY/RESISTANCE/CURRENT HANDLING	A	1	N	N	C	E
SIGNAL/AGC. THRESHOLD/AFC./10.7MHZ CERAMIC FILTERS	A	3	N	N	C	
8-CHANNEL ADC./RELAYS	DA	1	N		C	
LOW-PASS/AMPLITUDE WINDOW/SH./RECEIVER	AD	9	N	N	C	
POWER-ON RESET/BACK-UP SWITCH-OVER/POWER-FAIL	AD	3	N	N		
WAVEFORM-EQUALIZING/DATA FETCH/DISPLAY	DA	2	N			
MUTE/BALANCED PROD. DET./VHF. TRANSISTORS	A	4	N			
TRACK & HOLD/CLOCK/CARRIER/ANALOGUE SWITCHES/OA.S	AD	3	N	N	C	
ADC.S/CERN./MTPC/WIRES/ENCODERS/MEMORY INTERFACE	AD	6	N	N	C	
HIGH-IMPEDANCE OUTPUT/BUTTERWORTH/TO ~5MHZ	A	1	N	N	C	
IRIDIUM ELECTRODES/TISSUE/STRAY CAPACITANCE/LF.	A	7	N	N	C	
CONCENTRATION/FLICKER/WHITE NOISE/BURR-BROWN	A	2	N	N	C	
TEMPERATURE DIODE/SENSOR/DPM./HEATER TRANSISTOR	A	4	N	N	C	E/61
TMS9901/COMMUNICATIONS-REGISTER-UNIT (CRU) BUS	A	5	N	Y	C	57
UAF42/40KHZ CUTOFF/3 OA. STATE-VARIABLE/VCVS/BBD'S	A	3	N	N		
INDUCTOR/PS./BATTERY-POWERED/PORTABLE EQUIPMENT	A	4	N	N		
INEXPENSIVE/WIDE DYNAMIC RANGE		4			C	
PHASE-SHIFT/OUT-PHASING/MODULATION/EAR	A	5	N		C	
		2			C	
EDGE FILTER/DISPLAY/CAMERA/THRESHOLD DETECTOR	DA	2	N	N	C	
OA./FERROMAGNETIC/FLUXMETER	A	5	N	N	C	
BINARY 1-OF-8 CODE/CHANNEL-SELECT/TV. SET/VCR.	AD	6	N	N	C	
\$17.00/"EARS-FREE" LISTENING/LINEAR POWER AMP.	A	6	Y	N	C	
CMOS./TIMER IC/OA./RESIDUAL C NULL/CALIBRATION	AD	4	N	N	C	
FUNCTION GENERATOR/MEASURING AMP./DETECTOR/DIODES	A	1	N	N	C	
IF. AMP./VFO./PRODUCT DETECTOR/BUFFER	A	4	Y			
AUTOMATIC BALANCING/RECORDER/COMPUTER/OSCILLATOR	AD	8	N	N	C	
DETECTED/FREQUENCY COUNTER/DIVIDER/MICROCOMPUTER	AD	6	N	Y	C	
FREQUENCY/DAMPING CONTROL/OA.	A	8	N	N	C	
CATHODE BIAS RESISTOR/AMP. TUBE	A	4	N			
BIOMECHANICS/CLINICAL INSTRUMENTATION/HIP/KNEE	A	4	N	N	C	
STANDING WAVES/PIEZO BUZZER/SINE WAVE/FOLLOWER	A	7	N	N		
CMOS. 6-BIT/"VIDEO SPEED"/VOLTAGE REFERENCE/OA.	AD	4	N	N		
PUSH-PULL/FINALS/JONES CCT/VIBRATOR/AC. PS./6V PS.	A	3	N	N	C	
TE1/RS-232-C/PBX./MILLCOM/DTMF./UP./MUX./LED./PC.	AD	8	Y	N	C	
HALLOWEEN/DIAPHRAGM/PAPER CUP/SPEAKER/SPRING	A	4	N	N	C	
MUX./DATA BUFFER/SELECT LOGIC	D	8				
DEAD BAND/CHANGES DIRECTION/30DEG/DC. SERVO	AD	6	N	N	C	
CMRR./TRIMMING/IA.	A	1	N		C	
BRUSHLESS/SPEED CONTROL/MOSFET. BRIDGE/POSITION	AD	9	N	N	C	
VFO.S/PINK NOISE GENERATOR/BAND-PASS FILTERS/PC.S	AD	4	N	N		
OSCILLATOR/VOLTMETER/ZENER SHUNT STABILISER	A	2	N	N		94

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UP./MOTOROLA/LATCHES/EIA.-170 & EIA.-343-A/LEVELS	AD	3	N	N	
SHORT/LONG PULSES/DATA STREAM/SOLENOID	D	1	N		C
ADC./ROTATION/ANGULAR VELOCITY/DIP ANGLE/8490HZ	AD	2	N	N	C 58
RADIOS/BINARY PROGRAMMED FREQUENCY SYNTHESIZER	DA	1	N	N	
GAIN OF 16DB/HIGH-SPEED ADC.S/SRAM./8-BIT DAC.	AD	6	N	N	C
CMOS./TTL./TIMING ERRORS/SWITCH-MODE CONVERTERS	DA	8	N	N	C E
AMATEUR/RESONATOR/PLATE/UHF./MIXER/FILTER	A	3	N		
GRID DRIVE CCT/HV./RADIOCHROMATOGRAPHY/DETECTORS	A	4	N	N	C 5/61
HORIZONTAL-SYNC PULSES/NTSC./VERTICAL/LAW	DA	7	Y		C
101HZ TO 202HZ/OA.S	A	8	N		C
5X8/MODULES/SOFTWARE/BASIC/3 PORTS OF AN 8255	D	8	N	Y	
DCL-FILTER/STEP-DOWN (BUCK)/INDUCTOR/VMOSFET.	A	5	N	N	
CROSS SECTIONS/AMP./TDC./CFD./CAMAC/SPECTROMETER	A	9	N	N	
SYNC/VERTICAL/HORIZONTAL/AUTOMATIC/VIDEO	AD	1	N	N	C
ATTENUATORS/RECEIVER/SWITCHING/PHONE/CW.	A	4	Y		
ELECTRICAL/VOLTAGE COMPARATOR/MULTIVIBRATOR/PULSESAD	AD	9	N	N	C E/42
PWM. COMPARATOR/CURRENT MODE/HIGH-CURRENT	A	6	N		C
DEPTH-SOUNDER ALARM/TWILIGHT-TRIGGERED	A	5	N		C
PRESSURE TRANSDUCER/INFLATED-DEFLATED/CAPACITY	A	6	N	N	C
SHIFT REGISTERS/CLOCK CCT/COUNTER/FF./FILTER	DA	2	N	N	C
SIMPLE/FAULT-FINDING/LOUDSPEAKER	A	1	N		
MICROCAP3/LOW INPUT IMPEDANCE/HEAT PULSES/CRYSTALS	A	2	N	N	C
PI-NETWORK TANK CCT/TR./UP./PS./WATTMETER/RF./GRID	AD	5	N	N	
LIGHT/TRANSMISSION/SKIN/FLASH GUN/BEAM/ANIMAL	A	3	N	N	C 25
POSITIONS/TOF. DISTRIBUTION/SENSE WIRE/THRESHOLD	AD	8	N	N	C 61
OSCILLATOR-TIMER/4-STAGE/CMOS./PULSE WIDTH/DRIVER	DA	3	N	N	C
PSEUDO-FRUIT/AGRICULTURAL PRODUCTS/DAMAGE/RECORD	DA	6	N	N	C 4
PTT./METER PROTECTION/RELAY COIL/TUBE/FLASHOVER	A	4	N	N	
AF./20-20000HZ/THD./0.0001%	A	3	N	N	E
LOW SUPPLY VOLTAGE (2V MINIMUM)/OUTPUT SWING	A	1	N	N	
SCALING/OFFSET/FET./CPU./MC68000 UP./RAM./IO./ROM.	AD	3	N	N	C
RMS.-TO-DC. CONVERTER/ATTENUATOR/DIVIDER	A	2	N		C
RAM./DATA TRANSFER/UP./MEMORY	D	2	N		C
256/COMPARATORS/LCC/ECL.-COMPATIBLE/DIGITIZATION	AD	1	N	N	
0 TO 100V/UP./EXERCISE/REHABILITATION/COMPUTER	AD	7	N	N	
LASER/ABSORBANCE/CELL/PLATINUM & GOLD WIRES/AC.	AD	6	N	N	C
INTERFACED TO A HEWLETT-PACKARD 2100 COMPUTER/ADC.	AD	6	N	N	C
INTEGRATION TIME/F-V CONVERTER/SENSOR/AMP./PULSES	AD	9	N	N	C
ADC./RC. CONSTANT/SAMPLING/SNR./DATA/TRANSIENTS	A	5	N	N	C
FET. SWITCHES/VIBRATIONS/ATOMIC IMAGE/ALUMINUM	A	6	N	N	C
MEASUREMENTS/~0.001%/FREQUENCY RESPONSE/TWEETER	A	3	N	N	
DETECTOR/DELPHI/LARGE ELECTRON-POSITRON COLLIDER	AD	9	N	N	C 88
8-BIT MULTIPLIER-ACCUMULATOR/DSP./WAVEFORM MEMORY	D	5	N	N	C
POWER FET./AGRICULTURAL/FENWAL/UUT51J1 THERMISTORS	DA	9	N	N	C
RS-232 PORT/HCS/DECODING/EVENT EQUATIONS/NETWORK	DA	9	N	Y	
PC./MUTUAL INDUCTANCE BRIDGE/PHASE CONTROL/COILS	A	2	N	N	C
VLF./IMPROVED/NOISE ANALYSIS/AVERAGER	A	7	N		C
OA.S/FIA/LPF./REFERENCE DETECTOR/PUMPS/SNR.S	A	6	N	N	C 25
PARALLEL OUTPUTS/BINARY FULL ADDER/DATA	D	4	N	N	

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10MS TO 3NS & 10PF TO 10UF/\$20 TO \$60/DMM./2-PHASE	A	4	N	N	C	
IA./10 ⁻⁸ TO 10 ⁵ S/SHIELD DRIVER	A	3	N	N	C	
STRAIN-GAUGE BRIDGE TRANSDUCERS/DISPLAYS	AD	9	N		C	
CMRR./RESISTOR "BRIDGE" BALANCE/GAIN-CONTROLLING	AD	6	N	N	C	
BUS INTERFACE/CPU./DRAM./BIOS./DMA./POWER SAVING	D	3	N	N		
ABSOLUTE TEMPERATURE/GERMANIUM/SILICON/THERMOMETEA		3	N	N		
GERMANIUM/SILICON DIODE/ANALOG DEVICES/RTD./SENSOR	A	2	N	N		
LOW-TC. THIN-FILM RESISTOR/THERMOMETER/HEATING	A	3	N	N		
VOLTAGE OUTPUT, PROPORTIONAL TO CURRENT/ELECTRODE	A	9	N	N		
EXCESSIVE/TEMPERATURE/LED./FEEDBACK/RESISTANCE	A	9	N	N	C	3
RESISTIVE LADDER/ACIRC/ACNAP/RESPONSES/NETWORKS	A	9	N	N	C	
LAMP/GASEOUS FILMS/MEASUREMENTS/HIGH-GAIN/LANGMUIR	A	5	N	N	C	
VOLTAGE GAIN OF ~200/DPM./FLUX DENSITY/POWER-LINES	AD	3	N	N	C	26
REDUCE NOISE/DYNAMIC RANGE/TAPE/MODEM'S	A	6	Y		C	
SIGNAL-CONDITIONING/AC. BRIDGE		1			C	
TIME-INTERVAL/PRECISION/CAPACITANCE	AD	5				
AIR-TRAFFIC-CONTROL/AERONAUTIC COMMUNICATIONS	A	5	Y	N	C	
SWITCHED CURRENT SOURCE/TRANSISTOR/DIRECTION/LOGIC	AD	1	N	N		
PHOTOTRANSISTOR/MULTIVIBRATOR/FREQUENCY DIVIDER	DA	3	N	N	C	
D'APPOLITO CCT/400HZ LPF./SHELVING EQUALIZER	A	9	N	N		
RIT/AUDIO FILTERING/HARTLEY/TRANSMITTER/RF./DRIVER	A	6	Y	N	C	
VIDEO DIFFERENTIAL AMP./LATCH/LINE RECEIVER	AD	9	N	N	C	
55W OUTPUT POWER/INPUT POWER OF 9.1KW/HV. SWITCH	A	5	N	N	C	
DUTY-SHAPER/VCO./TRIANGULAR PULSES/AUDIO/GATE	AD	1	N	N	C	
VCA./AUDIO/FREQUENCY TRANSLATION/EXTENSION/NOISE	A	8	N	N	C	
EMITTER FOLLOWER/DEMODULATES HF./AUDIO/VARICAPS	A	4	Y	N	C	
MUX.ED/CLAY/LOAM/FILTERS/WATER CONTENT/GRAVIMETRIC	AD	4	N	N	C	
VOLTAGE/CURRENT/BIAS/RESISTANCE/SIGNAL TRACING/AF.	A	3	N	N		
ETALON/MIXER/PHOTODIODE/AMP./LASER	A	9	N		C	
50OHM/IMPULSES/POISSON/FILTER/DECISION CCT/LED.	A	5	N	N	C	
PEAK LEVEL DETECTOR/PINK NOISE/BARGRAPH	AD	5	N			
LEAKY/TEST CABLES/INSULATION/DIODES		6			C	
DCVM/DICM/CCM/DQRM/DIODE/TRANSISTOR SWITCHING	A	9	N	N	C	
MEASUREMENTS/ELECTROSTATIC/ADC./COMPUTER/TIME	A	7	N	N	C	
SO ₂ /SINE-WAVE GENERATOR/FLOW METER/ELECTRODES	A	9	N	N	C	
EVEN-ORDER/SYMMETRICAL/TRANSIENT	A	7	N		C	
SIEMENS/PEC/CURRENT PROPOTIONAL/CELL/ABSORBANCE	A	5	N	N	C	
PUSH-PULL CCT/LINK/VFC./PHASE SPLITTER/IR./11KV	A	7	N	N	C	
CIRCULATION/ELECTRODE/PRESSURE TRANSDUCER/CRABS	A	9	N	N		39
PEAK/FREQUENCY DOUBLER/ZCD.	AD	4	N	N	C	
SCHMITT TRIGGER/SIMPLE/\$3-\$4/PWM./LPF./COMPARATOR	A	1	N	N	C	
VOLUME ABSORBING GLASS/HEAD/BRIDGE	A	2	N		C	
MUX./INTERFACE/GAIN ADJUSTABLE/LPF./CUT-OFF/24.8HZ	AD	5	N	N	C	42
POLARIZATION REVERSING/ELECTRIC FIELD/RELAY	AD	3	N	N	C	
POLARISED SNUBBING NETWORK/CONSTANT SPEED/60KW	A	9	N	N	C	
DIFFERENTIAL CHARGE AMP./SH./FILTER	AD	7	N	N	C	
BROADBAND DETECTION/DRIFT-MODE	A	8	N		C	
COUNTER/NIM MODULE/FAST/STABLE/MOISTURE GAUGE	AD	4	N	N	C	
SERVO SYSTEM/MEASURE/SMALL DISPLACEMENTS	A	7	N		C	

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RF. APPLICATOR/DC. PREAMP.S/EM./REFLECTOMETER	A	4	N	N	C	
MAGNETOMETER-LIKE RESPONSE/VLF. FIELDS/QUAD OA.	A	3	N	N	C	39
CAD. SOFTWARE/SOA.S	A	6	N			
OPTO-ISOLATOR/DARLINGTON PHOTOTRANSISTOR/TTL.	DA	9	N	Y	C	
COIL/SPARK PLUG/MULTIVIBRATOR/250V/63MJ	A	2	N		C	
ELECTRICAL/KEY PAD/2-MICROELECTRODE	AD	9	N		C	
12MA/PLESSEY/LECROY/SHOWERS/PHOTOMULTIPLIERS/ADC.	AD	8	N	N	C	E/12
FREQUENCY RESPONSE/PCB. FOIL PATTERN		2	Y			
VU METER/PEAK-PROGRAM/AMP.S/LEVELS	A	4	N		C	
TRANSFER/VCO./SWITCHING/TURNTABLE/SYNTHESIZE/SINE	AD	9	Y	N		
READOUT/DETECTOR/EM. SHOWERS/CALORIMETERS/ADC.	AD	7	N	N	C	12
ANALOG RECORDS/RIAA NETWORK/PRE-EMPHASIS CCT/CAD.	A	6	N	Y		
OPTICAL WEDGE/CAMERA/DENSITY/LIGHT INTENSITY	A	2	N	N	C	
ELECTROMAGNET/COMPUTER/12-BIT ADC./PWM./STEEL BALL	A	9	N	N		
XLOGGER/DATA LOGGER/ACCURATE/0% TO 95%/OSCILLATOR	A	4	N	N		
WAVES/BRAIN/7HZ TO 14HZ/STRESS/RELAX/STIMULATION	A	6	Y	N	C	
FEEDBACK/DISTORTION/LED.S/LOAD/SPEAKER/SANS FAN	A	9	Y	N		
CHARACTERS/LETTERS/FF./BISTABLES/XOR GATE/SWITCH	DA	4	N	N		
MEDICAL/TRANSFORMER/OA./CONSTANT-CURRENT/CANCELINCA	A	2	N	N	C	
VIBRATING TABLE/DISSIPATIVE MECHANICAL SYSTEM	AD	5	N	N	C	
EAVESDROP/LONG-RANGE LISTENING/MICROPHONE/3-STAGE	A	3	Y	N	C	
GAS/IRON/DENSITY GRADIENTS/DRIVER/TEMPERATURE	A	5	N	N	C	
FREQUENCY METER/OSCILLATOR/AUDIO SIGNAL GENERATOR	A	2	N	N	C	
TEMPERATURE COMPENSATION/SCINTILLATOR/R2107/TUBES	AD	4	N	N	C	
CONTAINERLESS/ELECTRODES/VACUUM	AD	9			C	
CAPACITOR/RESISTOR/COMPENSATION/FREQUENCY RESPONSE	A	5	N	N	C	39
CODES/ELECTROLYTIC/CERAMIC DISC/PLASTIC-FILM/MICA	AD	5	N	N	C	
E-FIELD RECEIVERS/NF./INDUCTIVE REACTANCE	A	2	N	N		
DEGREES CELSIUS/FAHRENHEIT/THERMAL	AD	2	N		C	
MULTIPLE-BUS REGISTER & ALU./MICROPROGRAMMABLE	D	2	N	N	C	
LOW DROP-OUT VOLTAGE REGULATOR/DIVIDE-BY-8192	DA	1	N	N	C	
GERMANIUM/DETECTOR/CRYSTAL EAR PHONE	A	1	N			
COMPARATOR/DOUBLE-BALANCED DEMODULATOR	AD	5	N		C	
ABILITY TO ZERO/VOLTAGE DIVIDER/TRIMMER/SIMPLE	A	1	N	N	C	
SH.ER/13.5KHZ/RAM./ROM./LPF.ED/IO./LATCH	AD	4	N	N	C	16
SIGNAL PROCESSING/SEISMIC/MONITORING/ADC./FFT.	D	7	N	Y	C	
CAPACITANCE/OA./BIAS CURRENT/PS./COMMON-MODE RANGE	A	2	N	N	C	
SPEECH IS DETECTED/TRANSISTORS/VOLTAGE-DOUBLER CCT	A	2	N	N	C	
UNUSUAL/DIPOLES/AC./HV./AUDIO TRANSFORMER/HEATHKIT	A	3	Y	N	C	
OPTOCOUPLER/SWITCH/RELAY/OA./TRANSISTOR/COMPARATO	A	2	Y	N		
DEVELOPER/8TH ORDER/TIMER/MICROCONTROLLER/DEVCOMMAD		8	N	Y	C	
HF./POWER-TRANSISTOR-BASED/PULSE GENERATOR/LOGIC	AD	9	N	N	C	
500MAH PACKS/TRANSMITTER/RECEIVER/LED./TIMING	A	4	Y	N		
DELAYED SWITCH-OFF/ZERO-VOLTAGE/PULSES/PREAMP.S	AD	4	Y	N		E
REFERENCE/BATTERY/SUBTRACTS 10V/COMPARATORS	AD	2	Y	N	C	
OSCILLOSCOPE/SPEECH-RECOGNITION/SCANNING	DA	9	N		C	
8-BIT PARALLEL LATCH/CASSETTE/APPLESOFT BASIC	DA	1	N	N	C	
VSWR. INSTRUMENT/MOVING COIL METER/PS./TRANSCEIVER	A	2	N	N		45
PITCH/CONTROL/CW.-FILTER SWITCHING	A	3			C	

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DIP. SWITCH/DRIVESHAFT ROTATION/VEHICLE/4 MAGNETS	DA	8 Y	N	C	
GREEN/RED/1 IC/ALL FUNCTIONS/NEAT/INPUT	A	1 N	N	C	
SAVES/RAM. TO DISK/AM. RADIO/DETECTOR/CONTROL/RF.	AD	9 Y	N		
CATHODIC SPUTTERING/SNR./CFS/LIGHT/HV. PS./FLAME	AD	9 N	N	C	12/42
BATTERY-OPERATED EQUIPMENT/GOOD GAIN/AC. GROUND	AD	1 N	N	C	
EFFICIENCY (70-90%)/ADJUSTABLE/52KHZ OSCILLATOR	A	3 N	N		
50OHM/SCALAR NETWORK ANALYSER/VHF./VSWR./DC./RF.	A	4 N	N	C	
10V BIAS/100 FOR 11V INPUT/UP TO 500	A	1 N		C	
MICROCONTROLLER/RECEIVER/TRANSMITTER/PHILIPS/UART.	DA	4 N	N		
BRUSHLESS DC./DECODER LOGIC/SENSORS	AD	7		C	
TRICOLOUR LED./GREEN/NORMAL/YELLOW/WARNING/SWITCH	A	2 N	N		
0.5-200MIN/0.4-300HZ/DC. PS./MEASUREMENTS/FEEDBACK	AD	3 N	N	C	
COIL/DC. RESISTANCE/LENZ'S LAW/SUMMING AMP./LIGHT	A	2 N	N	C	39
QSK/PEAK-READING/240VAC./POWER	AD	8			
PASS TRANSISTOR/DUAL COMPARATOR/EFFICIENT/DIVIDERS	A	3 N	N	C	
LADDER CURRENTS/MOSFET./500V/COMPUTER/SUPPLIES	AD	4 N	N	C	
LOW-COST INSTRUMENT/PS.S		3			
		1		C	
CBD/VCO./MARGINAL OSCILLATOR/FREQUENCY LOCK	A	4 N	N	C	
ELECTRODE-TO-SKIN CONTACT MONITORING/EEG./OA.	A	8 N	N	C	
CHARGER/SOLAR-CELL/PIEZOELECTRIC BUZZER/NEC/RAM.	A	5 N	N		
FROM <1MM/HIGH DYNAMIC RANGE/38MV-MM/FOLLOWER	A	2 N	N	C	
WIND-CHILL FACTOR/TRANSISTOR/BLOWS/MOVING AIR	A	4 Y	N	C	
PAL./TEXAS INSTRUMENTS/MICRON/CYPRESS/BUFFERS	D	1 N	N	C	
ZENER DIODE/LEAD-ACID STORAGE BATTERY/12V/PS.	A	5 N	N	C	
POWER MOSFET./400MW AUDIO AMP./KEY THE TR. RELAY	A	3 Y	N	C	
PHASE DETECTOR/INDUCTION MOTOR	A	1			E
BERYLLIUM/WINDOW/TOKAMAK/DELAY LINE	A	5 N		C	
EARTHQUAKES/COMPUTERS/RANGE/OFFSET/GAIN/BASIC/ADC.	A	3 N	N	C	
CYCLOCONVERTER/AC. SUPPLY/LOGIC CCT/GATE PULSES	AD	9 N	N		
MULTIPLE-HORSEPOWER/LINE VOLTAGE/FUSE/CURRENT	A	5 N	N		
NONINVERTING FOLLOWER/AC./LOUDSPEAKER	A	3 N		C	
EPROM./FF./DECODER/PROGRAMMABLE/SCSI.	DA	4 N	Y	C	
PLL./VCO./SIGNAL CONDITIONER/PC. INTERFACE/UP. BUS	AD	4 N	N	C	
TD/AIR-FLOW SENSORS/AW/LINEARISING RESISTOR	A	4 N	N		
IC/BETTER RESULTS/CAPACITOR/GAIN/SOUND/EARPHONE	A	2 N	N	C	
COMPARATORS/OA.S/FEEDBACK LOOP/HYSTERESIS/MUX.	AD	2 N	N	C	E
ZCD./COMPARATOR/OPTOCOUPLER/FLYBACK CONVERTER/GT(AD	AD	8 N	N	C	
CONVERTED TO TTL./PULLUP CCT/T-FORMAT/OPTICS/SNR.S	DA	5 N	N	C	
RADIO/MOBILE/VHF. TRANSCEIVERS/INPUT ATTENUATOR	A	2 N	N		
TANK CCT/SCR., GTO./THYRISTORS/PLL./RESONANT/PS.S	AD	9 N	N	C	
TIMER/AF. OUTPUT/RF. AMP./318MHZ OSCILLATOR/TUBES	A	9 N	N	C	
ASTABLE SIDETONE OSCILLATOR/RETRIGGERABLE "1-SHOT"	A	4 Y	N		
CURRENT-VARIED NETWORKS/HIGH CURRENT	A	2 N		C	
SIGNALS/FREQUENCY CALIBRATION/AMATEUR BAND	A	1 N	N		
GERMANIUM DIODE/PROBES/VOLTAGE DIVIDER/TRANSMITTER	A	4 N	Y		
LIMITING DIODES/INPUT IMPEDANCE OF 30OHM/CHARGE	A	4 N	N	C	
DETECTOR DIODES/GLOSSARY/DETECTION/AGC.	A	3 N			
BANDPASS FILTER/REDUCE INTERMODULATION	A	2 N			

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TINY/METER/RF./AMATEUR/MINIATURE/GERMANIUM DIODE	A	4 Y	N	3
DIODES/NPN/PNP/FORWARD BIAS/PN JUNCTIONS/DOPED	A	4 N	N	
WAVESHAPES/DC. CONTROLLERS	A	1		
SIMPLE/HAND-HELD/TRIMMER/0-5V/BETWEEN 10 & 15VDC.	A	1 N	N C	
FIRED/PULSE/SILICON CONTROL RECTIFIER/SWITCH	AD	6 N	N C	39
MEASUREMENT/PRESSURE/TEMPERATURE/ADC./INTEGRATOR	AD	3 N	N C	
VOLTAGE/HIGH-GAIN PREAMP.S/PHONO	A	2 Y		
CONSTANT-CURRENT/CONSTANT-VOLTAGE	A	6 Y		
COIL/FS/RF./RIG/ACCESSORIES/CRYSTAL/NULL/ANTENNA	A	5 Y	N	
TURN-ON TIME/PARAMETERS/DISCHARGE OF CAPACITOR	A	9 N	N	
DIFFERENTIAL AMP./PSRR/POWER AMP.S/PS. IMPEDANCE	A	8 N	N	
CONTINUOUS/VACUUM VARIABLE CAPACITORS/HV. SWITCH	A	7 N	N	
DIODES/PS./ELIMINATING CURRENT-LIMITING DEVICES	A	2 N	N	
ANEMOMETER/MULTIPLIER/DIVIDERS/TTL./\$200	D	8 N	C	
LOGARITHM BASE/E/CONSTANT CURRENT	A	2 N	C	
HARMONIC/ZENER DIODE/LPF.	A	5		
SPICE SIMULATION/PROGRAM/PWM./MISSCO/MODELLING	A	5 N	N C	
60HZ SIGNAL/FM./NOTE/INCIDENTAL PHASE/JITTER	A	1 N	N	
CLASS C/TUNED CCTS/10W OUT WITH 2W INPUT/WHIP	A	1 N	N C	
CURRENT GENERATING/MONITORS/GATE	A	2	C	
CURRENT MIRRORS/CONSTANT CURRENT DIODE	A	2 N	C	
LOW NOISE/DISCRIMINATOR/GAUSSIAN/LED.S	A	9 N	C	
ENTRANCE/DOOR ANNUNCIATOR/TUNED/INTRUDER/PROTECT	A	3 Y	N C	
OPTOISOLATOR/TTY/TELETYPEWRITER/MICROCOMPUTERS	DA	9 N	Y C	
FILTER/INDUCTOR CORES/KEYING IS CLEAN/12.8V SUPPLY	A	1 N	N	
15V TO A 50OHM LOAD/RISE TIME OF 70PS/REFLECTION	A	4 N	N C	
TO 18GHZ/X-BAND SLOTTED WAVEGUIDE/CALIBRATION	A	5 N	N C	
CHIRP/SWITCH/TRANSMITTER/RECEIVER PLATES/MOSFET.	DA	6 N	N C	
CRYSTAL/RIG/AMATEUR RADIO/MFJ 20M TRANSCEIVER/HF.	A	5 N	N	
DRIVING MULTIPLE VGA MONITORS/SPLITTER/SYNC/RGB.	A	2 N	N	
EACH DC. SUPPLY LINE IS FUSED/PROTECTION/NEON BULB	A	4 N	N	
FILTER CAPACITOR/PASS TRANSISTOR/CATHODE	A	1 N		
FM. TRANSMITTER/BC.ER/RECEIVER/LISTEN/RADIO	A	2 N	N C	
RECEIVER/INTERMODULATION/QRM/CW./AMATEURS	D	2 N		
300HZ LPF./PROTECTION FROM 220VAC.	A	7 N	N C	
THYRISTOR/BATTERY/FERRITE TRANSFORMER/TRANSISTOR	A	4 Y	N C	
RESISTORS/+5V SUPPLY/SIMPLIFICATION/SWEEP BLANKING	A	1 N	N C	
CONSTANT INPUT IMPEDANCE/COMMON-BASE/EMITTER/SWINGAD	AD	1 N	N C	E/5
15-0V/HIGHER CURRENT/SIMPLE ANALOG TRANSISTOR CCTS	AD	6 N	N C	42
LC.-TUNED TANK/CAPACITANCE/PN JUNCTION/RF./LO./TV.	A	7 N	N C	
RF. POWER METER/BIRD/COUPLER	A	5		
PIEZOELECTRIC BUZZER/PROJECT	A	1		
RF.-MEASUREMENT/GRID-DIP METER/COUNTER	A	7 N		
REFRESH/GENERATES/DATA/INTERFACE/CONTROLLER	DA	1 N	N C	
SCR./DRY STAGE TRIGGER/FURNACE ATOMIC ABSORPTION	AD	9 N	N C	25
OPTOCOUPLER/TRIAC/PB LINE/64, 128 & VIC-20/LED.	AD	4 N	Y	
DAC./NCO/NUMERICALLY CONTROLLED OSCILLATOR/SPURS	AD	5 N	N C	
IA./CRYOSTAT/TEMPERATURE/CONSTANT CURRENT SOURCE	DA	8 N	N	12
180KHZ/150KHZ/DX/RF./<\$20/10.7MHZ/RIPPLE/TEST CCT	A	4 N	N	94

Sheet1

CVBS/CHROMA, VIDEO, BLANKING, SYNCHRONIZATION/RGB.	AD	3 N	N	
50OHM/PARALLEL PLATE AVALANCHE COUNTER/PPAC	A	9 N	N C	
PMT./IMAGING TELESCOPE/PULSE SHAPE DISCRIMINATOR	AD	4 N	N C	12/16
DIODES/FOR PROTECTION/PORT/EYE/RECEPTORS/MONDRIAN	A	5 N	N C	
SIMON PROBE/LINEARITY/IMAGE/REFLECTION/LIGHT/330HZ	A	5 N	N C	
TEMPERATURE-STABLE/HIGH-ACCURACY/AUDIO WORK/AC.	A	2 N	N C	
FREQUENCY/TANK/RF. CHOKES/LOCATING POWER LINES	A	3 N	N C	
		1	C	
POSTACCELERATOR/NBI TANDEM/SMITH CHART/RESONANCE	A	6 N	N C	12
PUSH-BUTTON/APPLESOFT BASIC/MOMENT OF INERTIA	AD	2 N	N	8
25OHM TRANSMISSION-LINE/FISSION COUNTERS/FEEDBACK	A	3 N	N C	
PHASE ERROR/SHIFT/MAGNITUDE/MATCHED OA.S	A	9 N	N C	
RF. CHOKES/FUNDAMENTAL CRYSTAL/TOROIDS/KIT/AMP.	A	5 Y	N	
COMPUTER/MULTIPLE SHIELDING/BRASS/STAINLESS STEEL	AD	9 N	N C	25
POWER TRANSISTOR/IMPEDANCE/HARTLEY OSCILLATION	A	5 N	N C	25
MULTIPLIER-SINEWAVE-SHAPER/VCO./DPDT. PUSHBUTTON	AD	7 Y	N C	
SUPERCONDUCTIVE MAGNETIC ENERGY STORAGE/GTO./SCR.	A	8 N	N C	
SWITCHED-CAPACITOR/TV. CRYSTAL/3.579545MHZ/SHARP	A	2 N	N C	
LOADS/SMPS.S/MOSFET.S	A	7 N	C	
SIT DRIVE CCT/HF. HIGH-POWER/COMMUTATION/MOSFET.S	AD	7 N	N C	
SUN FINDER/ENERGY/COLLECTOR/SENSORS/8080-BASED	AD	8 N	N C	
VOCABULARY/ADC./ANALOG/LPF.	DA	9 N	C	
CS8412 DIGITAL AUDIO RECEIVER/64X OVERSAMPLED/LPF.	AD	2 N	N C	
BENEFITS OF SUPERMINI/MAINFRAME	D	7		
BJT.S/GAAS. LED./COMPUTER DESIGN/SIMULATION/IC	AD	7 N	N C	
Q CONTROL/CONTROL SUMMER/ON-CHIP RESONANCE CONTRCA	A	3 N	N	
1MHZ/QUADRUPLE POWER DENSITY	A	7	C	
TRANSMISSION LINES/WILKINSON DIVIDER-COMBINER	A	8 Y	N	
ULTRASOUND/750KHZ/HYPERTHERMIA/3-D ACOUSTIC FIELD	AD	7 N	N C	
CHEWING/HIGH-CUT FILTER/LOW-CUT/MOVEMENT	A	5 N	C	
PHASE INVERTER/OA./DRIVE/RADIO-CCT/CANCEL/NULL	A	1 N	N C	
INTEGRATOR/WIDEBAND/FAST SETTLLING/DC. STABILITY	A	5 N	N C	57
FEEDBACK/DC. RESTORATION LOOP/FET./20MHZ/BW.	A	1 N	N C	26
AMP./PS./LOUDSPEAKER	D	3 N		
PRESET DC.		1	C	
PROCESS-CONTROL/DIRTY GROUND/FAR	A	8	C	
DIGITAL DOWN-CONVERTER & CARRIER TRACKER/FILTER	DA	5 N	N C	98
50W CORE/VARIABLE/LEVEL-SHIFTING TRANSISTOR/DIODES	A	1 N	N C	
REFERENCE CURRENT/SUMMING JUNCTION/50KHZ/SWITCH	AD	1 N	N C	
BUS CONTROLLER-RT-MONITOR TERMINAL/MILITARY	D	5 N	N	57
CANCELS/BASE-CURRENT-INDUCED ERROR/HIGH/IMPEDANCESA	A	3 N	N C	
RAPIDLY SWITCHABLE/RELAXATION/PROTONS	A	4 N	C	
SIGNAL MUX.S & RATEMETERS/FAST/CHERENKOV LIGHT	DA	9 N	N C	
CURRENT/OA./TIME-DELAY CCT/SCR. DRIVER/ZENER DIODE	A	3 N	N	
ADJUSTABLE SPEED AC./DSP./COMPUTER/UP.S/TMS320C25	A	9 N	N C	
250NS CYCLE TIME/INSTRUCTION/UP.	D	6 N	N C	
S-PARAMETERS/STABILITY/CAE. SOFTWARE/GAASFET.	A	5 N	N C	
AMPLITUDE TUNED/IF. TRANSFORMER/ICP.-MS./ELECTRODE	A	9 N	N C	28
SOURCE FOLLOWER/TRANSISTORS/TETRODE/CERAMIC/HV.	AD	5 N	N C	

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ASCII./UART./NUCLEAR DATA/TALLY/PUNCH	D	2 N	C	
TRAIN OF PULSES/TIME-DIVISION MULTIPLIER/WAVEFORMS	A	6 N	N C	
CLOCK/OSCILLATOR/MSI./CMOS./RIPPLE	D	2 N	C	
FREQUENCY LOCKED LOOP/FLL/10KHZ IF./LPF./SATELLITE	DA	3 N	N C	
OUTPUT SUMMER/2ND-ORDER ALLPASS NETWORK/DETUNING	A	2 N	N C	
MONOSTABLE/MEMORY TRANSFER/5MHZ CLOCK	D	5 N	C	
4 CHANNELS/COMPUTERS/XON-XOFF/LED.S/HANDSHAKING	DA	7 Y	N C	
ASYNCHRONOUS SEQUENTIAL CCTS/RACE-FREE/MULLER CCTS	D	5 N	Y C	
CLOCK/DAC./BOUNCE/LOGIC/SOLENOID/DECODER	D	4 N	C	
FERMENTATION/OA./RESISTOR/TRANSISTOR/REACTOR	A	1 N	N	E
DOS.-BASED/DATA/WINDOW DISCRIMINATOR/AM9513/TIMING	DA	7 N	N C	
BIASED AT 430MHZ/FULL-BW. FLUX-LOCKED LOOP	A	6 N	N C	
HIGH/BOOSTED OUTPUT CURRENT/INVERTING AMP.S	AD	5 N	N C	
256X4 BIT/MEMORY/STROBE PULSE/ADDRESS COUNTER	D	1 N	N C	
REED SWITCH/VALVE/REGULATOR/TEMPERATURES	A	2 N	N C	
LED./PROPORTIONAL TO THE SINE OF THE PHASE ANGLE	A	2 N	N C	14
MULTIPLIES/POWERS/ANALOG COMPUTER	A	7	C	
30KHZ/LARGE DYNAMIC RANGE/100:1/CD/POLARISATION	A	2 N	N C	
ELECTROGENERATOR/PUMP/START ORDER	D	1		
COMPARATOR/ANALOGUE SWITCHES/OA.S/MONOSTABLE	AD	7 N	N C	
SOLENOID/FF./TTL./NAND GATE/SCHMITT TRIGGER/COLD	DA	3 N	N C	
POLE-ZERO FILTER/2ND-ORDER/SYNTHESIS/S-PLANE	AD	8 N	N C	
POURING LIQUID/GLASS/CUP		1		
SHIFT REGISTER/CODE WHEEL/COUNTER	D	3		
PULSE GENERATOR/LOGIC CONTROL/DIGITAL READOUT	DA	9 N	N C	
ERROR CORRECTING CODES/BINARY//INFORMATION/COMPUTE	D	9 N	N C	
PROBE/VOLTAGE DIVIDER/LED./STAINLESS STEEL TUBE	A	1 N	N C	
PAGING/REPEATER/MUX./COUNTER	DA	4 N		
INSTRUMENTATION/OPERATIONAL/HEATER	A	2	C	
PHA./ADC./FF./CPU./EISA BUS/PC./OSCILLATOR/COUNTER	D	9 N	N C	
HI-MU TRIODE/PS./HV./METERS	A	4		
VOLTAGE-CONTROLLED WAVEFORM GENERATORS/SINE WAVE	A	2 N	N C	
SOUND/OSCILLATOR/ONE-GATE/SPEAKER	D	1 N	C	
IBM PC.-COMPATIBLE/ADAPTERS/CGA/MDA/VGA/CPU.	D	5 N	Y	
DISCARDING LEFT-RIGHT INFORMATION/HADRON/WIRE	A	8 N	N C	
ASYNCHRONOUS/CLOCK TRANSITION/OVERRIDES/NATIONAL	D	2 N	N C	
FOR ENERGY-TO-POWER CONVERSION/1HZ/ACCURACY/~99%	DA	1 N	N C	
2-TO-9KHZ FREQUENCY SYNTHESIZER	AD	4		
60HZ INPUT/MONOSTABLE/DATE/AC./1-SHOT-DEBOUNCE CCT	DA	4 Y	N C	
SERIAL PORT/RS-232C/DUT./DIGITALLY/COMPUTER/IBM	DA	9 N	N C	
IDENTIFY/BASE UNIT/SECURITY/DIAL-PULSE COUNTER	DA	7 N	N C	
LATCH/BIDIRECTIONAL/DATA TRANSFER/MICROCONTROLLERS	D	2 N	Y C	
PAL.S/RAM./LED. FLASHES/UP./SELECT SWITCH/ICE.	DA	8 N	N	3
CARS/TUNE SIGNAL/SOUNDS/ALERTING/NUMBER OF FLASHES	DA	2 N	N C	
INTERRUPT/TACHOMETER/RPM./ENGINE SPEED	D	2 N		
INTRUDER/SENSOR/4MIN TURN-OFF DELAY/CMOS./BUZZER	DA	5 N	N C	
DIGITAL LOGIC/TTL./CMOS./TRANSISTOR	D	1 N		
AGC. LOOP/VOLTAGE/200 & 400MHZ/GAIN-CONTROL CCT	A	2 N	N C	
HIGH-SPEED COUNTING/PRESCALER/HIGH IMPEDANCE/SLOW	AD	7 N	N C	

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CLEANLY SWITCHED VOLTAGES/FASTER/HIGH-DENSITY/DATA	DA	7	N	N	C	
CHARGE-TRANSFER/DETECTOR/MULTI-ELECTRODE/POTENTIAL	A	9	N	N	C	25
BELL/MEMORY/2716/EPROM.S/ZIF. SOCKET	D	2	N			
MEMORY/2716/2516/2732/2532/2764/27128	D	1	N		C	
ZIF. SOCKET/WRITE CYCLE/DATA/RAM./ADDRESS	D	2	N		C	
KEYPAD LOCK/UNLOCK/ARM DELAY		1			C	
DIGITAL DIAL/NEAREST 100HZ		7				
		1				
RF. TRIMMERS/TOROID/MIXER TRANSISTOR/CRYSTAL	A	3	N	N		
POWER AMP./PS./HV. DIVIDER/MONITOR/SPARK DETECTION	A	3	N	N	C	
TTL./CAPACITOR/INVERTERS/FORMULA	D	1	N	N	C	
SOLDERING IRON/60HZ/LOADS/NAND GATE OSCILLATOR	AD	4	Y	N		
PMC/LED.S/EPROM./DTMF. DECODER/8-BIT UP./REMOTE	DA	4	N	N		
DISPLAY/KEYBOARD ENCODER/OA.S/0.0001%/18-BIT	DA	1	N	N		
1000V/FLYBACK/SINGLE-SHOT/BRIDGE/VOLTAGE DIVIDER	AD	1	N	N	C	
HEX BUFFER/GATE/FULLY TURNS ON/CHARGE TRANSFER	DA	1	N	N	C	E
SOFTWARE LISTING/DMA./UP.	D	2				
EASY TO USE/HORN DELAY/PIEZO/BUZZER	D	4	Y			
BILATERAL SWITCH/CLOCK/TIMER/CMOS./DC. AMP.S	AD	3	N	N	C	
POSITION/CMOS./DIVIDE-BY-10 COUNTER/RC/LOGIC	DA	3	N	N		
UNIDIRECTIONAL OPEN-LOOP CONTROL/PIA./ADC./AD574A	AD	8	N	Y	C	
CPU./STORAGE/IO./ADC./8255 PPI./~\$200/PREDICTOR	D	9	N	N	C	
SCHEMATIC ERROR	DA	1	N	N	C	
COLOR TV./DPDT./VIDEO SIGNAL/BUFFERING/SCREEN	DA	2	N	N	C	
1-CYCLE RESOLUTION/60HZ/OFF/LOAD/VARIABLE NUMBER	AD	1	N	N	C	E
500MA/50OHM LOAD/PULSED/PSD.	A	4	N	N	C	
PULSES AS SHORT AS 2US/PS./TTL./OPTOISOLATORS	AD	9	N	N	C	
RING-DETECTOR CCT/LINE-CURRENT DETECTION/RELAY	A	7	N	N	C	
0.0075%/IM DISTORTION		3				
LOGIC/MULTICHANNEL SCALAR COUNTER/ACE-MCS/PC.	AD	4	N	N	C	
IO. PORT SELECTION/POWER DRIVER/AC. LINE	DA	7	Y			
9V BATTERY/SWITCHES/HOME-SECURITY/SOUND/FOIL TAPE	A	3	Y	N	C	
TRIODE-CONNECTED, CATHODE DRIVEN/METERING & BIAS	A	5	N	N		
ANALOGUE COMPUTER/TRANSFER FUNCTION/OSCILLOSCOPE	AD	1	N	N	C	
LIMITER/FREQUENCY-TO-CURRENT CONVERSION/CLIPPER	A	1	N	N	C	
DASH-8 A-D CARD/RAM./DC. POWERED/SOIL PROPERTIES	AD	6	N	N	C	16
DRAFTING ERRORS	D	1	N	N	C	
LOG AMP./PHASE MATCHING/OA.S/GAP/SLOPES/ERROR	A	3	N	N	C	
CMOS. SRAM. CHIPS/DISK DRIVES/55NS	D	8	N		C	
15HZ/SAWTOOTH-WAVEFORM/PULSE-WAVEFORM	A	1	N		C	
RAM. INTERFACE/TRICKLE CHARGER	D	9				
	A	2	N	N	C	
LINEAR-TO-LOGARITHMIC CONVERTER/BATTERY TESTER	AD	5	N	N		69
TRANSFORMER/CHARRON RING/PLATFORM/MAGNETIC FIELD	A	2	N	N	C	
OPTICAL/GRATING SCANNER/MOD.S/HF & DF/SCREEN/BEAM	A	3	N	N	C	
MEASURE VISUAL REFLEXES/MICROCOMPUTER/COLORIMETRY	AD	6	N	Y	C	
LPF./OA.S/HIGHLY STABLE & LINEAR/15UH TO 150MH	AD	4	N	N	C	
SCREEN-GRID/TETRODE/VARIABLE-MU TUNE/ELECTRON FLOW	A	3	N	N	C	
CONDUCTANCE/CAPACITANCE/50HZ-1MHZ/DAC./BIAS LEVELS	AD	7	N	N	C	25

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SMALL/DC. OUTPUT/SONALERT/DC. PS./117VAC.	A	2	N	N	C	
HV. CCT/TRANSIENT WAVEFORM/POWER DISSIPATION	A	6	N	N	C	
MEASURE/ADAPTATION/VARYING/PULSE WIDTH/RED/GREEN	D	7	N	N	C	
FAST/CPU./ADC./INTERFACE/SYNCHRONOUS/DUAL-PORT	DA	5	N	N	C	
READ/DRIVER PROGRAM/PERSONALITY MODULES	DA	9	N	Y	C	
COMPUTER/RS-232C/LOAD TIMING/FIRMWARE/2400 BAUD	DA	5	N	N	C	
Z8-BASIC MICROCOMPUTER/READ-MODE/WRITE-PROGRAM	D	9	N	Y	C	
CPU./CHARACTER GENERATOR/SETS/Fonts/SCREEN/DMA.	D	9	N	N	C	
INTERFACE/MICROCOMPUTER/UART./HANDSHAKING	D	9	N		C	
INTEGRATOR/DIFFERENTIATOR/HEATER/STABILITY OF 2MK	A	4	N	N	C	
MEASURING THE SPEED OF DATA TRANSMISSION/TIMER	D	6	N	Y	C	
SERIAL-TO-PARALLEL & PARALLEL-TO-SERIAL CONVERSION	D	4	N	Y	C	
DETECTOR/BACKGROUND RADIATION/RESISTANCE/OA./IR.	A	2	N	N	C	
FLUIDS/PROGRAMMABLE TIMER/THUMBWHEEL	DA	1	N		C	
SHORT-CCT/OVERLOADS/"FULL PROTECTION"/PROGRAMMED	A	2	N	N		
FIELD-PROGRAMMABLE LOGIC SEQUENCER/TRANSCEIVERS	D	7	N	N	C	
FEEDBACK/COLPITTS/FREQUENCY MULTIPLICATION/TTL.	A	5	N	N		E
VCO./VFC./F-V/DIVIDER	DA	8	Y	N		
PERMANENT RECORD OF AURORAL ACTIVITY	A	4	N		C	
THYRISTOR/JFET./PULSE GENERATOR/DUT./VMOS./ENERGY	A	4	N	N	C	
HEATING ELEMENT/AIR CONDITIONING/BRONCHIAL	A	7	N	N	C	
DYNODE/ANODE/LINEARITY TESTING/STATIONARY CURRENT	AD	4	N	N	C	
CHEAP/CMOS. QUAD AND GATE/TRANSISTOR/MORSE CODE	DA	2	N	Y	C	
UP.-BASED/EDGE-DIFFERENTIATOR	D	7	N		C	
LOW-COST/SRAM./PERSONALITY/MOD.S/PEEK/POKE/BASIC	DA	3	N	Y		
HIGH SPEED/COMPUTER/CAMAC INTERFACE/CPU./ADC.S	D	5	N	N		12
TIMERS/PROGRAM/FLOWCHART/ASCII./PORT	D	8	N		C	
HOUSE/MODEL III/COMPUTER/IO./ALARM SIREN	DA	7	N		C	
DATA DECODING/HOLES/LABELS/8IN/HEAD LOAD	D	1	N			
		2				
AUTO-ADVANCE PROJECTOR/CMOS. QUAD 2-INPUT NOR GATE	AD	4	N	N	C	
WATER/PROBE/SURFACE/FLUCTUATIONS/TRACKING/TUBE	A	4	N	N	C	
SUMMING AMP.S/CRO./ROM./SHIFT REGISTER/INTERFACING	DA	6	N	N	C	91
ACCUMULATOR/BUFFERS/ADDRESS BUS/INITIALIZATION/FF.	D	2	N	N	C	
PCB. LAYOUT/IC PIN NUMBERS/SCHEMATIC/SET/RESET	D	1	N	N	C	AM
THICK-FILM/THIN-FILM/SCREEN/MONOLITHIC TECHNOLOGY	A	4	N	N	C	
PAL.-PROGRAMMER/CAD./IBM-PC.-XT/MOTION/FEEDBACK	DA	9	N	Y	C	42
UART./DSA524/RS232/EPSON COMPATIBLE 9PIN/9600 BAUD	D	1	N	N		E
REFERENCE VOLTAGE SOURCE/10V/AMP./MOTOR/LIGHT	A	4	N	N	C	28
22V10/SUPERNET 2 CHIP-SET/PC.S/LAN.S/END STATION	D	7	N	Y	C	42
OSCILLATOR/DECADE COUNTER/NAND GATE IC/RECEIVER	DA	1	N	N	C	
TRANSIENTS/LATCH/TTL./DRIVE/TRIACS/5V REGULATOR	DA	1	N	N	C	
EM. FLOWMETER/LOWER LEFT LOBE/PULMONARY ARTERY	AD	3	N	N	C	
AUTOMATIC TEMPERATURE COMPENSATION/NOISE/OPTICAL	A	6	N	N		
HANDICAPPED/REMOTE-CONTROL/LAMPS/APPLIANCES/HOUSE	DA	9	N	N		42
CMOS./INVERTER-BUFFER/XOR GATE POLARITY SWITCHER	D	2	N	N	C	
DELAY LINE/SENSE/PROBABILITY ANALYSER/PHOTON	D	9	N	N	C	
CLOSE RACES/PHOTOTRANSISTOR/LED./CMOS./TTL./SWITCH	DA	3	N	N	C	97
PROM./OFFSET GENERATOR/MICROCOMPUTER/\$35	D	6	Y			

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PARALLEL/UART./ALL/MODES/GRAPHICS SCREENS	D	9 Y	C	
POLE-RESIDUE PLOT		5	C	
PULSE GENERATOR/INTEGRATOR/SIMPLE/EXCITATION	A	6 N	N C	
ENABLELINE/INDICATE/IMPEDANCE STATES/1-SHOT EVENTS	D	2 N	N C	
J-K/DELAYED PULSE CONTROLLER/NAND GATES/DATA	D	4 N	N C	
UV./ERASE/ZIF. SOCKET/DISK CONTROLLER/BUS	DA	4 N	N	3
PROGRAMS/ANALOG/DC./AC. ANALYSIS/ASCII./NETLISTS	A	6 N	Y C	
MINIMUM DETECTOR/UPSWEEP/FOETAL LAMB/CARDIAC/SNR.	A	4 N	N C	
RF./JFET./EVERY 5MHZ OUT TO 1500MHZ/REGULATOR	AD	5 N	N	
RING CONFIGURATION/2 RC. LAG NETWORKS/INTEGRATES	A	1 N	N C	
INTERVALS/0.033% OR BETTER/1/100S-PER-PULSE/60HZ	DA	2 N	N	
EMITTER FOLLOWER/POWER/FAST SWITCHING TRANSISTOR	AD	9 N	N C	
GTO.S/PULSE FORMING NETWORK/SWITCHING MEASUREMENT	DA	8 N	N C	E
CYCLIC-CONTROLLED ELECTROLYSIS (CCE)/HEMODIALYSIS	A	5 N	N C	
2704/2732/PULSE/VERIFY/PERSONALITY	D	5 N	C	
SCANNER/DATA HANDLING/DIGITAL MEMORY	DA	9 N	C	
PIEZOELECTRICALLY CONTROLLED/DETECTORS/EXAFS/BIAS	A	4 N	N C	
OA./RADIATION/PHOTON/CURRENT TO VOLTAGE CONVERTER	AD	5 N	N C	
CMOS./MUCH FASTER THAN SWITCH BOUNCE/NOT OR NAND	DA	1 N	N C	
RAM./NIM/BUS/ADC.S/DETECTORS/REGISTERS/GALLEX/TU	D	6 N	N C	12
TRIAC/SC245B/276-1001/276-1000/T2700B/TIC-246B	AD	5 N	Y C	
LOGIC/INTERFACE/DUT./BASIC/WARNER-ORR DIAGRAM	D	8 N	Y C	
CRT./OSCILLOSCOPE/FSK./RECEIVER/DISPLAY/LISSAJOUS	A	5 N	N	
PRINTER DRIVERS/IBM PC.-XT-AT/APPLE/ASCII./EPROM.	DA	8 N	Y C	
HIGH-INTENSITY SOUND/10HZ/3KHZ/DISCOMFORT/ATTACKS	DA	3 Y	N C	
DASH & DOT PADDLE/CLOCK/DIODE/JUMPER/TTL./CMOS.	DA	1 Y	N C	
HEX INVERTER/RFC/CHOKES/STABLE MODES/RF.	D	1 N	C	
REPLACE/WIRES/CLOCKING SWITCH/REGULATOR	D	2 N		
ILLUMINATION/OPTICAL MODULATION/LIGHT/FLASH LAMP	AD	6 N	N C	
ASTABLE MULTIVIBRATOR/FF./BUZZER	DA	2 N		
3000V-USEC/HF.S/FT./BODE PLOT/DIGITAL OSCILLOSCOPE	AD	7 N	N C	
FLASHING/LED./DIGITAL TROUBLESHOOTING	D	2 N	C	
DRAM./DELAY/MEMORY BLOCK/EPROM./CPU.	D	9 N	C	
2716/SOCKET/HOST COMPUTER/RAM./BUFFERS	DA	5 N	C	
PET/COMMODORE 64/PULSE DETECTOR/PRE-AMP.	DA	4 Y		
LOGIC/DECODING/AUDIO TAPE/MUX./TOUCH-TONE/BURSTS	DA	2 N	N C	
RECTIFIER/DUAL-TRACKING/6-OUTPUT	A	8 Y	C	
SPECTRUM COMPUTER/RAM. MODULES	D	1		
TRACKING LPF./ZERO CROSSINGS/SDK-85	DA	3 N	N C	
LOW-SENSITIVITY/NON-INTERACTIVE SINGLE-CAPACITOR	A	1 N	N C	
CLOCK PULSES/COUNTERS/DRIVERS/FREQUENCY/LATCHES	D	4 Y	N	
INTERFACE/SOCKET/6502/LABOATORY ADD-ONS/MEMORY	D	3 N	Y C	
STORE/BUS/ADDRESS SELECT/PROGRAMS/RAM.TOP/DISABLE	D	2 Y	N	
DIFFERENTIAL OUTPUT/VOLTAGE-GAIN STAGE/IMPEDANCE	A	5 N	N C	
PRESETTABLE UP-DOWN/SIPO/5KHZ CLOCK OSCILLATOR	D	2 N	N	E
DVM./COUNTER/PROGRAMMED VOLUME TOTALIZATION/PUMP	AD	3 N	N C	
THERMOSTATS, VALVES, LIMIT SWITCHES/OIL BURNER	D	8 N	Y	
INTERFACE/REGISTER/PIPELINE/TIMERS/ZIF. SOCKET	DA	9 N	N	
PARALLEL-RESONANT LC./"TANK" CCT/VARACTOR DIODE	A	6 Y	N C	

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BIDIRECTIONAL/PRINTER PORT/TTL./IO./INTERRUPTS	D	6 N	Y	AY
POWER-UP SEQUENCE/FAULT-DETECTION ALGORITHMS	DA	4 N	N	C
GRAPHICS/SORT PROCESSOR/MORPHOLOGY/PLHS502/CAMER	D	7 N	N	
OA.S/PEN TIP/LIGHT-SENSITIVE GAUGE/PHOTODIODES	A	5 N	N	C
FF.S/EXCLUSIVE-OR GATES/4 TEST SEQUENCES/DATA/LED.	DA	4 N	N	C
ELECTROMAGNET/SENSOR/PHOTOTRANSISTOR	DA	2 N		C
IMPROVES SELECTIVITY		2		
DIFFERENTIATOR/5 POLE FILTER/LEVEL-SHIFTER	AD	7 N	N	C
FIRE BUTTON/CHARGER/BATTERY/GROUND	A	1 Y		C
HF. ASTABLE/COUNTER/INTEGRATOR/LEVEL SHIFTER/AC.	DA	9 N	N	C
RAM./IO./BASIC/DOS./ROM./MEMORY MAP/DISK DRIVE	D	2 N	N	3
INTENSITY FLUCTUATION SPECTROSCOPY/LIGHT SCATTERED	DA	5 N	Y	C
CONTROL OVER ATTACK & DECAY RATES/WAVE	A	2		
LDR./ORP12	AD	1 N		
STARTER/DISCHARGE TUBE/PHOTOTRANSISTOR	AD	3 N		C
FREQUENCY/OSCILLATION/JFET.S/METER/SWR.	A	2 N		
PORT/UC/IO. LINES/INSTRUCTION PROTOCOL/READ, WRITE	D	7 N	N	C
PULSE GENERATOR/SHIFT REGISTER/LED.S	DA	1 N		C
TESTING/LOGICAL STATE/TROUBLESHOOTING	A	2 Y		
ASTABLE MULTIVIBRATOR/FET./ULTRASONIC/INSECTS	AD	4 N	N	C
CONTROL EVERYDAY MINOR STRESS/FINGERS/TENSENESS	A	4 Y	Y	
CONVENIENCE/SAFETY/DELAYS/BURGLAR ALARMS	A	1 N		C
POLICE/SCOTLAND YARD/MULTIVIBRATOR	DA	2		C 42
OSCILLATOR-TIMER/TROUBLESHOOTING/30S/MULTIVIBRATOR	AD	6 N	N	C
PHOTOGRAPHER/TRAY PROCESSING/PRINT/AUDIBLE/LED.	A	3 Y	N	C
SERIES/STRINGS OF LIGHTS/SOCKETS/PROBE/DIRECTION	AD	3 N	N	C
THERMOSTATING/LIQUIDS/ULTRALOW/MEASUREMENT/CELLS	A	6 N	N	C
PULSE GENERATOR/SMALL, LIGHTWEIGHT, RUGGED/LIGHT	A	2 N	N	C
4.2-300 K TEMPERATURE RANGE/COILS/MAGNETOMETERS	A	5 N	N	C
TV./LEVEL/0.3V DC./GATING/SIGNAL CONFLICT	DA	2 N	N	C
OPTO-COUPERS/MOTOR/SCHMITT TRIGGERS/MONOSTABLE	DA	4 N	N	C 14/34
MELODY SYNTHESIZER/TIMER/OPTOISOLATOR	AD	1 N		C 42
ADD-ON DEVICE/DAMAGE/LV.		3		
DIFFERENTIAL IA./RESISTIVE	AD	1 N	N	C
GUARDING THEIR CASTLE/PROTOTYPE/LED.	A	1 N	N	C
MOTION DETECTOR/HOOD/EXIT DELAY/DOOR	AD	4 Y		C
LIGHT INTENSITY/MULTIVIBRATOR/ACTUATORS	AD	2 N		C
HERTZ RESONANT LOOP/OPTICAL DETECTOR	A	1 N		C
PERIOD/1.4S TO 14US/WIDTH/0.7S TO 7US	AD	4 N		
LED./PULSE CATCHER/MONITOR/TTL./CMOS.	DA	1 N		C
ERRORS/SERIES/PARALLEL	A	1 N	N	C
INCREASED/OSCILLATOR FREQUENCY TO 5.9MHZ/VIDEO	DA	1 N	N	C
IR. LED./IR. DETECTOR TRANSISTOR/INTENSITY/WARNING	AD	4 Y	N	
NAND GATE/SEQUENTIALLY ENABLE/LED. COLUMNS/SWITCH	D	3 N	N	C
NONLINEAR TRANSDUCER/ADC./MEMORY/DAC./RADIATION	AD	6 N	N	C
MAGNETIC FIELDS		5		
RS-232 DATA INTERFACE/TRANSMISSION/RECEIVER/CABLES	DA	6 N	N	
"HANDS OFF"/RECEIVED OR TRANSMITTED/CRT./DIODE	A	4 N	N	
AUDIO FSK. (AFSK)/HIRES SCREEN/ASCII./RTTY./UP.	D	7 Y	N	

Sheet1

CURRENT AMP./DIFFERENTIAL/MOTOR	A	3 N	C	
RECEIVER SQUELCH/TRANSMITTER	AD	3		
MOTOR/METER/9V BATTERY/DURATION/INEXPENSIVE	A	4 N N		
RESISTOR SUMMING CCT/MIXING/OSCILLATORS/STABLE	A	2 N N C	46	
EEROM./ROM./MODE CONTROL REGISTER (MCR)/IO. LINE	DA	8 N N C	16	
AUDIO-BURST GATE/DTMF./TV./SYNCHRONIZATION PULSES	DA	4 N N		
PULSE WIDTH IS ~0.7US/POLARITY/HV./REGULATOR/5V	AD	4 N N	E	
Q-SPOILER/BRIDGE DETECTOR/JITTER FILTER	AD	8 N	C	
SOLID-STATE/UP-DOWN/1.25V NICD. BATTERIES	DA	2 N N C		
30MIN EXPOSURE/SHORT WAVELENGTH/LIGHT/RADIATION	A	3 N N C		
EPROM./ROM./BUGS/CONDITION CODE REGISTER	D	1 N	C	
UP./MICROCOMPUTER/LANGUAGE-OS./ACIA./PIA./DECODING	DA	6 N Y C		
7V POSITIVE-GOING PULSES/TRANSISTORS/LED./BUZZER	A	4 N N C		
COMMODORE/CODE PROGRAM/BASIC/SPEAKER/KEYING/CW.	DA	3 N Y C		
INTERFACE/UART./HANDSHAKING/RS-232C	DA	8	C E	
NMR. SPECTROMETERS/DIRECT DIGITAL SYNTHESIS (DDS)	D	4 N N C		
EXCESS CURRENT/TURNING IT ON/AC. LINE	A	1 N		
50HZ-625-LINE/PAL/DRIVE/ADDRESS/BLACKING/COMPLEX	D	9 N Y C		
UP TO 16V/TRI-COLOR LED./PEN CASE	AD	1	C	
MONITOR/CONTACTS/PIEZOELECTRIC BUZZER/SWITCHES	A	3 N N		
THIN-FILM/BARKHAUSEN TRANSIENTS/ISOLATED IMPULSES	A	3 N N C		
H.P. SCHOTTKY/EXTRANEIOUS CONNECTION/GROUND	A	1 N N C		
BAD CABLES/LAN./NETWORK/TERMINATION/LED. CCT/LCD.	AD	9 N Y		
SCR. CROWBAR/ZENER/TRANSCEIVER/RECTIFIER	A	2 N		
CPU./COUNTER/BUS DRIVER/TRANSCEIVER/ADDRESS BUS	D	9 N N C		
COMPUTER/VEEY LITTLE "SURGE" DEMAND/CURRENT	A	1 N N C		
INTERRUPT-VECTOR ADDRESS/READ CYCLE/TIMING/WAIT	D	1 N N C		
TINT/BACKGROUND/LEVEL/PICTURE/FILTER	A	5 Y	C	
VSD/FRAME/VIDEO/COMPUTER/BUS INTERFACE/PROCESSOR	D	5 N N C		
MPL CROSS-COMPILER/VAX/IBM PC./PROGRAM/DEVELOPMENT	DA	9 N Y C		
RESOLUTION/IS 0.01S/LAST ENTRY RECALL/COUNTDOWN	DA	5 N Y		
VLSI. UP./NETWORK/ADC./DAC./INTERFACES/ALGORITHM	DA	9 N N	42	
INTEGRATION OF 36 INSTRUMENTS/RF./MULTI-TASKING	DA	3 N N		
8 WAY SWITCH/TEST AIDS/PERIPHERAL HARDWARE/ADDRESS	D	4 N N C		
WEFAX RECEIVER/DRAM./IMAGES/ANTENNA/RF./COMPUTER	DA	8 N N		
AMP./CURRENT LATCH/REFERENCE/PROGRAMMED/RS232 DAT/AD	AD	4 N N C		
INTERFACE/CCD. DRIVER/FAIRCHILD CCD111A/PC./I-SCAN	AD	6 N N		
CPU./UP.S/CPU-81/CACHE MEMORY-MANAGEMENT UNITS	D	2 N N C	10	
STEPPING MOTOR/LASER/CPU./FLASH TUBE	D	3 N	C	
SIMPLE/EFFECTIVE/DETECTOR AVERAGING	AD	6	C	
7490/DIVIDE BY 10/PULSES/PS./CRYSTAL OSCILLATOR	A	3 Y N C		
IO. EXPANSION BUS/ZILOG/UP.	D	9 N	C	
DTMF./UP./4 TO 16 LINE/CMOS./SEQUENCE PROGRAMMING	DA	6 Y Y C		
	A	2 N N C		
IN/OUT	A	2 N N C		
BATTERY-POWERED APPLICATIONS/DUMMY LOAD/FEEDBACK	A	1 N N C		
LIGHT-SCATTERING/DROPLET/PHOTODIODE/LASER/COMPUTER	A	5 N N C	42	
PAINTWORK/HANDY LITTLE GADGET		2		
CMOS.-TYPE OA./NONINVERTING VOLTAGE FOLLOWER	A	2 N N C		

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QUIESCENT LEVEL/TANK CCT/BUFFER/GAIN OF 100/SAMPLE	A	4	N	N	C	E
LUNG/FET./PROGRAMMABLE TRANSCONDUCTANCE AMP./ZCD.	AD	5	N	N	C	61
ATTENUATION/LC./OCTAVE/BANDPASS FILTER/TO 3.5KHZ	A	5	N	N	C	12/42
SERIES-PARALLEL CAPACITOR ARRAY/VFET.	AD	5	N		C	
OA.S/SINGLE-SUPPLY APPLICATIONS		4				
PROTECTIVE FEATURES/SCR. CHAIN/DIVIDER/LASER TUBE	A	4	N	N	C	
LEVEL/CDTE/HIGH SENSITIVITY/DISPLAY	DA	6	Y			
COIL DRIVING/AMPLIFICATION/MANUFACTURING/MILLS	AD	5	N	N	C	
TV./TELEVISION/INFORMATION	AD	5			C	
FEED-BACK/HV. AMP./HIGH OUTPUT RESISTANCE/MUSCLES	A	4	N	N	C	
HV. TRANSISTOR/ELECTRON-BOMBARDMENT/ION-BEAM	A	5	N	N	C	
12-BIT/LATCHING DAC./VOICE	DA	1	N			
SCR./REGULATOR	A	1	N			
DRIVING/PWM./PERMANENT-MAGNET DC. MOTORS/COMPUTER	A	2	N	N	C	95
OA.S/20A PEAK/40V/FLOATING LOAD/CURRENT PUMP	A	7	N	N	C	
PHILIPS/ADC./RGB./PC.S/TV. CAMERA/DIGITIZED IMAGE	DA	2	N	N	C	
HEATER/TRIAC GATING/DETECTOR/RFI./SENSING	A	1	N			
WIDEBAND/CURRENT MIRROR/LOOP/TRANSISTOR ARRAYS	A	5	N	N	C	
JFET. INPUT OA./REFERENCE/DATA LATCHES/12-BITS	AD	9	N	Y	C	12/42
MEASURING ELECTRIC CHARGE/FET./OA./DOSE/500HZ	AD	3	N	N	C	61
OA./TRIGGER A TRIAC BY PHASE CONTROL/MOTOR	AD	2	N	N		
NARROW PASSBAND/COMB FILTER/CLOCK FREQUENCY/RC.	AD	1	N	N	C	
INTERFACE/TRANSMITTERS/DRIVERS/OPTICAL ISOLATORS	DA	3	N	N		
RC.-OSCILLATORS/LV. PS./+-2V/FEEDBACK/MOS. OTA.S	A	9	N	N	C	
HORN/BELL RELAY/SWITCH-DEBOUNCING/DECODES/DOOR	AD	4	N	N	C	
HORIZONTAL/PS./HIGH/LOW PASS/HV./TV./HD/VD/KEPCO	A	9	N	N	C	61
IBM PC./ADC./CAMAC/S-100 BUS/RF./MAGNETIC FIELD	A	9	N	N	C	4/12
OPTO-ISOLATOR/ATTENUATOR/MULTIPLIER	A	3	N		C	E
DRIVER/SWITCH/DIODE CATHODE/SENSE/ANODE	A	1	N	N	C	
FALSE TRIPPING/STABILITY/HF./PARALLEL LC./500KV	A	6	N	N	C	
GATES/OA.S/DECADE COUNTER/RELAY/DRILLING SHIP	A	9	N	N	C	39
ALL PARTS COMING FROM RADIO SHACK/RF./LED.	A	5	Y	N	C	
AM. SIGNAL/AM. REJECTION RATIO/AMRR/RECEIVER	A	1	N	N		
ASIC.S/CAE./CAD./PLD.	A	9	N	N	C	
REGULATED/POLARITY REVERSED		2			C	
HIT/FULLY-ASSOCIATIVE/REPETITIVE LOOPS/COMPARATORS	D	4	N	N	C	
CRYSTAL/ADDRESS MODES/IO./DDR/28-PIN/CPU./RAM.	DA	4	N	N	C	
BASIC09/ASSEMBLER/ADDRESS/STROBING/DATA	DA	3	N			
AMMETER/CMOS./ACCELERATOR/SCHMITT TRIGGER	AD	4	N		C	
NRZI ENCODING/MINI DIN-8 MACINTOSH CABLE/AUDIO	AD	1	Y	N	C	6
SINEWAVE/FAST SWITCHING/SCHOTTKY DIODE/TANK CCT	A	2	N	N	C	
QRM/BANDPASS/BFO./DEMODULATION/HAM RADIO	A	5	Y			
5 TO 1000PF/INEXPENSIVELY/COLOR COSING/UNMARKED	A	4	Y	N		3
PERMEABILITY/FERRITE CORE/PLASMA FREQUENCY PROBE	A	6	N	N	C	
CRYSTAL OSCILLATOR/FREQUENCY DIVIDER/SOUNDER	D	2	N	N	C	
UP./RS232/CCITT. V22 & V23/DTMF./TELEPHONE-LINE	AD	2	N	N	C	
8-BIT SHIFT REGISTER/SPI BUS/MOSI/MISO/IO./CLOCK	DA	3	N	Y	C	
PRESCALER/TTL. LEVEL CONVERTER/ECL./OA./DISPLAY	AD	8	N	N	C	
FILTER/STS/HIGH T _C SUPERCONDUCTOR/IMAGE/TIP	AD	6	N	Y	C	

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CCD./TLC/SULFA-ON-SITE (SOS) TEST/LAPTOP COMPUTER	DA	9	N	N	C	39
FAHRENHEIT OR CELSIUS/TEMPERATURE/BCD.	AD	2	N		C	
RECEIVER/FM./RF. AMP./NAVIGATION	AD	6	N		C	
ASCII. CODE/DECODE/68000/COMMUNICATING/IO./DATA	D	5	N	N	C	
SW. COIL/TRANSISTORS/BC./ANTENNA/HEADPHONES	A	3	N	N	C	
CMOS./LIGHT/PHOTOGRAPHIC EXPOSURES/STROBOSCOPIC	AD	5	N	N		
120V AC./OPTO-22/CMOS./DC./REGULATOR/"SNUBBING"	AD	8	Y	N		
MOWER/Z80 UP./CPU./STEERING/TACH/OPTO INTERRUPTER	AD	8	N	N	C	
MEMORY/POWER SUPERVISOR/RS-232/RS-485/MCU/IO.	DA	9	N	Y		
TRANSMITTER/AUDIO/DIODES/LPF./QUAD LOOP/HF.	DA	3	N	N		
PROTECTION AGAINST OVERLOADING/INPUT AMP.	AD	9	N	N	C	
IPA/ATOMIC EMISSION SPECTROSCOPY/TEMPERATURES/COIL	A	9	N	N	C	12/42
AERIAL/HETERODYNE FREQUENCY METER	A	4	N			
MACHINE-LANGUAGE PROGRAMS/DISASSEMBLER TABLES	D	9	N	Y	C	
MICROCOMPUTER/VIDEO CAMERA/ADC./TEMPERATURE	AD	8	N	N	C	
TRANSISTORS/DIODES/RF./PEAK RECTIFIER/ROBINSON	A	5	N	N	C	E
DRIVEN ALTERNATELY BY THE POWER RELAY/150CC-MIN.	DA	2	N	N	C	
TRANSRESISTANCE AMP./SHUNT REGULATOR/FLAT/RF.	A	2	N	N		
-5V REFERENCE/OA./INPUT BIAS CURRENT/10FA	A	5	N	N	C	42
ADDS EXTRA DATA-HOLD TIME/SHIFT REGISTER/CS./CLOCK	D	2	N	N	C	
LINE/DUAL-TONE DECODER/CALLER/HOOK/POWER	AD	5	Y			
TTL./LO./RF./COMMUNICATIONS/TANDEM MIXER/CARRIER	DA	7	N	N		
PS./THYRISTOR/SHORT-CCT	A	1	Y			
ENGINE CONTROL/FUEL INJECTION	AD	4				
NEGATIVE EDGE DETECTOR/BUFFER/WAVEMETER	DA	5	N		C	
QUAD OA./KENWOOD TS-530	A	2				
HAMS/EXPERIMENTERS/NO-CODE LICENSES		9				
CONVERTER/INTEGRATOR/IDENTITY COMPARATOR	AD	6	N		C	
NIM-LOGIC COMPATIBLE NEGATIVE PULSE/DELAY LINE	AD	9	N	N	C	
TCA5550/MC14046/VCO./IR. LED./AMP./RECEIVER	AD	3	N	Y	C	
LIGHTING/HALLWAYS/SAVES ENERGY/AC./SCR./TIMER	AD	1	N	N	C	E
DIGITAL/NPN & PNP BIPOLAR/4-DECADE LCD./METER	AD	5	N	N		
LIGHT SOURCE/1.0KW HELIUM LAMP/GAP/ELECTROMETER	A	3	N	N	C	
TRANSDUCERS/MICROCOMPUTER/8052AH-BASIC/MPU./8253	AD	9	N	N	C	
D-TYPE FF./TRIGGERED/DELAY/RESETS/30MIN AFTER	DA	2	N	N	C	
UP./LINK ADAPTER/IO./ROBOT/T800/COMMUNICATIONS	DA	9	N	Y	C	42
RF./CW./RESONANT/INDUCTOR/GRID/FINAL-AMP. TUBE	A	2	N	N	C	
UART./MUX./VOLTMETER/RS232/MODEL 100	AD	2	N		C	
OCCAM/IO. PORTS/M212/LINK ADAPTER/MICROCONTROLLER	DA	9	N	Y	C	
SCR./STEREO HEADPHONES/POWER-AMP./MIKE/SPEAKER	A	3	N	N	C	
	AD	1				
NOISE/STYLUS IN A RECORD GROOVE/SOUND SYSTEM/PHASE	A	5	Y	N	C	
MUX.S/IO. MASK/ADC./DAC./IC DATABASE/TTL./OA.	DA	9	Y	N	C	
TIMED ALARM PERIOD/0.1MA/FALSE TRIGGERING/VEHICLE	DA	1	N	N	C	E
PULSE SHAPING/UP./ION IMPLANTATION/MEASURE/CRT.	AD	5	N	N	C	
PTFE./PROBE/HV. STRESSING/CHARGE DENSITY/ELECTRODE	A	8	N	N	C	
THRESHOLD/AMP./SENSOR WIRE/ANEMOMETER	AD	7	N	N	C	E
UP./TIMER IO./ECG./PUMP/ANTARCTIC/FIBER-OPTIC/LINK	AD	7	N	N	C	
AMP.S/SENSORS/TRANSDUCERS/IO./CMOS. ROM./RAM.	DA	5	N	N	C	11/28

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TIME-/FREQUENCY SIGNALS/STANDARDS		2		C	
+1DEG C/COLD-JUNCTION COMPENSATION/TYPE J/STABLE	AD	2 N	N	C	
	AD	7 Y	N	C	
THIN FILM/FIELD INTENSITY/PERMEABILITY/COMPARATOR	AD	7 N	N	C	
IBM-PC./DMA./CPU./FFT./CROSS CORRELATION/A2D-160	AD	8 N	N	C	
ADC./DAC./IO./EPROM./IDER/1HZ TO 5KHZ/RAM./CPU.	AD	7 Y	N		
FREQUENCY SCANNING/OA.S/CURRENT AMP./REFERENCE	AD	5 N	N	C	
3 FREQUENCY/DECADES/LED./PHOTOMETER	AD	5 N		C	
B. SPEDDING/FREQ O-P/PAGE 40/INCORRECT DIAGRAMS	AD	1 N	N		
AUDIO CONTROL/TAPE DECK/AUTOMATICALLY SHUT-DOWN	AD	5 N	N	C	
HP-42S'S CURVE-FITTING SOFTWARE/TEMPERATURE	A	2 N	N	C	
JPEG/MPEG/TV.S/AUDIO, VIDEO/A-V/DCT/COMPRESSION	AD	6 N	N		
COIL/CURRENT-VOLTAGE CONVERTER/SINE WAVE	A	5 N		C	
PRECISION/TRANSDUCER/DIGITISED/SLIP-RING-BRUSH	AD	4 Y	N	C	
2V-KG^-1/WEIGHT LOSS OF MEAT DURING COOKING/JOINT	A	1 N	N		
CAPACITORS/INPUT PULSE/LASER FLASH/AFC. CCT/SNR.S	A	4 N	N	C	
IO./MEMORY/ACCESS TIME/18.432MHZ/ZERO WAIT STATES	D	7 N	N		
SWITCHED-CAPACITOR FILTERS/SH.	AD	9 N		C	
FLOW INJECTION ANALYSIS (FIA)/ICP. SPECTROMETER	AD	9 N	N	C	25
IMPROVEMENTS/LOW-END ROLL-OFF AT 10HZ/FEEDBACK	A	3 N	N		
SCHMITT TRIGGER/256 TIPS FOR AN OUTPUT OF 10.0V	DA	3 N	N	C	
CONROLLED-SCAN SPECTROPHOTOMETER (CSS)/LIGHT	AD	6 N	N	C	
UART./LINE DRIVER/LETTER/DATA CODE/NUMBER	D	4 N			
RECTIFIER/CURRENT/ZENER DIODE/PROGRAMMABLE TIMER	AD	1 N	N	C	
AUDIO/DVM./CONVERTER/HF.S/GAIN/MONITOR/ADC./LED.	AD	8 Y	N		44
78 TO 84DB DISTORTION/LOADING CHANNELS/68000/8086	AD	1 N	N	C	
PULSE/COUNTING/ANALOG SWITCH/CURRENT SOURCE/AMP.	DA	2 N	N	C	
PC./BUFFERING/RS-232-TO-CMOS.-TTL./CONVERTERS	DA	9 Y	Y		
OA./DEMODULATION/+0.1HZ TO +-2HZ IN 100MS/30KHZ	A	1 N	N		
AIRCRAFT/OA./FET. INPUT/SENSOR PROBE/AIR-ION CLOUD	A	4 N	N	C	
JFET. SWITCH/DAC./VFC./MONOSTABLE/OA./COUNTERS	AD	4 N	N	C	
RGB./CRT./COMPOSITE VIDEO/OUTPUT IMPEDANCE/75OHM	DA	7 N	N	C	
DATA/"FLASH" ADC./OA./VME/SHORT AS 30NS/EVEN 12NS	AD	3 N	N	C	12
GROUND/ANODE	A	1 N	N	C	
DARK CURRENT, GAIN, LINEARITY/STABILITY/LIGHT	A	9 N	N	C	
NON-INVERTING/ERROR AMP./VDU./INTEL 8085 UP.	A	3 N	N		
TRACE ANALYSIS/VOLTAGE/VOLTAGE FOLLOWER	AD	9 N		C	42
2-LEVEL CODING/REMOTE/DAC./ADC./SENSOR/LOGIC	AD	4 N	N	C	
PS. VOLTAGE/LEVEL/DROP/THRESHOLD/LED./PULSE/0.1S	DA	1 N	N	C	
3RD OVERTONE XTAL/CRYSTAL/BW./455KHZ/10.7MHZ	A	1 N	N	C	
REMOTE CONTROL/I^2C BUS/INPUT/MODE/BASS & TREBLE	AD	4 N	N	C	
TDC./30MHZ FLASH ADC.S/PREAMP.S/CALIBRATION	A	9 N	N	C	
MIXER/PARALLEL TUNED COLPITTS OSCILLATOR/AMATEUR	A	3 Y	N	C	
RETRIGGERABLE/HALF-DUPLEX/TRANSMISSION	A	1 N			
TIMER/DRIVER/SWITCH CONTACTS		1			
RECONSTRUCT/VERTICAL/PULSES	AD	2			
COMPUTER'S DAC./PARAPLEGICS & QUADRIPLEGICS/GAIT	AD	9 N	N		E
HIGH AUDIO VOLTAGES/HEAT/FREQUENCY/OSCILLATOR	AD	3 N	N	C	
RF./LO./MIXER/DOWN-CONVERTED TO AUDIO/LONGWAVE/SW.	A	4 N	N	C	

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PULSES/2-PHOTON ABSORPTION (TPA)/PDP-8E COMPUTER	DA	4 N	N	C	11
FERRORESONANT TRANSFORMER/WINDINGS	A	4 N			
VCO./SPEAKERS/ELECTRICAL OUTLET/COILS/TRANSISTOR	A	6 N	N	C	
THEFT/THIEVES/STEAL/VIBRATION OR SHOCK/DISTURBED	A	3 Y	N	C	
DRAINS & SOURCES CONNECTED TO GROUND/17.5MHZ/AMP.	A	7 N	N	C	39
PMX-200/COMMUNICATIONS/LPF./HIGH-PASS/ASCII./RADIO	DA	6 N	N	C	
FET.S/MICROPLEX ANALOG OUTPUT CCT/DRIFT CHAMBERS	A	9 N	N	C	12/AR
LV. AUDIO-POWER AMP./DBM./DCR/RADIO/LPF./RF./CW.	A	2 N	N	C	
FEEDBACK/HF.S/DRIVER/AF. POWER AMP.S	A	9 N		C	
PULSE-WIDTH DISCRIMINATION/PEDESTAL INVERSION	AD	1 N	N	C	
THEFT-PREVENTION SYSTEM/ALARM		6			
MIXER/BIAS NETWORK/AMATEUR/GUNNPLEXER/TUNING	A	4 N	N		
SLAM/ACOUSTO-OPTICAL/PHOTO-DETECTORS	A	9 N		C	
SNR./>100DB AT 1W/SLEW RATE OF 30V-US/HI-FI	A	4 N	N		
MIXERS/RF. HYBRID JUNCTION/LO./ESR./DNP/FET.S/IF.	A	7 N	N	C	25
AUDIBLE OR VISUAL INDICATION/PHONE-LINE TESTER	AD	6 N	N	C	
SENSOR/CMOS. SWITCHES/IMPROVED BASELINE DRIFT	A	6 N	N	C	
LOW-OFFSET/FEEDBACK/DC. COUPLED/LPF.	A	9 Y	N		
BATTERY-POWERED/9V/~\$30/DMSO/MILLIAMMETER/OPTICAL	A	3 N	N	C	26
VIDEO/12V RELAY/AC. LINE VOLTAGE/2 AC. SOCKETS	A	4 N	N	C	
"CARD-READER" (LIGHT GENERATOR-PHOTO DETECTOR	A	5 N	N	C	12
2ND HARMONIC DISTORTION/GRID/MOVING-COIL CARTRIDGE	A	7 Y	N		
COMMUNICATION/RF./VARICAP DIODE/PAIR/LO./LPF./CW.	A	6 Y	N		
MATCHING NETWORKS/DUROID 5880/SINGLE STAGE/TVRO.	A	7 Y	N		52
CANCEL/OA./OPEN-LOOP TRANSFER FUNCTION/-140DB	A	2 N	N	C	
BATTERY OPERATED/TEFLON/LEAKAGE/MEMBRANE CHAMBER/A	A	9 N	N	C	42
REPLACEMENT BATTERIES/1.5V CELLS/ELECTROMETER/MOD.	A	2 N	N	C	
NODAL VOLTAGES/CAD./TOPOGRAPHY SIMULATION/ROUTING	A	9 N	N	C	
PFET/PS.S./AUTOMATICALLY ROUTED AROUND/VOLTAGE	AD	2 N	N	C	E
OUTPUT OF ~100000V/SPARKS/8IN/DISCHARGE BALL	A	7 Y	N	C	
HALF BRIDGE/ISOTONIC & ISOMETRIC BENDER BAR/FORCE	AD	6 N	N	C	
OA./FF./CCT BREAKER/TRIAC/CONDUCTOR/OPTOCOUPLER	AD	2 N	N	C	
CAE./SPICE/FLUX/FIELD STRENGTH/MONTE CARLO	A	4 N	N	C	E
PULSE WIDTH/10PS/TPC/TPF/FLUORESCENCE/FAST DIODE	A	4 N	N	C	
CONSTANT-CURRENT SOURCES/COMPLEMENTARY PAIR/FET.SA	A	9 Y	N		
CAPACITIVE/RADAR/WATER/REMOTE-SENSING/GRAVIMETRIC	A	7 N	N	C	
NOISE/SURFACES/STRAIN/HIGH IMPEDANCE/FILTER	A	8 N	N	C	
PMT. BURST DETECTOR/TRIGGER/MT. NORIKURA/ADC./TDC.	A	5 N	N	C	
ZCD.S/1ST ORDER/SH.	AD	6 N	N	C	
BACKGROUND RADIATION/OA./FET./LOW NOISE/LIDAR	A	3 N	N	C	
BROADBAND/HIGH RF.-POWER/TRANSMITTER/RECEIVER	A	3 N	N	C	
ROBOTICS, ANIMATED-DISPLAY/RECEIVER/DRIVER/LED.S	DA	8 Y	Y		
TRANSFORMER/"SIGNAL TRIGGER"/WINDING/PIEZOELECTRIC	A	1 N	N	C	
PROGRAMMING/2716, 2732, 2764, 27128 & 27256/LED.	DA	9 Y	N		
+12VDC. FROM BATTERY/MOTOR/SWITCH/ZENER DIODE	A	1 N	N	C	
SOLAR TRACKING/DARLINGTON PAIRS/FAST COMMUTATION	A	1 N	N	C	
7TH ORDER LOWPASS ELLIPTIC FILTER/INTEGRATORS	AD	9 N	N	C	
WWW/BANDSWITCH/JUMPERS/MIXER/DRIVER	A	1 N			
POWER OSCILLATOR/STUNNING/JOLT/PULSES/VOM/9V/NEON	A	2 N	N	C	

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LOOP/SOLID STATE INTERFACE/BRIDGE	A	1 N	N	C	
RECTIFIER/PASS TRANSISTOR/LESS HEAT/3A	A	1 N			E
VFO./CRYSTAL OSCILLATOR/RF. CHOKE/BFO.	A	2 N			
ALARM SWITCHES/LEFT/RIGHT/117VAC.	A	2 N	N	C	
CAPACITOR/HIGH INPUT RESISTANCES/~4MOHM/~0.4HZ/OA.	A	2 N	N	C	
REFERENCE/MONOLITHIC/IC'S/CURRENT-OUTPUT MDAC.	DA	9 N	N	C	
PHASE SHIFTER/INTEGRATOR/BUFFER/HARD LIMITER/RF.	A	9 N	N		4/39
STEREO/SOUNDS/AMBIENCE/REFLECTION/SPEAKERS/QUAD	A	3 N	N		
GAIN IS CONTINUOUSLY ADJUSTABLE	A	2			
ULTRASONIC/INFRASONIC/LOW-COST		3			
FREQUENCY DOUBLER/FREQUENCY-TO-CURRENT CONVERTER	FAD	3 N	N	C	
BIT RATES/OPTICAL TRANSMISSION/DEVIATION/CHIRPING	A	2 N	N	C	
ACTIVE FILTER/STEREO/BUFFER/AUDIO/RECORDING/SOUND	A	2 Y	N		
OA./PREVENT NOISE INJECTION/4-CHANNEL/DEMODULATION	A	5 N	N	C	
OA./VARIABLE/VOLTAGE/30V/2 TO 3A/CURRENT LIMIT CCT	A	6 Y	N		
APPLE MEMORY/DRIVER/LISTING/READ	DA	5 N			
10 TO 50MA/2 TO 15KV/DOUBLE DISCHARGER	A	4 N		C	
OUTPUT/PHASE POLARITY/GAIN/SWITCH	A	1 N			
ANALOGUE GATES/DIFFERENCE/MICROMANOMETER/LOW FLOW	AD	4 N	N	C	E
LINEARISATION/MEDICAL/HIGH-STABILITY OA./RECORDER	AD	4 N	N	C	
2 INTERSECTING LINES/FLASHRATE	A	1 N	N	C	
SOLENOID CORE/CALIBRATION/\$100/MAGNETIC FIELDS	AD	3 N	N	C	
AUDIO/RF. GATE/ETR/LAMB NOISE BLANKING/IF./IMPULSE	AD	5 N	N		4
MOSFET.S/REGULATORS/PS./AUDIO/DC.-COUPLED AMP.	A	9 N	N		
15.75KHZ DECODING/COLOR-BURST/VIDEO AMP.	A	4 N	N	C	E
COMMON-MODE INPUT RANGE/NEGATIVE-SUPPLY	A	2 N	N	C	
TRANSMIT/RECEIVE/SPDT./SWR./VHF./UHF./IF./LOSSES	A	3 N	N		53
DEMODULATOR/DETECTOR/QUADRATURE COIL/VHF./IF./RF.	A	6 N	N	C	
NORTON/OA.S/CURRENT-DIFFERENCE AMP.S/AUDIO/PHONO	A	6 N	N	C	
POSITIVE REGULATOR/HV. TRANSISTOR/2 TRANSFORMERS	A	3 N	N	C	
TRANSFORMER/RECTIFIER/RHEOSTAT/BREAKER	A	1 N			
MOSFET.S/RC./POWER DARLINGTON/BRIDGE/CONDITIONER	AD	8 N	N	C	
SLAC/TIME DIGITIZER/TRIGGER/TRACK/PEP STORAGE RING	AD	5 N	N	C	
ADC./DAC./HIGH-PRIORITY DATA TRANSFERS/INMOS T414	DA	9 N	Y	C	39
DIODES/14.8V SECONDARY/FILTER CAPACITORS/AC.	A	1 N	N	C	
SEISMOGRAPH/SWITCH/HIGH-Z PREAMP.S/BIG ONE/GATE	DA	2 N	N	C	
VIBRATIONS/BACKGROUND/PHASE CHANGES/PULSE	DA	2 N	N	C	
COR./AMATEUR RADIO/CARRIER/AUDIO/SELECTIVE CALLING	A	4 N	N	C	
3HZ/LPF./SUNLIGHT/TRANSDUCER/SRAM./RS-232/IBM-PC.	A	5 N	N	C	87
MOD./X-BAND/K-BAND/GUNN DIODE/LO./RF./VCO./FM. IF.	A	4 Y	N	C	
BTU'S/THERMOSTAT/TIMING CAPACITOR/MULTIVIBRATOR	AD	6 Y	N	C	
FERROMAGNETIC MATERIAL/POSITION/DIGITAL	AD	3 N		C	
CURRENT MIRROR/ZENER DIODE/VOLTAGE	A	1 N		C	
2-WAY RADIO/ANTENNA/RF. CARRIER/LED.S	AD	3 N			
C2 SHOULD NOT BE SHOWN CONNECTED TO GROUND	A	1 N	N		
TRIMMER/"POCKET-SIZED AF. COUNTER"/CMOS./74C925	D	1 N	N		33
FLASHING/BIOLOGICAL/COUPLED OSCILLATORS/SYNCHRONY	AD	3 N	N	C	
COMPLEMENTARY PAIR/TRANSISTORS/EMITTER FOLLOWER	A	4 Y	N		60
STEREO/LOGARITHMIC BARGRAPH DISPLAY	A	4 Y		C	

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DIFFERENTIAL-INPUT AMP./BANDPASS FILTER	AD	4 N	N	C	
COILS/DRIVE/GENERATOR/CMOS. IC'S/FREQUENCY DIVIDER	AD	2 N	N	C	
BEAM PROFILE/5KW/MONITORING & CONTROL/RADIATION	A	8 N	N	C	
LDR.S/CADMIUM-SULFIDE PHOTOCELLS	A	3 Y			
FAILURES/OVERLOADS/TELEPHONE	D	6		C	
MINIMIZE/VOLTAGE DROP/REDUCES ITS DISSIPATION/SCR.	A	3 N	N	C	
PS./PLUG/HEATSINK/DISCMAN, BOOMBOX/LAPTOP COMPUTER	A	3 N	N	C	
TWIN-TEE AUDIO OSCILLATOR/BIAS	A	4		C	
VARIATION OF 0 TO 100%/VARIABLE-WIDTH/AMPLITUDE	A	1 N	N	C	
RC. ACTIVE FILTERS/AF./TUNES FROM 500HZ TO >3KHZ	A	3 N	N	C	
CLUT/DAC./SYNC SHIFTER/CURRENT DUMP/VIDEO/GRAPHICS	AD	9 N	N	C	E/42
CRYSTAL OSCILLATOR/HARD DISK CONTROLLER	D	4 N		C	
HIGH EFFICIENCY RED/ARRAY/MULTI-ELEMENT/DECODING	AD	2 N	N	C	
IDENTIFY/PNP OR NPN/TRANSMITTER/AUTO-RESET/LED.	A	5 N	N	C	
RINGING PHONE/ENTRY/TEMPERATURE/DOUBLER-RECTIFIER	A	8 N	N	C	
ADC./DAC./PRESSUE/PROPORTIONAL INTEGRAL (PI)/VALVE	A	3 N	Y	C	
STEP CHANGES/SQUARING UNITS/OA./COMPARATOR/TANK	AD	9 N	N	C	
DIGIT GENERATOR/NUMERAL/BCD. CONVERTER	D	5 Y			
RESONANT TANK/DIODE DETECTOR/METER	A	2 N			
PROTECT/IINDICATOR/MISCONNECTIONS/CURRENT	AD	1 N		C	
KODAK/PAINT/OPTICAL/DATA-ENTRY/NRZ./UPC	A	6 N		C	
DIGITAL CLOCK/TIMER		1			
DEAD BATTERY/DISCHARGING/TESTER/LED.S/ELECTRICAL	A	4 Y	N		
SCHOTTKY DIODE/ADJUSTABLE/COMPENSATE/SELF-HEATING	A	2 N	N	C	
HIGH-PERFORMANCE/METER/LED./HEATSINK/117VAC./DIODE	A	5 Y	N	C	
10.5 TO 15V/COMPARATOR/VOLTAGE-DIVIDER/REFERENCE	AD	3 Y	N	C	
PTT. SWITCH RELAY/BASE UNIT/AUDIO/FREQUENCY/49MHZ	A	4 Y	N		
POWER-LINE DROPS/SLOWLY RISING SUPPLY VOLTAGES	AD	2 N	N	C	
LOAD CURRENT/TRAIN OF NARROW PULSES/THRESHOLD	A	1 N	N	C	
1-SHOT/DUAL TIMER/SERIAL-IN, PARALLEL-OUT REGISTER	DA	1 N	Y	C	
1W/CRYSTAL-CONTROLLED/SSB./BFO./AM./FILTERS/RF.	A	4 Y	N		3
RANGE >180DEG/CMOS./VARACTOR DIODE/S-BAND	AD	5 N	N		
SHORT-CCT CURRENT-LIMITING/THERMAL/PROTECTION	A	3 N	N		
TOF./AIR & VARIOUS GASES/INEXPENSIVE/OSCILLOSCOPE	A	3 N	N	C	
LED./VOLUME CONTROL/IN-CAR MUSIC/DRIVING/STEREO	A	2 N	N		
BIAS CURRENT/130DB CMRR./2-STAGE AMP./DIFFERENTIAL	A	1 N	N	C	
LEVELS/DRIVER/MONOSTABLE/SWITCHES/PORT/TRIGGER	DA	1 N	N	C	
	A	1 N	N		
TUNABLE BANDPASS FILTER/10.7MHZ IF. TRANSFORMERS	A	2 N	N	C	
LOW AVERAGE POWER CONSUMPTION/FAIL-SAFE	AD	1 N	N	C	E
ANTI_ALIASING FILTER/14-BIT ADC./DAC./FILTER/TIMING	AD	9 N	Y	C	
PROCESSOR/CPU./TEST BLOCKS OF MEMORY/DECODER	D	4 N	N	C	
RECTIFIERS/RC. FILTER/VOLTAGES/TRANSFORMER/RIPPLE	A	6 N	N	C	
TOF. SCINTILLATOR/COUNTER/XP2020 PMT.S/CAMAC/MUONS	AD	4 N	N	C	61
MEASURES THE BACK EMF./LED./OUT-OF-REGULATION	A	2 N	N	C	
STEPS DOWN THE LINE VOLTAGE, RECTIFIES & FILTERS	A	5 N	N		
DATA-ACQUISITION/UART.S/INTEGRATING/ADC.	DA	9 N		C	
GREEN/RED/4-ELEMENT/DISPLAYS/TIMER/RESISTANCE	AD	3 Y	N	C	
SINE, TRIANGLE, SAWTOOTH/ARBITRARY/REFERENCE/OA.	A	1 N	N	C	

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2716/CMOS. SRAM./SOCKET/BATTERY	D	2		C	
CASSETTE AUXILIARY PLUG/MESSAGE/DELAY/CHARACTERS	A	4N	Y	C	
SYMMETRY/DRIVE/LOADS/HI-FI AMP./200W LAMP/MOTOR	A	3N	N		34
VARIABLE/OVERLOAD PROTECTION/BOOST	A	5N		C	
TRANSDUCERS/PRECISION FORCE BALANCE/LOUDSPEAKER	A	5Y	N	C	
50HZ MAINS/D.I.L. SWITCH/FOURIER ANALYSIS/HF.	AD	3N	N	C	44
ULTRA-LOW-NOISE MAGNETIC/MIXER	A	6N			
HV./CRT. STREAK CAMERAS	A	3		C	
BASE CURRENT/GAIN/BIASING NETWORK	A	3		C	
RF. SIGNAL/LC./MAGNETIC FIELD/METER/TUNING COIL	A	1N	N	C	35
INTENSITY CONTROL/ELECTRON BEAM/APPLE-II/8085/CRT.	AD	9N	Y		
VOICE/LINE/FRAME GRAB/FCC/PHONE ADAPTOR/RING	A	5N	N	C	
SYNCHRONOUS DIODE-BRIDGE DEMODULATOR/NULL/STABLE	A	1N	N	C	
CIGARETTE LIGHTER/RADIO SHACK/3, 4.5, 6, 7.5 & 9V	A	3N	N		36/94
SYNC LOSS (AN UNSTABLE PICTURE)/TRANSISTOR/CHANGES	A	1Y	N	C	
BUFFER/PREDRIVER/DRIVER/VCO./MIXER/AMP.	A	5N			
NMR. SPECTROMETER/RF. COIL/POSITIVE & NEGATIVE	A	9N	N	C	E
SINGLE LAYER COIL/TAPE	A	1N	N	C	
ADJUSTABLE/BRIDGE CCT/RESISTANCE/OSCILLOSCOPES	A	7N	N	C	E
8KV DIODE/OSCILLATOR/~25KHZ/24V DC. INPUT/STANDBY	A	1N	N	C	
OCTAL/MONOSTABLE/CORE MEMORY SENSE AMP./TTL./MWPC. DA		9N	N	C	61
CMRR./AMP. GAINS/PS. REJECTION RATIOS (PSRR'S)	A	5N	N	C	
BASS/TREBLE/BOOST/CUT/RESPONSE	A	3			
SSB. GENERATOR/CRYSTAL FILTER/AMP./BUFFER	A	4N			
SURFACE NOISE/AUDIO/COMPARATOR'S THRESHOLD/PULSE	A	5Y	N	C	
TRANSISTORS/DYNAMIC THERMAL ANALYSIS/RUNAWAY	A	9N	N	C	
2-TRANSISTOR/JFET./PIERCE OSCILLATOR/ANTENNA	A	2N	N	C	
POSITIVE/NEGATIVE OUTPUT/AVALANCHE	A	4N		C	
SCR./TRIGGERS THE TRIAC/RFI./FULL-WAVE CONDUCTION	A	1N	N	C	
SELF-QUENCHING/DETECTOR/TRANSMITTER	A	2N		C	
PULSE/DELAYED DECOUPLING/CARBON/SPECTRAL	A	3N		C	
QUIET/GAIN/NOISE/INCREASING/SIZE/AC./1F/60HZ	A	2N	N	C	
2000V/CARRIER MOBILITY/HV. SILICON RECTIFIER/DIODE	A	2N	N	C	
5KV/250W/METAL VAPORS/HEATER/FILAMENT/TARGET/ATOMS	A	3N	N	C	
HAND-HELD TRANSCEIVER/LED./CHARGE/NICD. BATTERY	A	4Y	N		
DIODES/RESISTOR/ANODE/LED.	A	2N	N	C	
MISSING FIGURE/TRANSMIT-BAR/	A	1N	N		31
SENSE WIRES/MWPC./TDC./MUON/BEAM LINE/POSITION	A	5N	N	C	61
TRANSIENT PROTECTION/CLAMPING DIODES	A	2N	N		
IGNITION/CASSETTE PLAYER		1			
STABILITY/SENSITIVITY/OUTPUT POWER	A	2N			
CRYSTAL-CONTROLLED/CW./FRONT-END	A	5N			
ENGINE SPEED/ANTENNA/MONOSTABLE	A	3Y			
GERMANIUM DIODE/SW. LISTENING	A	1N			
SWR. BRIDGE/CONVENIENCE GADGET	A	1Y	N		
FREQUENCY/OSCILLATOR/MONOSTABLE/DISPLAY	AD	1N		C	
FSK./CW.-AFSK./SPECIFICATIONS	A	8		C	
COUPLING/SCR./ELECTRICAL SHOCKS/HAZARD/ACCIDENT	A	1N	N		
RF. EXCITATION/HV./RINGDOWN/RINGING/SIGNAL/LOGIC	AD	9N	N	C	

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VARYING DRAIN-TO-SOURCE VOLTAGE/GAIN-CONTROLLED	A	2	N	N	C	
LOW-DRIFT OA./1HZ BW./10 ⁻¹² -10 ⁻⁷ A/FET.	A	3	N	N	C	
AMATEUR RADIO/TRANSMITTERS/STATIONS/DIODE/COIL	A	2	N	N	C	
PIERCE/VFO./FREQUENCY SPREAD/TOLERANCE/LO.	A	1	N	N	C	
TESTER/L & Q METERS/RELATIVE-Q/TRAPS	A	3	N			
JFET./RF./TRANSMITTER/COHN/CW./SSB./CHEBYSHEV/LC.	A	6	N	N		
SHOCK PRESSURE MEASUREMENTS/TRANSDUCERS/GRAVITY	AD	9	N	N	C	42
IF./LO./VOLTAGE-VARIABLE CAPACITANCE/TUNING DIODE	A	3	Y	N		
VUV RING/MEAM LINES/PROTECT/VACUUM FAILURES/X-RAY	A	5	N	N	C	61
DETECTOR/CESIUM/PARTY/ELECTRIC & MAGNETIC FIELDS	A	9	N	N	C	
RELAXATION OSCILLATOR/AC. POWER/FIRING CCT/CYCLE	A	7	Y	N		
VOLTAGE SURGES/VARISTOR/117V AC./RS232/SUPPRESSORS	A	3	Y	N		
CAR/ALTERNATOR/STATUS INDICATOR/LED.	A	3	N		C	
OSCILLOSCOPE/RESISTANCE MEASUREMENTS/TRANSFORMER	A	1	N	N	C	
X-RAY FLUORESCENCE/TELETYPE (TTY)/ASCII./60MA	AD	5	N	N		
CMOS. COUNTERS/EXPLOSION/SOUND GENERATOR	DA	4	Y			
125MW AUDIO AMP./DOORBELL/PROGRAMMABLE TONE	A	2	N	N	C	
TUT/DECADE RESISTANCE BOX/RESISTOR/LIGHTS	A	1	N	N		E
TUNE-UP/EQUALIZER/HANDY/GADGET	A	3				
PROGRAM/DEMONSTRATION/TINY BASIC/EPROM.	DA	6	N		C	
NULLING/MEASURE/FORWARD & REFLECTED/TRANSMISSION	A	5	Y	N		
ZENER DIODE/SURGE VOLTAGE PROTECTORS (SVP'S)	A	4	Y	N	C	
RELAY/THUMP/MUSIC/SSR./TAPE DECK & AMP./CMOS.	A	3	N	N	C	
AC. SWITCH/ZERO-VOLTAGE SWITCHING/LED./ISOLATION	A	3	Y	N	C	
EAVESDROPPING/AUDIO/SPEECH UNINTELLIGIBLE/SECURITY	A	7	Y	N	C	60/88
INTERFACE/COMPUTER/SOUND SYNTHESIZER/IO./APPLE II	D	1	N	N	C	
PULSED/AVALANCHE TRANSISTORS/INTERFACE	A	9	N		C	
BIPOLAR TRANSISTOR/HAND-HELD/PORTABLE RIG	A	7	Y	N		
SH./MUX./OPTOISOLATION AMP./SHIELDED/RF.	AD	3	N	N	C	
DIFET./SDSC/WIZARD/NOISE/TEMPERATURE/STRIP/NASA	A	6	N	N	C	
LINEAR PHOTODIODE ARRAY/LPA/AMP./OA.S/LPF./FVC/TV.	A	7	N	N	C	AG
PASSBAND TUNING/MODE/SYNC/RF. GAIN/CW.	A	9	N			
AMP./AUTOMATIC CONTROL/DATA LOGGING/DRUG PUMP	DA	9	N	N	C	
WIRING/AND GATES/TRIGGER/TIMER/TURNING ON/BUZZER	A	1	N	N		
10A/100KHZ SWITCHING FREQUENCY/BLOCKED/INDUCTANCE	A	2	N	N	C	
HELIUM-NEON LASER/PHOTODIODES/DETECTOR	A	5	N		C	
TDC./DRIFT-TIME SPACE RELATION/DETECTOR/DORIS	AD	9	N	N	C	
PHOTO DIODES/OPTOELECTRONIC/FORCE TRANSDUCER	A	9	N	N	C	AL
KEYPAD/GENERATOR/AUDIO AMP./INFORMATION	AD	3	N	N	C	
TEMPERATURE EFFECTS/VOLTAGE DIVIDER/TRANSISTORS	A	4	N	N	C	
MICROPHONE/ATTENTION-GETTER/BUG	A	4			C	
KCD/DAS./LOW BIAS CURRENT/LINEARITY/IS EXCELLENT	A	9	N	N	C	
CAR/CPU./PLL. SYNTHESIZER/TONE SQUELCH	AD	2	N			
VOLTAGE-AMP. CCT/BOOTSTRAP FOLLOWER AMP./DUAL OA.	A	2	N	N	C	
GAIN-COMPENSATING/-6DB FREQUENCY/ROLL-OFF/LOAD	A	2	N	N	C	
APPLICATIONS/SWITCH CONTACTS/ANTENNAS & COILS	A	4	N	N		
X MARKS/SPOT/HARD-TO-REACH/GLASS SWIZZLE STICK	A	2	N	N	C	48
LF. NOISE CURRENT OF 0.25FA-ROOT HZ/BIAS	A	3	N	N	C	72
TRANSFORMER/LOW-IMPEDANCE LOAD-HIGH-CURRENT/POWE	A	3	N	N		

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PARALLEL PLATE CELL/GRID/LIQUID/UV./~30PA/50OHM	A	6	N	N	C	12
OA./DC. BIAS/FET.S/DETECTOR/CAPACITANCE/CMR./ERROR	A	7	N	N	C	57
REDUCES HIGH-POWER RESISTOR COUNT/TORQUE MOTOR	A	1	N	N	C	
120V AC./POWER/TIME DELAY/TRANSISTOR/ZENER DIODES	A	5	Y	N	C	
CORRELATOR/MILLIMETER-WAVE INTERFEROMETER/DSP./FF.	DA	7	N	N	C	
TIP/CURRENT-SENSING/IMAGES/TUBE PIEZO/HV. AMP.	A	8	N	N	C	
OA.S/INJECTION CURRENT/FREQUENCY-STABLE/THERMISTOR	A	5	N	N	C	
SHUTDOWN PIN/EXTENDS THE BATTERY LIFE/~10MA	AD	1	N	N	C	
SCR./RELAY/PUMP MOTOR/TIMER/0.5S OUT OF 15	A	3	N	N		E
PIN/FEEDBACK LOOP/PROTECT/TRANSIENTS/HIGH POWER	A	9	N	N	C	25/42
RESONANT DC.-DC. CONVERTERS/SYMMETRY/CLASS D AMP.	A	4	N	N	C	
SHIELDING/TUNE-UP/SWITCHING	A	3			C	
40A STARTING CURRENT/MOTOR/POWER MOSFET./12 OR 24V	A	3	N	N		
AMPLITUDE/PHASE SHIFT/ANALOG MULTIPLIER	A	6	N			
ACTINIC FLASH/DYNODE/MOSFET./DETECTOR	AD	3	N		C	
		2				
EEPROM./DISPLAY RAM./PRINTER/KEYBOARD	D	7	N		C	
STABLE OUTPUT/PEAK INDUCTOR CURRENT/CAE./HEXFET.	AD	6	N	N	C	
SSB. PHASE NOISE/HIGH-Q/REFERENCE/VCO.S/AT-CUT	A	3	N	N	C	
AC. LINE/SWITCH/ISOLATION	A	1	N	N	C	
CAN/BETWEEN YOUR CRYSTAL FREQUENCIES	A	3	Y			
PC.-AT/DAC./ADC./WAVEFORM GENERATION/ACQUISITION	D	6	N	N	C	
FIELD SENSOR/AMP./TEM CELL/CALIBRATION	A	3	N	N	C	
10 RELAY-SWITCHED LPF.S	A	8				
VOLTAGE VARIABLE CAPACITOR/RECEIVER/TRANSMITTER	A	4	N	N		
THYRATRON/JHP 1GEV PROTON LINAC/6-SCR. STACK	A	7	N	N	C	12
READY INDICATOR/120VAC./100W LAMP/IBM/PC.-AT/LED.	AD	9	N	Y		
BACKSCATTERED ULTRASOUND/SRAM.S/DIGITIZES/LIVER	DA	4	N	N	C	
BANDPASS/FILTER/AUDIO	AD	6	N	Y	C	
MASTER-SLAVE/CABLE SEGMENT/TRIGGERING 1-SHOTS	DA	5	N	N	C	
PERMITTIVITY/ELECTRIC FIELD/CAPACITANCE/TTL. INPUT	DA	3	N	N	C	
MICROPHONE/SPEAKER/>10YR/EEPROM./AGC./NON-VOLATILE	AD	3	Y	N	C	
DOS. COMPUTER/VIDEO DAC./SINE/OSCILLATOR/GWBASIC	DA	5	Y	Y	C	
REAL-TIME/TTL. INPUT/DELAY TIME/EOM/EXCITATION	AD	2	N	N	C	
SOUND/RESISTANCE/ILLUMINATED/CUT-OFF/OSCILLATIVE	A	1	N	N	C	
IC'S/ESD./LATCHES	A	1	N		C	
NMR. IMAGING/RF./COIL/ENERGY STORAGE CAPACITOR	AD	6	N	N	C	E
ANIALIASING/SWITCHED-CAPACITOR	AD	6			C	
FREQUENCY CONTROL/DISPLAY/VFO./BAND	A	7				
OUTPUT STAGE/PRIMARY INDUCTANCE	A	8			C	
50OHM/MATCHED/TOWER/ANTENNAS/SIGNAL/NEC/HAMS/RIG	A	3	Y	N		
CAR/AUTO/PROBE TIP/DRAIN/GATE/BODY RESISTANCE	A	3	N	N	C	
LAMP CCT/8W FLUORESCENT TUBE/LIGHT/ILLUMINATION	A	2	N	N		
HEAD/VOLTAGE-INVERSION/RESONATOR/COIL	A	7	N		C	
PLUG INTO EARPHONE SOCKET/PLAY/HUM FROM THE LIGHTS	A	1	N	N		
SENSITIVITY/PROXIMITY DETECTOR	A	2			C	
DISABLE/AM. BC. BAND/FM./AGC./ANTENNA/SIGNAL	A	1	N	N	C	
\$20.00/AMATEUR RADIO'S NEWEST BAND	AD	5				
DOUBLE EXPONENTIAL PULSE GENERATOR/MEASUREMENT	A	7	N	N	C	

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READ TEMPERATURES AS HIGH AS 1800DEG F	A	1 N	N	C	
PRECISION OA./DC. SERVO TO NULL OUTPUT OFFSETS	A	2 N	N	C	
SOURCE & GATE/RESISTOR/CATHODE/PROPER OPERATION	A	1 N	N	C	
HF. BROADBAND AMP./POSITIONERS/RTD. SENSOR	AD	9 N	N	C	
CURRENT-VIEWING RESISTOR/CAPACITOR CHARGING	A	2 N	N	C	
AUDIBLE/TRAILER/CARAVAN/TOWING/TURNS	A	3 N			
~1924/WIRELESS COMMUNICATION/TRIODE/TV. AMP./DIODE	A	4 N	N	C	
STATIC REORIENTATION-FREE-PRECESSION	AD	5 N		C	
COMPUTER/CONTROL SYSTEMS/D-A/Z8/IO./CHANNEL	AD	3 N	N	C	
FREQUENCY DETECTION/SHIFT/COIL/RESONANCE	A	4 N		C	
FILAMENT/RADIOTRON/RCA/RADIO/5W	A	2 N			
VCR./TV./HOME/TRANSMITTER		6		C	
40KHZ SWEEP/CENTERED AT 10.7	A	2 N		C	
RF. TRANSFORMER/COMB FILTER/SYNTHESIZER/60-100MHZ	A	2 N	N	C	69
IMPEDANCE MATCHING NETWORKS/FORMULA		4		C	
MEASURES TEMPERATURES FROM -350 TO 400DEG C/MAXIM	AD	2 N	N	C	
FREQUENCY/FSK./PLL./RECEIVER/TRANSMITTER	DA	2 N		C	
FINAL OUTPUT STAGE GAIN-BUFFER AMP./JFET. OA.	A	3 N	N		
LARGE TICKLER/AMATEUR RADIO/VACUUM TUBE/BATTERY	A	6 N	N		
PRINTER/PORT/MICROS/COMPUTER	DA	2			
ANODE/CATHODE/CHAMBER/IONIZING PARTICLES/RADIATION	A	7 N	N	C	12
ROUTINES/SOFTWARE/READ/WRITE/27128/2716/COMPUTER	DA	9 N	Y	C	
RS232/RA & DEC/SERIAL INTERFACE/COUNTER/PPM./MOTOR	DA	8 N	N		42
MC6850 ACIA./RS-232 DRIVER-RECEIVER/TANDY/COCO 3	DA	2 N	N	C	94
READ-ONLY/IBM PC./CENTRONICS/TTL./DATA RATE/TIMER	DA	4 N	N	C	
MCA./MONOCHROMATOR/PMT./TRIGGER/IR. PHOTOLYSIS	DA	2 N	N	C	
PLL./DEMODULATING/MARK/SPACE/RTTY./ASCII.	DA	6 N			
TEST EQUIPMENT/OSCILLATOR/TONE/RECORDERS	A	4 N		C	
ACOUSTIC RESONATOR/BEAT/INDICATOR/PATTERN/ROTATE	AD	5 Y	N		
IBM PC.-AT/ORCAD-PLD./DEVELOPMENT/PAL./PEEL/ASIC.	D	6 N	N	C	
TIME DIFFERENTIAL PERTURBED ANGULAR CORRELATION	D	5 N	N	C	E/12
READY-BUSY/INTERRUPT CONTROLLER/DATA	D	5 N		C	
PHOTOCELL/DETECTOR/254NM/LIGHT/\$300/SIMPLE	A	9 N	N	C	42
KERNELS/IN ROM./APPLICATION PACKAGES/CPU.	D	2 N		C	
BINARY DATA PATTERNS/ECL./TTL./LSI-11-23/EPR./NMR.	D	9 N	N	C	
OA./RANGE SWITCH/FET./SCANNER/PHASE SPACE	A	3 N	N	C	61
AUDIO, ULTRASONIC/DIVIDER CHAINS/64 STEPS	AD	2 N	N	C	
POWER FET./HOME ENTERTAINMENT/TV./IBM PC.	DA	9 N		C	
INVERTING-BUFFER/REGULATOR/HOLOGRAPHY/PHOTOGRAPH	AD	6 N	N	C	
ADDRESS DATA/CONTROL LOGIC/PROM./ECL./TTL.	D	6 N		C	
PULSE/CMOS./TTL./LOGIC GATES/ESD./LATCH-UP/FET.S	DA	4 N	N	C	
MCS-51/SENSOR/DETECTOR/RH./1-100%/-50 TO +150DEG C	DA	6 N	N	C	
1HZ OSCILLATOR/SCHMITT TRIGGER/GATE	DA	1 N		C	
HARDWARE ENGINE METHODOLOGY	D	3			
16K TO 64K OR 64K TO 256K/COMPUTERS/XT/BIOS./DMA.	DA	7 N	N	C	
INTERFACE/PROTOCOL/CMOS./COAXIAL CABLE	DA	7 N		C	
5101/RAM./Z80/DATA/9-BIT ADDRESS BUS/ENABLE/BIT	D	2 N	N	C	
BLUE-SENSITIVE PMT./MONITORS/DETECTION/FLUXES/LEAF	A	6 N	N	C	
ENGINE FUEL CONSUMPTION RATE/CALCULATIONS/SENSOR	D	7 N	N	C	

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RADIO AMATEUR/DIGITIZED SINE-WAVE/WALKING-RING	DA	7 Y	N	C	
COMPUTER/RS-232 & RS-485/PL-LINK/X-10/REMOTE/IR.	DA	9 N	N		
CPU./INTERFACE/LED.S/PC.-AT/"PC. COMPATIBLE"	D	9 N	Y		AY
NO TRUNCATION/NAND GATE/HARMONICS	D	1 N		C	
LED. READOUTS/HEX-TO-T-SEGMENT/COMPACT	D	1 N		C	
FLOPPY DISKS/PERIPHERALS/DEVELOPMENT	D	4 N		C	
QUADRANT DETECTOR/4 PHOTODIODES/FAST PIN DIODE	A	4 N	N	C	
SHIFT REGISTER/PROBES/TTL./RS-232C LEVELS/LED.S	D	2 N	Y	C	
ROM., RAM. & SHIFT REGISTER CHIPS/LSI./ARITHMETIC	D	9 N	N	C	
AUTOMATIC STOP/POWER MOSFET./OA./CMOS./LED.S	AD	8 Y	N		
PROGRAMMABLE COUNTER ARRAY (PCA)/PIA./CPU./RAM.	DA	9 N	Y	C	
MICROSYSTEMS/DATA/HIGH-SPEED/HP BASIC/33KHZ/RATE	DA	6 N	Y	C	
PB-2720/PIEZOELECTRIC/SOUND GENERATORS	D	3 N			
GATES/MERCURY SWITCH/PHOTORESISTOR/CDS	D	2 N		C	
LED./LCD. DISPLAYS/TEMPERATURE PROBE/INTERSIL	AD	7 Y	N		
LARGE-VALUE/ELECTROLYTICS/CHARGING TIME	AD	4 Y			
DPDT./CONSTANT REFERENCE LOAD/CAPACITANCE DIVIDER	A	3 N	N	C	
MEASUREMENT/RESERVOIRS/ACCURATE, INEXPENSIVE	DA	4 N	N	C	
COMPARATOR/CURRENT GENERATORS/CALORIMETERS	AD	4 N	N	C	39/61
COUNTING/APPLE II MICROCOMPUTER/IO. INTERFACE	AD	3 N	N	C	8
UNMARKED CAPACITORS/SIMPLE/SH.ING/CMOS.	AD	5 Y	N		
ANALOG MUX.S/INTERFACES/PARALLEL PORT/MEASURING	AD	6 Y	Y	C	
DISCHARGE/HYDROGEN/TUBE/1000-4000A/RISETIME <20NS	A	2 N	N	C	
PULSE WIDTH OF 4US/PRF/DUTY CYCLE/TIMER/200-2000	A	1 N	N	C	
RF. MICROSTRIP/L-BAND LIMITER/LOW-POWER/PIN DIODE	A	5 N	N	C	
INTERFERENCE/DISTURBANCES/SURGES/GLITCH/LAMP/RELAY	A	3 N	N	C	
SRAM./DUAL PORT MEMORY (DPM)/HIGH SPEED BACKPLANE	D	4 N	N	C	12
17MHZ 16-BIT/EPLD'S (ERASABLE PLD.S)/PC./UP./SCA.	DA	6 N	Y	C	
CPU./486SX/486DX/PC./DUAL PORT MEMORY/CO-PROCESSOR	D	1 N	N		
QUALCOMM/BINARY/DIP. SWITCHES/QRP/OSCILLATOR	DA	6 Y	Y	C	
RELAY/METER/FAILURE/WATER FLOW/AIR /TELEPHONE	A	4 N	N		E
RIAA/TRIODE AMPLIFICATION FACTOR/PSRR/TWIN-TRIODE	A	4 N	N		7
CHANNELS/MUX.ING/MICROCOMPUTER	DA	4 N		C	
GAS PRESSURE & FLOW SYSTEM/IMPULSE GENERATOR/GAPS	A	4 N	N	C	
PRIORITY ENCODER/MUX.ED/EPROM./ROM.	DA	4 N			
CPU./SRAM./EPROM./DAC./MULTIPLIER/POWER AMP./FES	DA	8 N	N		
UNDEFINED CONDITION/NONINVERTING CMOS. BUFFER/TTL.	D	1 N	N	C	
DOS./CRC/FDC/GATES/WRITING DATA/FORATTING	DA	2 N	N	C	
LED. CURRENT SOURCE/PHOTODETECTOR/DENSITY/BEAM	A	7 N	N	C	
PPI.	DA	4 N		C	
PULSE/PACER REJECT CCT/SH./COMPARATOR	AD	6 N	N	C	
LARGE DATA STORE/VHS/CASSETTES/SCSI./RECORDING	D	5 N	N	C	
CB./HAM/MOTOR-DRIVE/DISH/SATELLITES/DC.	A	2 N		C	
CPU./CHARACTER GENERATOR/RASTER-SCANNING	D	7 N		C	
LIGHT/HV./DYNODE/ANODE/GRID/CATHODE/CHARMONIUM	A	9 N	N	C	
LOG-RATIO AMP./PHOTOMULTIPLIER/PMT.	A	6 N		C	
DETECTORS/MUON/SCINTILLATION/HODOSCOPE	A	9 N		C	
PREAMP./BREAKDOWN/PHOTOELECTRON DETECTION/PMT.S	A	6 N	N		
DETECTORS/PHOTOCATHODE/FLASH LAMP/SENSITIVE	A	4 N	N	C	

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ZENER/ANODE/CATHODE/PULSE/LIGHT/FAST TURN-ON	AD	3	N	N	C	39
BIASING/PMT.S/PULSES/ACTIVE	A	7	N	N	C	
PARTS COST <\$1/DIODE BRIDGE/7MA/WINDING	AD	1	N	N	C	
BLOWS/HALL-EFFECT SWITCHES/PS./ROTATIONAL/TTL.	DA	7	N	N	C	42
SELECTIVITY/CROWDED BAND/IF. FILTERS/BW.	A	5	Y	N		
RECEIVER/HIGH-PASS/BAND-PASS		3				
INTEGRATED IMPULSE METHOD/COMPARATOR/ATTENUATOR	AD	7	N	N	C	
AD534/FEEDBACK RESISTANCE/DMM./DVM./PC./SIMULATOR	A	5	N	Y		
BNC CONNECTORS/RED/GREEN/AMBER/CURRENT SOURCE	AD	1	N	N	C	
PEAK FOLLOWER/ADC./INPUT BUFFER/SIZE DISTRIBUTION	AD	4	N	N	C	
ISOLATED/NONINVERTING TTL. LOGIC/DEMODULATION	D	3	N	Y	C	
COMPARATORS/UP./16/1-SHOT/RUN/STOP/STEP/AUTOSTEP	D	5	N	N	C	
ROM./CP-M/PROGRAM/PHANTOM/MEMORY/BREAKPOINT/RAM.	D	3	N	Y		
VOLTAGE COMPARATOR/K1100A/CLOCK/OSCILLATOR/SIMPLE	DA	3	N	N	C	
LOW FREQUENCIES/MULTIPLIED/100/DISPLAY/LF.S	DA	5	Y			
		2			C	
INEXPENSIVE/OSCILLATOR/DRIVER/PROCESSORS	D	1	N		C	
PLAY/AM./ENVELOPE GENERATOR/LATCH	DA	5	Y	N		
VOLTAGE & CURRENT SIGNALS/DC. SIGNAL PROPORTIONAL	AD	5	N	N	C	
DEMAGNETISATION/EDDY CURRENTS/FIELD/CURVES/POWER	A	8	N	N	C	
ACCURATE/THICKNESS/16MHZ/TTL./SPUTTERING	AD	3	N	N	C	
TTL./CMOS./LED./HYSTERESIS/TRIP POINT/NAND	DA	2	N			
DUAL-POLARITY/ARTIFICIAL (FLOATING) OUTPUT GROUND	A	4	N	N	C	
CURRENT SOURCE/RISE & FALL TIMES/FEW NANoseconds	D	1	N	N	C	
FAST COMMUNICATIONS LINK/SHARING OF DATA/BLOCKS	D	6	N	N	C	
COLORLED.S/VOLTAGE DIVIDER/REFERENCE VOLTAGES	A	5	Y	N	C	
POWER-ON SELF-TEST/BIOS./IO. BUS/FAILURE/LED.S/\$25	DA	6	Y	N		
PHOTOMETRIC/HOLOGRAPHIC/LIGHT/AMP.	A	2	N			
Z80A CPU./IO./INTENSIVE CORONARY CARE UNITS/ICU'S	D	9	N	N	C	
N-BIT COMPARATOR/TRIGGER/BUFFERS/ADDRESS/COUNTER	D	2	N	N	C	
INTERNAL COMBUSTION ENGINE/CHARGE INJECTION DEVICE	D	7	N	N	C	
MEMORY/CLOCK/ADDRESS COUNTERS/SYNC	DA	7				
FEEDBACK TEE NETWORK/CAPACITANCE/RESPONSE	A	1	N	N	C	
PCL/IEEE STD 960-1986/DECODE/PIPELINED STRUCTURE	D	5	N	N	C	
SCINTILLATION COUNTERS/DISCRIMINATORS/PMT./STROBE	D	6	N	N	C	61
WARNING/LED.S/BUZZER/8-INPUT/NAND GATE/SSR.S/DIODE	AD	2	N	N	C	
FF. METASTABILITY/ECL./ARBITER/GLITCH/CROSS-TIED	DA	3	N	N	C	
MEASURE THE VELOCITY/ACCELERATION/OA./TIME	A	3	N	N	C	
AMP./PEAK DETECTOR/OSCILLATOR/GAIN	A	5	N		C	
WIRED LOGIC/DISPLAY/ANALYZING CCT	D	8			C	42
DATA TRANSFER/BUS/SUPPORT/ADC./DAC./ARRAY	D	5	N			
FOURIER/15TH/RLC./OSCILLOGRAMS/OSCILLATION/FILTERS	A	3	N	N	C	
FLASHLAMP TRIGGER/POCKEL'S CELL/PIN DIODE/LASERS	DA	4	N	N	C	
ZX81/1K OF MEMORY IS REQUIRED/POKE/PEEK	DA	1	N			
SCHMITT-TRIGGER/SWEEP GENERATOR/1-SHOT	DA	2	N		C	
DATA/GATE PULSE/THUMBWHEEL SWITCHES/SYNC PULSE	DA	6	N	N	C	
ADDRESS-DISPLAY LED./RESET SWITCH/SPDT./ZIF.	D	1	N	N	C	
SINGLE SECTION HAS BW. OF ~150HZ/AUDIO AMP./12V	A	1	N	N	C	
HV./FLASHING/NEON LAMP/CRYSTAL	A	3	N			

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XT/UP./NMI./8259A PIC./ROBOT/ARMADILLO/EMR 1020	D	9 N	Y	C	42
SHA/SH./PULSE AMP./CHOPPER	AD	5 N		C	
TTL./3-STATE MUX./DATA SELECTOR/DIGITAL	D	2 N			
DATA BUS/MEMORY DECODING CCT/MONITOR PROGRAM/ROM.	D	1 N	N	C	
MEMORY/CONCURRENT/DEBOUNCE/DEPRESS/ANALOG SWITCH	D	1 N	N	C	
GPIB./ACTIVITY DETECTOR/HANDSHAKING/MPU./Z80/UP.	D	7 N	N	C	42
FCC/BPSK./DIRECT SEQUENCE SPREAD SPECTRUM/SS/DBM.	D	5 N	N	C	
ELIMINATES UP TO 11 CHIPS/EPROM./SRAM./PLD./LATCH	D	1 N	N		
256K BYTES OF PROGRAM MEMORY/PIPELINED	D	8 N		C	
HALL-EFFECT SENSOR/PLAY/RECORD/STOP	DA	1 N		C	
MODULUS		1		C	
POT/SENSITIVITY/VERY RELIABLE/RAPID/3 COMPONENTS	AD	1 N	N	C	
IO. ADDRESS DECODING/COMMUNICATION/HANDSHAKING/KEY	DA	9 N	N	C	
~25NS COMPARED TO THE 8255'S 150NS/35MA/2.5MA	D	1 N	N	C	
J-K FF. TOGGLE/BINARY/DENARY NUMBERS/GATING	D	2 N	N		
PHOTODETECTOR/SURFACE DISPLACEMENTS	A	6 N		C	
MAGNETIC FIELD/ADC./DAC./PROBE/CARRIER	AD	2 N		C	
PROGRAM FLOWCHART/TU.	DA	7			
X-Y RECORDER/SH./RESPIRATION/MONOSTABLES	AD	8 N	N	C	
PULSE PROGRAMMER/NMR./DATA ANALYSIS/LABORATORY	D	7 N	Y	C	
TRIAC DRIVERS/POWER/AC. CONTROLLER/8-CHANNEL/LOGIC	DA	6 Y	N	C	
BURST/SYNC/VIDEO/BLANKING/RESOLUTION	D	3 N			
BUS EXPANDER/PC./6 EXPANSION SLOTS/LENGTHS TO <5FT	D	7 N	N		
SIMPLE/PRECISION/TIME-CONSTANT/MANUALLY-TRIGGERED	AD	4 N	N	C	
SIREN/RELAY/SENSOR/ENABLE	A	1 N			
4-DIGIT DISPLAY	DA	6		C	
PACKET FREQUENCIES/1.5MIN/LOCK-UP/RELAY	AD	2 N	N	C	
MONITORS/ACTIVITY/IO./TRANSIENT OR INTERFERENCE	DA	1 N	N	C	
750HZ OSCILLATOR/AC. RECTIFIER/PULSE	A	1 N		C	
SIREN/CASSETTE/TRIGGERING/NOR GATES	D	2 Y			
AUDIO/AMP./LO./RESONANT CCT/EBS-TONE-DECODER	AD	3 N	N		
PADDLE/CW. BANDS/COMMUNICATIONS/HAMS/D FF.S	DA	4 Y	N		
BANDPASS BUTTERWORTH/STATE-VARIABLE/BIQUADRATIC	A	9 N	N	C	
DECADE COUNTER-MUX./DECODER	D	2 N		C	
AUTOMATICALLY SHUT OFF/FET./TIMER/ASTABLE	A	2 N		C	
TIMING/CHARGING/CAPACITOR/MONOSTABLE MULTIVIBRATOR	AD	6 N	N	C	
PLATE/RELAY/LF./SCR./CURRENT GAIN/INDICATION/TV.	A	6 N	N	C	E
ASTABLE MULTIVIBRATOR/PRESSURIZED GAS/REGULATOR	AD	3 N	N	C	
GRID EXCITATION/PLATES/RF./TANK COIL/ANTENNA/RADIO	A	4 N	N		
TTL./CMOS./ASCII./INPUT MUX./CONTROL LOGIC/DATA	D	3 N	N	C	
REFLECTOR/LENS/VIBRATION/MICROELECTRODES	A	9 N		C	
FILAMENT/MEASUREMENTS/PULSED GAS VALVE/GASES/SNR.	A	6 N	N	C	
FLASHING/LED.		1			
GATE ARRAYS/STANDARD-CELL IC'S/EPROM.S/LATCH/LED.	DA	2 N	N	C	
PROM.S/7-SEGMENT/OCTAL DATA LATCH/INTERFACE/IN-CCT	D	2 N	N	C	
PHA./PULSE SHAPE DISCRIMINATION	A	6 N	N	C	
PIN PHOTODIODE/0.5NS/THYRISTOR/NITROGEN	AD	2 N		C	
CAMAC/TTL./16-CHANNEL ADC./ISOLATION/PDP 11-40	D	2 N	N		
SELF-REPEATING, HV. GENERATOR/DIAC/STEP-UP/CORONA	A	3 N	N	C	

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CHARGES/DISCHARGES/SAFETY RESISTOR/WAVEFORM	A	1	N	N	C
TNC.S/RADIO/AUDIO/LED.S FLASH WITH SAME INTENSITY	A	3	N	N	
EM./AE/ROCK MECHANICS/AF./BURSTS/SIMPLE/RANDOM	DA	3	N	N	C
ON-OFF SWITCHES/DUT./CATHODE, ANODE, & GATE/9V	A	2	N	N	C
UNIPOLAR/BIPOLAR/DRIVER CCT/COILS/PM ROTOR/<\$100	DA	5	Y	N	C
LINAC/RF./BUNCHES/AVALANCHE TRANSISTOR/AMP.	A	3	N	N	C
PERIPHERALS/MEMORY/ADDRESS/DATA	D	9	N		C
PLL./PHASE COMPARATOR/DAC./PIA.S/IF./LO./SENSOR	AD	5	N	N	C
IMPULSES/PIE/TEA/CATHODE FALL/IONISATION/PIN TIP	A	8	N	N	C
FILTER CAPACITORS/117V AC./UP.S/LOGIC/PROTECTED	A	3	N	N	C
PROTECTION/IC'S/DISCHARGE CURRENT/DIODE	A	2	N		C
NAI E DETECTORS/HIGH COUNTING RATE/DELAY-LINE	A	8	N	N	C
IO. CCT/INTERRUPT & DMA./BUS CONTENTION/MUX.ING	D	5	N	N	C
MEMORY ARRAYS/FAST CONTROLLER/PROGRAMMABLE LOGIC	D	5	N	N	C
OPTOISOLATOR/PHOTOTRANSISTOR/Z80/DATA/ADDRESS	DA	9	N	Y	C
RIPPLE/NOISE/FULL-WAVE RECTIFIER/60HZ AC.	A	4	N	N	
HORN/TURN SIGNALS/CRUISE CONTROL/UP.	D	5	N	N	C
CPU./SRAM.S/ROM. PORT/TRIGGER PROCESSOR/IO./RS232C	D	3	N	Y	C
DTMF./SWITCH LINES/RELAY/MUSIC-SYNTHESIZER IC	DA	6	Y	N	C
CP-M OS./RAM. DISK/SLAVE CPU./LCD./MICROCASSETTE	DA	5	N	N	
RS-232C/TTL./TERMINAL OR COMPUTER/DATA/EIA./DAA	DA	9	N	Y	C
ACTIVE (REGENERATIVE) CLAMPING/BROWNOUT/TRIGGER	AD	2	N	N	
EXTENDED INDUSTRY STANDARD ARCHITECTURE/BMIC/CPU.	D	7	N	N	C
CATHODE/DIFFERENTIAL ABSORPTION LIDAR/HV./DETECTOR	A	9	N	N	C
MEMORY ACCESSES/PARITY/ERROR-CORRECTION CODES	D	6	N	N	C
WAVEFORM/TRANSFORMER/LV./120VAC./RECTIFIERS/RIPPLE	A	5	N	N	
LARGE SIGNAL/OUTPUT RANGE/COMMON-MODE VOLTAGE	A	4	N	N	C
COILS/ANALOG SWITCH/LPF.	A	8	N		C
BALANCED MIXER/70MHZ FILTER/UHF. TUNER/CLAMP CCT	AD	6	N	N	C
ASYMMETRICAL/HF./TRANSFORMERS	A	4	N		C
PSD./TROUGH/WATER/SUMMING/ERROR AMP./OSCILLATOR	AD	7	N	N	C
AC. OUTPUT MODULE/OPTO 22/BURGLAR ALARM	DA	3	N		C
SHUTDOWN/REFERENCE/OA./BUFFER/LOAD/R\DS(ON)	AD	1	N	N	C
INPUT NOISE CURRENT/TEMPERATURE/VOLTAGE	A	2	N	N	C
COMPARATOR/GATE/MOS./OA./CAPACITANCE/JFET.	A	9	N	N	C
AC./DC./PROBE/11MOHMS/NEGLIGIBLE LOADING/VOLTAGE	A	4	Y	N	C
BANDPASS/AGC./JFET./8-BIT CMOS./RESISTOR LADDER	AD	4	N	N	C
PRECISION REFERENCES/25DEG C ABOVE AMBIENT/WARMER	A	2	N	N	C
GROUND LOOPS/DYNAMIC PERFORMANCE/SPEED	AD	7	N		C
X-Y/DAC./EMG./PULSES/ELECTROENCEPHALOGRAMS/EEG.S	DA	5	N	N	C
ARBITRATION/MEMORY ACCESS/CPU./DECODER	D	8	N		C
TIME/SOUND WAVES/DETECTORS/FACTORY AUTOMATION/HF.	AD	4	N	N	11
LVDT./PROCESSING/PHOTODARLINGTON DETECTORS/FILTER	A	9	N	N	
HYSTERESIS LOOP/CURRENT MIRROR/SYNTHETIC NEURONS	A	6	N	N	C
RECORDING OF WEAK NMR. SIGNALS/OA./SPECTROMETERS	A	3	N	N	C
DELAY LENGTHS/PHASE DIFFERENCE/FM./PROPAGATION	A	5	N	N	C
LOGARITHMIC AMP./8048/BESSEL FILTER	A	7	N		C
ACQUISITION/LSI 11/11-2/11-23/12 BITS/LSI.	DA	2	N		C
HIGH ENERGY PHYSICS/MOSSBAUER/NUCLEAR/POLARITY	A	3	N	N	C

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AUDIO AMP./RADIO/RELAY/SIMPLE/NEON LAMPS	A	2	N	N	
TRICKLE/TAPER/HAND-HELD SETS/PACK/METER/CURRENT	A	2	N	N	
SSR./TEMPERATURE/HEATED PLATE/TEXTILE FABRIC/WOOL	A	5	N	N	C
FEEDBACK RESISTOR/INVERTING & NON-INVERTING INPUTS	A	5	N	N	
TOO SLOW/TOO FAST/RECORD/PLAYBACK/1KHZ	A	2	N	N	C
DATA STREAM/COMPOSITE VIDEO PLUS BLANKING & SYNC	DA	6	N	N	42
EQUIVALENT TO INTEL 8085/SOD/FUNCTIONAL FAILURE	D	5	N	N	C
TRACK-HOLD/T-H/8X8 RAM./SINGLE ENDED/DIFFERENTIAL	DA	3	N	N	C
SIMPLE & INEXPENSIVE/KEITHLEY 602 ELECTROMETER/FIM	A	4	N	N	C
FEEDTHROUGH ATTENUATION/PHASE LINEARITY/SIGNAL	AD	6	N	N	C
FEEDBACK/FEEDFORWARD/LOOP GAIN/CORRECTION/THD.	A	6	N	N	C
MOSFET.S/METER DRIVER/OSCILLATORS/RUGGED/INDICATOR	A	2	N	N	C
VAN DE GRAFF ACCELERATOR/BEAM/SWITCHING MAGNET	A	5	N	N	C
RESONANT CCT/WITHIN ~3S/DPM.S/Q METER/AMP.S	AD	5	N	N	C 11
GTO./TRIGGER/"FLASH-ON"/TRIAC/SCR./SUS/UJT./PUT	A	9	N	N	C
SUPPRESSING/SYNC-PULSE LEVEL/AUDIO	A	4	Y		C
WIDEBAND FM. RECEIVER/DIGITAL DATA COMMUNICATIONS	AD	7	N	N	
OSCILLOSCOPE/DIGITAL AUDIO/0.01% OF 5V	AD	8	N		C
88100/CMMU/DUAL-BUS/ZERO-WAIT-STATE/IO./RAM./DMA.	D	4	N	Y	C
CMOS./MONOSTABLE MULTIVIBRATOR/PULSE	D	1	N		C
COMPARATOR VARIABLE-DELAY/PUSH-PULL	AD	9	N		C
FET./INSTRUMENTS/CRO./AUTO-ZERO CCT/INTEGRATOR	AD	9	N	N	
1-SHOT/AMP./PHOTOMULTIPLIER/SAMPLING OSCILLOSCOPE	AD	8	N	N	C
CORRECTION/GATED-SYNC SCRAMBLING/VIDEO/BLANKING	AD	5	Y	N	C
TRANSDUCERS/CMOS. MICROCOMPUTER/PRESSURE	DA	8	N		C
GLITCH/EVALUATION PCB./LINEARITY	AD	1	N		C
A-T0-D/S-TO-N RATIO/COUNTER/SELF-TEST	DA	4	N		C
WIDE DYNAMIC RANGE/SYSTEM CALIBRATION/PGA/DAC.	DA	8	N	N	C
IMPEDANCE/TRANSMISSION LINES/SWR./OSCILLOSCOPE	DA	4	N	N	C
BLINKING/FLASHES/CHARGING TIME/DC./CALIBRATION	A	4	Y	N	
ALARM-CLOCK/ROM./RADIOTEXT/16-DIGIT DOT-MATRIX	DA	1	N	N	C
MGP5N50/BIPOLAR/MAINS SWITCHING/GTO./TURN ON/OFF	AD	5	N	N	
INDUSTRIAL CONTROLLER/ROBOT-WELDER/UP./ENGINE/DAC.	DA	9	N	Y	C
TRANSISTORS/SPIKES/PULSES/LISTENING/FEEDBACK	A	4	N	N	C
"SUPER-DIODE"/PN JUNCTION/BACK-TO-BACK/CW./SIGNALS	A	2	N	N	C
TRIAC/VALVE/PUMP/MOISTURE CONTENT/PLANTATION	A	1	N	N	C
EPROM./APPLICATIONS/MONITOR PROGRAM/ADDRESS/DATA	D	6	N	N	C
SILVERED/DEWAR/PULSES/IGNITION COILS	AD	2	N		C
25PS/DYE LASER/LIGHT/DECAY SPECTRA	AD	3	N		C
AF. NOTCH FILTER/VARACTOR DIODE	A	8			
LEP/ECL. PROM./OP-CODE/ENERGY TRIGGER/DATAWAY	D	5	N	N	C
EASIER-TO-USE/ONLY 2 WIRES/AUDIO/MICROPHONE	A	3	N	N	C
SENSORS/TIME-OF-DAY CLOCK/EMULATOR/UV.	DA	9	N		C
EXPANSION/SNR./INCREASE OF 10-20DB/IMPROVE/QUALITY	A	2	N	N	
PHASE LAGS/LOOP GAIN/SWITCH/DELAYS/TRANSISTORS	A	1	N	N	C
INTEGRATOR TIME CONSTANT/1MS/1KHZ/ADM./DECODER	A	7	N	N	C
COMMUNICATION LINK/BINARY PSK. (BPSK)/RADIO/RF.	D	5	N	N	
CURRENT MIRRORS/SOURCE FOLLOWER	A	4	N		C
OA.S/CHARGE MEASUREMENTS/INTEGRATION PREAMP.	AD	3	N	N	C 7

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	A	1	N	N	36
BOOT ROM./SMARTWATCH/RTC./XBIOS./ANSI.	D	2	N	N	
OSCILLOSCOPE/LISSAJOUS PATTERN/90DEG EXACTLY	AD	4	N	N	
INPUT IMPEDANCE IS 50OHM/NIM LEVELS/DC. COUPLED	AD	5	N	N	C 61
DRIVEN INTO SATURATION/CURRENT/CONDUCTION	A	1	N	N	
MOV.S/TRANSFORMER-ISOLATED/OPTOISOLATOR/PULSE	AD	2	N	N	C
RIPPLE COUNTER/BURST OF 8 BYTES/1KHZ SINE WAVE	AD	2	N	Y	C
NIM/TAC./TDC./ECL./COUNTER/DECODER/SCHMITT TRIGGER	D	4	N	N	C
SIMPLE/INEXPENSIVE/DISPLAYS/BAUD-RATE	D	1	N		C
TDR./SURFACE CURRENTS/PROBE	A	7	N	N	C
NORMALIZING AMP./P-I-N DIODE RECEIVER/NATURAL LOG	A	6	N	N	C
IEEE-1149.1/BUILT-IN SELF-TEST (BIST)/ASIC./PSA	D	8	N	N	C
CAMAC DATAWAY/ALU./LEP/ACQUISITION/TRIGGER/INPUT	D	4	N	N	C
DRM68K/LAN./16-32-BIT/MICROSYSTEMS/CPU./RAM./DMA.	D	8	N	N	C
MOVING-COIL METER/COMPARATOR SELECTS OA./AC.	A	2	N	N	C
LINEAR TECHNOLOGY/THERMAL/PEAK, RMS., & AVERAGE	AD	7	N	N	C
IMAGE/CAMERA/HIGH-SPEED/VIDEO/COUNTERS/DIGITIZE	DA	6	N	N	C
2M TRANSCEIVER/IF./INTERDIGITAL FILTER/SRD./LNA.	A	9	Y	N	
MONOSTABLE/SALLEN & KEY 2ND-ORDER/PHRENIC NERVE	AD	5	N	N	C 42
CAPILLARY/HIGH GAIN/LAPLACE TRANSFORM/VISCOSITY	A	4	N	N	C
FEEDBACK/POSITIONING/DC. MOTORS/RELAY/ORBIT/SECAM	DA	9	N	Y	3
DROOP/12-BIT DAC./COMPARATOR/INFINITE HOLDING TIME	AD	3	N	N	C 61
DMA./ERROR DETECTION/CORRECTION/CHIP/CPU.	D	9	N		C
DAC./VIDEO PROCESSOR/SQUARE-ROOT CCTS/AMP./DATA	AD	8	N	N	C
PSD'S/4 ELEMENTS/CW. LASER BEAM/RISETIME TESTS/ION	A	9	N	N	C
PLL./21.116MHZ/HELIUM FILM/2F MODE	A	3	N		C
COMPUTER/RAMP/GAIN/VCA.	AD	1	N	N	
TEMPERATURE/SENSOR/THERMAL TIME CONSTANT/2HZ/0.1S	A	6	N	N	C
CROSSTALK/NEGATIVE GOING PULSE/RIBBON CABLE/TTL.	D	9	N	N	C
RAMDAC./PC.S/GRAY-SCALE/GRAPHICS-ATTRIBUTES/UP.S	DA	8	N	N	C
RINGING/UNWANTED/DECODER/OPTOISOLATOR	AD	4	Y		C
DAS./IBM PC./ADC./SCAN CONTROL UNIT (SCU)/LIF	AD	7	N	N	C 42
REFERENCE/INSTANTLY & ACCURATELY/VCO./INTEGRATOR	A	2	N	N	C
ZERO-CROSSING COMPARATOR/OVERDRIVE/95DB/1KHZ	A	1	N	N	C
+/-2%/OA.S/JOHNSON/SHOT/FLICKER/TRANSISTOR/RESISTOR	A	5	N	N	C
HIGH-SPEED DATA-COMMUNICATIONS/LED./MULTIVIBRATOR	DA	2	N	N	C
TAIL CANCELLATION/CLIPPING/MWPC.S/GAS MIXTURES	A	9	N	N	C
GC./IDMS/GCMS/CHEMICAL PRETREATMENT/DETECTION/CH7A	A	5	N	N	
MEGOHMMETER/HIGH-RESISTANCE/SOLUTIONS	AD	8	Y		C
PROTOTYPING CARD/ZERO OFFSET/UP./GATES	AD	4	N	Y	C
VOLTAGE DIVIDER/RESISTANCE/PROGRAM/ALGORITHM/DAC.	AD	3	N	N	C
ANALOG DEVICES/500MHZ/GILBERT CELL/NOISE/WHITENING	A	6	N	N	C
DVM./CELL RESISTANCE/0-10KBAR/INDICATOR	A	2	N		C
REFERENCE/SENSOR/TRANSDUCER/TESTING	AD	5	N		C
DAC./UP-DOWN BINARY COUNTER/OA./COMPARATORS/TIMER	AD	7	N	N	
MIXING CRYSTAL/PARAMETRIC UP CONVERTER	AD	2	N		C
CHROMA/COMPOSITE VIDEO/EXTRACTOR/VCR./COMPUTER	A	6	Y	N	C
CURRENT TO VOLTAGE CONVERTER/LOW NOISE, HIGH GAIN	AD	3	N	N	C
PS./4W/REGULATED/TRANSEPIDERMAL WATER LOSS/LST	A	5	N	N	C

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FILTERS/MICROPHONE/LINEARIZE/SHOW/LASER PATTERNS	A	4	N	N	
INTERFACE LOGIC/DUAL &/LOADS	D	4		C	42
BAKER-CLAMP/POWER-TRANSISTOR SATURATION/COLLECTORAD		7	N	N	C
FIT INSIDE MONITOR/UP./XQC8200/X-WINDOW CONTROLLER	DA	2	N	N	C
TRUE RMS. VOLTAGE CONVERTER/'CANYON'	A	3	N		C
IRRADIATION/HIGH DOSE RATE/TRANSISTORS/GAIN/BETA	D	6	N	N	C
PROGRAM OPTION SELECT (POS)/UP./ARBITRATION/PS-2	D	4	N	N	C
QUADRATURE/CONTROL VOLTAGE/INEXPENSIVE	AD	5	N	N	C
LCD./DPM./HIGH INPUT IMPEDANCE/200MV-RMS./AUDIO	AD	2	N	N	
N ₂ LEVEL CONTROLLERS/OA./GERMANIUM/BIAS/DC./CMOS.	AD	3	N	N	C
AMP.S/TE DIODE JUNCTION OF FET./P-N/6 DECADES	A	5	N	N	C
ADC./BUFFER AMP./HIGH CMR./AC.-DC. CONVERSION	AD	9	N	N	C
CONJUGATE MATCH/STABILIZATION/GAIN COMPENSATION	A	6	Y	N	
RF. CHOKE/TRANSISTOR/INTERSTAGE MATCHING/INDUCTORS	A	2	Y	N	
RATIOMETRIC/TEMPERATURE SENSOR/BUZZER/CLAMPING	AD	7	N	N	C
EM. FIELDS/CABLES/RF. CURRENTS/TEM. CELL/DUT.	A	5	N	N	
PHANTOM SUPPLY/PS./COAX CABLE/BETWEEN 40MHZ/860MHZ	A	2	Y	N	
VCO./DLTS./SIGNETICS/RED LED./SCHOTTKY DIODE/CRO.	A	3	N	N	C
CLOCK PULSES/GATING/DISPLAY/MONOSTABLE	D	5	Y		
EMITTER FOLLOWER/VERY FAST, LOW IMPEDANCE BUFFER	A	5	N	N	C
BIAS RESISTOR/RF. BYPASS/MICROSTRIP SUBSTRATE	A	4	N	N	C
TTL./VOLTAGE COMPARATOR/COSMIC LOGIC UNIT/DAS.	AD	3	N	N	C 73
SSR./PHOTOVOLTAIC STACK/LED./COMPUTER SIMULATION	A	7	N	N	C
HALL-EFFECT SENSORS/TTL./SPEED/DIRECTION/BRAKING	DA	2	N	N	C
COMPARATORS/SERIAL ANALOGUE/DELAY LINE/LOGIC/AMP.	AD	5	N	N	C
TURNKEY BULLETIN BOARD	DA	9			C
LASER PULSES/VOLTAGE REFERENCE/PEAK	AD	3	N		C
DIGITIZING/SPEECH/SIGNAL PROCESSING/DECODER/PCM.	AD	4	N	N	
ELECTRONIC MODEL SYSTEMS/R-C CAR/FORWARD/MOVEMENTA		2	N	N	
TRANSMISSION/HF./PICTURE/BW. OF 3KHZ/IMAGE	A	1	N	N	C
MAGNETICALLY COUPLED/INDUCTORS/COIL/HV. ISOLATION	AD	2	N	N	E
IF. FILTERS/RF./ISI./RADIO/FM./ALL PASS NETWORK	A	5	N	N	
PERISTALTIC PUMP/ELECTRIC MOTOR/SAMPLE LOOP	A	2	N	N	
OA./MONOSTABLE MULTIVIBRATOR/N ₂ -50/HF./UV./100HZ	DA	2	N	N	C
FREQUENCY RESPONSE/ATTENUATION/28DB/48DB/BLOCK	AD	4	N	N	
COMMUNICATION/20MHZ/QUADRATURE PSK./PRK/SPURIOUS	A	7	N	N	98
BEAM VERTEX DETECTOR/"TIME EXPANSION CHAMBER"	A	9	N	N	C
BETTER-THAN-TEFLON PERFORMANCE/AMP./INTEGRATOR	AD	5	N	N	C
STRIPS/PSPP DETECTOR/STOP/HEAVY IONS/PCB./PPAC	A	5	N	N	C
UNITY-GAIN STABLE/ADJUSTABLE/DRAWS 12MA MAX/SCOPE	A	1	N	N	C
ANALOG SWITCH/GAUSSIAN/FEEDBACK LOOP/DISTORTION	AD	4	N	N	C
OA./AUDIO/ACTIVE FILTER/CUTOFF FREQUENCY/AF. AMP.	A	3	Y	N	C 45
RF./SWITCH/CAMAC/GUARD RING/RECTIFYING CONTACTS	AD	7	N	N	C
IM/BANDPASS/2KHZ/HF. THD./CCIF/CORDELL/STABILITY	A	9	Y	N	
WITHIN 3DB/8KHZ TO 1GHZ/PREDISTORTION CCT/BIAS	A	9	N	N	C
OPTICAL TRANSDUCER/ANALOG SWITCHES/CARDIAC/MUX.	A	9	N	N	C 27/42
I TO V/COMPARATOR/FET. SWITCHES/MAMMOGRAPHY/PHOTOMA		8	N	N	C E
AVERAGING/DC. OFFSET/HIGH-PASS FILTER	A	4	N		C
PULSE WIDTHS/DAC./CURRENT-TO-VOLTAGE/HIGH-SPEED	AD	9	N	N	C

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TIMING SIGNALS/TERMINATION/RECEIVER/BI-DIRECTIONAL	DA	3	N	N	C	
SMD./OA./FEEDBACK LOOPS/"LONG-TAIL PAIR"/CERN.	A	6	N	N	C	
8 CHANNEL SUBMUX./RF./STRIP DIODE CAPACITANCE	AD	5	N	N	C	
HIGH-CURRENT, LV./LOAD/ON-RESISTANCE/MOS./SWITCH	A	5	N	N	C	5
BATH/DRIVER/SPEED/TACHOMETER/PWM./COMPARATOR	AD	6	N	N	C	
GATE/SWITCH OFF 1000A IN 100US/25KV/5HZ/RAILGUN	A	6	N	N	C	
"SNIFFS OUT"/SOUNDS AN ALERT/LIGHTS A LED./NICD.	A	9	Y	N		
DETECTION OF ALCOHOL/BREATH ANALAYZER/RESISTANCE	AD	3	N	N		42
SMALL/FEEDBACK/DC.-TO-DC. TRANSFORMER/VOLTAGE	AD	9	N	N	C	
MOSFET. FULL BRIDGE/SQUIRREL-CAGE/WIND ENERGY	AD	9	N	N	C	
SINGLE EVENT UPSET HARDNESS/IRRADIATION/LATCH-UP	AD	6	N	N	C	
PHOTOMULTIPLIER/200NS DELAY LINE/CABLE	A	3	N	N	C	
PCM./16 INPUT CHANNELS/BW. OF 20KHZ/12-BIT/Z80/VSP	AD	4	N	N	C	
500KHZ TO 1GHZ/NATIONAL SEMICONDUCTOR/FEEDBACK	A	2	N	N	C	
3 TRANSISTORS/2 BUFFER AMP.S/PER 1 CHANNEL/TRIGGER	A	5	N	N	C	
CAPACITANCE VERSUS VOLTAGE/BIAS CURRENT IS <0.5FA	AD	3	N	N	C	
SENSITIVITY/~0.25UA MTORR^-1/ELECTRON COLLECTOR	A	2	N	N	C	
AVOIDS DISTORTION/DETECTS SIGNAL POLARITY	AD	1	N	N	C	
BUFFER/P-I-N PHOTODIODES/POSITION DETECTORS/HE-NE	A	3	N	N	C	
RF. NOISE/REDUCTION/HIGH-SPEED AMP.S/LC./TOF.	A	2	N	N	C	
10KHZ CLOCK/ECG./MEMORY EXPANSION PORT/HISTOGRAM	DA	7	N	N	C	
INTERFACE/ADAPTER/BUFFER/CPU./UNIX/COMPUTERS/DMA.	D	3	N	N	C	
75DB DYNAMIC RANGE/CHARGE INJECTION	A	2	N		C	
DAC.S/INTERFACE/IBM PC./2-PORT RAM./LINK/AIM HOST	D	9	N	N	C	
FERRITE TOROIDS/HV./CURRENT OVERDRIVE/GATE/PULSES	AD	4	N	N	C	
TUNNEL DIODE/COAXIAL/OSCILLATION/FLUIDS	A	5	N		C	
PROGRAMMABLE/RAM./DUAL-PORT BUFFER/ROM.	D	5	N		C	
FET. INPUT/LOW NOISE/I-V/GUARD/LOCK-IN AMP.	A	4	N	N	C	
OPTOELECTRONIC/LCD.S/LED.S/CRT./ELECTROLUMINESCENT	D	9	N	N	C	42
RESISTOR/DATA TRANSFER/SPEAKER/AUDIO/2V/FLICKER	A	1	N	N	C	
~32LB/MAMMOTH/TRANSISTORS/ZENERS/GROUNDS/HUM/PS.	A	9	N	N		
TRANSMITTER/MORSE CODE/AUDIBLE BEAT NOTE/DIODE	A	3	N	N	C	
RF./UHF./PROJECT	A	3				
SIPMOS.-FET.S/EG & G/HV./PHOTODIODE/GATES	A	2	N	N	C	
LIGHT-WAVE COMMUNICATIONS/LISTEN/VIBRATE/GLASS	A	6	N	N	C	
12-BIT/10MHZ/SUBRANGING CONVERTERS/	AD	2	N	N	C	
CURRENT FEEDBACK/150MHZ AT -3DB/PULSE/LIGHT/SENSOR	A	8	N	N	C	
PUSH-PULL OSCILLATOR/RF./TANK CCT/TEST/25MHZ/Q	A	3	N	N	C	34
VOLTAGE DIVIDER-COMPARATOR		4				
RECTANGULAR-WAVE GENERATOR/POWER AMP./BUZZER	A	1	N	N		
REFERENCE VOLTAGE/COMPARATORS/OA.	AD	1	N			
COMPARATOR/TTL.-ECL.: LEVEL TRANSLATOR/SHAPER/RC.	AD	6	N	N	C	
CASCADE/PREAMP./CW./NF./TRANSFER FUNCTION	A	6	Y	N		
LOW-DRIFT HIGH-LINEARITY ISOLATOR/PRE-BIASED/CMRR.	A	3	N	N	C	
CROSSOVER DISTORTION/PHASE-FREQUENCY COMPARATORSAD	AD	4	N	N	C	
ELECTRONIC CROSSOVER/POWER AMP.		5				
EFFICIENCY: ~80%/PWM./FET./SWITCHES/VFC./GENNUM	A	8	N	N	C	
NO CONTACT, HIGH SPEED/CORES/EXCITING COIL/MOTION	A	3	N	N	C	
EXTERNAL TIMING CAPACITOR/FILTER/LED./SPEAKER	A	7	N	N	C	

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SIMPLER/PULSE GENERATOR/UNITY-GAIN/JFET. BUFFER	A	3 N	N	C	
DRAM./IO./VIDEO CONTROLLER/CPU./DMA./COLOR/DISPLAY	D	6 N	N	C	
FLASHING/DRIVER/LIQUID-SENSOR PROBES/MOISTURE	A	5 Y	N		
OVERSHOOT & RINGING/<0.03%/LF./4TH-ORDER BESSEL	A	1 N	N		
OA./FEEDBACK CCT/HENE (HELIUM NEON) LASER/LIGHT	A	2 N	N	C	
CMRR./AUDIO/HI-FI/VOLTAGE AMP. STAGE/VAS/THD.	A	5 N	N	C	
SOLAR PANEL/DIFFERENCE/GRADIENT/RELAY/CURRENTS	AD	2 Y	N		
FILTER/DMM./DVM./SUNLIGHT/WAVELENGTHS/ATMOSPHERE	AD	9 N	N		
AUDIO/TILT CONTROL/FEEDBACK GAIN CONTROL/SHELVING	A	7 N	N		7
RECORDER/DEMODULATOR/CODE/STATION/TTL.-COMPATIBLE	AD	2 N	N	C	
VOSY/LIGHT INDICATOR/FLASH/RESTRAINT/CAGE/BALLOON	AD	9 N	N	C	
CPU./16-BIT/PHOTODIODE/PARAMETERS/DAC./ADC.	DA	6 N		C	
		2			
DC. TO DC. CONVERTER/ISOLATOR/PLASMA	A	1			
BIQUADRATIC/DELIYANNIS-FRIEND/POLES/Q/CASCADING	A	7 N	Y		
DE-EMPHASIZE HF. NOISE/RC./AMP./BREAKPOINT/TUNABLE	A	3 N	N	C	
DRIVER/VCO./OSCILLATOR/NAND GATES/PWM./LOSSES	AD	9 N	N	C	
TIMING LOGIC/RATE METER/LOCKOUT/INTERRUPT CONTROL	AD	6 N	N	C	61
LC. OSCILLATOR/FREQUENCY STANDARD/CALIBRATOR	DA	5 N	N	C	
VARIABLE/7.5 TO 8.8GHZ/SPICE/DC. DRAIN/SIMULATION	A	7 N	N		
TIBUS-MISTIC/PAGE STORE/UP./MPU./UART./PRESTEL	DA	7 N	N	C	
8 WAY ANALOGUE SWITCH/LED.S/SMOOTHING CCT/BANDPA	AD	7 Y	N		
MN-RE812/CURRENT-TO-VOLTAGE CONVERTER/10V/12 BITS	AD	1 N	N	C	48
NEMOTO RESISTIVE SEMICONDUCTOR/LED.S/DETECTION	AD	6 Y	N	C	
HIGH-END LAN./ADVANCED MICRO DEVICES/SRI/ISDN.	D	6 N	N	C	
50OHM/IMPEDANCE/VIDEO/DISPLAY/EXPONENTIAL/LINEAR	A	7 N	N		
HIGH GAIN/POSITIVE FEEDBACK/BISTABILITY/THRESHOLDS	AD	6 N	N	C	
OA.S/BUZZER/TEMPERATURE/POSITIVE FEEDBACK/VOLTAGES	AD	4 N	N	C	
ADDRESS DECODE/MEMORY/TIMING/PASSS/IO. MODE/UP.S	D	6 N	N	C	
REFERENCE/COMPARATOR/OSCILLATOR/5 TO 30VDC./ALARM	A	1 N	N		
TIME RESOLUTION/DYNODES/SHUNTED BY CAPACITORS	AD	7 N	N	C	
ANNUNCIATOR/TEMPO/SPEED/TIMBRE/TONE/SONG/SOUNDS	A	4 Y	N	C	
INEXPENSIVE/CONTRO/TO NEAREST 0.01V/VOLTAGE	A	3 N	N	C	
CONVERTED TO DC./OA./SOUND EFFECTS/PITCH/INDUCTORS	A	4 N	N	C	
MICROCODE PROGRAM/18 BYTES/8088 UP./INSTRUCTIONS	DA	3 N	Y	C	
TIMING PERIOD/INTERNAL COMPARATOR/PULSE	AD	1 N			
TIME-RESOLVED STUDIES/PHOTOMULTIPLIER/RATEMETER	AD	2 N	N	C	
LOUDNESS CURVES/FREQUENCY/BOOSTED/COMPENSATION	A	1 N	N	C	
AMPLITUDE & REFERENCE INPUTS/+ -15V PEAK/LOGIC/TEST	DA	1 N	N	C	
MCP./PIN PHOTODIODE/HIGH-SPEED AMP./ADC./PULSE	AD	7 N	N	C	15/25
CLIPPED/NOTE/FOOT SWITCH/GUITAR/FILTER-SWEEP/OA.	A	3 Y	N		
CLOCK/UART./4800 BAUD/DISK FORMATS/FILES	DA	5 N		C	
UNIX-BASED/COMPUTERS/DSP./FFT./ADC./DAC./MEMORY	DA	7 N	N	C	
NICD-, CARBON-, & ALKALINE-TYPE/REFERENCE	A	2 N	N	C	
FAST RISE & FALL TIMES/HIGH-POWER	A	2 N		C	
STABLE 12 BITS/MUX. SIGNALS		6		C	
BATTERY LOW/BARGRAPH/BUZZER/GUARD/KETAMINE	A	2 N	N	C	
GRAPHICS DEVICES/CONTINUOUS CO2 WAVEFORM DISPLAY	A	2 N	N	C	
SOURCE FOLLOWER/JFET./STABILITY/BW./FEEDBACK	A	2 N	N	C	

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OPTICAL/FREQUENCY TO VOLTAGE/TELEMETRY/DATA/REMOTEAD	6 N N C
R-WAVE TRIGGER/MICROCOMPUTER/DAS./QRS NOTCHING	AD 9 N N
-9W/RIAA CURVE/POWER TRANSFORMER/RF. BEADS/BRIDGE	A 6 Y N
HANDSHAKING PROTOCOLS/MINIMUM OVERHEAD/REGISTERS	D 6 N N C
PATTERN OF OPAQUE BARS/"PWM."/CONSTANT 20MA/LED.	A 2 N N C
MULTIMETER/CHANNEL PLATE/HPIB/FILTER	DA 6 N C
OVERHEAT LED./NTC. THERMISTORS/COMPARATOR STRING	A 3 Y N
FEEDBACK LOOP/LATCH UP/GROUND/DIGITAL/OSCILLATOR	AD 1 N N C 46
ISOLATION AMP./EMITTER FOLLOWER/IMPEDANCE/RF.	A 5 N N
PHOTODIODE/PHOTOCURRENT/TTL.-TO-ECL./CAMAC	DA 3 N C
360DEG RANGE IN 4096 STEPS/VFC./ABSOLUTE VALUE	DA 3 N N C
8 BIT/12 BIT ADC./ICL7109/SERIAL PORT/RS232C/RS423	AD 9 N Y C 42
DELAY & PULSE GENERATOR/EOC./COUNTERS/DAC./DEMUX.	DA 5 N N C 28/AL
OSCILLATOR/DIVIDE-BY-59659 CHIP/CRYSTAL	DA 5 N C
2-BAND TRANSMITTER/VFO./ODD HARMONICS	A 3 Y
DIRECTIONAL ANTENNAS/FIELD-STRENGTH	A 3
VOLTAGE-STEP DRIVE/RAMP RESPONSE/AC./BELOW 1US	A 9 N N C
END TO END/PASSIVE/ZENER DIODES/OHMMETER/AVOMETER	A 2 N N E
TUNING AID/ANTENNA TUNERS/PICKUP TOROID/DUMMY LOAD	A 2 N N
PORTS/VOLTAGE COMPARATOR/PID./MC68B00/E^2\PROM.	AD 9 N Y C
CW. TONE/COMMUNICATIONS/QRPP/STRAIGHT KEY	A 1 N N C
DIGITAL/TTL./FF./FREE FALL/NUCLEAR-COUNTING	DA 4 N N C
PROGRAMMABLE TIMER MODULE (PTM)/MC6840/MC68000	AD 7 N N C
CASSETTE RECORDER/GERMANIUM DIODES/SYNCHRONIZATION	AD 2 N N C
CONNECTS DIRECTLY/LOW CURRENT LOADING	D 4 N C
INPUT OF 0V/FLASH X-RAY/SEMICONDUCTOR/LINAC/UP.	A 6 N N C
HV. RELAYS/MACINTOSH IIFX COMPUTER/ACCURACY/0.002%	AD 5 N N C
TRANSISTORS/LINEAR/DIODE STRINGS	A 4 N N
LO./RESONANT CCTS/DIFFERENTIAL AMP./RF./TANK CCT	A 4 N N C
DIPOLE/PORTABLE MULTIBAND/COAXIAL-CABLE	A 4 N
WATTMETER/RF. PROBE/BRUENE POWER METER	A 5 Y
MONOLITHIC/PROGRAMMABLE-GAIN OA.	AD 8 C
3-30MHZ/NEAR-FIELD/RF. RECTIFIER/FIBRE-OPTIC LINK	A 3 N N C
WIND SENSORS/ANEMOMETER/TEMPERATURE	AD 9 N C
1.8MHZ/10MHZ/BUTTERWORTH/CHEBYSHEV	A 7 N
ICBM IMPERSONAL COMPUTER/DOS. V.APR-1/PC.	D 4 N C 48
40DB OF GAIN/BALANCED MODULATOR/MINI CCT MODULES	A 5 N N
LED./EXTENSION/DIAL/RING INDICATOR	A 1 C
EEPROM.S/RC./DATA/TRANSIENTS/CMOS./POWER-ON	AD 2 N N C
SINGLE-TRANSISTOR AMP./LED./CURRENT PROBE/SIMPLE	A 1 N N C 95
HV. DC./COCKCROFT-WALTON/GREINACHER/RECTIFIERS	A 4 N N C
RIG/HARMONICS/ANTENNA/RF. AMP.	A 4 N
	1 C
NOISELESS FEEDBACK/HIGH-DYNAMIC-RANGE/SW./TUNING	AD 9 N N
MEMORY/PMT./OA./MONOCHROMATOR/LUMINESCENCE/LIGHT	DA 2 N N C 39
FFT./SINE-WAVE CURE-FITTING/SAMPLING ACCURACY	AD 6 N N C
DIODES/CAPACITORS/DIP./HEADERS/CMOS.	DA 1 N
CP-M/MUSIC/UART./Z80-SIO/TURBO PASCAL	D 5 N
LO./INDUCTORS/RF./DIODE/RESONANCE/180KHZ/ANTENNA	A 1 N N

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INTERNAL VOLTAGE REGULATOR/OSCILLATOR/COUNTER/DIP.	AD	2 N	N	C	
RFI./SHIELDED ENCLOSURE/CATV. LEAKAGE/FCC/SW./FSM	A	3 N	N	C	
FREQUENCY/SPECTROMETER/RESONANT CCT/TANK CCT	A	5 N	N	C	
OSCILLATOR/18MHZ/36MHZ OUTPUT/VHF.	A	1 N			
SONIC/WIDEBAND/RANDOM-OUTPUT CCT/SHIFT REGISTER	AD	3 N	N		
JFET.S/NOISE BLANKER/MIXERS/BETTER SENSITIVITY	A	5 N	N		
LIGHT/EXCITATION/CUVETTE/LED./FILTERS/DIGITIZER	A	4 N	N	C	
MOS.		1		C	
HIGH FORWARD TRANSCONDUCTANCE/XENON FLASH/LC.	A	8 N	N	C	
LOW-COST/CONTROL/DOUBLE-INTERDIGIATED/TIL/TV.	AD	5 N	N	C	
50OHM COAXIAL FEEDLINE/REFLECTED VOLTAGE/CABLE	A	4 N	N		
SNUBBER CCT/EQUAL PWM. (EPWM)/SYNCHRONIZING CCT	A	7 N	N	C	
8BIT SERIAL-IN PARALLEL-OUT SHIFT REGISTERS/OA.	DA	1 N	N		
TRANSISTOR/NOISE/COMMON EMITTER/FOLLOWER/50OHM/EM.	A	9 N	N	C	
PLL./COLPITTS OSCILLATOR	AD	3 N		C	
AMSAT OSCAR-10/AGC./QRM/TVI/FILTERS/TV.	A	1 N			
DAC./EPROM./BINARY COUNTER	AD	3 N		C	
HIGH-POWER DARLINGTON TRANSISTORS/PULSES	A	2 N		C	
CAPACITOR/CHARGED/RAPIDLY/SLOWLY/SWITCH	A	1 N		C	
LEAKY/RISING WATER/EARLY WARNING		1			
OPTICAL/FIBER-OPTIC/GAAS./GAALAS/SCR./LIGHT/10MHZ	A	3 N	N	C	
		1			
TR7400, TR9000, ETC./I.D. MODULE	AD	2			
TRANSISTOR/PUMP/LEVEL/STEEL ROD/SCREW/12V/FLOOR	A	1 N	N		
HIGH-SPEED SUMMING NODE/TRANSISTOR/HF.S/FEEDBACK	A	2 N	N	C	
COAXIAL CONNECTOR/METAL BOX/WAVEMETER/TUNED CCT	A	3 N	N		
8 LED.S MONITOR THE DATA/+10.5V PROGRAM PULSE	D	1 N	N	C	
SCR./COAXIAL/2-CONDUCTOR TRANSMISSION LINE/CHECKER	A	1 N	N	C	95
1-SHOT/TIMER/FF./EXCLUSIVE OR/24 LED.S/ACTIVE UNIT	DA	2 N	N	C	95
PROBE VOLTAGE <~200MV/BRIDGE/BUZZER/SOUNDS	A	1 N	N	C	
		2		C	
PERCUSSION VOICING/3 TRANSISTORS/FF./TIME/INTERVAL	DA	1 N	N	C	
SLF. OSCILLATOR/GUNSHOT/EXPLOSION/SIREN	A	4 N		C	
GTO. SCR./QXR (QUADRUPOLE EXTRACTION REGULATOR)	A	3 N	N	C	
POSITIVE, 200NS PULSE FOR BACK MCP. GATING/FIELD	A	7 N	N	C	
DRIVEN/FORCED/FREQUENCY LOCKINGS/PC./SUBHARMONICS	A	7 N	N	C	
COIL/MATCHED/COAXIAL CABLE/4 K/IMPROVE THE SNR.	A	3 N	N	C	
PACKING/PULSE SIGNAL/POLYSTYRENE/SCR.	A	2 Y			
BFO. CRYSTAL/TAIL-END FILTER/SHARP/FIXES	A	4 Y			
LEVEL SHIFTER/FET. DIFFERENTIAL CURRENT SWITCH	AD	3 N	N	C	9
OA./FOIL STRIP/SPLIT PLATE/GAUSSIAN BEAM/SEM/HV.	A	9 N	N	C	
INTERFACING/BUS TERMINATION/DIP. SWITCHES/LED.S	DA	9 N	Y		AY
ACORN/GRAPHICS/IO./UHF. MODULATOR/RAM./ROM./ACIA.	DA	7 N	Y	C	
INDUCTORS/RF. COILS/FORM FACTOR/DIPPER	A	4			
CALL-PROGRESS DETECTION/HANDSHAKING/UP./INTERFACES	AD	9 N	N	C	
PI & SIGNAL-DATA PROCESSING/FLOW SYSTEM/SNR./ABCC	A	9 N	N	C	
AD7581/UP./NOISE DETECTION/OA./DIGITAL INTEGRATION	AD	7 N	Y	C	
COMMON EMITTER/NPN TRANSISTORS/HV./TRIANGULAR	A	5 N	N		
TEKTRONIX QUICKCHIP/RETURNS TO BASELINE IN <38NS	A	5 N	N	C	

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ELIMINATES LOAD-CURRENT-INDUCED ERRORS/TRANSISTORS	AD	6	N	N	C	E
DRIVE TRANSISTORS/MOSFET.S/PWM./SHAFT ENCODERS	DA	8	N	N		
MUX.ING/ECL.: OPA675/LONG-TAILED PAIRS/RF. OR IF.	AD	2	N	N	C	
PLESSEY/TDC./MUX./HV./TEST PULSE/CHAMBER/TPC./ECL.	AD	7	N	N	C	60
NESAT III/3GHZ/WIDEBAND/UHF./L-BAND/COMMUNICATIONS	A	5	Y	N	C	
TARGET-DETECTOR/ORTEC CFD 934/START/STOP/REBUNCHER	A	5	N	N	C	61
ANODE/SOCKETS/BANANA PLUGS/UNMARKED	A	2	Y			
PROPORTIONAL FEEDBACK CONTROL LOOPS/8096/COUNTER	AD	5	N	N	C	
MONITOR THE ELUTING SOLUTES/OA./LASER/MEASUREMENTS	A	9	N	N	C	42
PLATE MODULATION/BUFF. & DOUB./FINAL & DOUB./RF.	A	5	N	N		
LABORATORY/PMT./OA./DAC.	AD	3	N	N	C	E
ADC./HITACHI 63701X CMOS. MICROCOMPUTER UNIT (MCU)	AD	9	N	N	C	
LASER/SCINTILLATOR/LIGHT GUIDES/BEAM/ADC.S/DYNODE	AD	9	N	N	C	
FET./FF./DISCRIMINATOR/SCHOTTKY DIODE/ADC.	AD	6	N	N	C	
16 FAST COMPARATORS/FF.S/HV. PS./DETECTOR/HANDI	AD	6	N	N	C	12
USART./DUAL-PORT/VIDEO-RAM./BIT-MAPPED/LOGIC/CPU.	D	9	N	Y	C	
TDR./IMPEDANCE/50OHM	DA	6	N	N		
DRIVER/VSWR./IMPEDANCE MATCHING/TRANSMISSION LINE	A	6	Y	N		
MATCHING NETWORKS/INTERSTAGE/CLASS C/IMPEDANCE	A	2	N	Y	C	54
UP TO 500MHZ/MOTOROLA/FM. OR TV. BC. TRANSMITTERS	A	1	N	N	C	52
PLATES/PENCIL-LEAD RFC/RF. CHOKES/EFFICIENCY/60%	A	4	Y	N		
VOLTAGE/RELAY/60HZ/STEP-UP TRANSFORMER/BLACKOUT	A	3	N	N	C	
INVERTER OUTPUT STAGE/FLYBACK DIODE/HF./PROTECTION	AD	9	N	N	C	
CAPACITORS/TUBE/PUSHBUTTON SWITCH/RELAY CONTACTS	A	2	N	N	C	
AVERAGER/SHORT PULSES/ELECTROSTATIC/CHOP/BEAM	A	4	N	N	C	
LET/ND:YAG LASER/PIN/CURRENT PULSES/METAL/CMOS.	A	6	N	N	C	
AMPLITUDE CAN BE VARIED/HV./CHARGING/CAPACITANCE	A	3	N	N	C	
DC. TO DC. CONVERSION/1MHZ/IN CASCADE/MOSFET.S	A	9	N	N	C	
TUNE/SWITCHES/SPEAKER/9V/RC. OSCILLATOR/8 FF.S	AD	3	Y	N	C	27
FET.S/MARX GENERATOR PRINCIPLE/UP TO 1KV	A	4	N	N	C	
UP TO 87% EFFICIENCY/SWITCHING TRANSISTORS	A	7	N	N	C	
BOOTSTRAPPING/POWER/SWING/GATE-SOURCE/20HZ/20KHZ	A	1	N	N		
LOW SIGNAL SITES/WIDEBAND GAIN/FEEDBACKS/2DB NOISE	A	2	N	N		
PWM./BUCK, BOOST/QUASI-RESONANT-SWITCH (QRS)	A	9	N	N	C	
BREAKDOWN VOLTAGE/1000V/ORBIT/SURVIVABILITY/LET	A	4	N	N	C	
SPEAKER/OPTICAL FIBER/SOLAR CELLS/SENSOR	A	3	N			
TUNE/CAR/RPM./DIGITAL READOUT	DA	4			C	
CLASS E CONVERTER/SWITCHING CCT/LOADS/AMP.S	AD	6	N	N	C	
DRIVER/RESISTOR/PULSE SHAPING/COMPARATOR/AMP./QUAD	DA	5	N	N	C	
DATA/PACKET VOICE/COAXIAL CABLE TRANSMISSION/8085	D	9	N	N	C	
VOLUME/LOUDSPEAKER/SIGNAL/INTERCOM/RADIO	A	4	Y		C	
NONLINEARITIES/MOSFET.S/AMP.S/VOLTAGE/CURRENT	A	4	N	N		
HEXFET.		1			C	
MULTITASKING, MULTIUSER/VIRTUAL MEMORY/4GBYTE	D	5	N	N	C	
CALIBRATOR/CAPACTIVE BARRIER ISOLATION AMP.S/VCO.	A	6	N	N		
SSMC/SMALL/8V REGULATOR/SONG/LOW PRICE/SOUND/MOS.	A	4	Y	N	C	
TIME/INPUT/CHANNEL/READ-MEMORY/WRITE	D	6	N		C	
PICTURE/DEMODULATOR/PHOTO-DIODE	A	2	Y			
WATER/BASEMENT/BUZZER	A	2			C	

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MEDLEY/TUNES/TELEPHONE/EASY/LED./BRIDGE/PROTECTS	A	4	Y	N	C	
LOCAL BUS/CPU./REGISTER/COMPUTER/MMU/PERIPHERAL	D	6	N	N	C	
MILLIAMMETER/CCT OVERCOMES THE SPEED BARRIER/OA.S	A	1	N	N	C	
MS.-MS./TOF./TRIMS/MOS. CLOCK DRIVER/UP./DAC./RAM.	DA	7	N	N	C	47
THD./DC. COUPLING/VOLTAGE AMP. STAGE/VAS/STABILITY	A	5	N	N	C	
AMBULATORY ECG. RECORDINGS/EMG./HEART RATE/COMPLEXAD	AD	3	N	N	C	
DRIVE CCT/VARIABLE VOLTAGE VARIABLE-FREQUENCY	A	9	N	N	C	
DARLINGTON/PULSE TRANSFORMERS/CONSTANT CURRENT	A	9	N	N	C	42
INDUCTIVE LOAD/ADC.S/PC./DELAY/CURRENT PROBE/AMP.	AD	6	N	N	C	
PROTECT/EXCESSIVE CURRENT/STATIC CHARGES/LED./LDIS	A	3	N	N	C	25
HV.-HIGH-CURRENT/HIGH POWER/LASER DIODE DRIVERS	A	4	N	N		
UP. INTERFACING/DRIVER/LOAD CURRENT/NOISE/MIRROR	AD	7	N	N		
60HZ/PROTECTION CCT/PS./HEAT/AC./RESONANT SWITCH	A	9	N	N	C	
LOGARITHMIC COMPUTING/HEATER/PROTECT	A	9	N	N	C	
FERRITE/HF./SHF. TRANSISTORS/MATCHING TRANSFORMERS	A	9	N	N	C	
100KHZ EXTERNAL CLOCK/DC. SIGNAL LINE/CMOS./SHARP	AD	2	N	N	C	
VOLTAGE MULTIPLICATIONg & POLARITY REVERSAL/FET.S	AD	2	N	N	C	
COMPLEX PHASE MODULATOR/ACCELERATOR	A	9			C	
VME/MPV904/BOARD/DIGITAL SIGNAL	DA	1				
VCO./VOLTAGE-CONTROLLED OSCILLATOR	A	1	N		C	
STABILIZING/FEEDBACK LOOPS/STARTUP/CURRENT-MODE	AD	7	N	N	C	
ARBITRARY/FAST SWITCHING/FALSE TRIGGERS/ON & OFF	AD	1	N	N	C	
SINGLE-CELL 3- OR 5V/BATTERY/LOW-DROPOUT/PWM.	A	3	N	N		E
SCHOTTKY SAMPLING BRIDGE/FAST OA.S & DAC.S/UHF.	AD	8	N	N	C	
ERROR-CHECKING/MIL-STD/FLIGHT	D	6			C	
NEGATIVE DIFFERENTIAL RESISTANCE (NDR)/HIGH-SPEED	A	2	N	N	C	
COMPRESSION & DECOMPRESSION/MOTION PICTURE/DSP.	DA	2	N	N	C	10
DUT./BREAKDOWN VOLTAGE/ON-RESISTANCE/VMOS./DMOS.	A	9	N	N	C	
TRANSMISSION LINE OUTPUT MATCHING	A	9	N		C	
BROADBAND MATCHING NETWORK/VSWR./100V/MEASUREMENT	A	7	N	N		
10KH-SERIES/OUTPUT STAGE/DSP./200MHZ/7TH-OVERTONE	DA	4	N	N		57
BUFFER GAS/NEON/OPTICAL CAVITY/TUBE	A	2	N		C	
JITTER/PULSE-REPETITION RATE (PRR)/SPARK GAPS/LC.	A	3	N	N	C	
RF. AMP./RADIO/CW./POWER/433.92MHZ/AFC./EXCITER	A	5	N	N	C	28
35MBITS/MATCHES ST506/SASI BUS	D	6			C	
TELETEXT FORMAT/4800BAUD/RAM./MODEM/PRETEL/DATA	DA	4	N	N	C	
MAGNETICALLY STABILIZED/CO2 LASERS/LANGMUIR PROBE	A	7	N	N	C	
PRESSURISED/SOLID-STATE LASER/PULSES	A	2	N		C	
Z80 UP./COMPUTER/RTTY.	DA	8	N			
MELODY SYNTHESIZER/OPTOISOLATOR/PITCH	AD	3	N		C	42
DIP. SWITCHES/TUNING/1-SHOT/PITCH/SPEED	A	3	Y		C	
VOLTAGE DOUBLER/FIRES/ANODE-TO-CATHODE/10W/500HZ	A	5	N	N	C	
VFC./PWM./TRIANGULAR WAVE GENERATOR/PHASE SHIFT	AD	9	N	N	C	
117V AC./RESUMES NORMAL OPERATION/OVERCURRENTS	AD	1	N	N	C	
RADIO/FILAMENT VOLTAGES/TRANSFORMER/FILTER/CHOKES	A	3	N	N	C	
ADDRESS/UP./CONTROL LINES/MUX./CLOCK/DATA SELECTOR	D	3	N	N	C	
SOCKET/DATA/ADDRESS LINE/25V/ADAPTER	D	2	N		C	
MICROCOMPUTER/EPROM./8086/Z80/DATA/WRITE/READ	D	6	N	Y	C	
SENSING/BURNOUT/SHUTS OFF/GENERATOR/ADC.	AD	2	N		C	

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LONG JUMPS/P2/IO. PORT/SIMPLE SOFTWARE/PINS	D	1 N	N	C	
PROCESSORS/ALE/FF./NAND GATE/ACCIDENTAL WRITE/DPR	D	2 N	N	C	
INVERTER/PIPELINED/CONVERSION/STATUS/IO. FUNCTIONS	D	2 N	Y	C	
SUBROUTINE/Z80-BASED SYSTEM/ADDRESS/BYTE	D	3 N		C	
PROBE/MHD/STRAIN GAUGE BRIDGE/MERCURY	A	5 N		C	E
RIPPLE-CARRY/UP-DOWN/MAJOR-CARRY CODE/GLITCH	DA	2 N	N	C	
IBM-PC./COMPUTER/DATA-BUS/DMA./ADDRESS-DATA LINES	D	4 N	N		
JUMP-ON-RESET INSTRUCTION IN ROM./PROGRAM COUNTER	D	1 N	N	C	
TOGGLE MODE/TRIGGERED/NEGATIVE GOING EDGE	D	1 N	N		
THERMOMETER CCT/SCALING & MUX./5.5KW/HEAT/ENERGY	DA	9 N	N	C	12
SH./NAD^+/NPP-C/DOUBLE LAYER CAPACITANCE	AD	3 N	N	C	39
FOR SWITCHING FREQUENCIES DOWN TO 100HZ/LOADING	A	1 N	N	C	
BUS/MAGNETIC-BUBBLE MEMORY (MBM)/COIL CURRENTS	DA	8 N	N	C	
SCANNING/ROW-COLUMN/INTERFACING WITH A UP.	D	1 N	N	C	
ACCURACY 0.1%/UP-DOWN INTEGRATOR/AMP./CMOS. LOGIC	AD	3 N	N	C	12/42
PC. LAN.S/DATAPOINT/BITBUS/COMMUNICATIONS	D	7 N	N		
USER-FRIENDLY/SIMPLE/FLEXIBLE/NMR.	D	2 N		C	
1KRAM./PPI.S/CPU./TRISTATE BUFFERS/DATA BASE	D	8 N	N	C	
INTERRUPTS/DMA./CPU./TIMING/IO./EOC.	DA	6 N	N	C	
KEYBOARD-DISPLAY CONTROLLER/LED. DISPLAY/RECORDERS	D	5 N	N	C	
PHOTO SENSOR/INTERFACE/IO./THYRISTOR/WIRE ROD	DA	9 N	N	C	27
8 CHANNEL ADC./CRT./ANALOGUE SEQUENCE FILTER (ASF)	D	9 N	N	C	
SCA./MICROCOMPUTER/MEMORY/RADIOACTIVE/MOTOR	DA	6 N	N		
RAM./EPROM./INTEL/8080/TERMINAL/VOLUME/PRICE/PORT	D	3 N	N		
INTERFACE/MOVEMENTS/10 & 5UM/150UM-S TO 7MM-S/AMP.	DA	4 N	N		
AUTOMATIC SOFTWARE OR MANUAL RANGE SETTING	AD	1 N	N	C	
INPUT BUFFER/AMP./VERTICAL-PULSE	AD	5 Y		C	
LOGIC DESIGN TOOL/DRAFTING/COMPUTER/DRAWING	D	7 N	N	C	
1-OF-10 DECODER/DATA BUS/EDGE DETECTORS/KEYBOARD	D	3 N	N	C	
RETRIGGERABLE MONOSTABLE VIBRATOR/DEVELOPMENT	D	1 N	N	C	
CONDUCTOMETRY/SOLUTION CONDUCTANCE/DAC./ADC./MUX.	A	9 N	N	C	12/39
INVERTED CODE/DRAWS A CURRENT OF ONLY ~200UA	D	1 N	N		
CMOS./CLOCK/CAPACITOR/NAND GATE/INVERTERS	D	1 N		C	
UP.S/REALCHIP/WORKSTATION	D	8 N		C	
OSCILLATOR/HAND MUSCLES/FIRE BUTTON	DA	4 Y			
SCALER-TIMERS/COUNTING/HALF-LIFE/6502	D	6 N		C	
PLL. VCO./PHASE-COMPARATOR/DIVIDERS/METER	DA	1 N		C	
INTERFACE/PRINTER/UP. CONTROL/ROM./RAM.	D	4 N	N	C	
HEATING SYSTEMS/BOILER/THERMOSTATS/BURNER/WARMING	DA	2 N	N	C	
ROM./ZILOG'S ZRTS 8000 REAL-TIME EXECUTIVE	D	5 N	N	C	
LF./SCHMITT TRIGGER/LED.S/OA./PULSES/WAVEFORM	DA	4 N	N		
BRIDGE/AC. FIELDS/SUSPENSION/NERVE & MUSCLE FIBERS	A	6 N	N	C	
GATES/TIMER/DIFFERENTIATING CCT/MECHANICAL TRIGGER	A	2 N	N	C	
COUNTER/UART./8080A/SERIAL INTERFACE PORT/LSI.	D	5 N	N	C	3
MOD./MEASUREMENTS/READINGS/DISPLAY/SOURCE FOLLOWE	A	3 N	N		
HIGH-PERFORMANCE SYSTEMS/CPU./INTEL/RAM./CACHE	D	3 N	N	C	
FREE-RUNNING OSCILLATOR/250KHZ/REGISTERS/0.06HZ	DA	1 N	N	C	
PROCESSOR/PS.S/NICD. BATTERY/TIMEKEEPER/CMOS./RAM.	AD	9 N	Y		
WINDOW DISCRIMINATOR/VOLTAGE CLAMP/DAC.	DA	9 N		C	

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LINE/MARK & SPACE LEVELS/TERMINATES/LIMITS/CLAMPS	DA	1 N	N	C	
LED./PHOTOTRANSISTOR/VARIABLE-GAIN/SH.	AD	7 N	N	C	
TDT/TIME-DOMAIN TRANSMISSION/IMPEDANCE/TTL./CABLE	AD	8 N	N	C	
UP./RS-232C USER PORT/LEVELS/TRANSISTOR/RAM.	D	1 N	Y	C	
COPROCESSOR/IO./FLOATING POINT/RAM./STACK/BUFFER	D	9 N	Y	C	
BETWEEN 0.0001 & 0.9999/LED. DISPLAY/CMOS.	D	2 N		C	
CMOS. COUNTER DECODER/POWER MOSFET./CLOCK	DA	3 N		C	
SCR./ISOLATION TRANSFORMER/PULSES/UJT.	AD	3 Y	N		
QUENCHING/VFC.S/QUENCHING/METAL/PS./RESISTANCE	AD	3 N	N	C	
SYNCHRONOUS MODULO-N DOWN COUNTER/OSCILLATOR/CMCD		1 N	N	C	
MOMENTARY 'ON' PUSH SWITCHES/PREAMP./DIRTY/NOISE	DA	2 N	N	C	AC
SHIFT REGISTER/CLOCK FREQUENCY/BUCKETS/HEARTBEAT	D	2 N	N	C	
TELEPHONE MICROPHONE/RIG/HAMS/SHORT WAVE CRAFT	A	4 N	N		
ASTABLE/SQUARE WAVE/POWER SPIKES/ELECTRICAL NOISE	DA	1 N	N	C	
REPEATER AUTOPATCH/MOBILE RIG/COUNTER	DA	3 N			
XNOR GATE/PSEUDORANDOM-NUMBER GENERATION/P-N-CODID		6 N	N	C	
LOW-PASS/LAG-LEAD/PULSE STREAM/VCO./DELAY/GATES	DA	2 N	N		
FIXED/VARIABLE-FREQUENCY/VFO./ANTENNA/MUSIC/AUDIO	DA	4 Y	N	C	
VME-BUS/COMPUTER/DATA/DETECTOR/ADC.S/TDC.S/READOUT	D	4 N	N	C	
RESET/TTL./CLOCK PULSES/MACHINE CYCLES/CONVERTER	D	1 N	N	C	
TRANSISTOR ARRAY/MAX232/SWITCHES/DRIVE CURRENT	DA	1 N	N	C	
10-BIT/COMPUTERIZED DATA COLLECTOR/SENSORS/CHARGER	DA	9 N	Y		9
COUNTERS/PROGRAMMABLE DIVIDER/OPTOCOUPERS/60HZ	AD	2 Y	N		
CMOS./14-STAGE RIPPLE COUNTER/BRIDGE RECTIFIER	AD	4 Y	N	C	
COUPLED-PENDULUM PAIR/BOB/WILBERFORCE/RESONANCE	AD	5 N	N		
NAND GATE/FET./DIGITAL COMMUNICATIONS/RF./RADIO	DA	2 Y	N	C	
PUSHBUTTON/SWITCH DEBOUNCER/CONTACT/POLES/RESET	DA	1 N	N	C	
COUNTERS/FF. TRUTH TABLE/NOR GATE	D	2 N		C	
HOME COMPUTER/TIME/0.5S/200-300HZ	D	1 N			
DISPLAY/BATTERY/RECHARGEABLE/PHOTOCELL	DA	7 Y		C	
VECTOR IN MEMORY/DATA BUS/8/SLAVE 8259A/DETECTOR	D	2 N	N	C	
HEATER/SH./THERMISTOR/AIR	AD	7 N			
RECTANGULAR WAVE/RAMP/ZERO CROSSING	AD	1 N			
HOME AUDIO SYSTEMS/ANALOGUE INPUTS	AD	1			
ENHANCED/RAM. DISKS/PRINTER BUFFERS/TRANSFER/STORE	D	1 N	N	C	
AUDIBLE/IDENTIFY/OPTICALLY ISOLATED/LED.S/NOR GATE	AD	1 N	N		
MEASUREMENT/SPECTRAL RADIANCE/TEMPERATURES/~10NS	A	4 N	N	C	
ENHANCEMENT MOSFET./CMOS./SPST./4016B/FEEDBACK	AD	5 N	N	C	E
USART./RAM./EPROM. PROGRAMMER/TESTING LED.S/LSI.	DA	6 N	N	C	42
COMPARATORS/8-CHANNEL/CAN BE ENLARGED/CONTROL	AD	2 N	N		
SERIAL DATA LINK CONTROL/PROM./RING OSCILLATOR	D	7 N	N	C	57
INDICATOR/MONOSTABLE TIMER/LED.S/DISPLAY/CLOCK	DA	5 N	N	C	
BOB/KEEP IT SWINGING/1-SHOT/ALNICO MAGNET/LED.	AD	2 N	N	C	
PULSE WIDTH IS DETERMINED BY THE INTERNAL DELAY	D	1 N	N		
LEVEL THRESHOLDS/ZENER DIODES/DRIVE/SPEECH/LINES	AD	1 N	N		
DIVIDE BY 32 CCT/TV./PHASE COMPARATOR/VFC.	AD	3 N	N	C	
CLOCK/CLEAR/UP.-BASED/CPU./BUS	D	2 N		C	
SH./PEAK DETECTING/PANEL METER	A	2 N		C	
REFLECTION IN TIME/TRAILING EDGE/PWM./CMOS./NOR	D	1 N	N		

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TIME BASE/BCD. COUNTERS/7-SEGMENT/STRAIN GAUGE	AD	3 N	N	C	
PHASE ANGLE/PROPORTIONAL/POLARITY/25KHZ/INTEGRATOR	A	1 N	N	C	
DATABASE MANAGEMENT/RAM./ROM./STATIC TESTING/UP.	D	8 N	N	C	
DATA PATH SELECTOR/MEMORY BUFFER/LATCHES/REGISTER	DA	9 N	N		42
WALLAC/ASR33/M6800/GAMMA COUNTERS/PIA./INTERRUPT	DA	2 N	N		
XT/UP./KEYBOARD/SPEAKER/CASSETTE/MEMORY/INTERRUPT	DA	6 N	N	C	
ADDRESS/DESIGNING/TROUBLESHOOTING COMPUTER/UP.S	D	7 N	N		
& OFF LEAKAGE CURRENT/CONTROL REMOTE PERIPHERALS	DA	1 N	N	C	
DECODER/RELAYS/SERVO-MOTOR/CONVERTER	D	3 N		C	
PERIPHERAL CHIPS/MICROCOMPUTER/ROM./PORT	DA	2 N		C	
DIGITIZED/2 COUNTERS/OSCILLATOR/DIGITAL	D	2 N		C	
WIDE RANGE OF FREQUENCIES/BCD. COUNTER	D	1 N			
WAKE-UP/SLEEP/TIME DELAY/RC./MOSFET.	D	1 N		C	
INVERTERS/MULTIVIBRATOR/LED.	D	2 N			
TRIGGERING/MOVABLE MAGNET/INTERRUPT	DA	1 N			
FF./EXTERNAL CONTROL/HIGH ON SET/HALF	D	1 N	N		E
UP.S/CODE COMPACTION/BUS BW.	D	7 N	Y	C	
DIRECTION OF ROTATION/TIMER/BINARY/BCD.	DA	1 N	N	C	
LED.S/ASTABLE MULTIVIBRATOR/RC. TIME CONSTANT	D	3 N	N	C	
CMOS./ROM./INTEL HEX FORMAT/DUMP/DOWNLOAD/FILE	D	2 N	Y	C	
UP./MCS-51/DIGITALLY CONTROLLED/POTENTIOMETRY	DA	9 N	Y	C	42
COUNTERS/TIMER/DISCHARGE/CAPACITORS/GONIOMETER	DA	4 N	N	C	34
ATE./FEEDBACK/BACKDRIVING/PLA.S/DESIGN-FOR-TEST	D	6 N	N	C	
THERMISTOR PROBE/SENSOR/WHEATSTONE BRIDGE/MEMORY	DA	2 N	N	C	
DISPLAY, CONVERTED TO DECIMAL/SYNTHESIZER COUNTER	DA	1 N	N		
GENERATOR/SQUAREWAVE/INVERTERS/PLL.	DA	4 N		C	
CPU./INTERRUPT/CAPACITOR/INTERFERENCE	DA	2 N		C	
DING DONG/BUTTON/MONOSTABLE/LED.S/CALLER	D	1 N			
HOME OR OFFICE/ELECTRICAL/AC./NAND GATES	DA	1 N			
DIL SWITCHES/LED.S/FAULT/OSCILLATOR/PINS	DA	2 Y			
MODE/OPEN/SHORT/RESET/TEST LEADS/WIRING	D	1 N		C	
SPEAKER/TIMER/INTERFACE/COMPUTER/TRANSISTOR/ALERT	D	1 N	N		
60HZ DRIVEN COUNTER/CMOS./TIMER/SHIFT REGISTERS	DA	4 N	N		
RESISTOR/TO SUPPRESS VHF. PARASITIC OSCILLATIONS	A	2 N	N		
TUNNEL FREE STEAM/MONITORED/WAKE FLOW/SENSORS	A	9 N	N	C	39
SPEAKER/TRANSISTOR/SCALE FACTOR/<1MHZ/>10MHZ	DA	1 N	N		
TRANSISTOR/SWITCH/SAVE ~40%/MARK:SPACE RATIO	DA	1 N	N	C	
ADDER/COUNTER/DECODER/DRIVER/DISPLAY	D	2 N			
INSTRUCTION/CODE/INTERRUPTS/CPU./APPLE/REGISTERS	D	4 N	Y	C	
SERVOLOOP/OA./LIQUIDS/CAPILLARY RISE/SENSING	A	7 N	N	C	39
TTL. DRIVER/R.S. FF./CMOS./8255/TITRANT/INTERFACE	D	2 N	N	C	
AUTOMATE 23/THERMAL CONDUCTIVITY DETECTORS/BRIDGE	DA	8 N	Y		4
MULTIVIBRATORS/PULSE GENERATOR/ZERO-CROSSING	AD	2 N	N		
PWM. HEATING/METAL/MATERIALS/SME/TITANIUM-NICKEL	D	4 N	N	C	
BANK SELECTOR/DETECTOR/DECODER/LATCH	D	3 N		C	
CMOS. LATCH/SHUTDOWN SEQUENCE/NAND GATES	DA	1 N			
ENHANCEMENT-MODE MOSFET.S/INVERTER/CMOS.	DA	5 N		C	
MOMENTARY LOSS OF POWER/TESTING/RESPONSE/LOAD	DA	2 N	N	C	
SYNCHRONOUS MODULO-N DOWN COUNTER/OSCILLATOR/100	D	1 N	N	C	

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ADC./CAN BE SUMMED/DATA/RECORD/FREQUENCY DIVIDER	DA	1	N	N	C	
REFERENCE/1-SHOT MULTIVIBRATOR/JAMS/CLOCK RATE	D	1	N	N	C	
VETOING PULSES/FAST/REAL TIME/PLASTIC SCINTILLATOR	DA	5	N	N	C	
PIEZOELECTRIC STACKS/DISPLACEMENT TRANSDUCER/AMP.	A	7	N	N	C	
BREADBOARD/CMOS./WORK STATION/NAND GATE/PS./\$40.00	D	5	Y	N	C	
"AMP.-LESS AMP."/400HZ SAMPLING CLOCK/AVERAGES	AD	1	N	N	C	35
DIVIDE-BY-32 CCT/4046/PLL./VIDEO/NTSC./TV./PICTURE	D	2	N	N	C	
SCHMITT TRIGGER/CMOS./INVERTERS/1-SHOTS	DA	5	N		C	
DECADE COUNTER/SPST./STEPPERS/SEQUENTIAL	D	1	N		C	
MUTLTICHANNEL CRT. DISPLAY SYSTEM		6			C	
ADD-ON/QUAD NAND SCHMITT TRIGGER/MUSICIANS/SINGERS	AD	2	N	N	C	
SHIELDING, GROUNDING & DECOUPLING/CMOS./RADIATION	D	5	N	N	C	
CW./CURTIS/IC/OPERATOR/WEIGHT/SPEED/PITCH/VOLUME	A	6	Y	N		
MULTIPLE STEP/RESET/INTEL/FAULTS/PROGRAM/PROM.	D	3	N	N	C	
SASI-BUS/INTERFACING A COMPUTER & A WINCHESTER/IO.	D	9	N	N	C	
CRITICAL TASK/MANUAL TRACKING/JOYSTICK/CRT./DOT	A	3	N	N	C	
NAND GATES/LOGIC/NEGATIVE PULSE TRIGGER CCT/BUZZER	D	4	N	N		
SEQUENCE/START FF./GATE CONTROL FF./RESET/READY	D	1	N	N	C	
MULTIVIBRATOR/FF.S/EX-OR GATES/UP TO 200MA/CURRENT	DA	1	N	N	C	
COMMUNICATION CHANNELS/INMOS/OCCAM PROGRAM	D	9	N	N	C	
VIBRATION-INDUCED PROBLEMS/WIRING/RESET	D	4	Y		C	
LED./WINDOW COMPARATOR/NUMBER/RESET/CLOCK	DA	1	N			
CLOCKING/INVERTERS/CRYSTAL/FREQUENCY	D	2	N		C	
NAND GATES/RESET PULSE/FREQUENCY DIVIDER	D	1	N		C	
SIMPLE/TOTEM POLE TTL. SIGNAL	D	1				
MUX. ADDRESS/DATA BUS	D	5				
ASTABLE MULTIVIBRATOR/OSCILLATOR/PNP/NPN	D	3	N		C	
LATCHES/STROBE/STORAGE/SRAM.	D	4	N		C	
SELECTED TIME PERIOD/SIMPLE CCT		3				
WAVES/FLUID/MICROCOMPUTER-CONTROLLED/TRANSDUCER	D	4	N	N	C	
DMM./DECODER/ADC./BCD. COUNTER/MEASUREMENTS/LOGIC	DA	1	N	N		
INVERTING HEX BUFFERS/BLIND HAM/HF. READOUT	D	1	N	N		
DIGITAL/DETECTION/DEFECTS/'STUCK' PINS/SHORT CCTS	D	4	N	Y	C	
INTERFACES THE TRANSPORT BUS/DATA TRANSFER/FAST	D	6	N	N	C	
4 SUCCESSIVE BYTES AT 1MHZ/EPROM./SIMPLE/ROUTINE	D	1	N	Y	C	
ADDRESS CONTROLLER/MUX.ING/STROBE/IO./UP./BUS/DATA	D	5	N	N	C	11
ADJUSTABLE CONSTANT VOLTAGE SOURCE/DIVIDER/BATTERY	A	1	N	N		
BI-LATERAL SWITCHES/DIODE/BANK/OUTPUTS/RESET LINE	DA	1	N	N		
MONITOR/MCS-86 SYSTEM DESIGN KIT/BUS INTERFACE	D	7	N	N	C	
NAND/TRIGGERING/FREQUENCY MULTIPLICATION/RESET	D	1	N	N	C	
COLORBURST CRYSTAL/ASIC.S/TELEPHONE/PHONE LINE	DA	3	N	N	C	
MITSUBISHI BEE CARD/NONVOLATILE DATA STORAGE/CPU.	DA	4	N	N		
MODEL BOAT/VERY SLOW TO VERY FAST/INVERTERS/7.2V	DA	1	N	N	C	46
PROTECTION/DOT/SPINDLE/LIGHT/LED./ALARM/RELAY	AD	2	N	N		AJ
COMPUTERS/COMMUNICATION/UART./MASTER-SLAVE/TOKEN	D	6	N	N		
D FF./CMOS. QUAD 2-INPUT NOR GATE/ZENER DIODE/LED.	AD	2	Y	N	C	
QUAD BILATERAL SWITCH/FF./PHOTOTRANSISTOR/IR. LED.	D	2	N	N	C	
ACCESS CODE/FF.S & RELAY DRIVERS/PTT./TELEPHONE	DA	4	N	N	C	
FALL ASLEEP/CONSERVE/BATTERY/NAND	D	1	Y			

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LASER/PHOTOMULTIPLIER/PM/MCA./SCOPE/PULSE	DA	4 N	C	
DIGITAL OSCILLOSCOPE/512-ELEMENT LINEAR/COUNTERS	D	4 N	N C	
HIGH SWITCHING RATES/SELECT WAVEFORMS/CLOCK PULSES	DA	1 N	N C	
EMBEDDED UP.S/HARDWARE/WORST-CASE TIMING/DESIGN	D	6 N	Y	12
INVERTER/MOSFET./SYMMETRY/SCHMITT TRIGGER	D	5 N	C	
DATA/1-SHOT/RELAY/RFI./MOTOR/SPEED/TRIAC	D	5 N		
PRESCALES/OVERFLOW/CMOS. COUNTERS/SCHMITT-TRIGGER	D	1 N	N C	
TOUCH-CONTROLLED LATCH		2		
SPACE/KEY CLOSURE/CLOCK/READY/FF.	D	1 N		
MULTIVIBRATOR/DEPRESSED/4-GATE IC	D	1 N	C	
SMALL KEYBOARDS/DECODING/COMPUTER/INTERFACING	D	5 N	N	
OKI/EPROM./CPU./COMPUTER/SUPERCONDUCTORS/77 K	DA	9 N	N C	59
LED.S/DISPLAY/BALL/RAIL/RAMP/SPEED/TIME/KEYPAD	D	7 N	Y	
AUTOMATIC RESET/BISTABLE	D	1		
CONDUCTOR DIAMETERS/PANEL-METER/LOOP RESISTANCE	AD	2 N	N C	
LED./PS.S/DARLINGTON PAIR/OPTO COUPLER/FIBRE OPTIC	A	1 N	N C	
PROGRAMMABLE OA./HANDIE-TALKIE/PROM.	A	4 N		
COLUMN/ROW SELECT/MEMORY/READING & WRITING	D	6 N	N C	
FAST BUFFER-AMP./LH0033/CAMAC/DIGITISER/3308	AD	9 N	N C	
BIFURCATION/PIECEWISE-LINEAR/ATTRACTOR/RESISTOR	A	9 N	N C	
PULSE HEATING/OCEAN/TEMPERATURE/THERMISTOR BRIDGE	A	9 N	N C	60
12 BYTES/6502-BASED COMPUTER/INTERRUPT	D	1 N	C	
IR. LED./IRED./PHOTOTRANSISTOR/LIGHT/MOTOR/RELAY	A	2 N	N	
CMOS./12 BITS/2 BYTES/TRANSMISSION/ACQUISITION	AD	9 N	Y C	
WHEATSTONE'S BRIDGE/LOW INPUT OFFSET/HEATER/CPU.	A	6 N	Y	
TUBE/REGULATED VOLTAGE SUPPLY/SPECTROSCOPY	A	3 N	N C	25
TIMER/TEMPERATURE/RELAXATION OSCILLATOR	AD	2 N		
SCR./RECHARGABLE BATTERY	A	1 N		
GR 1531-A STROBOSCOPE/ADJUSTABLE/LIGHT/PHOTOGRAPH	A	2 N	N	30
CONDUCTANCE MEASUREMENT/WHEATSTONE'S BRIDGE/MUX.	AD	4 N	N	
DECODER/SCR./SWITCHES/COMBINATION	DA	4 Y		
REGISTERS/SPECTROMETER/FAST/DIGITAL WIRE CHAMBER	D	6 N	N C	
RAM./STREAK/SIT/TV. CAMERA/MICROCOMPUTER-BASED	DA	7 N	N C	
RESONANCE/AMP./OFFSET ADJUST CCT/PHASE METER	A	3 N	N C	
SELF-POWERED/AMP./HEARING/MUSIC	A	1 Y		
OS.S/ADDRESS LATCH/OPERATING SYSTEMS	D	5 N		
500 PHOTOELECTRONS/PM/PHOTOMULTIPLIER/PLATES	A	5 N	N C	
RETRIGGERABLE MONOSTABLE/SWITCHING/OPTO-ISOLATOR	AD	1 N	N	E
EMP./HASH/FLICKER/RFI./BROWNOUTS/TRANSFORMER/AUDIO	A	4 N	N	
USER PORT/VIA./BASIC/-5V//ASSEMBLY LANGUAGE/PULSES	AD	3 N	Y C	
2708 OR 2716/UV. ERASABLE ROM./MOD.S/SENSOR	D	9 N	N C	
LIGHT/SKIN/BLOOD-PRESSURE MEASUREMENTS/IR./GREEN	AD	4 N	N C	E
XDC-19195/AC./BRUSHLESS RESOLVER/DC. TACHOMETER	AD	5 N	N C	
SENSOR/MEASUREMENT/MAXWELL'S EQUATIONS/EM.	A	6 N	N C	
LIQUID SCINTILLATOR/RISE TIME/PULSE AMPLITUDE	A	3 N	N C	
VARIABLE GAIN SWITCHES/LIGHT PULSE/THOMSON/GATE	A	3 N	N C	
STATUS-SAVING ROUTINE/FAILURE/STACK DATA	D	2 N	C	
WINDOWING/ALU./MUX./LOGIC/WORD/COMPUTER/SHIFT	D	2 N	N	
IGNITION COIL/HV. PULSE/REFLECTED POWER/DISCHARGE	AD	2 N	N C	

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SUBSTRATE/OPTICAL WAVEGUIDES/REFRACTIVE INDEX	AD	1	N	N	
NORMALISED/ANALOGUE RATIO CCT/FAST/TRANSMITTANCE	A	5	N	N	C
CHART RECORDING/CHEMILUMINESCENCE	AD	4	N		C 42
ALARM/DELAY LINE/COMPARATOR/AMP.S	A	6	N	N	C
SSR.S/AC./SHIFT REGISTER/VLF. OSCILLATOR/INVERTER	DA	3	Y	N	
PANEL METER/ASCII./TRANSFERS DATA/HOST	D	2	N	N	C
4000V/TRIGGERS/PULSE/COMPENSATE/INDUCTIVE LOADS	AD	1	N	N	C
PHOTOCATHODE/DETECTOR & DAS.S/TRANSIENT DIGITIZER	A	7	N	N	C 12
PHOTOCATHODE/CHARGE/FLUORESCENCE/NOISE/OSCILLATOF A		4	N	N	C
RECTANGULAR SIGNAL RESPONSE/ELECTRODE/FERMI LEVEL	A	7	N	N	C
LOW-COST/TRANSDUCER/RECORDING/LIGHTMETER/LUX	AD	2	N	N	C
DEAD TIME/REPETITION RATES/MILLER INTEGRATOR/RAMP	AD	6	N	N	C
BETWEEN 0.1OHM & 1KOHM TO 1% ACCURACY/AMP./MUX.	AD	3	N	N	C
HOME-SECURITY/FAULT-INDICATOR/SIREN	AD	7	N		
NATURAL GAS/PROPANE/FUEL VAPORS	A	2			
ANALOG/CORRECTION AMP./COMPARATOR	AD	2	N		C
BOUNCE/DIGITAL STOPWATCH/MICROPHONE	AD	5	N		C
COMPUTER/TELETYPE-COMPATIBLE TERMINAL	AD	1	N		C
CMOS. 2KX8 SRAM./BINARY COUNTER	D	4	N		C
GLITCH-FREE/READ/CONTROL SYNCHRONIZATION	DA	2	N		C
DOWN-COUNTER/BEATS/RESET/READOUT CCT/TIMING/OA.	DA	2	N	N	
PWM./CURRENT-SENSING CCT/BACK-EMF./ARMATURE	A	2	N	N	C
OPTOCOUPLER/OPTICAL ISOLATORS/OA./DARLINGTON PAIRS	A	4	N	N	C
DAS./FF./LATCH/1 SHOT/SDK-85/UP./RAM./MINICOMPUTER	D	5	N	N	C 61
OA./MONOSTABLE/METER/ADC./TISSUE/TRANSDUCER/ECHO	DA	8	N	N	C
CBM/6502/MICROCOMPUTER/CLOCK/TRANSIENT RECORDER	DA	4	N	Y	C
DATA STREAM/TIME/DETECTOR-VALIDATOR	AD	1	N		C
CAPACITANCE MULTIPLICATION/IMMITTANCE CONVERTER	A	4	N	N	C
COMPUTER STORAGE/MONITOR/FLAME IONIZATION DETECTOR A		2	N	N	C
UP./PROCESSING/DATA/IO./6522 VIA./DATA LOGGER	DA	3	N	Y	
AM./ADJUSTMENT FREE VCO./PLL./NOISE CANCELER/LPF.	A	7	N	N	C 4/88
EPROM./DISPLAY/CLOCK/DUAL-SLOPE/DEINTEGRATION	DA	6	N	N	C
PARALLEL PRINTER PORT/DEBUG RAM./HOST/TARGET/INTEL	DA	9	N	Y	C
TUBE/DEEEMPHASIS/PHASE/MODULATION	A	2	N		
PROCESSOR/PERIPHERAL BUS/ADDRESS BUS/BUFFER/DATA	D	2	N	N	
COMMUNICATIONS/MICROCOMPUTER/TERMINAL PROGRAM/TTID		3	N	Y	
PPI. CHIP/PROGRAMMABLE/SOFTWARE/BASIC	D	7	Y		
ZENER-DIODE TEST/DISPLAY/TEMPERATURE TESTING	DA	7	N	N	C
FF./TOUCHTONE(TM)/TRANSCIEVERS/RIG/NUMBER	DA	5	N	Y	C
LOAD CURRENT/SENSE-RESISTOR RATIO/POWER-BOOST	A	1	N	N	C
BUFFER-FULL INFORMATION/PORT	D	1			C
UP. CONTROL LINES/FF./SERVICE ROUTINE	D	2	N	N	C
IO./SYNC/CPU./ADDRESS & DATA BUSES/100KBYTES-SEC	D	1	N	N	C
\$10/ENVELOPE/SCHMITT TRIGGER/REED RELAY	A	1	N		
I\DDS/LOUDSPEAKERS/FEEDBACK/4-TERMINAL/VALVE/TUBES	A	2	N	N	
BASED ON MICROCODE/COEFFICIENT COUNTER/FIFO./ADC.	DA	7	N	N	C
DISK EMULATOR/CACHE MEMORY/FLOPPY-DISK REPLACEMENT A	DA	9	N	Y	C
ORCAD SDT/SCHEMATIC CAPTURE SOFTWARE/PROGRAM	D	4	N	N	
ADDRESSING/RAM./POWER/EASILY REPROGRAMMED/LED.	D	2	N	N	

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CORE LOGIC/INTEL/G-2/RAM./EXPANSION BUS/CPU./PC.	D	3 N	N	C	
MCA./RS-232/REACTOR/POSITION SENSITIVE DETECTOR	DA	4 N	N		12
CHARGE-SENSITIVE PREAMP./SHAPING AMP./TEST CCT/NIM	AD	4 N	N	C	12
8-BIT IO./FF./PROCESSOR/UP./HD64180/SBC./LED.S	D	8 N	Y		
SW./DECODE/SWL'S/CW./TTL./LED./FILTER	DA	7 Y			
DRIVER AMP./PLL./ADC./RERBUS USER INTERFACE/VCO.	DA	4 N	N	C	
DC. PS./COMPARATOR DRIVES POWER TRANSISTOR/ENERGY	A	1 N	N		11
MUX./CRT./POLARIZER/PANELS/PWM./BIOS. ROM./IO.	D	4 N	N	C	
ANALOG DIVIDER/OA.S/MAGNETIC FIELD SWEEPS/H^-1	A	3 N	N	C	
CENTRONICS PARALLEL/NON INVERTING BUFFERS/INVERTER	D	1 N	N	C	
ZILOG/Z80-CPU.-BASED/MASTER-SLAVE/PROGRAM/DEBUGGER	A	5 N	N	C	
LED./SERIES RESISTOR/TRIGGER CURRENT/CONTROL	A	1 Y	N		
VFC./TRACK-HOLD/SCALER/SAMPLE	DA	2 N		C	
BLOCKING OSCILLATOR-AMP./8.5-9.6GHZ PULSES/20KW	A	9 N	N	C	
VERSATILE INTERRUPT-SERVICE/VECTOR/MASK/DATA BUS	D	1 N	N	C	
FLOPPY-DISK CONTROLLER/PLL./IBM/DRIVES	D	9 N		C	
COSSOR/NO CENTERING/FOCUS CONTROLS	A	1			
CABLE/SERIAL/UP./COMMUNICATION/COMPUTER/WINDOWS	DA	8 N	N	C	
OSCILLATE/THRESHOLD/DEAD/REFERENCE/RUN DOWN/CHECKA	A	3 N	N	C	
JUMPER BLOCK/ASSIGN PORT ADDRESSES/0200H TO 02FFH	DA	5 N	Y	C	
ROW/COLUMN ADDRESS/MUX./16K BANKS	D	2 N		C	
RECEIVE/TRANSMIT/ANALOG VOLTAGES	A	1 N		C	
RAM./IO.-ACCESSED MEMORY BOARD	D	4		C	
WAVEFORM/TEACHING/ADDER/HARMONICS/MEASURED/DVM.	A	7 N	N		
CRYSTAL CLOCK/DIGITALLY CONTROLLED/VOLTAMMETRY	DA	9 N	N	C	42
EXPANSION BUS/INPUT CCT/TIME CODE/CAMERA/MONITOR	DA	9 N	Y	C	42
STEPPER MOTOR/7-SEGMENT DISPLAY/8052BASIC/SELECT	DA	8 N	Y		26
PIT./MOTOR DRIVER/WINDING	DA	4 N	Y	C	
G-64-96 BUS/ROBOTICS/MOTION-CONTROL/IO./TRANSLATOR	DA	4 N	N	C	
CMOS./CURRENT/20MA LIMIT/BATTERY/UP TO 50MW/BELLS	AD	1 N	N	C	46
DDS/PLL./VCO./VCXO/8-BIT DAC./100KHZ SINEWAVE	AD	2 N	N	C	
VCC/BETWEEN 2.5 & 4.4V/CORRUPTION OF DATA/MOS.	AD	1 N	N	C	
RADIO/SCREEN-GRID RF. AMP./AUDIO/DETECTOR-STAGE	A	3 N	N	C	
MODEL III/ADC.	AD	7 N		C	
IEEE 488/HPIB/INSTRUMENTATION INTERFACE/MCS-85	D	2 N	N		
80286/VLSI./CMOS./AT-286/BOARDS/ADD-IN/CLONES	D	1 N	N	C	
ADDRESS/TRANSFER DATA/BLOCKING/ELIMINATOR/BUS	D	2 N	Y	C	
TIM/ION-ELECTRON CONVERTER/PHOTOMULTIPLIER/STEEL	A	5 N	N	C	
ADDRESS COUNTER/8.2MS TO 0.82S/2-PHASE CLOCK/<2MHZ	D	1 N	N	C	
HENE/PROBE BEAMS/LIGHT/DIGITAL OSCILLOSCOPE	A	5 N	N	C	
STANDARDIZATION/IEEE/MULTIBUS/STD/S-100	D	9 N		C	
ENCODER DISKS/SLITS/ROTATING SHAFT/ROBOT	AD	3 N		C	
GENERAL-PURPOSE IO./Z80 NONMASKABLE/MODE/CPU.	D	9 N	Y	C	
DISCRIMINATOR/ADC./VC/PEP/PRESSURIZED/DRIFT TIME	AD	9 N	N	C	
EXTENDED INDUSTRY STANDARD ARCHITECTURE/INTEL/PC.	D	7 N	N	C	
IO. PORTS/SOFTWARE-INTENSIVE/MOTION	D	6 N		C	
TRIAC/BATTERY SECTION/NICD.	A	3 N			
GAAS. IRED./DARLINGTON	A	2 N	N		
RESISTANCE RATIO/CELL/DIFFERENCE/DIFFUSION/ALLOY	A	7 N	N	C	

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UP./FEEDBACK CONTROL/COMPUTER/HEDS-7500/CMOS.	D	2 N	N	C	
MICROCOMPUTER/MODEMS/BINARY/UP.-BASED/TRANSMISSION	D	9 N	N	C	
EISA BUS BUFFERS/CONTROLLER/CHIPS & TECHNOLOGIES	D	1 N	N	C	
HPLC./ADC./DAC./UV. DETECTOR/PUMP/AMP./CODE	AD	6 N	Y	C	42
RED/GREEN LED./TRICKLE/PULSED/CHARGE & DISCHARGE	AD	2 N	N	C	
SELECTOR/SCHMITT TRIGGER/COMPARATOR	AD	1 N			
8085/EPROM./THERMOCOUPLE EMF./PC./RS-232C/BCD.	AD	4 N	N	C	
6-CHANNEL/MANOMETERS/DATA ACQUISITION/PROCESSING	AD	8 N	N	C	
INTERFACE/DRIVE/PC./CHIPS AND TECHNOLOGIES/DMA.	D	1 N	N	C	10
DATA-PATH BUFFERS/DRAM./SRAM.S/CONTROLLER/RISC.	D	3 N	N	C	
ROM. BIOS./CS.-BAR/DOS./ADDRESS/1-OF-8 DECODER	D	5 Y	Y	C	31
PMD COLOR PALETTE/PC./DMA./CRT. CONTROLLER/MONITOR	D	6 N	N	C	
PHASE-STABILISED/INTERFEROMETER/LIGHT/LASER/SHOCK	A	8 N	N	C	27
QUAD OA./BAR GRAPHS/SIGNAL STRENGTH METER/LIGHT	A	3 N	N		
DEEP DISCHARGE/CURRENT/ZEROING VOLTAGE REGULATOR	A	9 N	N		
FAST ACKNOWLEDGMENT/FEEDING FIFO./DMA./DATA/TTL.	D	2 N	N	C	
SENSING COILS/SAMPLE/OA./THERMOMETER	A	5 N		C	
BGO CRYSTAL/POSITRON EMISSION TOMOGRAPHY/PMT.	A	6 N	N	C	28
AUTOMATIC/LINE CURRENT DETECTOR/COMBO/OFF-HOOK	AD	3 N	N		
KEYING/MORSE CODE/COMPARATOR/RELAY	AD	1 N			
CHANNEL-SELECTION LOGIC/DATA/ANALOG	DA	3 N			
DIVIDE-BY-2/OSCILLATOR/DIAL/TV. CRYSTAL	DA	1 N	N	C	
3-WIRE HANDSHAKE/31 DIFFERENT ADDRESSES/DATA	D	2 N	N	C	
DIGITAL/4 ALU.S/READOUT/PROGRAMMED/BCD.	D	2 N		C	
TINY/WORLD'S SMALLEST BIPOLAR TRANSISTOR	D	1 N		C	
DISCHARGING OF CAPACITORS/10 ¹¹ OHM/FOLLOWERS	A	2 N	N	C	
LIGHT/BUZZER/VOLTAGE DIVIDER/TRIGGER/REFERENCE	A	1 N	N	C	E/94
REFERENCE VOLTAGES/LEVEL CONVERTER/TTL./PROM./DAC.	DA	3 N	N	C	
PULSE/DETECTOR/GEIGER-MODE/HV./TTL./OVERVOLTAGES	AD	7 N	N	C	7
COMPARATOR/SAMPLER/OA./INVERTER/SYNCHRONOUS	AD	1 N	N		
DATA TRANSFER/COMMUNICATION/BUS/POINTERS	D	9 N		C	
SMALL PRESSURIZED DRIFT CHAMBER/HIGH WIRE DENSITY	A	9 N	N	C	
SSI/GATES/CUPL/FLAGS	D	8 N	N	C	
NONLINEAR/BREAKDOWN/ANODE/CATHODE/X-Y RECORDER	A	2 N	N	C	
DL750/CD4511/BUFFER MEMORY/SERIAL STACKING/DISPLAY	D	3 N	N	C	
PHOTO CATHODE/DYNODE/ANODE/LIGHT/PHOTONS/ELECTRON	A	2 N	N	C	
DATA/BINARY/ZENER/TR.	AD	3 N		C	
DYNODE/TUBE/EMI/ADC./TUNGSTEN FILAMENT LAMP/LIGHT	A	3 N	N	C	
SWR. METERS/MEASUREMENTS/TRANSMISSION LINE/RF.	A	6 N	Y		
VERY LOW-NOISE/DISCRETE TRANSISTOR CCT/IC VERSION	A	9 N	N	C	61
LASER PS. STARTING CCT/VOLTAGE QUADRUPLER/TUBES	A	2 N	N	C	
COMMUTATOR/DRIVER CHIP/PROTECTION	AD	6 N		C	
CLOCK/COMPARATOR/COUNTER/GATE/RAMP GENERATOR/OA.	AD	3 N	N	C	
+1DEG C/+0.5%/8-BIT/MEMORY/EPROM.	AD	5 N		C	
LIGHT SOURCE/NULL/ZERO POSITION/COIL/MEASUREMENT	A	6 N	N	C	
VARIETY OF SENSOR/PRESELECTED DELAY TIME	AD	1 N		C	
CHAIN OF DIODES/CONDUCTION THRESHOLD	A	1 N			
MODEL I-III/MIKROCOLOR/HIGH-RESOLUTION	DA	9 N		C	
OSCILLATOR/REFERENCE/ADC.	AD	7 N		C	

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CHARACTERS/COMPUTER/TTL./STOP/DATA BITS/PATTERN	D	1 N	N	C	
DOPPLER FREQUENCY SHIFT/SPEED MEASUREMENT/SHM/EM.	AD	3 N	N	C	
GLITCH/PROBLEM/DMA./REFRESH/PROCESSOR CYCLES/15MHZD		2 N	N		
OA.S/MATERIALS/LOW-FIELD/LOW COST/LOCK-IN AMP.	A	4 N	N	C	
RF./VHF./PULSED CW./48MHZ/FREE RUNNING OSC.	AD	1 N	N		78
TUNER HEAD/SKINGLEY & THOMPSON/RF. AMP./AFC./VHF.	A	5 N	N	C	
DECODE/LPF./4-POLE BANDPASS FILTER/NOISE/DIODES	AD	4 N	N	C	
CACHES/SERIAL PORTS/LISP/FLOATING-POINT	D	8 N		C	
DATA/STORED/COMPUTER/DETECTORS/COSMIC RAYS	D	4 N	Y	C	
TMS4164/REFRESH ARBITRATOR/INTERFACE/CPU./IO.	DA	9 N	N	C	
SWITCH/100KHZ/RECTANGULAR PULSE GENERATOR/CHARGE	AD	1 N	N	C	
ADDRESS-INPUT LATCH	D	4 N		C	
COUNTER/LATCH/FF.S/ZCD.S	DA	1 N	N		29
RESET SIGNALS/TIMING/EPROM./DIP./DATA LINES/TTL.	D	3 N	N	C	
LEVEL CONVERSION/CMOS./PC./TTL./RESISTOR PACK	D	1 N	N	C	
SHIFT REGISTERS/DOTS JITTER/FIRED/SYNC/SCREEN	D	2 N	N		
NEC/O.1UA/1 OF 10 BCD. DECODER/DATA/PROGRAMMING	DA	5 N	Y		
SERIAL INTERFACE/PORT/DIN/LED.S/ADC./LCD./MCS52	DA	4 Y	N		
REFRESH/MUX.ING/ADDRESS/EXPANSION	D	1 N		C	
MAP/EXTERNAL/OBJECT CODE/SEGMENTED/INTERRUPT	D	2 N	N	C	
ROM./CHARACTER GENERATOR/TV./PROGRAM/MEMORY MAP	D	4 Y	Y		
DECODER/ARRAY/COMPUTER/MOS./DELAY LINES/REFRESH	D	9 N	N	C	
LASER BEAM/PIN PHOTODIODE/FLAME/PROBES	A	6 N		C	
RESISTOR/LED./WRITING/SINGLE-SIDED/LOGIC	D	2 N			
COMPUTER/IINTERFACE/DATA/COUNTER/3.5MHZ/800NS	D	1 N	N	C	
AC. COUPLING/CAPACITOR/RESISTOR/DECODER	DA	1 N			
INCREMENTAL SHAFT/COUNTER		1		C	
SCR. DRIVE/PROGRAMMABLE CURRENT LIMITING/INHIBIT	AD	1 N	N		
D-FF./OA./METER/COMPARATOR	AD	1 N	N		
METER PROTECTION/4KHZ/TYMPANIC MEMBRANE/HEARING	A	6 N	N	C	
DIVIDE-BY-N/TTL./SPEEDOMETER/FUEL-FLOW SENSORS	AD	3 N	N	C	
DUAL MONOSTABLE MULTIVIBRATOR/ADC./MUX./INTERRUPT	D	9 N	N	C	42
FUNCTION OF TIME/SIMULATING/NUCLEAR/RADIATION	D	2 N	N	C	
SYNC DETECTOR/SCR. DRIVER/DEFLECTION/FREQUENCIES	AD	3 N	N		
INTERRUPT-HANDLER SUBROUTINE/GATE/FF./UP.	D	2 N	Y	C	
LDR./CURRENT SOURCING/SINKING	AD	9 N	N		
D-TYPE FF./OSCILLATOR/PULSE TRANSFORMER	D	1 N	N	C	
LIGHT TRANSMITTED/LINE/LETRATONE/COMPUTER/CALIPERS	DA	3 N	Y	C	
BANK SELECTION/41256/8-BIT UP./RAM. DISK/DRAM.	D	6 N	N	C	3
INCREMENTED/DECREMENTED/BYTE/SYNCHRONIZES/CLOCK	D	2 N	N	C	
CAPACITANCE MICROMETER/8-BIT DAC./HIGH STABILITY	A	6 N	N	C	E
MONOSTABLE MULTIVIBRATOR/TTL./DIGITAL/DATA/IBM	D	4 N	N	C	
USER PORT/COMMODORE 64/DRIP INTERVAL/FLOW RATE	DA	7 N	N	C	8/42
DPM./WEST HYDE/DISPLAY DECODERS/SIMPLE/LED./BCD.	D	2 N	N		
FAST & ACCURATE/PARALLEL BINARY OUTPUT/SN7493	DA	1 N	N	C	
ATOMIC EMISSION SPECTROSCOPY/RF. POWER/NEBULIZER	A	4 N	N	C	25
PHOTOCURRENT/PHOTOCATHODE/PHOSPHOR/POWER GAIN/FLA		3 N	N	C	
SCHMITT-TRIGGER NAND GATES/FF./TRANSMIT/RECEIVING	DA	1 N	N	C	
CMOS./TTL./TRI-STATE/BUS/LED./LIGHT DETECTOR	DA	4 N	N		

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DATA ACQUISITION/3.5-DIGIT/BP/7 SEGMENT LINES	DA	2 N	Y	C	
TOF. BETWEEN 2 COILS/MAGNETIZED POINT/BOW/STRING	A	8 N	N	C	42
DUAL RE-TRIGGERABLE MONO-STABLE/BUFFER AMP./TIME	DA	3 N	N		
TRANSISTORS/SINE-WAVE/OSCILLOSCOPE/TRANSMITTERS	A	2 N	N		
LATCHING/ACTION POTENTIAL/NEURAL/NERVE/STIMULUS	DA	9 N	N	C	25
LABORATORY/SEQUENCE/DISC DRIVES/LISTING/DATA FILES	D	9 N	Y	C	42
BUTTERWORTH/DISCRIMINATES AGAINST DC. & LF./LIGHTS	A	2 N	N	C	
DRIVE & SENSE COILS/OSCILLATION/STARTS RELIABLY	A	2 N	N	C	
ADC./DESCRIBING FUNCTION	AD	7 N	N	C	
DAC./SMITH TRIGGERS/SAWTOOTH	A	2 N		C	
SYNC PULSES/UPSIDE-DOWN/MONOCHROME	DA	3		C	42
MICROPROGRAMMING CONCEPTS/LEARNING AID	D	6 N			
MICROSEQUENCE/AUTOMOBILE-ENGINE/SENSORS/RAM./ALU.	DA	7 N	N	C	
THYRISTOR/COUNTER/SOFTWARE/TEMPERATURE	DA	9 N		C	E
ANALOGUE INPUT/OUTPUT/LOGIC/DIGITAL	D	9		C	42
COUNTER/LATCHES/BASIC/CMOS. MEMORY/EPOCH	DA	7 N		C	
TIMER-SIGNAL/SELECTION-SIGNAL/ADC./VVVF/3-PHASE	D	9 N	N	C	
OUTPUT PORT/FRACTION COLLECTOR/SHEEP/ENDOCRINOLOG	DA	4 N	N	C	E
TTL./LOAD/SIMPLE, EASILY BUILT, DEPENDABLE/\$7	DA	1 N	N		
BUS/TTL./CMOS./HIGH DRIVE/LED.S/TEACHING/ADDRESS	D	6 N	N	C	
DC./OFFSET NULL POTENTIOMETER	A	1 N	N		
DATA ACQUISITION/COUNTER/MICROSYSTEMS/PHYSICS	DA	4 N	N	C	
AIM 65/UVIDEC 320/IO./SAMPLE HOLDER/WAVELENGTH	DA	3 N	N	C	
50OHM LINE DRIVER/OPTICAL MCA.	D	6 N	N	C	
LEED/D-TYPE EDGE TRIGGERED FF.S/OA./BEAM	AD	5 N	N	C	39
DAC./ADC./TARE/LIFTING-ARM/IO./WHEAT/INTERFACE	DA	7 N	N		
ASTABLE/IGNITION INDICATOR/POWER/SAFETY SWITCH	DA	4 Y	N		
DVM./BCD. DATA/TTL./DIGITAL READOUT/8-BIT/ADC.	DA	3 N	N	C	
OCTAL BUFFERS/NON-INVERTING/MUTUALLY EXCLUSIVE	D	1 N	N		
SINGLE AAA ALKALINE BATTERY/4YR OPERATION/RATE	D	1 N	N		
BETWEEN 20% & 140%/14-STAGE BINARY COUNTER	DA	1 N	N	C	E/6
INCREASE IN BLOOD VOLUME/PICKUP/PHOTOTRANSISTOR	A	1 N	N	C	46
CAPACITOR/SELF-STARTS FROM 0.9V/<0.5UA/SWITCH	AD	1 N	N	C	
TERMINATOR IMPEDANCE/TRANSMISSION LINE/MATCHED	DA	8 N	N	C	
HILBERT SPACE/QUANTUM-MECHANICAL	D	6 N		C	50
TIMING/DECODING/SEGMENT/CHARACTERS	D	2 N		C	
TIME BASE CCT/LOGIC/LV. SUPPORT/COLUMN	DA	2 N		C	
VAN DER POL/INDUCTANCES/CAPACITANCES	A	9 N		C	
PC.S/PHYSICS/APPLE/ADC./PENDULUM/PHOTOTRANSISTOR	A	9 N	Y		
EXPANSION PORT/SLOT/LED./DIP. SWITCHES/BUFFERS	D	4 N	Y	C	
CLOCK/SYNCHRONIZE/CONVERTS/SINGLE-CHANNEL/DIGITAL	D	4 N	N	C	E
PULSER/LOGIC SWITCH/BCD./BOC/BINARY-OCTAL-CODE	DA	9 Y	Y	C	
CAE./LINK/STANDARDS/ASIC./FILE NAMING/LOGIC/CELL	D	6 N	N	C	
EXPANSION PORT/VIDEO-DISPLAY PROCESSOR (VDP)	D	6 N	Y	C	
SENSE/CONTROL/ROTATION/TRACKS/ENCODER DISK/RESET	D	2 N	N	C	
CYCLE/CONTACT BOUNCES/GLITCHES/HF. NOISE/COUNTS	DA	2 N	N	C	
CERENKOV/PHOTONS/IBM PC./HV./PARALLEL/PMT./PULSE	DA	4 N	N		
EXTERNAL CURRENT SINK/QUIESCENT CURRENT//INCREASE	A	1 N	N	C	
4MHZ CLOCK/250NS STROBE/DATA-SETUP/ADDRESS-HOLD	D	1 N	N	C	

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ROM./TELEPHONE EXCHANGES/FIR./LEVEL DETECTION	D	7	N	N	C	
DIVIDE-BY-16/1-SHOT MULTIVIBRATORS/EOR GATES/TTL.	D	3	N	N	C	
MILLCOM/MONITOR ROM./NIU/PCM./CCITT./TE1/DATA	D	6	Y	N	C	
0200 THROUGH 03FF/NO EXTRA COST/AMATEUR RADIO	D	2	N	N		
PIECEWISE-LINEAR/CHAOS/PC./PHASE PROJECTION/PLANE	A	6	N	N	C	
REPEATER/PTT./RC./WEAK SIGNALS/TAIL-TIMERS/LINK	DA	1	N	N	C	
PULSE/RESET/CLOCK FREQUENCY/SIGNAL/DATA	DA	1	N	N		
RIPPLE VOLTAGE/FLOW/400HZ SQUARE WAVE/MOSFET.	AD	2	N	N	C	
TTL./COMMUNICATION/DAUGHTER BOARD/INTERFACE/IBM	D	2	N	N		
RAMP GENERATOR/COMPARATOR/RESET/TRACE	DA	2	N		C	
RED LED./UNKNOWN/SQUARE-WAVE OSCILLATOR	A	1	N			
1-SHOT/RS FF./TIME DELAY CLOCK	D	2	N		C	
HANDSETS/ENSURES PRIVACY/MICROSWITCHES	A	1	N		C	
INTEL/BINARY FLOATING-POINT/FORMAT	D	9	N		C	
MOVEMENT/INERTIA DAMPER/TORQUE/FRICTION	D	6	N		C	
AC./LEAD-LAG INDICATION/ADC./FILTER/DC. VOLTAGE	AD	4	N	N	C	
SPIROMETERS/RESPIRATION/GLITCH/DIFFERENTIATING	AD	3	N	N	C	
PARALLEL/TIME/MONOSTABLE MULTIVIBRATORS/COMPUTER	D	1	N	N	C	
DEMONSTRATIONS/RC./OUTPUT PULSE TRAIN/INPUT	A	2	N	N		
PRIORITY/TRAP, RST 7.5, RST 6.5, RST 5.5 & INTR	D	2	N	N		
APERATURE/DIAPHRAGM/PUPIL/OPEN/CLOSE/LIGHT/LAMP	A	4	N	N	C	
ACTION POTENTIALS/MICROELECTRODE PREAMP.	A	5	N	N	C	
CANNOT BE CORRECTED/ALARM/HORNS/MONOSTABLE/RESET	DA	2	N	N	C	
34-WAY RIBBON CABLE/UP TO 15 DEVICES/1MHZ BUS	DA	4	N	Y	C	
INJECTS/STIMULUS/OA.S/FF./CANINE/PURKINJE	AD	3	N	N	C	
CASCADED/NANDING/PROGRAMMABLE/UP-DOWN/DELAYS	D	2	N	N	C	
PULSE/CHROMATOGRAMS/DATA ACQUISITION/CHEMICAL	A	4	N	N	C	
PSEUDO-OPS/READ/DECODER/INTERFACE/TIMING/PORTS	D	5	N	N	C	
BUZZER/BALLOONS POPPING/SOUND/EVENT/BURSTS/BULB	A	2	N	N		
TIMER/FREQUENCY-VOLTAGE/CMOS. SWITCH/OA.S/RF./XOR	AD	9	N	N	C	28/7
OA.S/POTENTIOMETER/WHEEL/COMPUTER/INTERFACE/DATA	A	2	N	N		
DARLINGTON/DRIVER/DIODES/COILS/DIGITAL PULSES	DA	3	N	Y	C	
SCHEMATIC ERROR/CONNECTIONS	D	1	N	N		57
PUSH SWITCHES START & RESET/2 OUTPUTS/GOES HIGH	D	1	N	N	C	
LINK/LOGIC CONTROLLED SWITCH/3W/RF./ANTENNA/YAGI	AD	4	N	N	C	61
CAE. ANALYSIS/DEBUGGING/OPTI-WATER/BUS CONFLICT	D	8	N	Y	C	
MEMORY/KEYBOARD/AMP. & SPEAKER/ATTACK-DELAY	A	2	N	N	C	
SWITCHES/NAND GATE/LEGO TECHNICS MOTORS/POWER	DA	4	N	N		46
FLOW OF LIQUID/CAPILLARY TUBE/UP.S/CHEMISTRY	DA	2	N	N	C	
PROTECTION FROM CURRENT SURGES/BETA/COIL/Z80/TEST	DA	4	N	Y		64
NEGATIVE-GOING PULSE/POSITIVE PULSE/DIODES	DA	1	N	N	C	
TRISTATE/Z80/3-PHASE INVERTER/THYRISTORS/TIMERS	D	5	N	N		
LANGMUIR/RAPID SCANNING (~100US)/BOXCAR INTEGRATOR	A	9	N	N	C	
ZENER REFERENCE DIODE/VOLTAGE/OA./X2 SUMMING AMP.	A	1	N	N		
HV./300-400V/IONS/RTOF/DRIFT/REFLECTION GRIDS	DA	9	N	N	C	
CASCADE/CLOCK DRIVE/EFFICIENCY/90%/5MA/75%/15MA	AD	1	N	N	C	
MUX./PULSES/COUNTERS/FF.S	DA	1	N		C	
DECODER/DEMULPLEXER/DMA. TRANSFERS/CPU./MUX.	D	9	N		C	
DATA RATES/10MHZ/DIGITAL/SHIFT REGISTER	D	1	N		C	

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INVERTERS/GATES/SSI/VLSI./AND/OR	D	8	C	42
BINARY/CMOS. CLOCK/RAMP VOLTAGE/OA.	AD	2 N		
PHASE ACCUMULATOR/DAC./ROM./OSCILLATOR	D	7 N		
INTERCONNECTION/SIMPLE/GRAPHICS/IO.	D	1 N		
SCR./DARK/OA./DIODE/RECTIFIED/LAMP/12V RELAY	A	1 N N		
VIRTUAL EARTH/COUPLING TRANSFORMER/MONOSTABLE	DA	2 N N	C	34
LATCHES/EPROM.S/MEMORY/FF./DELAYS	D	5 N	C	
COLOR/LIGHT/SPECTRAL/FLAME/CADMIUM SULFIDE	A	8 N N	C	
THERMAL PULSE/TIME-OF-FLIGHT/TOF.	AD	2	C	
MEASUREMENTS OF IMAGES/BCD./COUNTERS/VERT. SYNC	D	1 N N		
DATA/CLOCK-SYNCHRONIZER/COUNTERS/REGISTER/2/BYTES	D	2 N N	C	
MISSING PULSE DETECTION, PULSE STRETCHING/RETIMING	D	1 N N		
NEGATIVE & POSITIVE/SCALE FACTORS/0.1 TO 100HZ	A	1 N N	C	
LOGIC/PULSE TRAIN/ALARM LATCH	D	1 N N		
CALLS/OVER-RIDE CCT/LED./VISUAL INDICATOR/RESET	D	8 Y N	C	
SOUND AN ALARM/LED./HCMOS. COUNTER/NOISE IMMUNITY	D	6 N N		
74HC280/9-BIT PARITY COMPARATOR/SLEEPING UP./ERROR	D	1 N N		
ADDER/UP-DOWN COUNTER/ACCUMULATOR/TTL./ROM./RAM.	D	5 N N	C	
COMPUTERS/SCHEMATIC SYMBOLS/AND/NAND/OR/NOR/XOR	D	4 N N	C	14
CLOCK/GATES/LOGIC/BISTABLE MULTIVIBRATOR/R-S FF.	D	4 N N	C	
BLANKING INPUT/LOGIC PROBE/LEVEL/7447/TTL.	D	3 N N	C	
LED./NPN/TV./IR./OPTICS/EMITTER/COLLECTOR/BASE	D	2 N N		3
MASTER-SLAVE FF.S/GATING/CLOCK PULSE/LOGIC	D	2 N N	C	
SIMULATED/CURRENT-VOLTAGE/THYRISTOR/TUNNEL DIODE	A	2 N N		
DECADE COUNTER/DECODER-DRIVER/OA./LDR./BCD.	DA	3 N N	C	
EMU/UNIX/ADC./CLOCK/TTL./DEC/PDP-11/DISK/OS.	D	9 N N	C	39
O.A.S/TTL./MONOSTABLE MULTIVIBRATOR/SUPERCONDUCTING	AD	3 N N	C	
EOC./INCREASES BY N TIMES/GAIN OF 256/BYTE	AD	1 N N	C	
PARALLEL-IN-SERIAL-OUT/NAND/CONVERTING/STOP BIT	D	1 N N	C	
LOGIC-LEVEL MOSFET.S/<750NS/UP TO 50KHZ/MAGNETIC	DA	4 N N	C	
75OHM OUTPUT/SYNCHRONOUS LATCH/PIXEL DATA/TV.	DA	1 N N	C	
PHOTODIODE/LV./SYNCHRONOUS DETECTION/LOW-NOISE/OA.	A	5 N N	C	
BUFFER/"FLYBACK"/1 SECTION OF/HEX./CONTROL VOLTAGE	AD	1 N N	C	
PHASES/CONSTRUCTION/TEMPERATURE RANGES	DA	6 N		
WHILE PLAYING/ATTENUATOR/FADING/FOLLOWER	A	1 N		
OLD-FASHIONED/10-LINE DECODER/SPEED	D	1 N		
COMPARATOR/DETECTOR/LED./LOUDSPEAKER/MIKE	AD	2 N	C	
PROGRAM EXECUTION/TIMING/ANALYZING	D	2 N	C	
BUFFER/DATA/PROCESSING/LISTING/MEMORY	D	2 N		
MWRT/EASY EXPANSION/REFRESH TIMER/MOS.	DA	9 N	C	
DIODE BRIDGE/WAVEFORM/CONDUCTING/CLAMPED	AD	1 N		E
CMOS./INTERFACE/VOLTAGE CONVERTER/DATA	DA	1 N	C	
TIMING/PULSE BURSTS/SOFTWARE/LASER-OPTICAL/PC./CED	A	9 N Y	C	
SINGLE PULSE/DEPRESSED/CLOSURE/SPRING-LOADED	D	1 N N	C	
HANDSHAKE/DATA LINES/MODEM/DCE/DTR/RTS/DCD/CTS/RI	D	3 N N		
PWM./FAST LOGIC CCTS/POWER SOURCE	AD	2 N N	C	
RTC./RAM./50 BYTES/MICROCOMPUTER/DATA	D	1 N N		
BUS/TIMING/GENERATES/SIGNALS/ADDRESS STROBE	D	2 N N		
ADDRESS/EPROM.S/RAM.S/EEPROM.S/6116/4016/2732/2716	D	2 N N	C	

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ACTIVE/LOW	D	1	N	N	C
CONTROL AC. DEVICES/RELAY/COMPUTER/COMPARATOR	D	8	Y	N	C
DATA/DISC/PRINTER/CBM PET COMPUTERS/HPIB/IEEE-488	D	5	N	N	C
DATA/HANDSHAKING/TRI-STATE BUFFER/MULTIVIBRATOR	DA	6	N	N	
INVERTERS/INEXPENSIVE/\$20/MOD./GENERATE/HARDWARE	D	1	N	N	C
REQUESTS/BUS/CONTROL/3-STATE BUFFERS/7474 & 4013	D	1	N	N	C
END-EFFECTOR CONTROL SWITCH/TIMER/LIGHTS/TTL./5V	DA	5	Y	N	C
PULSE/MAPS/16 CONDUCTORS/SR/CPU./LOW-COST/IO. PORT	DA	9	N	Y	C
SWITCH/IR./INTERFACE/LIGHT SOURCE/SENSOR/COMPUTER	DA	2	N	N	C
ANODE/FLUORESCENCE PHOTBLEACHING RECOVERY (FPR)	A	5	N	N	C
PC./MONITORS CPU. ACTIVITY/DMA./ADDRESSING/EPROM.S	DA	8	N	N	C
PINK NOISE/FILTER/SAMPLING FREQUENCY/ADC./RANDOM	A	3	Y	N	C
DEBOUNCED SWITCHES & LED.S/COMPUTER/8-BIT PARALLEL	D	6	N	Y	
DATA/PARALLEL-INTERFACE HANDSHAKING/COMPUTER	DA	4	N	N	C
APPLE MOTHERBOARD/RAM./SIMM/ROM./VIDEO/ACCELERATOR	DA	9	Y	N	C
IN SERIES/PULSE TRAIN/TRIGGERS/TIME/POTENTIOMETER	D	2	N	N	C
CODECS/TDM./PCM.	DA	9	N		C
16 PORTS/CONVERSION/MOTHERBOARD/MEMORY	D	4	N		
MANUALLY/PROCESSOR/DIGIPOLY/8088 UP./MUSICAL/PULSE	DA	3	N	N	C
1-TO-8 MUX./SOFTWARE/GATE/2 FILTERS	D	1	N		
METERS/EPSON HX20 MICROCOMPUTER/RS232	D	2	N		
SEMAPHORES/MRDY/SLOW-ACCESS-TIME MEMORY/"STRETCH"	D	9	N	Y	C
1MHZ QUARTZ STABILIZED GENERATOR/FREQUENCY DIVIDER	D	6	N	N	C
DISTANCE/RETROREFLECTOR/PHOTOMULTIPLIER DETECTOR	D	2	N	N	C
STROBE LATCH/SERVICE REQUEST FF./\$3/GATED	D	1	N	N	
AUTOMOTIVE ELECTRONICS/COMPUTER/SWITCH/MEMORY	AD	6	N	N	C
CONVERSION RANGE/LED./AUTORANGING/LOGIC	AD	1	N	N	
DIGITAL/RESISTORS/CAPACITORS	D	1	N	N	
VALVE STATUS/MINIMIZES CABLING/COUNTERS/COMPARATOR	D	2	N	N	C
AIM-65/BUS/LATCH/EDUCATIONAL/EPROM./TTL./LED.	DA	9	N	N	C
LOGIC STATES/PHOTOCELL/INDICATOR/MOSQUITO REPELLER	DA	2	N	N	C
CAMAC/LAM/LOOK AT ME/DATA TRANSFER/FF./PHONE	DA	4	N	N	C
CHUA/ENERGY STORAGE/I-V CURVE/JUMPS/NONLINEAR	A	6	N	N	C E
SIMPLE/PHASE SHIFT/GATE-SOURCE/MONOLITHIC/IC	A	4	N	N	C 34
LED.S/NEGATIVES OR SLIDES/PHOTOGRAPHIC DARKROOM	A	9	Y	N	
GATES/SINK/NOMINAL 16MA/SHORT CCT/FANOUT	D	1	N	N	C 46
ON-LINE/3 PARAMETER/HP MINICOMPUTER/NIM/DETECTORS	DA	7	N	N	C 61
SEQUENCE/SELF-CALIBRATING/SIMPLE/RAM./UP.	D	2	N	N	C E
DANTE/RF./CARBON/2D HMQC-NOESY/SPLITTER/125MHZ	AD	6	N	N	C
PULSE SELECTION/"ON LINE" BACKGROUND SUBTRACTION	D	6	N	N	C
CRYSTAL-CONTROLLED OSCILLATOR/DIVIDER/COUNTER	DA	1	N	N	C E
IBM PC.-XT/ESA (EXCITED STATE ABSORPTION)/LIGHT	D	8	N	Y	C 25/42
PEP WATTMETER/SPLATTER/TRANSMITTER/INTERFERENCE	AD	6	N	N	C
STIMULUS GENERATOR/TTL./LOGIC/RESPONSE	DA	4	N		C
PORT/CASSETTE-WRITE OUTPUT/SAVE/PIA.S	D	2	N		
64 KEYS/SHIFT/CONTROL/CAPS LOCK/GRAPHICS	D	1	N		
HEXADECIMAL DRIVERS/DECODER/BUS/LATCH	D	2	N		C
COMPOSITE SYNC/COUNTS/PULSES/CCIR	D	6	N		C
GATING PERIOD/SHIFT REGISTER/INPUTS	D	1	N		

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MOST SIGNIFICANT BYTE/COUNTER/PRESET	D	2 N	C	
PLANETARY GEARING/KEYBOARD/ARMATRON/TOY	DA	6 N	C	
6809 MPU./NOR/NAND GATES/OCTAL BUFFER	D	5 Y	C	
TIMING/PROBLEMS/DEVIATION/CHIP/MASK	D	2 N		
LOCK-IN AMP./X-Y RECORDER/GENERATOR/EBIC.	A	3 N	N C	
BAND GAP/SEMICONDUCTOR/PULSE/TRIGGER	DA	2 N	N C	
STEPPING MOTOR/PWM./DRIVE/LOAD/DC. LINK CURRENT	AD	6 N	N C	
IO. TRANSFER FUNCTION/HF./RC.-ACTIVE	A	9 N	N C	
SERIAL-PARALLEL/AUTOMATIC/SOFTWARE COST/ADDRESS	D	9 N	Y C	
MEASUREMENT/TACHOMETERS/ROTATING SHAFT/MOTOR	A	5 N	N	
LIMITING NETWORK/DIODE/SCHMITT TRIGGER/TRANSMIT	DA	2 N	N C	
WAVESHAPING/TTL./PRESCALE/COUNT/IF.-AF./DISPLAY	DA	2 N	Y C	
PMT.S/RLIF/UV. EXCITATION/ND:YAG/FLUORIMETER	AD	9 N	N C	42
DIGITAL COMUNICATION/FSK./CARRIER/BASE BAND/BINARY	A	5 N	N	
WAVEFORMS/1 & 0 VOLTAGE/PULSE/POSITIVE/NEGATIVE	DA	5 N	N	
CPU./IO./EPROM./DATA ACQUISITION/SCAN OPERATION	D	2 N	N C	
2ND PULSE DETECTOR/CHANNEL/CORRELATOR/TMCS/DISPLAYD	D	7 N	N C	
DNA/LED./PHOTODIODE/DETECTOR/EMITTER/GEL/GLASS	DA	2 N	N C	
PMT./DYNODE CHAIN/VOLTAGE BIASING/COMPUTER CONTROL	A	2 N	N C	
DAS./DEC PDP-8-A COMPUTER/IO. BOARD/FF./LATCH	DA	4 N	N C	
IMPEDANCE TRANSFORMER & AN ELECTROMETER AMP.	A	2 N	N C	
ULTRASONIC/AC. LINE/WALL SWITCH/APPLIANCE/LIGHTS	D	9 N	Y C	
LATCH/2 DECODERS/READ SIGNALS/TMS320C25-6/MCS.	D	4 N	Y C	12
4A BASE CURRENT/FAST/MOSFET./DARLINGTONS/PS.	A	2 N	N	
13.141333MHZ/FREE-RUNNING OSCILLATOR/DIVIDERS	AD	9 N	N	
FIELD COIL/CURRENT/INDUCED/INTEGRATOR/COMPARATOR	AD	1 N	N C	
PC./BIOS./RAM./IO./CPU./ISA BUS/DISK BOOT LOAD	D	9 N	Y	
MOTOR/ANGULAR ENCODER/PICK-UPS	D	2		
MULTIPLE-SLOPE/TIME-RESOLVED/125-500V-US/INDUCTOR	AD	4 N	N C	
SUFFICIENT TORQUE/MEDIUM LOADS/SWITCHING	D	1 N	C	
LNEFEED/CARRIAGE RETURN/DATA/STROBE/BUSY	D	1 N	C	
		1		
SH./GAIN SWITCH/CLAMP/DAC.	AD	9 N	C	42
SYNCHRONOUS/VALID-PERIPHERAL-ADDRESS/VPA	D	2 N	C	
2KHZ TO 2MHZ/CAPACITOR/RESISTOR/IMPEDANCE	AD	1 N	N C	
INDUCTIVE PICKUP/COUPLE/LOW NOTE/RISES/PITCH	A	3 N	N C	
IRCU/PROGRAMS/WHEELCHAIR/SCHMITT NAND GATE/DIN	AD	3 N	N C	
TIME/INTERVAL/TRIGGER/DELAYED REPLICA/EDGES	D	1 N	N C	
RIPPLE-CLOCK/TOGGLES/PULSES/DIRECTION/DIVISION	D	1 N	N C	
ASTABLE OSCILLATOR/J-K FF.S/TIMER/WAVE DRIVE	DA	2 N	N C	
BYTE/PAGE MODES/8-BIT-WIDE/GENERATE/STORE/MUX.	D	3 N	N C	
UP.'S IO./LATCHED/DIGITALLY PROGRAMMED/COUNTERS	D	1 N	N C	
BYTE SWAPPING/CPU./READ/WRITE/TRANSFER/WAIT STATES	D	7 N	N C	
MODULATOR-DEMODULATOR/COMPARATOR/WHITE-NOISE	AD	7 N	N C	
BCD./BLIND/3.5-DIGIT MULTIMETER/VFC.S/ADC./SPEECH	DA	4 N	N C	
INDUCTOR/LED. CLAMPS THE FLYBACK VOLTAGE/INVERTERS	DA	1 N	N C	
SIMPLE ADC./TTL./CONTROL SOFTWARE/EXPANDING INPUTS	D	4 N	Y C	
BACK EMF./WOW & FLUTTER/TORQUE/OA./VOLTAGE/HI-FI	A	1 N	N C	
TO MONITOR THE DC. OUTPUT OF A LINEAR RATEMETER	AD	2 N	N C	61

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FREQUENCY DIVIDERS/RATIOS/UP./PROM./PRE-LOAD VALUE	DA	6 N	N	C	
ARBITRATION/MASTER/SLAVE/DATA/INTERFACE/CLOCK	D	2 N	N		
FREQUENCY SYNTHESIS/HARMONICS/DISCRETE FT.	DA	1 N	N		
TRANSMITTERS/REFLECTOR/GAIN/LENS	A	3 N			
PROGRAM/MICROCOMPUTER/ROM.	D	1 N		C	
LIGHT PULSE/LASER/VIDEO AMP./WIDTH	AD	1 N	N		
REDUCES/MEMORY/VERY LARGE NUMBERS/LATCH	D	2 N		C	
3-TO-8 DECODER/YELLOW BLINK/OSCILLATOR	D	1 N		C	
TTL. INVERTERS/SCHMIDT TRIGGER/BUFFER/REFLECTORS	DA	2 N	N	C	E
VIDEO PROCESSING/ANALYSIS/METALLIC STRUCTURES	D	4 N	N	C	
STEADY LIGHTING/TRUTH TABLES/ACTIVATED	D	1 N	N	C	
DRV11/EG&G/PHOTODIODE ARRAY/PDP-11-23/LIGHT SOURCE	D	4 N	N	C	
JK FF./BRAKE LIGHTS/SATELLITE SWITCHER/TELEPHONE	AD	6 N	N	C	
WITH AN ALIGNMENT DISC/DATA/LED.S/SWITCH/LOGIC	DA	1 N	N	C	
GAIN OF ~100/NONLINEAR/DC. DRIFT/INSTABILITY/BW.	A	2 N	N	C	
"NO MOVEMENT" NULL POSITION/AMPUTEE/MOD.S/JOYSTICK	A	4 N	N		42
LINE CURRENT/ENERGISE/TELEPHONE/SUBTRACTING AMP.	A	1 N	N	C	
MONOSTABLE/BUZZER/TIMEOUT/BCD. SWITCH/SECONDS	DA	1 N	N	C	
NAND/BINARY COUNTERS/VERY NARROW LOAD SIGNALS	D	1 N	N	C	
40MHZ CRYSTAL/QUAD D-TYPE FF./DIVIDER/BUFFER/UP.	D	3 N	N	C	
CRYSTAL/CLOCK/BETWEEN 0 & 99MS/MONOPULSE GENERATOR	D	1 N	N	C	
BROADBAND/MISMATCH CONTROL/VSWR.	DA	4 N		C	
NEUROPHYSIOLOGISTS/BIOLOGY/NEURONS	DA	7 N			
VERTICAL/HORIZONTAL/VIDEO PROCESSOR/DELAY	D	2 N			
WHOLE/BLOOD FLOW/NUCLEPORE/PORE PASSAGE TIME	DA	7 N	N	C	
MODEL 1 COMPUTER/FD1771-01 FLOPPY-DISK CONTROLLER	D	2 N	N	C	
INDEPENDENT OF RESPIRATION DEPTH/SCHMITT TRIGGER	AD	2 N	Y	C	
0.3-10US/ACCELERATION GRIDS/ELECTRON MULTIPLIER	AD	9 N	N	C	12
TRANSMITTER/PULSE GENERATION/ASPECT 3000/AM-600	DA	5 N	N	C	39
TRIGGERED SAMPLING/RAPPER/ADC0804/TRANSDUCER/8-BIT	AD	5 N	Y	C	
PORTABLE LIDAR/FLUX/64 CHANNELS/50 NS	D	3 N		C	
DIGITAL VIDEO/OSCILLATOR/DIFFERENTIATOR	DA	1 N		C	
SC84/84180 PROCESSOR/DATA STRUCTURES	D	6 N		C	
TESTING/SCHMITT TRIGGERS/PULSE TRAIN	DA	2 N		C	
SAME/PULSE DURATION AT/OUTPUT/MULTIPHASE	AD	5 N		C	
ENCODER CHIP/SCANNING/8HZ/DEPRESSED	D	1 N		C	
INTELLIGENT/SAMPLING/DAC./ALIASING	D	9 N		C	
PRIORITIZED/128 LEVELS/WAIT/LOOK-AHEAD	D	2 N		C	
BETTER FUEL CONSUMPTION/LOWER/NOISE/REVS	A	1 N			
DARLINGTON TRANSISTOR/MICROPIPETTES	A	9 N		C	
DATA TRANSFER/SCHMITT TRIGGER/SHIFT REGISTER	D	2 N	N		
RANGE/20:1/DIVIDER/RATIO/EMITTER/COLLECTOR	A	1 N	N	C	
LATCH PULSE/PRINTER-PIN/COIL-ACTUATION/UP./COUNTER	D	1 N	N	C	
AMP./FSK./TONES/FLICKER/HIGHPASS/LOWER AF.S	A	1 N	N		
RETRIGGERABLE/1-SHOT/PULSE WIDTH/SCHMITT-TRIGGER	DA	2 N	N	C	
REFERENCE/SIGNAL/TIMING/SYNC-PULSE DETECTION/FRAME	D	2 N	N	C	
SYNCHRONIZES/INTERFERING/REFRESH CYCLE/POWER-UP	D	1 N	N	C	
COMMUNICATIONS BUS/DISPLAY, DAC., DATA BUS	DA	1 N	N	C	
16-BIT/SBP9900 CPU./PROCESSOR/DATA/1-OF-8 DECODER	D	2 N	N	C	

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WORDS/HANDSHAKE/TTL./TRANSMITTER-BUFFER/RECEIVE	D	1	N	N	C	
GATE/BUFFERS/TRANSITION/DESIRED DUTY CYCLE/PULSES	D	1	N	N	C	
INTERVAL/SYMMETRICAL-THRESHOLD SCHMITT TRIGGER	DA	1	N	N	C	
BASIC/MORSE KEYBOARD/INTERFACE/CW./TRANSMISSION	D	2	N	Y	C	
REFRESH/FF./3-STATE BUFFER/DATA BUS/DRIVER	D	2	N	N	C	
CPU./PROGRAM/SYSTEM MEMORY DECODER/FETCH/FF.	D	1	N	N	C	
ADJUST/WIDE RANGE OF NOISE FREQUENCIES/FF.	D	1	N	N	C	
40 HALF STEPS/DIRECTION OF ROTATION/CCW/CLOCKWISE	D	1	N	N	C	
WAIT STATE/FF./CLOCK/SYNC/LOAD/IO./COLD START	DA	7	N	Y	C	
EX-OR GATES/PRECISION RECTIFIERS/OA.S/TRANSISTOR	AD	2	N	N		
8MA/WITHOUT IMPEDING WITH PINS' BIDIRECTIONAL	D	2	N	N	C	
RC. NETWORK/RESISTIVE DIVIDER/MANUAL RESET SWITCH	DA	1	N	N	C	
RESISTANCE TO THE DIFFUSION OF WATER VAPOUR	A	9	N	N	C	91
SIMPLE/GATE/CAPACITOR/RESISTOR/DIODE/TIME CONSTANT	DA	2	N	N	C	
PRESETTABLE COUNTER/"SKIP THE ZERO"/TTL./ADDER	D	3	N	N	C	36
MULTIPLICATION/MONOSTABLE PULSE/50% DUTY CYCLE	D	1	N	N	C	
TTL. EXCLUSIVE-OR (XOR) GATE/CMOS./INVERTERS/SSAVI	DA	3	N	N	C	69
LATCHES/PORT-ADDRESS SELECTION/ASSEMBLY LANGUAGE	DA	2	N	N	C	
MICROWAVE/RF./SPECTROSCOPY/IMPEDANCE MATCHING	AD	5	N	N	C	
3MS NEGATIVE-GOING PULSES/5V FOR THE GATES	AD	1	N	N	C	
BALANCE/TEST/LED./GAIN	A	2	N			
NONINVERTING/DIFFERENTIAL/NONLINEAR	A	7	N		C	
AUDITORY SENSE/FORMANTS/SPEECH/VISUAL/SHAPES	AD	4	N	N	C	
COMPUTER/SCHMITT-TRIGGER/DIGITAL PULSE SEQUENCE	AD	2	N	N		
MULTIVIBRATOR/LATCH/COUNTERS/DISPLAY/OSCILLOSCOPE	D	2	N	N	C	
DECOUPLING/TRANSIENT/TTL./DIODES/SPIKES/IMMUNITY	DA	9	N	N	C	
VOLTAGE FOLLOWER/NPN/PNP/BIAS CURRENT/LEAKY/METER	A	2	N	N	C	5
INTEL'S 8203 CONTROLLER/LSI./DRAM.-INTERFACE	DA	7	N	N	C	
MEMORY/DMA./IO./DPMA (DUAL-PORT MEMORY ACCESS)	D	9	N	N	C	
MOD./RECEIVER/5 TO 15GHZ/SPEED-DETECTION/DOPPLER	A	5	N	N	C	
WAIT-STATES/BUS ARBITRATION/DMA./BOOST/THROUGHPUT	D	5	N	N		12
OA.S/EMG. MEASUREMENT/HIGH-SPEED/PATIENT SAFETY	A	5	N	N		
FROM A TTL. LEVEL SQUARE WAVE/PICK UP COIL/DAS.	AD	9	N	N		12
ATE./TESTABILITY/REDUNDANT FAULTS/DIAGNOSTIC	D	1	N	N	C	
PAL.S/PLD.S/22V10/COMBINATORIAL/RAT LOGIC/SMC/CUPL	D	9	N	Y		
DIGITISING/CLEAR/START/STOP/REMOTE	D	2	N		C	
APERTURE DELAYS/SIGNAL PROCESSING/PULSES/DDLTS	D	4	N		C	
UART./BAUD RATE GENERATOR/PLOTTER/PRINTER	D	1	N			
FAULTS/RECEIVER/INTENSITY/DETECTION	DA	2	N		C	
DIGITIZING OSCILLOSCOPE/GPIB./COMPUTER	AD	2	N		C	
ADDRESSES/TERMINALS/VIDEO PROCESSOR	D	7	N		C	
RELAY/IDLING/COMPARATOR/ENERGIXED	A	1	N		C	
CALENDAR/EXPANSION CELL/CAPACITANCE BRIDGE/VOLTAGE	D	9	N	Y	C	42
SERIAL/PARALLEL/HUNTING FOR BYTES	D	4				
TRANSMIT DATA/TRANSFER/LINE DRIVER	D	9	N		C	
2 4-BIT COUNTERS/6850/COMPUTER/DATA	D	1	N		C	
DEBOUNCED/SINGLE-CHIP MICROCOMPUTER	D	5	N			
MICROCOMPUTER/TAPE/SOUND/GRAPHICS/LOGIC	D	9	N		C	
PHOTOTRANSISTOR/COMPUTER/CURRENT/TTL.	AD	3	N		C	

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		1		C	
CLOCK PULSES/PLL./MISSING/SYNCHRONISATION	D	1 N			
PORT/INVERTER/NAND GATE/DRIVER/BUFFER/COMPUTER	DA	9 N	Y	C	42
MOUTH/TONGUE/TARDIVE DYSKINESIA/CONTOURS/PROCESSE	AD	2 N	N	C	
TRANSFER FUNCTION/UNSTABLE/BIQUADS/OA.S/GAIN	A	5 N	N	C	
POLAROID/VELOCITY/ACCELERATION/TRANSDUCER/ECHO	DA	4 N	N	C	
RELIABLY/TTL./CANBERRA 30/HARRIS 500/MONOSTABLE	D	2 N	N	C	
ACCURATE DC./OA./SERIES-PASS/BUFFER/ATTENUATOR	A	1 N	N		
FEEDBACK COIL/PICK-UP/SHIELDED/EM. FIELDS/WEIGHT	A	4 N	N	C	
SDK-85/DIGITIZATION OF OPTICAL/IMAGE SENSORS	DA	9 N	N	C	
ON-LINE/DATA TRANSMISSION/INTERFACE/ISBC 80-24	D	9 N	N	C	42
MICROWAVE/AZIMUTH/PATTERN DATA/POLARIZATION/APPLE	D	9 N	N	C	
LETTERS/OPEN-COLLECTOR/PNP TRANSISTOR/15MA/SEGMENT	DA	1 N	N	C	
MEMORY MAP/BIT MANIPULATION/BYTES/DATA/BUS DRIVER	D	3 N	Y	C	
MICROCONTROLLER/CONTROL 2/SIMULTANEOUSLY/BRAKE/PC.	DA	7 N	N		
LATCH/OSCILLOSCOPE/BOW/TRANSFER CURVE/LINEARITY	DA	4 N	N	C	
CD. PLAYERS/DAT/INTERFACES/HIGH-FIDELITY/DL-2A	DA	3 N	N		
GRIMBLEBY/SMOOTHING FILTER/SETTLING TIME/LOW-PASS	A	3 N	N	C	
RAMP COMPARATOR/TRANSISTOR/SWITCH/RATE INTEGRATOR	A	2 N	N	C	
DIGITAL IMAGE PROCESSING/DMA. TRANSFER/CONTROLLER	D	4 N	N	C	
	AD	1 N	N	C	
DOUBLE-RING/PLASTIC TUBE/BLOCKS THE LIGHT/~0.1MM	AD	4 N	N		
DIFFUSION PUMP/PROBE/FLOODING/OA./RELAY/ALARM/PS.	A	2 N	N		E
PROCESSOR/DECODING/PROM./SOFTWARE JUMP/INSTRUCTIO	D	1 N	N	C	
6522 VIA.S/APPLE II(TM) COMPUTERS/HV./IO./GAMEPORT	AD	2 N	N	C	
48KHZ RATE/50%/D FF./DATA INTERVAL/TIMING/5-GATE	D	1 N	N	C	
MODEL D/TIMER/PULSE/RETRACE LINES WERE VISIBLE	D	2 N	N		
256BIT ROM.S/BCD.-TO-7-SEGMENT DECODER-DRIVERS	DA	1 N	N	C	
INVERTER-INPUT/CLOCK REQUIREMENTS OF A UP./P-N-P	D	1 N	N	C	
TO SWITCH POWER TO 120V AC. LOADS/CMOS./FET. GATES	AD	1 N	N	C	
IRED./DETECTOR/REFLECTING STRIP/BLACK TAPE/RIDERS	DA	5 N	N	C	
VOLTAGE COMPARATOR/AC./DC./LIGHTING/CELLS/DIODE	A	2 N	N	C	
DECOUPLING SEQUENCE/NMR. SPECTROSCOPY/RF. POWER	DA	5 N	N	C	
HANDSHAKING/SOFTWARE CONTROL/INTERFACE/MULTIUSER	DA	3 N	N	C	
ANTENNA/MOD./<\$150/LED.S/GPIB./MONITORING OF POWER	AD	1 N	N	C	95
NEXT-TRACK BUTTON/MONOSTABLE/PULSE/TRIGGER/TIMER	D	1 N	N	C	
FET.S/CLOCK/MAXIMUM OUTPUT CURRENT IS 10MA/1.5V	DA	1 N	N	C	
3-GATE OSCILLATOR/EFFICIENCY/~90% AT 2MA/VOLTAGE	AD	1 N	N	C	
BUS/COMPUTER/SYNCHRONIZATION/DATA TRANSFER/EOC.	DA	4 N	N	C	25
DETECTION OF PULSES/INTERFACE/MAGNITUDE COMPARATO	DA	4 N	N	C	
8 OPTOCOUPPLERS/INCOMPATIBLE SIGNAL LEVELS/DAMAGE	DA	3 Y	N		AJ
DATA COMMUNICATIONS/TRANSMISSION/EIA./RS-422/IO.	DA	3 N	N		94
RELAY/LIQUID/LED./LEVEL/REFLEXIVE/PUMP/CALIBRATION	DA	2 N	N	C	E
ADDRESS DECODING/7217 COUNTER/PEEKED/DATA BUS	D	1 N	N		
DATA BUS/RESTART/FAILURE/WARNING/ADDRESS/PORT	D	2 N	N	C	
SOUNDS/PULSES/DRUM/+5V SUPPLY/LED./SEQUENCER/MUSIC	DA	1 N	N		
8MHZ/CLOCK PHASING/HIGHER DIVISORS BY CASCADING	D	1 N	N	C	
FREQUENCY DOUBLING/LVDT./LOAD MEASUREMENT/MOD.	DA	3 N	N		
BIPOLAR CONTROLLED-CURRENT CCT/2 OA.S/PULSES	A	8 N	N	C	25/91

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DELAY LINE/EPLD.S/PROM./EM. SHOWERS/CALORIMETER	D	9 N	N	C	
MINIMUM OF COMPONENTS/ADDRESS/IO. PORT/M6809/Z80A	DA	1 N	N	C	
LASER BEAM/INTERRUPTED/DROP OF WATER/OA./NOZZLES	AD	9 N	N	C	
LOGIC LEVELS/D-TYPE/TRANSITION (EDGE)/CLOCK INPUT	D	1 N	N		
JOYSTICK POTENTIOMETER/AMP./WINDOW COMPARATOR	AD	4 N	N	C	
IBM IR-90/DATA COLLECTION/SNIFTIRS/AUTOMATIC	DA	2 N	N	C	
MODEL III MICROCOMPUTER/DATA/OA./CASSETTE PORT	AD	3 N	Y	C	
FM./UNILAB INTERFACE/MICROPHONE/BBC MICRO/SPEAKER	A	4 N	N	C	
MODEM/DIGITIZER-TRANSMITTER/TELEPHONE/HD64180	DA	9 N	N		
RMS./DVM./WAVEFORMS/HARMONIC/FREQUENCY COUNTER	A	2 N	N	C	
OPTO-ISOLATORS/HV. SPIKES/SWITCHING/IBM-PC.	AD	7 N	N	C	
ASYMMETRIC WAVEFORM/LOGIC LEVEL/NEGATIVE-GOING	D	1 N	N	C	
CRO./MECHANICAL OSCILLATOR/DAMPING/ELECTRICAL CCTS	A	4 N	N	C	
TESTING DIGITAL/VOLTAGE SOURCE/DOT LEVER	D	1 N			
SERIAL-IN-PARALLEL-OUT SHIFT REGISTER	D	1 N			E
MODEL III-4 CODE CHANGE-BREAK/REGULATOR	AD	7 N		C	
0.5 TO 8MHZ/HIGH-SPEED/UART./BUFFER/DIRECT SHORTS	DA	1 N	N	C	
RIORDAN'S CCT/GROUNDED NETWORK/ACTIVE/PASSIVE/GI	A	3 N	N	C	
UP TO 10 FUNCTIONS/COUNTING & DECODING/TTL./RELAYS	DA	2 N	N	C	
EPROM. PROGRAMMER/PULSES/RS232 LINE RECEIVERS	AD	1 N	N	C	
FIX/INTEL 8080/COMPUTER/PHOLD/PHLDA/DMA./IO./SOUT	D	2 N	N	C	
MICROSIM/CAD./CAE./MENTOR GRAPHICS/NATIVE	DA	6 N	N	C	34
2 PULSE TRAINS 90DEG OUT OF PHASE/OSCILLATOR/HF.	DA	1 N	N		
MICROCONTROLLERS/TRI-STATE/20 KEYS, USE THE 74C923	DA	2 Y	N		
ELIMINATES THE JITTER/SLAVE OSCILLATOR	A	2 N		C	
1-SHOT/TIMED DELAY/WAVEFORMS/RELAY	AD	3 N			
OA./PEAK DETECTORS/ANALOG SWITCH	AD	8		C	
MM5318/74HC390/MULTIPLIES/CRYSTAL OSCILLATOR	D	1 N	N	C	
CAD./LAYOUT/TRACES/IC PINS/COMPONENTS/CONNECTORS	A	3 Y	N	C	
STRIP LINES/VIDEO/BIAS VOLTAGE OF 9VDC./ATV.	A	1 Y	N		
BASIC PROGRAM COUNTS/HANDSHAKE LINES/CONTACT	AD	2 N	Y	C	
UNIPOLAR/FET. SWITCH COMPENSATION/LEVEL SHIFTERS	AD	1 N	N	C	
GOOD/BAD/DIODES/PREVENT FALSE INDICATIONS/FLICKER	AD	2 N	N	C	
INTERRUPT/DATA-BUS TRANSCEIVER/BUFFER/NAND GATES	D	4 N	Y	C	
NON-SYMMETRICAL FIXED-RATIO/VARIABLE-RATIO/MUSIC	A	3 N	N		
RESISTOR/CAPACITOR VALUES/PC./FREQUENCY/CALCULATE	DA	2 N	Y		
RING-TONE/ALARM/PITCH/CHIRP RATE/TONE COLOR	A	1 N	N	C	
MONOSTABLE/TIMING/TIME-DELAY/SIRENS/TRIGGERING	A	7 N	N	C	
FAIRLY CONSTANT FREQUENCY/DIODE DROP/POT.	A	1 N	N	C	
DMA./CPU./RUGGED EUROCARD-DIN/6800/68000/Z80/8085	D	8 N	N	C	
MERCURY SWITCH/JOYSTICK CABLE/RELAY	AD	4 N		C	
DISCONNECTING/HEATER/DROPS/PRESET POINT	A	1 N		C	
PTT./BEEPS/TRANSMITTER/ALARM/STATION	D	4 Y			
RESISTORS/SCOPE/FREQUENCY COUNTER	AD	1 N			
COMPUTER/STORAGE/ADDRESS/DATA/POINTER	D	3 N			
ADDRESS POINTER/COUNTER/CLOCK/ENABLE/TTL.	D	2 N			
LIGHT-SENSOR/CONTINUITY TESTER/SCR./TIMER/PLATE	A	3 N	N	C	
LOW-REPETITION-RATE OSCILLATOR/PULSES/DEAD BAND	DA	1 N	N	C	
AUDIBLE TONE/TIMER/EPROM./COUNTER/MONOSTABLE	DA	2 N	Y	C	E

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GREEN/YELLOW/RED LIGHT/PS./AC./DRIVEWAY/YARD LIGHT	DA	1	N	N	C	46
FLUCTUATIONS/PHASE DETECTOR/ZCD.S/JFET./DIFFERENCE	A	1	N	N	C	
CAPACITOR-UNDER-TEST/RESISTOR/BIASED AT ~7.5V	A	1	N	N	C	
DIRECTION/RELAYS/INTELLIGENT/SMARTS	A	2	N		C	
INCREMENTING SWITCH/SCR./WAVEFORM GENERATOR/POWEFAD	5	N	N			
ROCKWELL AIM 65/RANGING/VIA./TRANSDUCER	DA	5	N	Y	C	42
TRIGGER/ALARM/DISPLAY/LED./DATA SELECTOR/BCD.	D	2	N	N		
TRAP/BUS ERROR/PRIORITY ENCODER/ILLEGAL OP. CODE	DA	9	N	N	C	
LATCHED/POWER-UP/RESET/EDGE/TRIGGERED/PULSE	D	1	N	N	C	
TIMER/ASTABLE/MULTIVIBRATOR/COUNTER/INTEL SDK-85	DA	2	N	N	C	
CONSTANT-WIDTH PULSE TRAIN/RESET TO START/3 CHIPS	AD	1	N	N	C	
TIMER/ANALOG-SWITCH/SCHMITT-TRIGGER	DA	2	N		C	
MONOSTABLE MULTIVIBRATORS/TONE BURSTS	AD	1	N			
TIMING/ASTABLE MODE/555-TIMER/CMOS.	A	1	N			
DIAPHRAGM PACING/PACEMAKER/2MHZ/TRANSMITTER/TMP	AD	3	N	N	C	
SINE-SQUARE/OA./HEATH/FREQUENCY RANGE SWITCH/BULB	A	5	Y	N		
TV./NTSC./INTERLACED VIDEO/RC./IBM/MONITORS/LINES	D	3	N	N	C	
DRIVES A SPEAKER/LIQUID NITROGEN/COOL/RESISTORS	A	1	N	N	C	
INTERVALS/THERMOSTAT/TEMPERATURE	AD	4	Y		C	
ADJUSTMENT/PLL. VCO.S/RC. OSCILLATORS/HI/LO	D	1	N			
FALSELY TRIGGERED/D-TYPE FF./LOGIC	DA	1	N		C	
CHARACTER 27/COUNTED/TV. TYPEWRITER	DA	1	N			
FT./DATA/HANDSHAKE-STROBE	D	3	N		C	
ACCEPTANCE RANGE/SHORT TERM EVENTS/SCAN	D	1	N			
DC./ANALOGUE COMPARATOR/DATA SELECTOR/DISPLAY/BCD.	DA	5	N	N	C	
M.E.F.V./STORAGE OSCILLOSCOPE/TIMER/CRO./LUNG	A	3	N	N	C	
DISTINCTIVE/DUTY CYCLE/RINGER/REMOTE BELL	AD	1	N	N	C	
TRANSMISSION/7S TIMER/CARRIER DROPS OUT	DA	2	N	N		
CONTROLLED AUTOMATICALLY/UP-DOWN/SWEEP TIMES/\$35	AD	3	Y	N	C	
EXHALED AIR/BREATHS/LCD./RESISTANCE/LINEARIZES	DA	3	N	Y	C	
ANALOG SWITCHES/OA.S/DELAY LINE/REPEATER/CARRIER	AD	5	N	N	C	
~100MW/FEEDBACK TRIGGERING/FLOW CELL/HPLC. PUMP	AD	4	N	N	C	
ARBITER/PROGRAMMABLE/IO./ADD-ON/COMPUTERS/EPROM.	D	9	N	N	C	
OSCILLATOR/OA./AND GATE/HV./OSCILLOSCOPE/TIMING	AD	3	N	N	C	
PHOTOGRAPHS/POINT LIGHT SOURCE/DISPLAY/MICROSCOPE	AD	2	N	N	C	
LED./DRAWING NO CURRENT/CAPACITOR/RESISTOR	AD	1	N	N	C	
CLOCK TIMER/117V/24V LATCHING RELAYS/TOUCH PLATE	AD	2	N	N	C	
MOD./SENSITIVITY/GAIN/SLIDER/RESPONSE/MUSIC/SYNTHS	A	2	N	N		
RESET SWITCH/INPUT STATUS/LOGIC/CLOCK RATE/LED.	D	1	N	N		
LDR./MONITORS THE AMBIENT LIGHT LEVEL/SECURITY	AD	5	Y	N		
LIGHT/SUN/RESISTANCE/DAYLIGHT/TRUTH TABLE	AD	2	N	N	C	
OA./INPUT-BIAS LIMITATIONS/GENERATING/PULSES	AD	3	N	N	C	
SIDE TO SIDE/TRANSISTORS/DPDT. RELAY/10 OUTPUTS	DA	1	N	N	C	46
LOCK-UP/INTERFACE/DISK DRIVE/CONNECTOR	AD	3	Y			
CONVERTS TO A FREQUENCY METER/OA./OPTOISOLATOR	AD	2	N	N	C	
WHITE NOISE/VARIABLE-LEVEL/SYNTHESIZER	A	5	Y			
YOUNGSTER/DARK	A	1	N		C	
BLACK-&-WHITE		4			C	
MAGNET/BUZZER/OVEREATERS/WASTING ENERGY COLD/DELA		2	N	N	C	

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SYNCHRONIZES/LEFT VENTRICULAR EJECTION FRACTION	DA	1	N	N	C	
COMPUTE/PERIOD/OSCILLATIONS/SOD/ENABLE/LATCH	AD	1	N	N	C	
OSCAR 8/SIMPLE & CHEAP/BEARINGS/ANTENNA-POINTING	A	5	N	N	C	
PMT./ICP.-ES/ATOMIC EMISSION SPECTROSCOPY/AMP.	A	4	N	N	C	
LED.S/"WHITE NOISE"/CRYSTAL EARPHONE/DIGITAL CCT	DA	4	N	N		
HEADLIGHTS/VEHICLE'S IGNITION/PIEZO BUZZER/DIODES	A	3	Y	N	C	
SEPARATE CURRENT PATHS/ANALOG DEVICES/TRANSFORMERA		2	N	N	C	39
LIGHT SENSOR/MOTOR/STRIP-CHART RECORDER/ADC.	A	3	N	N		
IR. PHOTOTRANSISTOR/OSCILLATOR-TIMER/RELAY/LED.	A	4	Y	N	C	
UP./MINIATURE/MEMBRANE/DIGITAL OUTPUT/DIAPHRAGM	AD	7	N	N	C	
ELECTRONIC KITS INTERNATIONAL/LED./TO TEACH	DA	2	N	N	C	10
PROBE/SCR./9V BATTERY/BUZZER/BATHTUB OVERFLOWS	A	3	N	N	C	
SOUND GENERATOR/LED. FLASHER/SPEAKER	DA	1	N		C	
COLOR/LUMINANCE/SCR./PICTURE TUBE/VCO.	DA	3	N			
200HM/10KOHM/5%/WHEATSTONE/FILTER	AD	3	N		C	
SCALE READING/ACCURACY/EYE/VEROBOARD	A	1	N	N		
ASTABLE/LINEAR RAMP/CONSTANT CURRENT CHARGE	A	1	N	N	C	
STEP-UP/HV./NIKOLA TESLA/OSCILLATOR-TIMER/POWER	A	5	N	N	C	
ACORN/RAM./BASIC ROM./NMR./SOFTWARE/HEADER/SAG	D	9	N	Y	C	42
EMP./PIN/DOUBLE HETEROJUNCTION/LEAKAGE CURRENT	A	6	N	N	C	
PULSE GENERATOR/TRIGGER/DIGITAL SWITCH/TIMING	A	1	N	N	C	
OA.S/SINGLE BATTERY/9V/REAL SPLIT SUPPLY	A	1	N	N	C	46
SCR./MERCURY SWITCH/MOTORS, TRANSFORMERS/WIRE	A	1	N	N		
RESISTANCE/DB/LOGARITHM/SIGNAL/RC./PROBES	AD	4	N		C	
PULSE TRAINS/GATE/UJT./PHASED-SWITCHING	A	2	N		C	
MUSIC/MELODY/TIMER/CLOCK PULSE GENERATOR	D	1	N			
BINARY COUNTER/DIVIDE-BY-12/TTL./TIMER	D	1	N			
ADC./TUNNELLING CURRENT/THERMAL/EXCESS/CARRIERS	A	5	N	N	C	42
ENERGY SAVINGS/97% ENERGY REDUCTION/ENERGIZED	AD	1	N	N	C	
TACHOMETER/CONSTANT-CALCULATION/STREAM/ENGINE	DA	1	N	N	C	
DATA LOGGER/PROGRAM/RS-232C OR IEEE-488 INPUTS	D	2	N	N	C	
TRIGGERING/CURRENT UP TO 200MA/MONOSTABLE CCT	A	1	N	N		
		1			C	
80DB OF STOPBAND ATTENUATION/FUNCTION GENERATOR	AD	2	N	N	C	
DISPLAY-MUX. OSCILLATOR/BCD.-TO-7-SEG./DRIVER	D	1	N	N	C	
HF. COMPONENTS/LOW REPETITION RATE/PULSE/15MS	AD	1	N	N	C	
READ-OUT/S-METER, NOISE METER, & LED.-BAR METER	AD	2	N	N	C	
TIMING DEVICE/SQUARE-WAVE PULSES/50% DUTY CYCLE	A	5	N	N	C	
10 BIT X 1024 WORD/INVERTER/TRANSFERRING DATA	D	2	N	N	C	
LATCH-GATE INTERFACE CCT/ADDRESS & DATA BUSES/IO.	D	3	N	N	C	
MONOSTABLE/DOOR/RELAY/FF./COUNTER/LOCK SHAFT/MOTOFDA		2	N	N		
DRIVEN/TTL./LOGIC/LEVEL SHIFTERS/FET. SWITCH	AD	1	N	N	C	
APPLE II/PC./TV. DISPLAY/GRAPHICS/MEMORYGAME INPUT	A	5	N	Y	C	42
STEEL ROD/GROUND/RESONANT FREQUENCY/VIBRATIONS	A	1	N	N	C	48
LED. DRIVER/LOGIC/INVERTER/RANDOMNESS/GATES/BUTTON	DA	9	N	N	C	
STEPPED UP/AUDIO OUTPUT TRANSFORMER/INDICATORS	A	1	N	N	C	46
KEPCO OPS 1000B/REGULATION/DIFFERENTIAL INTEGRATOR	A	3	N	N	C	
DIGITAL CONTROL/DECADE COUNTER/CLOCK	DA	3	N			
VERY LARGE/NEC/DECODER/4X1K/56.8HR/TIME CONSTANT	DA	2	N	N	C	

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MOTOROLA/293 IO. CONTROLLER/TR.	AD	9 N	N	C	
UP.-BASED/CMD64/ANODIC STRIPPING VOLTAMMETRY	DA	6 N	N	C	
DUAL TIMER/DELAY/COURTESY LIGHT/IGNITION COIL	A	1 N	N	C	
	AD	2 N	N	C	
2 NAND GATES/DRIVER CHIP/NEMATIC/READOUTS/SMECTIC	D	3 N	N		
PIEZOELECTRIC/INTERRUPTER/FLASHING/CAR	A	1 N		C	
TTL./PERIOD/1.4S TO 14US/0 TO 8V/VARIABLE	AD	2 N			
FET.S/LARGE BAND GAP/LOW LEAKAGE/GAAS.P/JUNCTION	A	4 N	N	C	
MONOSTABLE MULTIVIBRATOR/NAND GATE/HF./LF./20KHZ	D	1 N	N	C	
SPACE-INTERVAL SAMPLING/Common-CATHODE/PLL./LATCH	DA	2 N	N	C	
SENDING/TIME-OUT CLOCK/POWER-UP RESET/DATA/DSR/PC.	DA	1 N	N	C	
VOLTAGE/THRESHOLDS/POWER/TIMER/COMPARATOR	AD	1 N	N	C	
MEASURING SMALL PRESSURE DIFFERENCES/'U' TUBE	A	1 N	N		
SPRAGUE/POWER OA./UNL3751Z/DRIVERS/CONTROLLERS	AD	1 N	N		46
DIVIDE BY 100 IC/100-900S IN 100S STEPS/DIGESTA	DA	4 N	N		
ALPHANUMERIC/BAR GRAPHS/TTL./GATES/MUX./LATCHES	D	7 N	N		
NANOCOMP/6809/RAM./OCTAL TRANSCEIVER/HEX BUFFERS	D	2 N	Y	C	
COUNTER-DIVIDER/SWITCH/REAGANT/PULSES/INJECTION	D	5 N	N	C	E/42
BLOOD/COMPARATOR/ANALOG SWITCH/MULTIVIBRATOR/ECG.	A	3 N	N	C	AG
CMOS./BIPOLAR/ASTABLE OSCILLATOR/DUTY CYCLE OF/50%	AD	3 N	N	C	33
TV./HORIZONTAL FLYBACK/LINE 20/INVERTED VIDEO	DA	5 N	N	C	
RING/BELL/CABLE/DTMF./TIMERS/LED.	A	3 N		C	
LOAD/CONTROL-VOLTAGE/DISCHARGE/ASTABLE OSCILLATOR	A	1 N	N	C	
MICROCOMPUTER/BBC/ADC./BANDGAP REFERENCE DIODE	A	4 N	N	C	5/42
TRANSIENT/CAPACITIVE PROBE/WIDEBAND/UNITY GAIN	A	5 N	N	C	
FF./COUNTER/CPU./INTERRUPT/TIME-OF-DAY CLOCK	DA	2 N	N	C	
SCR./PS./RELAXATION OSCILLATOR/TRIAC/SNUBBER CCT	AD	6 N	N	C	
UP.-BASED SYSTEM/TIME CONSTANTS/RETRIGGERABLE	D	1 N	N	C	
MOTOR/SPDT. SWITCH/RELAY/12V/OSCILLATION/DISCHARGE	A	3 N	N	C	
DRIVER/LT1076 BUCK-MODE SWITCHING REGULATOR/PS.	A	2 N	N	C	
CALCULATOR/UP. PORTS/RELAYS	D	3 N		C	
SWEEP/ASTABLE/PIEZO-ELECTRIC SPEAKER	AD	1 N		C	
BURNED/DETERIORATED CONTACTS/WEAR	A	2 N		C	
CHARGING CAPACITORS/2KHZ/20 TO 30NS	A	2 N	N	C	
MODE/WAVEFORMS/FORMULA/EQUATION	A	1 N			
OPTICAL INTERRUPTER/100/SPEED RATIOS	DA	2 N	N	C	
EMITTERS/DETECTORS/THRESHOLD DETECTOR/DEMODULATOR	A	3 N	N		
LOW-COST CCT		4			E
PLANT POT/HOT/SOIL/TURBINE/DAMP/RELAY	AD	4 N			
VISIBLE RED/DISPLAY/PHOTORETINOSCOPY/EYE	D	9 N		C	42
CONDITIONAL BRANCH & JUMP INSTRUCTIONS/COMPUTATION	D	9 N	N		
OSCILLATE/10KHZ/CMOS./SWITCH/DMA./Z80/DATA	D	3 N	N	C	
INPUT-ENABLE SIGNALS/RESET/NMI.	DA	2 N	N	C	E
NIGHT/HEADLIGHTS/RESISTANCE/RC./AUTOMATICALLY/OFF	A	1 N	N	C	
LIGHT INTENSITY/SERVOS/ILB/OSCILLATION/SUMMING	A	2 N	N	C	
TRANSDUCERS/TIMER/DOPPLER SHIFT IN FREQUENCY/TR.	A	3 N	N	C	
LOW- & NO-LOAD/CMOS./LED./REGULATOR/115V DC.	A	1 N	N	C	E
RETRIGGERABLE 555/SYSTEM RESTART/DEAD/MANUAL RESET	DA	1 N	N	C	
OUT OF RANGE/1 SHOT/DAS./PLETHYSMOGRAPHY/ADC.	A	3 N	N	C	61

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STEERING DIODES/2 DIFFERENT TONES/SOUNDS/AUDIO CCT	AD	2 N	N	C	
5V SYSTEM POWER/ASTABLE MULTIVIBRATOR/OPTOCOUPLER	A	1 N	N	C	
OA.S/AMP./MULTIVIBRATOR/FF./PHOTOTRANSISTORS/LIGHT	AD	2 N	N	C	
CMOS./LED./DARLINGTON DRIVERS/LAMP/IINDICATOR/VCO.	AD	3 N	N	C	
LED.S/VISUALLY HANDICAPPED/PACKET-RADIO/SPEAKER	A	3 N	N		
CALIBRATION/DIPOLE MOMENTS/DIELECTRIC CONSTANT	A	2 N	N		12
SUPERVISORY CHIP/CURRENT SHARING/PWM./THERMISTOR	A	6 N	N	C	
0.3 TO 50MHZ/0.47UF CAPACITOR/STOPS/DC. COMPONENT	DA	1 N	N	C	
MEASUREMENT/ASTABLE MULTIVIBRATOR/RC./TIMER/NTC.	A	7 N	N	C	
COMPUTER/LOGIC/INVERTER/DAS./EUROCOM 2/DAC./ADC.	D	5 N	N	C	
LIGHT/MICROCOMPUTER/ADC./\$20.00/ELECTROPHORESIS	AD	8 N	N	C	25
PHOTOMULTIPLIER/PULSE INVERTER/TLMP7513/16 LED.S	DA	6 N	N	C	
PULSE/LIGHT EMITTING/PHOTO SENSITIVE/COUNTER	AD	1 N	N		
HIGH-POWER/TRANSISTOR/NF. OF <1.8DB/50 TO 54MHZ	A	3 Y	N	C	
TRANSFER DATA AT 33MBITS-S/CPU./PC./BUS CONTROLLER	D	4 N	N	C	
EDGE-TRIGGERED/GRAY-CODED STATES/TIMING CHAIN	D	2 N	Y	C	
OUT-OF-BAND SIGNALS & NOISE/TRIGGERS/BURST/DETECTS	AD	1 N	N	C	
AUTOMATICALLY ZERO BEATS/TONE DECODER IC'S/TIMER	AD	2 Y	N	C	
GROUND/NEW SCHEMATIC/PCB.	AD	1 N	N	C	36
SELECT DATA OR STATUS/BUS DRIVERS/HANDSHAKE LOGIC	D	6 N	N	C	
VCO./FREQUENCY SYNTHESIS/PHASE COMPARATOR/LPF.	AD	2 N	N	C	AC
DATA BUS/68000/CPU./REFRESH COUNTERS/HUMBUG ROM.	D	5 N	N	C	
DEBOUNCER/TRACOR ANALYSER/BINARY/3MHZ/CONVERTER	D	3 N	N	C	
NATIONAL HPC/DECODES/RAM. BANK SWITCHING/EPROM.	D	3 N	Y	C	
DEMODULATOR FILTER/BUFFER/WAVEFORM	AD	1 N		C	
BUFFER/TRIM/ANALOG WAVEFORMS/PRETRIGGER/RECORDER	D	3 N	N	C	
11500 BITS PER SECOND/ROM./IO./TIMER/NBS. DES/DEU	D	4 N	N	C	
ASCII./30K/DUMP/RAM./ROM./UP.	DA	5 Y		C	
PLATINUM MICRODISK ELECTRODES/POTENTIOSTAT/REAGENTA	A	5 N	N	C	
OUTPUT TRANSDUCER ARRAY/PITCH EXTRACTOR/SPEECH	DA	8 N	N		E
5 TRANSISTORS/AUDIBLE/TELEPHONE HEADSET (SPEAKER)	A	1 Y	N	C	
POWER/AFTERFLOW/RF. FIELD/GREENISH WHITE/DISCHARGE	A	5 N	N	C	E
PS./12 BIT/UPD7002C/ION SELECTIVE ELECTRODE/METER	AD	2 N	Y		
IERARCHICAL BUS STRUCTURE/FIFO./RAM./DMA./S3 INC.	D	3 N	N	C	
MODEM TO WORK WITH OS-9 LEVEL II/<\$20/MOD./IO.	D	4 N	N		E
TOF./TIME RESOLUTION/VCO./REGULATION/BEAM	AD	6 N		C	
DISTRIBUTED PROCESSORS/UP.S	D	9 N		C	
ECG./COMMUNICATIONS LINK/PHYSIOLOGICAL MONITORING	AD	6 N	N	C	
FASTER RESPONSE/LARGER BW.		8		C	
SELECTING A RESISTOR/CONTINUOUS & STEPPING/UP.	D	3 N	Y	C	
JFET./PIEZO-TRANSDUCER/FULL BREAK-IN OPERATION	A	3 N	N	C	
UP./ASCII./PULSE STRETCHER	D	6 N			
2K-BYTE/JUMP/EXECUTE/ACCESSED/LEVEL II BASIC/PORT	D	1 N	N	C	
AMATEUR RADIO/HUM/ANTENNA/TUNING/HARTLEY/CW./AM.	A	4 N	N		
DRAM./REGISTERS/DRAW PICTURES/DISPLAY WINDOWS	D	6 N	N	C	
PROBE/FLOW SENSOR/WINDSPEED/AIR TEMPERATURE/WIND	A	3 N	N	C	
DRIVER/TERMINAL (SLAVE)/INTEL 8085/INTERRUPTS	D	3 N	N	C	42
PHASE-ENCODED/TAPE/LPF.ING/1200, 2400 & 4800 BAUD	AD	2 N	N	C	
COMPUTER/DAISY CHAINED/UNLIMITED NUMBER/HDSP-211X	D	6 N	N		

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EPROM.S/MICROCOMPUTER/SPECTROMETER/GARP	D	6 N	C	
FET. OA.S/ELECTROMETER	A	1 N	C	
3-PORT MEMORY/ACCESS/DATA/SRAM./ADDRESS BUSES/DSP.	D	2 N	N C	31
ON-CHIP TIMER/ANALOG SIGNAL CONDITIONING/HEART	AD	8 N	N C	
DUT./4013/DRIVER BOARD/GAMMA-RAY/DAMAGE/COBALT 60	D	9 N	Y C	
ADDRESS LATCH/'IBM PC.-AT'/DIN CONNECTOR/INTERFACE	D	4 Y	N	
PLD./512-BYTE FIFO. MEMORY/BUFFER/LATCHES/IA.S	DA	6 N	N	
TELEPHONE JACK/COMPUTER/CASSETTE/RS232C	AD	2 N	C	
BASIC RATE INTERFACE/BRI ADAPTER/UP./PAL./DTMF.	DA	9 N	N	
MONO-NULLING/AUDIO/4-SPEAKER/DRIVER/GAIN STAGES	A	1 N	N C	
DECADE COUNTER/10.7MHZ/8-BIT EPROM./DATA	D	1 N	C	
DATA/FAST & EFFICIENT/TIME-TO-FREQUENCY INVERSIONS	D	2 N	N C	
CCD. IMAGE SENSOR/VIDEO CAMERA/CHAMBER/ADC./LED.	D	5 N	N C	61
LIMITER/COMPARATOR/PHASE DETECTOR/8MHZ OSCILLATOR	AD	7 N	N C	
TELEPHONES/COMPUTER TERMINALS/LINK/DATA/TRANSFERS	DA	4 N	N C	
64-BIT UP./CPU./MICROCONTROLLER/PLD./8MBYTES/PSB	D	6 N	N C	
MICROCONTROLLER/NOVRAM./AFSK. GENERATOR/VHF./SSB.	DA	8 N	N	3
OA./ADC./CDS CELL/LIGHT-SENSITIVE/HOLE TRAPPING	AD	5 N	N C	42
RAM./PORT/~\$3/UP./ADDRESS, DATA BITS/26V/MONITOR	DA	2 N	Y C	
VIDEO/FEEDS/TOUCHTONE(R) DECODER/UHF. 10-CHANNEL	DA	2 N	N C	
MICROSTEP/HALF-STEP/CONSTANT TORQUE/REDUCE POWER	DA	8 N	N C	
ADDRESSES/DATA BUS/RADIO SHACK	D	1 N	C	
MEMORY/SOCKETS/HEADER/CS.	D	1 N		
AM. OR FM. RADIO/OFF-HOOK/FLASHING/LISTEN/HANDSET	A	2 N	N	57
OSCILLATES AT BETWEEN 10 & 50KHZ/COUNTS/~100MS	AD	1 N	N C	
TRANSPORTING IMAGE DATA/VAX-11-780 COMPUTING/TV.	D	6 N	N C	
MOVEMENT/SEQUENCE/STOP/LOCATION/SLEWING/ROUTINES	DA	2 N	N C	6
HEARTBEAT RATES/RESPIRATORY/BREATHS/TIMER/EPROM.S	DA	3 N	Y C	
DUT./DESIGN BOARD/8X8/GAMMA-RAY/COBALT 60/DOSES	DA	5 N	Y C	
PRIORITY ENCODER/EPROM./ADDRESS BUS/MULTIPLE/FETCH	D	2 N	N C	
12-STAGE BINARY COUNTER/PACKET/RADIO/J-K FF.	DA	3 N	Y	
MICROWORD/MAPPING/REGISTERED PROM.S/MUX./CPU.	D	2 N	N C	
ADDRESS COUNTER/12 STAGE RIPPLE COUNTER/MESSAGE	D	3 N	N	
REMAPS COLOR DATA/GLUE LOGIC/MONITOR/EGA/PIXELS	DA	6 N	N C	
SWITCH TO SAFETY/PROTECT YOUR RIG	A	2		
6502 BUS LINES/SEQUENTIAL BYTE BY BYTE/DISK/FILE	D	2 N	Y	
TRIP POINT/LITTLE/SINGLE CELL/DEAD POWER DEFAULT	A	1 N	N C	
ASCII./BURNERS/DATA/LIGHT/BIT PATTERN/STROBING	D	3 Y	N C	
16X32KB CMOS. RWM/MICROCONTROLLER/UC/INTERFACE CCT	D	1 N	N C	
4 LINE TO 16 LINE/3 LINE TO 5 LINE DECODER/DF/LV.	DA	4 N	Y	
LIGHT/OPTICS/BI-COLOR LED./PHOTORESISTANCE/PHYSICS	A	5 N	N	
MUX./FIFO./NCU/UP./ANALOG/CALCULATOR	DA	6 N	N C	
HARMONIC SYNCHRONIZATION/COUNTER MODULUS	DA	1 N	N C	
KEYER/500-CHARACTER/DOT & DASH/MOD.S/AC. ADAPTER	A	3 N	N	
FF.S/SCRATCH PAD REGISTER MEMORY/IMAGE DATA	D	3 N	N C	
PC./PRINTER/PARALLEL PORT/SERIAL/LATCH/JOYSTICK	DA	4 N	N	
PS./BUFFER/CURRENT LIMITER	AD	1 N	N C	46
MEMORY ADDRESS DECODING/MUX./REFRESH CYCLE/IO.	D	1 N	N	
2716/2K-BYTE/OP-CODE FETCH/LOCATIONS/ADDRESS LINES	D	1 N	N C	

Sheet1

RTTY./HF./RADIO TELETYPE/CPU./UART./IO. PORT	DA	9 N		
SPIKE ELIMINATING/SHAFT-ENCODERS/MONITOR/MC68000	DA	9 N	N	
PIA./SYNCHRONOUS/ANALOG PROCESSOR/IO./RAM./ROM.	DA	6 N	N C	
RING SIGNAL/DIAL TONE/PHONE LINE	A	3 N	N C	AS
BEAM LOSS/DETECTOR/GLASS VACUUM/CAMAC	A	6 N	C	
NEEDLE/SOFTWARE/HEX LISTING/BAUDS/DRIVE	D	6 N		
8085-SDK85/VMC-85/IO./RAM.S/EPROM./CSI-IM/INTEL	AD	9 N	N C	
ROCKWELL/3-CHIP SET/PRIMARY-RATE ACCESS/VOICE-DATA	DA	7 N	N C	
CAPACITOR/AFC.	A	1 N		
FIELD-PROGRAMMABLE MEMORIES/PROGRAMMING	D	3 N	C	
OCTAL BUFFERS/CONTROL PIN/FF.	D	4	C	
DATA/PHONEMES/STAND-ALONE OR/ANY COMPUTER/GENERATDA	DA	9 N	Y	
PROGRAM/BOOLEAN EXPRESSIONS/WORKSTATIONS	D	7 N	C	
CDS PHOTO CELL/100W TUNGSTEN LAMP/KLETT FILTER/IO.	AD	2 N	Y C	
CASSETTE TAPE-DECK/CMOS. PLL./VCO. & PSD./MOD.S	AD	4 N	N C	
TO 20KHZ/BLUMLEIN CCT/STORAGE CAPACITORS/TRIGGER	A	3 N	N C	
TUBE/ELECTRON ACCELERATORS/HIGH-POWER PULSED/50MHIA	A	5 N	N C	
COMPUTER/ROM./RAM./4-BIT/16-BIT/EPROM./EEPROM.	D	9 N	N C	
BASIC PROGRAM/DECRYPTION/ADDRESS DECODER	D	3 N	C	
MOD./RF. FEEDBACK/MS-50 HEADSET/ADAPTER/DIODES	A	4 N	N	
CAR RADIO/ZENER/VHF.-FM. RECEIVER/FREQUENCY DRIFT	A	5 N	N	
RS-232/ENHANCED VIDEO TERMINAL LOGIC/EVTLC	D	5 N	N C	
MEMORY MAPPED/INTERFACE/MULTIPLE LINE/MPU./IO.	DA	5 N	Y	
AND GATES DECODE THE ADDRESS BUS/READ-DATA LOOP	DA	2 N	Y C	
PNP TRANSISTOR/ADJUST THE PS./SWITCH-MUX./PEDESTAL	A	1 N	N C	
MAY BE USED WITH ANY Z80 SYSTEM/SLIGHT MOD.S	DA	1 N	N C	
UART./BAUD-RATE GENERATOR/SERIAL/PARALLEL	D	8 N	C	
PROGRAMS/IO./LOCATION/ADDRESS LINES/REGISTER/LATCH	D	2 N	N C	
INVERSE/MONITOR/ADAPTER/DOS./ANSI.SYS/DISPLAY	AD	6 N	Y	
UNBALANCED TRANSMISSION/FOR INTERNAL EXCHANGES	AD	1 N	N C	
COMPUTER/USART./SIO./CPU. BUS/SINCLAIR/TIMER/PTT.	AD	8 N	Y	
ARBITRATION/TIMING/ADDRESS MUX.ING	D	1 N	C	
CPU./3 CODE SEQUENCES/TIMER-CLOCK PERIOD	D	1 N	Y C	
RESET/INSTRUCTION/DOS./PROGRAM/EXECUTED/SWITCHES	D	1 N	N	
DIAGNOSTICS/PERIPHERALS/SPECTRAL LITHO-DENSITY	D	5 N	N C	
MICROCOMPUTER/MOTOR/HIGH SPEED/SERVOCONTROL/MARKD	D	5 N	N C	
CLOCK STRETCHING/OSCILLATOR/INTERFACE	D	7 N	C	
COMPACT, INEXPENSIVE/DAS./CRT./DATABOX/TTL./ZILOG	DA	3 N	N C	
SUPERIMPOSING/CPU./ON-SCREEN DISPLAY MODULR (OSD)	DA	9 N	Y	
CPU./RAM./64KBIT/MEMORY/DATA/ADDRESS	D	7 N	C	
SUPPORTS ARBITRATION/CPU./BUS/INITIATOR & TARGET	D	3 N	N C	
WRITE ENABLE/EPROM./DEMUX./STORAGE/RAM./INTERRUPT	DA	5 N	Y C	
POLAROID BATTERY/POWER/SWITCH/TV.	D	1 N	N	
INTERRUPT GENERATOR/HANDLER/SLAVE	D	7	C	
OVERCURRENT INTERRUPT/SUCCESSIVE-APPROXIMATION/OA.	AD	1 N	N C	
PICKUP/DETECTION COIL/ELECTROMAGNET/AUDIO AMP.	A	5 N	N	
APPLE/RADIO SHACK/INPUT & OUTPUT PORTS/POWER	DA	1 N	N C	46
PSSR/MC PRE-AMP./POWER AMP./HIFI/CARTRIDGE	A	4 N		
VDU./MPU/CPU./MEMORY/COMPUTERS/STORE	D	6 N		

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EMULATION/FLUKE/9100/EQUIPMENT/ROM./SMT./REPAIR	D	4	Y	N	
LMO (LINEAR MASTER OSCILLATOR)/HW-101/MOD./RIG	A	4	N	N	C
ADDRESS-DECODER/INTERRUPTS/SOFTWARE TRAPS/RAM.	D	2	N	N	C
RADIO/AMP./MOUTH IS ARTICULATED	A	5	N		C
COCO/PLUG-IN/ACIA./VIA.	D	2			C
MASKABLE/MODE 0/1/2/SERVICE/MODEL I	DA	5	N		C
MP-L SS-30/PIA./OSCILLATOR/PRINTER	DA	2	N		
OS.S/SYSTEM SOFTWARE/IO. CONTROLLER/Z80/REGISTER	D	9	N	Y	C 42
MONOSTABLE/UP./9517 DMA. CONTROLLER/BUS ACCESSES	D	2	N	N	C
ABSENCE OF DC. IN THE TRANSFORMER/CATHODE/LOAD	A	1	N	N	C
ADDRESS LATCHING/INTERFACE/ROM./UC/GATES/DAC.	D	2	N	Y	C
D FF./MEMORY/TTL. DELAYS/RISING/FALLING EDGE	D	2	N	N	C
OA.S/GAUSSIAN CURVE/AVERAGER/RECURSIVE DIGITAL	AD	9	N	Y	C
PZT.S/UP.-BASED/CAVITATION/LED. DISPLAYS/AMP.	AD	9	Y	N	C
IMPROVED LINEARITY/FET.S/GAIN DRIFTS/PIN DIODES	A	9	N	N	C 5/12
PROCESSOR & INTERFACE/OCTAL/HCS/FREQUENCY COUNTER	D	7	N	Y	AY
ACCELERATOR/ELECTRON BEAM THERAPY/DOSIMETRY/DOSE	A	5	N	N	C
SELF-LATCHING MONITOR/LOAD/ROM./ADDRESS	DA	2	N		
TRANSFER/SIGNALING PROTOCOLS/MASTER/SLAVE/REGISTER	D	5	N	N	C
GATE TRIGGERS/PULSE TRAIN/OPTICAL ISOLATOR/LOGIC	AD	1	N	N	C
CADMIUM NICKEL/AC./DC./+5V LOGIC/POWER FAILURES	AD	1	N	N	C E
AM./METER/MICROCOMPUTER/UP./ADC./FT.S/NYQUIST RATE	DA	6	N	N	C
CMOS./SUPPLY CURRENT <20MA/LOGIC/9368/70HZ MIN	D	1	N	Y	
EEPROM.S/UV.-ERASABLE/NONVOLATILE (NV) SRAM.	D	8	N	N	
PREPROGRAMMED TUNES/CHINE/ALARM TONE/MUSIC/SOUNDS	AD	2	N	N	C
LIGHTS/JUNCTION/THEORY/WAVELENGTH	A	8			C
SNUBBER/VOLTAGE-CONTROLLED POWER/MOSFET./SWITCHING	A	8	N	N	C
MINIMIZE REFLECTIONS/80387/CPU./UP./OCTAL REGISTER	D	5	N	N	C
3000HZ/GAIN OF 10/CENTER FREQUENCY/6:1 RANGE/XICOR	AD	2	N	N	C
CASSETTE/RECORDER/BW./TONES/SPEECH	A	6	N		C E
SERIAL COMMUNICATIONS CONTROLLERS	D	3			C
DETECTORS/MOD./LOCUST/TRANSMITTER/WIRES/PHASE/WANCA	A	4	N	N	76
LED.S/DISPLAY DRIVER/PLL. VCO./AUDIO DVM./DIODES	AD	3	N	N	C
SPEAKER/COLLARS/AUDIO OSCILLATOR	A	3	N		C
PROTECTION/BREAK-IN/PTT./VHF./RF./24V/RC./COIL	A	8	N	N	
CONTROL AT LOW SPEEDS/GOOD/CONTROL TERMINAL	A	1	N	N	C
CHARGE PUMP CONVERTERS/RS-432-A/EIA.	DA	2	N		
45.75MHZ/AGC./LO./IF./CRT./TV. REPAIR/AUDIO/VIDEO	A	4	N	N	C
TRANSMIT/MICROWAVE OSCILLATOR & DETECTOR/FEEDBACK	A	2	N	N	C
25 OR 40KHZ/MICROPHONES/DIODE CHARGE PUMP/TO 60FT	A	1	N	N	C
HIGH-PASS/LOW-PASS/BAND-REJECT OUT/CABLE	A	2	N	N	C
DP8473/NS16C551 & NS16C552/PC./KM75C01A/ES3016	AD	3	N	N	
MAXIM/RESISTANCE/CAPACITORS/ENERGY/IN PARALLEL	AD	1	N	N	C
SHIFT REGISTER/UP. CONTROL/LOGIC/SWITCHES/OA./PMI	AD	3	N	N	
MOSFET.-INPUT OA./GUARDING/DC. AMP./BATTERIES	A	9	Y	N	
4 INVERTERS/XON-XOFF PROTOCOL, 2400 BAUD/CONNECTOR	DA	1	N	N	
BRIGHT & EASY TO DRIVE READOUT/SOFTWARE CONTROL	DA	4	Y	Y	AJ
POWER/FET./EFFICIENCY/70 TO 76%/DC.-DC. CONVERTERS	A	1	N	N	C
SCANNING BEAM/HIGH RESOLUTION/FOCUSED	A	2	N		C

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QUALITY/VIRTUALLY NOISELESS PREAMP.	A	1 N	C	
CLOSED-LOOP/CURRENT MIRRORS/5-TRANSISTOR	A	2 N	C	
8-CHANNEL/PROGRAMMABLE TIMER/MUX./SWITCH	DA	2 N		
INTEGRATOR/MULTIPLIER/SUMMING AMP.	A	5 N	C	
REGULATOR/ALARM/PROTECT/THRESHOLD DETECTORS/TIMER	AD	5 N	N	C
ILLUMINATED/DARK/CURRENT-VOLTAGE/DIFFUSED JUNCTION	A	7 N	N	C
PICKUP COIL/CMOS. OA./4-POLE BUTTERWORTH FILTER	A	3 N	N	C
ADC. GATING CCT/DMA./PMT./IMAGE SENSORS/OPTICAL	AD	6 N	N	C
MIXING/MUX./OA./YELLOW/ORANGE/PWM./DUTY CYCLE	DA	2 N	N	C
VOLTAGE DOUBLER/SERIAL PORT/LOW-POWER SHUTDOWN	DA	3 N	N	
LCD1 CONTROLLER/PROGRAMMABLE GATE ARRAY (PGA)	A	9 N	N	3/AY
& 5 OR 12V SUPPLY FOR PROGRAMMING FLASH MEMORIES	AD	3 N	N	
POTENTIOMETERS/TRIM/ZERO/LOW-INPUT-BIAS/LOW-COST	A	3 N	N	C
40KHZ TONE MODULATED AT 1HZ/TRANSDUCERS/LAMP/TIMER	A	1 N	N	C
LARGE AMPLITUDE SWINGS/RECTIFIER/FEEDBACK/CLAMPING	A	1 N	N	C
OA./10MHZ BW./1% ACCURACY/LPF./10MV/1.0V RMS.	A	1 N	N	C
IO. PORTS/SSR./MCS-85 SYSTEM DESIGN KIT/ELECTRODE	AD	4 N	N	C
12-BIT SERIAL-INTERFACE CONVERTERS/OA./0 TO -5V	AD	2 N	N	C
SINGLE 3V LITHIUM CELL/INTERNAL SWITCHOVER CCT	AD	1 N	N	C
OPTOISOLATOR/OPTOCOUPLER/MAXIM/COMPILER/8051/Z80	AD	8 N	Y	
SENSITIVITY/RISE TIME/TEMPERATURE	A	7		C
DC. INPUT/POTENTIOMETERS/REMOTE CONTROL/LEVEL	A	1 N	N	
LIGHT ACTIVATED/SYNCHRONIZING PULSED LASERS/JITTER	A	5 N	N	C
LAPTOP PC.S/PORTABLE/VGA/RAM./PIXEL CLOCK/EMITTER	AD	1 N	N	C
TRANSDUCER/DECODER-PLD. BOOLEAN EQUATIONS/2 BITS	AD	2 N	Y	C
PRECISION RESISTORS/DIVIDER/CONTAINS A CHARGE PUMP	DA	1 N	N	C
CAD./PSPICE/ELECTRONIC DESIGN INTERCHANGE FORMAT	A	3 N	Y	
REFERENCE VOLTAGE/HEATER ELEMENT/MATCHED	A	2 N		C
TUBE/PHOTOMULTIPLIER/CURRENT/MERCURY	A	5 N		C
PROM./DECODING LOGIC/16/EPROM./DIODES	D	2 N		C
RFI./SWITCHING/TRANSIENTS/PHOTOCELL/PHOTO COUPLED	A	5 N	N	
FEEDBACK STABILIZATION CCT/2 PEAK DETECTORS/BEAM	A	3 N	N	C
+1V P-P/FASTER/HIGHER PRECISION, SPEED/EFFICIENCY	A	9 N	N	C
LOWPASS ACTIVE FILTER/STEPPING SERVO-MOTOR	AD	8 N	N	
OSCILLOSCOPE/MEASURING/COMPENSATION CCTS/OA.S	A	4 N	N	C
RESET EVERY 15S/CLOCK CCT/INTEGRATORS/PRESSURE	A	4 N	N	C
8-CHANNEL/AMP./DMOSFET./DOWN-COUNTER/REMOTE MUX.	AD	3 N	N	C
COUNTER/RF./UHF./IF. AMP. & DEMODULATOR/OSCILLATOR	DA	2 N	N	C
EPROM./RAM./ASSEMBLY-LANGUAGE SUBROUTINES/PC.	AD	6 N	Y	
RF. MEASUREMENTS/IC/ADJUSTED INDEPENDENT OF VIB	A	2 N	N	C
DRAM./PROM./IO./CPU./ARTEFACT/LOW-PASS/MONITORING	AD	9 N	N	C
LED./V. TO F. CONVERTER/3-WIRE BRIDGE/OSCILLATOR	DA	4 N	N	C
OSCILLOSCOPE/BIFURCATION/CHAOTIC ATTRACTOR	AD	7 N	N	C
"GHOSTING" & "SHADOW"/AC.-WAVEFORM DISTORTION/OA.	AD	1 N	N	C
LED.S/SHOCK TUBE/RISE-TIME/RED/YELLOW	A	3 N		C
TIME-MAGNIFICATION		1		C
		4		C
SWITCH/PERIPHERAL ELECTROSTIMULATION ANALGESIA	AD	3 N	N	C
LDR./DIMMING/RESISTANCE/CONDUCT/3 COMPONENTS	AD	2 N	N	C

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ERROR/CORRECTION/TRANSDUCER/RF./COIL/PS.	A	4	N	N	C	
VIDEO/DEFLECTION PROCESSOR/CODEC/AUDIO/IR. PREAMP.	DA	8	N	N	C	
MINIMUM NUMBER OF/COMPONENTS/UP.-BASED/INTERFACED	A	3	N	N	C	
BANDPASS/LOWPASS/HIGHPASS-NOTCH-ALLPASS/Q/100KHZ	AD	3	N	Y		
COMPARATOR/REAL & IMAGINARY/MAGNITUDE/VECTOR/Z	AD	5	N	N	C	
FUNCTION GENERATOR/COMPARATOR/MILLER INTEGRATOR	A	7	N	N		
+/-1000V (2KV)/BRIDGE/GAIN-BW. PRODUCT/2MHZ	A	3	N	N	C	
PROPORTIONAL-TO-ABSOLUTE-TEMPERATURE CURRENT/OA.	AD	1	N	N	C	
MONITOR REAL-TIME PROGRAM OPERATION/CACHE/DECODING	CD	5	N	Y	C	
FET. OA.S/INPUT RESISTANCE OF >1TOHM/MEASUREMENTS	A	3	N	N	C	
DVM.S/VFC.S/PROPAGATION TIME/STROBE PULSES/NANDED	AD	1	N	N	C	
ACCURATE TO WITHIN 0.5DEG/10HZ TO 20KHZ/ZCD.	AD	8	Y	N		
PHOTODIODE (PD)/LASER DIODES/PHOTOTRANSISTORS	AD	9	N	N	C	AR
JITTER/SWITCH/PEDESTAL/DROOP/ACQUISITION TIME/SLEW	AD	9	N	N	C	
MAXIMUM/15V/ERROR-VOLTAGE/ZENER DIODE	A	1	N	N	C	
CALIBRATION/TUNER/IMPEDANCE	A	4				
PHOTODETECTORS/OA.S	AD	7	N		C	
CURRENT INJECTION/CAPACITANCE	A	9	N		C	
A-D CONVERTER/PEAK SIMULATOR/ADC.	A	4			C	42
ANALOG SWITCH/QUAD COMPARATOR/PULSE OCCURRENCE	AD	3	N	N	C	
SINE/SQUARE-WAVE/QUAD OA./FULL-WAVE RECTIFIER CCT	A	3	N	N	C	
117V AC./NICD./AUTOMATICALLY CHARGES/TRICKLE/LED.S	AD	4	Y	N	C	
LCD./PULSE WIDTH/REPETITION FREQUENCY/GENERATORS	AD	1	N	N	C	
REFERENCE VOLTAGE/CALIBRATION CURVE/DIGITISED	AD	4	N	N	C	6
20 STEPS-SEC/DIODE-ORS/DARLINGTON DRIVER IC	AD	2	N	N	C	
IMPROVED/3US SAMPLE TIMES/QUAD OA./D FF.S/1-SHOT	AD	1	N	N	C	
LED./HV. BIAS/WIRE CAPACITANCE/VOLTAGE DIVIDER	A	7	N	N	C	4
PRIORITY ENCODER/NETWORK/GLUE LOGIC/HOST/UP./CPU.	D	9	N	N	C	
ALC/SSB./SCREEN VOLTAGE/STANDBY/RF. AMP.	A	1	N	N		
4.43MHZ OSCILLATOR/TUNING/DECODER/FEEDBACK/DIVIDER	AD	4	Y	N		
MATCHES/IMPEDANCES/SIGNAL CONDITIONING/STUDENTS	AD	3	N	N	C	
DIFFERENTIAL INPUTS/UP./PRECISION RESISTOR NETWORK	AD	1	N	N	C	
VCO./MULTIPLIER/DIVIDE BY N COUNTER/	AD	1	N	N	C	
DATA/MEASUREMENT/CONTROL/IO./<\$25/<\$15/<\$40/<\$30	AD	8	N	Y		
RECONSTRUCTING DAC./70DB STOPBAND/8TH ORDER/LPF.S	AD	2	N	N	C	
LIGHT/CONTROL CCT/REGULATOR/SCHMITT TRIGGER/24V	A	2	N	N		
OPEN-LOOP/STABILITY/BODE PLOTS/LIC TEST	A	4	N			
SWITCHED/ELECTRODE/STIMULATOR/NERVE	A	4	N		C	
DETUNING/FIELD STRENGTH RATIO/NMR. PROBES/WINDINGS	A	9	N	N	C	
DIRECTION/UP./SMC/RS232/EPROM./INTERFACE/PORT	DA	2	N	N		
GAIN/G/M/TUNED ELECTRONICALLY/NULLATOR-NORATOR	A	6	N	N	C	
VOLTAGE FOLLOWER/SHUTTER/MOTOR/PULSE/OA.S/CELL	A	6	N	N	C	E
SOURCE IMPEDANCE OF 150OHM/MAX681/CAPACITORS/20UF	A	1	N	N	C	10
LIGHT/MULTIPLE SCAN DETECTION/EMISSION DECAY	AD	4	N	N	C	
CONTRAST/DAC./UP. DATA BUS/SWITCHING REGULATOR	AD	1	N	N	C	E
TO WEIGH GRAIN/FREE FLOWING SOLIDS/UP TO 100 T-HR	A	9	N	N	C	91
75OHM LOAD/8 CHANNELS/BIASING/UNITY-GAIN/SELECT	AD	1	N	N	C	
P-N JUNCTION/SWITCHED-RANGE/THERMOSTAT/ACCURACY	A	1	N	N	C	6
ADC./INPUT OFFSET & GAIN DRIFT/SOFTWARE/10HZ/NOISE	AD	1	N	N	C	

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COMPUTES/OFFSET NULL & GAIN COMPENSATION/ACCURACY	A	1	N	N	C	
PROBES/THERMOSTAT/AMP.S/TUBES/SPECTROMETER/FLUID	AD	9	N	N	C	
WITHOUT USING INDUCTORS/INTERFACES WITH/UP.S	AD	3	N	N		
DIODE/HF./CHEMISTRY/FREQUENCY	A	1	N		C	
MEL 512K/MATSUSHITA/MEMORY/COUNTER	DA	2	N		C	
SCHOTTKY COMPARATOR/PROPAGATION DELAY	AD	1	N			
IC'S/BYTES/MULTIPLIED BY 2/SOFTWARE	D	1	N		C	
PWM./CURRENT SOURCE/SWITCHING POWER	AD	1	N		C	
TERMINAL/SIMPLE/RS-232C LINES/NS32000/ICE.	DA	1	N	N	C	
AMP./HIGH SPEED VIDEO SWITCH/OA./DRIVE/OFFSET	AD	4	N	N		
LOGIC GATE/CS.-DISABLE/+5V SUPPLY/700NS RESPONSE	AD	2	N	N	C	
CONTINUOUSLY TUNABLE BETWEEN 4.3MHZ & 6.8MHZ/DIODE	A	4	N	N		
RC.-CCT/SATURATION/NBS./X-RAY BEAM/PULSE/INTENSITY	A	4	N	N	C	61
OSCILLOSCOPE/PH ISFET./AMP./MICROELECTRODE/MOSFET.	A	4	N	N	C	
CONTROL VOLTAGE/CURRENT/FREQUENCY OF OSCILLATION	A	1	N	N	C	
TRANSPARENT LATCH/OA./CURRENT-TO-VOLTAGE CONVERTER	FAD	1	N	N	C	
SAW. RESONATOR-STABILIZED OSCILLATORS/IMPEDANCE	A	4	N	N	C	
ERROR-CODE/BIOS./IDENTIFY ANYTHING WRONG/STATUS	D	2	N	Y	C	AY
UNINTERRUPTIBLE 5V POWER/BUCK-BOOST	AD	5	N		C	
VOLTAGE-SWITCHING MODE/UP.	AD	6	N		C	
ADC./DISCHARGE TIME/MULTIVIBRATOR/READOUT	AD	2	N		C	
VOLTAGE/CURRENT LEVEL/RECORDING/MONITORING	A	2	N	N	C	
IO./PS./CONTROL BYTE/EPROM. PROGRAMMER	AD	5	N	N		
-48V/TELECOMM/STEP-UP/STEP-DOWN/BUCK-BOOST	AD	5	N	N	C	
DC. BIAS CURRENT/500 TO 700KHZ/OSCILLATION/GAIN	A	5	N	N	C	
NETWORK/MINIMUM & MAXIMUM/IBM PC./BASIC	A	3	N	Y	C	
ACCELERATING FORCE/9V/VELOCITY/HF. SQUARE WAVE	A	4	N	N	C	
2-OA./RESISTORS/ACTIVE NETWORK/Z/PASSIVE/RESPONSE	A	4	N	N	C	
OUTPUT FREQUENCY PROPORTIONAL TO THE INPUT VOLTAGE	AD	1	N	N	C	
SEMICONDUCTOR LASER/-40 TO +70DEG C/REGULATOR	A	1	N	N	C	
PROGRAMMABLE GAIN FROM -1 TO -4096/REFERENCE	AD	4	N	N	C	
AMORPHOUS COP/INTERRUPTION/OSCILLATOR	AD	2	N		C	
VARIAN/DATA REDUCTION/ACQUISITION/APPLE III/8255	AD	5	N	N	C	
ABRASION/RECORDING SURFACE BIOELECTRIC POTENTIALS	A	3	N	N	C	
DAC./ADC./APPLE/UP./COMPUTER/MICROELECTRODE/NOISE	AD	5	N	N	C	9/39
MOSFET.S/DIGITAL AUTOZEROING/PRECISION/SLEWS/5V-US	AD	4	N	N	C	
AGC./KENWOOD TS-440S/GAIN OF 10000/DIODES/FEEDBACK	A	1	N	N	C	
VTR/IMAGE-SPLIT-MODULATE/TRANSDUCER/SH.	AD	4	N	N	C	
262144HZ/INDUCTOR/VERY SMALL/2 TRANSISTORS/100HR	A	1	N	N	C	95
CASCODING/DRAINS/GAIN OF 2590/BW. OF 2MHZ/PULSES	A	4	N	N	C	60
FAST TRACK-HOLD & MODERATE-SPEED ADC./UP. BUS	DA	4	N	N		
IBM-PC./ATE./FAULT DIAGNOSIS/NODES/IEEE-488/GPIB.	AD	5	N	N	C	
TRIAC'S/RFI./ZERO CROSSING/LAMPS/AC.	AD	2	N		C	
AUTOMOBILE ALTERNATOR'S/CAR'S BATTERY	A	1	N		C	
MATCHED TRANSISTOR PAIR/COMPLEMENTARY/BAKER CLAMP	AD	2	N	N	C	
OSCILLATOR/TIMER/CURRENT-TO-VOLTAGE CONVERTER/OA.	AD	4	N	N		
VFC./OA./NAND GATES/INTEGRATOR/VOLTAGE FOLLOWER	AD	2	N	N	C	
INVERTING/SUMMING/ZENER DIODE/LINEAR CORRECTION	A	2	N	N	C	
SALLEN-KEY 2ND-ORDER/TOPOLOGY/HIGH-PASS/LPF./OA.	A	2	N	N	C	

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NOISE/MAXIM/FILTER CUT-OFF/8-STEP APPROXIMATION	AD	1	N	N	C	
POWER DELAY/TIME CONSTANT/DIODES/TRANSISTOR/OUTAGE	A	1	N	N	C	
BANDPASS FILTER/LC./TANK CCT/QUADRATURE DETECTOR	A	1	N	N	C	
2 SPATIALLY SEPARATED LANGMUIR PROBES/OSCILLOSCOPE	AD	6	N	N	C	
GEARBOX/MONOSTABLE/ASTABLE/COMPUTER	DA	2	N		C	
FUNDAMENTAL FREQUENCY/AFC.-PLL./FM. RADIO FILTER	A	1	N	N		
X-BAND/MICROSTRIP/RF./8-12GHZ/LUMPED/PLESSEY	A	9	N	N	C	
VIDEO MUX./DISPLAY RAM./8-BIT ADC./TV. COMPATIBLE	DA	5	N	N	C	
GPC/ELECTRODE/CELL/COAXIAL DESIGN/SAMPLE/ANODE	A	3	N	N	C	
COMPARATOR/OA./DC. OFFSET/DRIFT/ERRORS/<1%/HUMAN	A	4	N	N	C	E
MOSFET./VOLTAGE DETECTOR/CHARGE-PUMP INVERTER	A	1	N	N	C	
SENSOR/IN VITRO/PHASE CONTRAST MICROSCOPE/MOVEMENT	A	3	N	N	C	
NICD./NIMH (NICKEL-METAL-HYDRIDE)/CELLS/MEMORY	A	5	N	N	C	
CURRENT-VOLTAGE CONVERTERS/BOOSTER STAGE	A	3	N	N	C	
HYBRID/CMOS. GATE ARRAY/PARALLEL/SERIALY	AD	5	N		C	
BATTERY-OPERATED/REMOTE SENSING/1805 MICROCOMPUTE	DA	5	N	N	C	47
DATA/BASIC/SOFTWARE/TRIVIAL/BUFFER/PORT	DA	4	N			
		1			C	
ROBOT MAPPING/SPEED/SOUND/DC. MOTORS/DRIVERS	DA	2	N	N	C	
CONTRACTIONS/SIMULATOR/MOTHER/BLOODSTREAMS/FET.	A	5	N	N	C	
FORD-GIRLING/FLOATING PARALLEL IMPEDANCES	A	9	N	N	C	
RS-423/RS-422/RS-485/EIA. SERIAL/NE5170/LT1039	DA	4	N	N	C	
ROTOR/DIRECTION/ROTATION/STEP SIZE/CURRENT PULSE	DA	3	N	Y		
DPM./INTERSIL ICL706EV/CMRR.	AD	4	N	N	C	
REFERENCE CAPACITOR/CURRENT PULSES/500PF-5UF/~2%	A	2	N	N	C	
1% CUTOFF FREQUENCY ACCURACY/\$3.55/MAXIM	A	2	N	N		10
OA./FET./VCA./HIGH-GAIN LOOP AMP./0.7MV & 700MV	A	7	N	N	C	
9V BATTERY/TUNED CCT/FEEDBACK/SENSITIVITY CONTROL	A	3	N	N		69
COMPARATOR/SWITCHING AMP./ILLUMINATING/NIGHT LIGHT	A	4	N	N		
LOW LIGHT/REFRACTION/PREVENT OVERFLOW/INTENSITY	A	3	N	N	C	
REJECTION OF UNWANTED NOISE/PIEZO-ELECTRIC/AMP.	AD	6	N	N		
TEMPERATURE/WIND TUNNEL/TEST/FLOWS/MEASUREMENT/PCAD	AD	5	N	N	C	
DARK CURRENT/ELECTRON BEAM EVAPORATION (EBE)	A	9	N	N		42
DAC20/MSB./JFET. SWITCH/2.5 DIGIT/REFERENCE	AD	1	N	N	C	
SAWTOOTH GENERATOR/TV. DISPLAY/COUNTER/STIMULUS	AD	6	N	N	C	
VIDEO AMP./VISION/COORDINATE TRANSFORMATIONS/SCAN	AD	6	N	N	C	
PWM./SONY/NOISE SHAPING CCT/PULSE LENGTH/PLM	AD	4	N	N	C	
HCNOS./HIGH-SPEED CMOS. LOGIC/SHUTDOWN/LOW-BW. OA.	AD	1	N	N	C	
SH. AMP./STROBE/GOOD NOISE IMMUNITY	A	1	N	N	C	
NAND GATES/LED.S/WIDTH/1US TO 1MS/CAN BE EXTENDED	DA	1	N	N	C	
SENSORS/3 OA.S/RELAY/TRANSISTOR/PRESSURE/MOTOR	A	2	N	N		
MOSFET./VVR/TUNING DIODE/VVC/SENSORS/DC. OFFSET	A	7	N	N	C	
MATCHING & FILTERING/DIPLEXER/BW. OF ~100MHZ	A	2	N	N		
LOW-POWER OA./~3UA/LED./DIODE/REFERENCE VOLTAGE	A	1	N	N	C	
EIA./ISOLATION BARRIER/BUILT-IN TRANSFORMER DRIVER	DA	1	N	N	C	4
METER/LOAD CURRENT/2000W/OFFSET-NULL ADJUSTMENT	A	1	N	N	C	
NICD. CELLS/RECHARGEABLE/ADC./EFFICIENCIES/FET.	A	6	N	Y		
16-BIT SHIFT REGISTER/64-BYTE/SCAN MUX./PWM./MAXIM	DA	6	N	Y		
TRANSIMPEDANCE BRIDGE/HV./SCREEN/BEAMS	A	6	N	N	C	

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POWER CONTROL & PROTECTION IC/TRANSISTORS/MOSFET.S	AD	9 N	N	E
CURRENT LIMITING/THERMAL SHUTDOWN/FM. DETECTOR	A	5 N	N	
IR-FREE POTENTIALS/PROBE ELECTRODES/ELECTROLYTE	A	5 N	N	
OUTPUT AMP./POLARITY/REFERENCE/QUADRANTS/INTERFACE	AD	4 N	N	C
POWER/TRANSISTOR/SHORT CCT PROTECTION/<\$150/OA.	A	4 N	N	C 39
TTL./ADC./RELAYS/ON & OFF/POLARITY/BASIC/COMPUTER	AD	4 N	Y	C 28/60
OA./INPUT NOISE/0.33NV-ROOT HZ/24FA-ROOT HZ	A	5 N	N	C 72
POWERED BY ITS SIGNAL LINES/COAXIAL CABLE/FEEDBACK	A	1 N	N	
OPTOELECTRONIC POSITION CONTROL/FET./PA07/SOA.	A	9 N	N	C
SHUTDOWN MODE/+5V/MAXIM/VOLTAGE DOUBLER/INVERTER	DA	3 N	N	
-5V AT 250MA/OUTPUT/NPN/BOOST TRANSISTORS/SUPPLIES	A	1 N	N	
CHARGE PUMP/PULL-DOWN TRANSISTOR/ISOLATION DIODE	A	2 N	N	C
LEVEL CONVERTER/CONTROLLER/TTL.-CMOS./5V PS./10V	AD	3 Y	N	
RESET & MANUAL-RESET/PROTECT/POWER-DOWN, BROWNOUT	AD	2 N	N	
BATTERY-DRAIN TIMES/LIFE/COMPARATOR-REFERENCE CCT	A	1 N	N	C
HOLD/BRAKE/LOAD/AVOID EXCESSIVE POWER DISSIPATION	DA	1 N	N	C
HORIZONTAL & VERTICAL/DOT STREAM/ROM./RAM./SCREEN	DA	6 N	N	C
TIE/MICROTHERMISTOR/RESIN/PH METERING/ALKALINITY	A	4 N	N	C
OSCILLATORS/RADAR/PHASE DETECTOR	D	4 N		C
QRP PORTABLE/CHECK ANTENNAS/TUBES	A	1		
BACKPLANE TRANSISTOR LOGIC/IEEE 896.1/BUFFERING	D	4 N	N	C
TRANSMITTER/TERMINAL STRIP/LEAD/RESISTORS/GROUND	A	1 N	N	C
SYNCHRONOUS BINARY COUNTER/SHIFT REGISTERS/125MHZ	D	2 N	N	C 61
LPF./CRYSTAL OSCILLATOR/VHF./ATTENUATOR	A	4 N	N	
ADC./SAR./DAC./DIGITIZING/HIGH SPEED/SETTLING TIME	A	4 N	N	C
RLL ENCODING/STORAGE/THROUGHPUT	D	9		C
50HZ/MILLIAMMETER/CURRENT/VOLTAGE/MAGNETIC FLUX	A	1 N	N	C
CAPACITORS/BETWEEN .002 & .005UF	A	1 N	N	C
CLAMPS/OVERVOLTAGE/SEVERE AUTOMOTIVE APPLICATIONS	AD	2 N	N	C
ARBITRATION, STATUS, CONTROL & SYNCHRONIZATION	D	4 N	N	C
TUNNEL/AVALANCHE/SRD./IMPATT/LED.S/ZENER/RECTIFIER	A	4 N	N	
100V-USEC/17MA QUIESCENT CURRENT/\$49.50/GAIN	A	1 N	N	C 10
SLEW RATE/50V-US/35W/PROGRAMMABLE CURRENT LIMIT	A	1 N	N	10
ENHANCE RECEPTION/HIGH PERFORMANCE		3		
VARIABLE MAGNITUDE/DBM.	AD	9 N		C
CHOPPER/CONSTANT-CURRENT/PRECISION/DISK DRIVES	AD	6 N	N	C
TV., FM. & AM. RADIO STATIONS/19KHZ/SUBCARRIER	A	5 N	N	3
POORLY DEFINED/OUTPUT PULSE/COUNTER	A	1 N		C
CABLE-TV./VIDEO/HORIZONTAL SYNC PULSES	A	5 Y		C E
DELAY TIME/PS./SAG/SELECTED/CROWBAR CCT	AD	2 N	N	C
1HZ/10HZ/RTC./PIA./MICROCOMPUTER/6800 PROCESSOR	DA	4 N	Y	C
VOLTAGE DIVIDER/BANDGAP/OVER-TEMPERATURE SENSING	AD	1 N	N	C
COMPUTER/FAN NOISE/WARM AIR FLOW	A	1 N	N	
BAUD-RATE DIVISOR/FREQUENCY/UART./BASIC PROGRAM	DA	2 N	Y	C
CCFL/PWM./RESONANT TANK CCT/MOSFET.S/HV./ZVS	AD	4 N	N	C
POLARITY/EIA./COMMUNICATING/IBM 3101 VIDEO DISPLAY	D	1 N	N	C
CD. AUDIO/SAMPLE RATE/2 EXTRA BITS/HARMONICS/NOISE	AD	1 N	N	C
FEW GATES/AUTOVECTOR LOGIC/SIMPLE/CPU.	D	1 N		C
LNA./TV. IF./BROADBAND AMP./MICROWAVE/REGULATOR	A	6 Y	N	C

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CMOS./7-SEGMENT DECODERS/REFERENCE/CLOCK	AD	1 N	C	
TRANSFER CHARACTERISTICS/TUNING/150MHZ	A	2 N		
DUAL, PRECISION, RETRIGGERABLE/TIME PERIOD/PULSE	AD	3 N N	C	
FROM A SINGLE +5V LINE/MAX232/PC./SERIAL/INTERFACE	AD	1 N N		
MOTOROLA/ROCKWELL/INCREASED/ADDRESSING	D	1 N		
PROGRAMMABLE CLOCK DIVIDERS/16.78MHZ/MC6800 ROOTS	DA	7 N N		
SUPERVISORY/BUILT-IN INVERTER/OA.	AD	8 N	C	
TV./COMPARATOR/TRIANGLE/GENERATOR	A	2 N		4
DATA TRANSFERS/MEMORY MANAGEMENT	D	8 N	C	
RETRIGGER/CAPACITOR/FET. SWITCHES/SPIKES	D	2 N	C	
LOAD CURRENT IS LIMITED/VOLTAGE	A	1 N		
OSCILLATOR/TONE/FREQUENCY	DA	1 N		
SLAVE TRANSCEIVERS/MICROCONTROLLER/RAM./DTMF.	D	5 N Y		
ECL./COMPARATOR/2KM/CABLE/PULSE WIDTH/NIM/TAC.	D	3 N N	C	
COUNTER/LOCAL/EMITTER-FOLLOWERS/LIQUID LEVELS	DA	1 N N		
SUCCESSIVE-APPROXIMATION/COMPUTER/RESISTOR-LADDER	AD	9 N N	C	
EXTRACTING/FUNDAMENTAL/COUNTER/SELECTED/FILTER	DA	2 N N	C	
6 & 12V/LOAD OF 3.2OHM OR 6.4OHM/RESISTORS	AD	2 N N		
BBC USER PORT/SCHMITT TRIGGER/POLAROID/TRANSDUCER	DA	6 N Y	C	
PROCESSORS/BOUNDARY-SCAN/IEEE-1149.1/SCOPE ASIC.	D	1 N N	C	57
3.5-DIGIT/PULSE TRAIN/CMOS./REFERENCE VOLTAGE	DA	1 N N	C	
ANY SUPPLY VOLTAGE/RF./BIAS SOURCES/REGULATOR	A	5 N N		
SUM & DIFFERENCE/DIVIDES/IN-PHASE & ANTIPHASE	AD	1 N N	C	
HV./4KV/BREAK DOWN/PARASITIC CAPACITANCE/FAILURE	AD	1 N N	C	46
PC.S/LAN.S/SPEED/MC68302/PHYSICAL-INTERFACE/UART.	DA	7 N N	C	
GENERATOR/PROPELLOR/TRANSISTOR IS SWITCHED ON	A	1 N N		
DIGITAL OHMMETER/EXCEEDS/20MOHM LIMIT/LDR./LED.	D	6 N N	C	
TRANSCEIVER/DATA COMMUNICATIONS LINK/COMPUTER/VHF.	DA	4 N N	C	
SYNC. PULSE PEDESTAL/MONITORS/PC.S/EGA GRAPHICS	AD	1 N N	C	95
BRAIN/DESIRE/CHANGE THE LEVEL/EEPOT/OA./NEURONS	AD	7 N N		
LOAD CURRENT/CELL/VOLTAGE	A	1 N N	C	
MICROCOMPUTER CONTROL/ADC. OF BBC MICRO	AD	5 N	C	
DIGITAL DATA/ADDRESS DECODING/10MHZ	AD	1 N	C	
VIA./PROGRAM/TIMER/ADC.	AD	2 N N	C	
SINGLE-CHIP/RADIO SHACK MC-10 MICROCOMPUTER	D	7 N N	C	
1 DROP SQUARE WAVE ANALYZER/CHARGE INJECTED/SWITCH	AD	4 N N	C	
SIGNETICS/AUDIO-AMP. IC/TUNING DIODE/CONVERTER IC	A	4 N N	C	
CPU./BUS ARBITRATION/SYNCHRONOUS/ASYNCHRONOUS	D	7 N N	C	
ZCD./STATIC VAR COMPENSATOR (SVC)/REACTIVE POWER	AD	9 N N	C	
PERIPHERAL MICROCOMPUTER/RS-422 INTERFACE/8-DIGIT	DA	5 N N	C	
ELECTROMETER/DIFFERENTIAL AMP.	A	2 N	C	
FM. TRANSCEIVER/11-14V/PASS TRANSISTOR	A	2 N		E
TV./VIDEOGAME/COMPUTER/FSK.	AD	4	C	
NICD. FUSE LINK/VOLUME CONTROL/SCAN SPEED/KEYPAD	AD	4 N N	C	
ALPHANUMERIC/DYNAMICALLY REDEFINABLE CHARACTER SETA	AD	4 N N	C	
RECEIVER/CMOS./SENSE/ICL8212/CELLS/COMPARATOR	AD	4 N N		E
VOLTAGE MIRROR/1.26V PRECISION REFERENCE/6502	AD	4 N N	C	
UART./FSK./DATA/CLOCK/COMMUNICATIONS/SIGNAL/PULSES	D	1 N N	C	
DATA-TRANSMISSION/MULTIDIGIT/7-SEGMENT/IO./CMOS.	D	7 N N	C	

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REDUCE POWER CONSUMPTION/COMPARATOR/SH.	D	7	N	N	C	
COMPLEX WAVE FORMS/AMP. TUBE	A	4	N	N	C	
+200V PEAK ISOLATION/CONSTANT CURRENT SOURCE/PS.	AD	1	N	N	C	
VOLTAGE-REGULATOR/DETECTORS ARE IN SERIES/FLOW	A	1	N	N	C	E
ADC./DALLAS SEMICONDUCTOR/MOTOROLA/COMPUTER/UP.	D	7	N	Y		
MICROPHONES/WOOLINESS/MULTIPLIER	A	1	N		C	
12.5KV/DUAL-GATE MOSFET./SAMPLE/SILVER	A	5	N		C	
PICKUP/PHASE SELECT/VOLUME/TONE CONTROLS	A	1	N			
BBC MICROCOMPUTER/USER PORT/ECL. LINE RECEIVER	DA	2	N	N	C	
OFFSET-VOLTAGE DRIFT/INPUT BIAS CURRENT OF 2NA	A	1	N	N	C	
BUILT-IN ADC./12-BIT RESULT/INTERRUPT-BASED	AD	2	N	N	C	
LIGHT/CONTACTS/LOUD & UNPLEASANT NOISE/BLEEP/WAKES	A	2	N	N		
LED./600OHM/SPEECH/MICROPHONE/RING DETECTOR/AUDIO	A	6	Y	N	C	
E735 DETECTOR/CENTRAL TRACKING CHAMBER/COSMIC RAYS	AD	9	N	N	C	12
CFD.S/ULTRA-FAST/FF./50OHM LINE DRIVER/TIME WALK	AD	5	N	N	C	
0DEG-180DEG PHASE SWITCHER/SMOOTHLY/QUAD OA./ADDER	A	2	N	N	C	
HYSTERESIS/PIEZOELECTRIC/0.5-4.5V FOR/0-100KPA	A	1	N	N	C	
SPATIAL EFFECT/TONES/NOISE/LISTENERS	A	5	N		C	
SQUELCH/RADIO RECEIVER/DUMMY DATA PERIOD/MESSAGE	D	1	N	N		
SEQUENCE/PROTECTION/TURN-ON/RETRY PULSES/FAULT	AD	1	N	N	C	
DELAY/SETUP-&-HOLD WINDOW/FF./CMOS./TRIGGER	DA	1	N	N	C	
STRAIN-GAGE TRANSDUCER/ADC.	DA	2	N		C	
DATA BUS/ADDRESS DECODER/IO. PORT/STABLE	AD	6	N	Y	C	
VISUAL & AURAL/PROTECTS EARS/POWER AMP.	A	4	N	N		
CURRENT PULSES/2 DIODES/2.5V REFERENCE	AD	1	N	N	C	
30MOHM/LOGIC LEVEL/MOSFET./NMOS./TURNING OFF POWER	AD	2	N	N	C	
IDEAL/MATCHED PAIRS/VCVS/OA./BUILDING BLOCK	A	9	N	N	C	
DIGITAL IMAGE DETECTOR/IS32 OPTIC RAM.	D	9	N		C	
TREMOLO/PANNING/RING-MODULATION		5				
WRITE GATE/SELECT/CONTROLLER/POWER UP/INTERFACE	D	1	N	N	C	
LEARNING AIDS, WEATHER REPORTING/INTERFACING/LSI.	AD	6	N	Y	C	
RELAY/BCD.-TO-LINE DRIVER/READOUTS/LED.S/RECEIVER	AD	8	Y	N	C	
6800 UP./1-SHOT/14-BIT PROGRAMMABLE COUNTER-TIMER	D	1	N	N	C	
CHEMICAL INSTRUMENTATION/TIMER LED./GCDE/RELAYS	DA	7	N	Y	C	9/69
SYNCHRONOUS/MICROCOMPUTER/DTACK/FF.S/DATA BUS	D	3	N	N	C	
4 NEON INDICATORS/MAGNETRON TUBE/LED. DISPLAY	AD	9	Y	N	C	
TRIAC/COMPUTERS/AC./POWER/SLAVES/DIODE NETWORK	A	3	N	N	C	
TO GENERATE A TRIGGER/DIODES/GATE SIGNAL/117VAC.	A	4	N	N	C	
COMPUTER ADD-ON/RS-232 SERIAL PORT/49.4KHZ/PULSES	DA	7	N	Y		
CNC/MOTORS/NEURAL SERVOS/PC./ACCURACIES/0.001IN	DA	8	Y	N		
SOLID-STATE/RECEIVE (RX) TO TRANSMIT (TX)/RF.	A	4	N	N		
VCO./CHARGE PUMP/PHASE ERROR/PULSES/WEAK LOOP	AD	2	N	N	C	
COMPARATOR/COUNTERS/DISPLAYS/BCD./WATS	DA	6	Y		C	
VACUUM TUBE/VOLTMETER/HEATER/ELECTRONS	A	7	N		C	
LOUDSPEAKER/RESONATOR/ACOUSTICS/1%	A	5	N	N	C	42
RESISTOR-THERMISTOR NETWORKS/BRIDGE/A-D	A	4	N		C	
INCREASED VISIBILITY/READABILITY		4			C	
SENSE AMP./COIL PREDRIVER/UP.	DA	4	N		C	
PROM./MONOSTABLE MULTIVIBRATORS/SH.	AD	4	N	N	C	

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SPEAKERPHONE/DTMF. DIALER/SPEECH/TONE RINGING	A	6	N	N	C	
DISTRIBUTED PROCESSING/DUART./USART./DATA TRANSFER	D	7	N	N	C	
5 SYNCHRONOUS CLOCKS/19200 TO 1200HZ/BESSEL FILTER	DA	2	N	N	C	
PLL./PIXELS/DAC./GRAPHICS/MUX./MICROCOMPUTER	DA	9	Y	Y		
CURRENT BOOSTED/SHORT-CCT PROTECTION/SHUTDOWN/TTLAD		8	N	N		
SLIC./FILTER/CMOS./NMOS/PBX./UP./IO. PROCESSOR	DA	7	N	N	C	57
120 OR 240V AC./UNDERVOLTAGE SENSING/DIODES/DOUBLE	AD	2	N	N	C	
AND GATE/PULSE TRAIN/DIFFERENCE/SHAPING	AD	1	N			
EPROM. MONITOR/TIMER/RECEIVER-TRANSMITTER	D	4	N			
SERIAL INTERFACE/PORT/16 CHANNELS/DATA	DA	2	N			
OVERCROWDED CHANNELS/PULSE AMPLITUDE	A	2	N			
ISOLATION/FLOWRATE/TUBING/DATA/ANALYSIS	AD	9	N		C	42
3.5 DIGIT/LOW INSULATION/TELECOMMUNICATION CABLE	AD	1	N	N		
AUDIO/90DB/13DB OF GAIN/PNP TRANSISTOR/DC. VOLTAGE	AD	3	N	N	C	
LOW-PASS/BANDPASS/HALL-EFFECT/MAGNET/ATTENUATOR	A	3	N	N	C	
GAS/INJECTION VALVES/FIRING PULSES/AUTOMATED	DA	6	N	N	C	
INSTRUMENTATION DIFFERENTIAL AMP./SENSOR/TRIAC/ZCS	AD	2	N	N	C	E
CURRENT AMP./TRANSISTOR/AUDIBLE WARNING/EGG TIMER	AD	5	N	N		
HEATH ET-3400/LIGHT/TIME-INTERVAL MEASUREMENT	AD	9	N	Y	C	
AC. PHASE CONTROLS/DEMONSTRATION PROGRAM/PULSES	DA	6	N	Y	C	
DUTY CYCLE/ADJUSTED/DECODER/HEXADECIMAL/PWM./5KHZ	DA	1	N	N	C	
MANCHESTER CODE/RECEIVER/ON-CHIP AMP./OSCILLATOR	DA	2	N	N	C	
DATA TRANSFER/DATA ACQUISITION/INEXPENSIVE/6800	DA	5	N	Y	C	
BUS/T414/PC./SERIAL COMMUNICATION/DATA TRANSFER	D	7	N	N	C	
FET./BUFFER/ECL. LINE RECEIVER/HF.S/DECADE COUNTER	DA	2	N	N		
FF./OPTOCOUPLER/TRIAC/TURN APPLIANCES ON & OFF	AD	3	Y	N	C	69
DIRECTION/TORQUE/ROTOR/WAVE, 2-PHASE, & HALF-STEP	DA	5	N	Y		
MODEM/PIEZO SOUND TRANSDUCER/OSCILLATOR	DA	2	N		C	
INVERTER TRANSISTOR/INDICATOR/TRIP	A	1	N		C	
APPLE II/<\$600/RESOLUTION	DA	3	N	N	C	
CUT OUT/SPEAKER/SHADDAP/SIGNAL/STETHOSCOPE/HEART	AD	4	N	N	C	
2MHZ OVER 3M OF TWISTED PAIR/OUTPUT/INPUT/HIGH	D	1	N	N	C	
FLOW/PLATINUM/TUNGSTEN/ENVELOPE DETECTOR/VCO.	A	3	N	N	C	
DATA-LOGGER/ADC./MINING/RECORDS/MOVEMENT/SEISMIC	AD	5	N	N	C	
SHARING OF THE LOAD CURRENT/FAULT/DETECTED/UPS.	A	7	N	N	C	
ELECTRODES/INDUCED CURRENT/BIOLOGICAL EFFECTS	A	6	N	N	C	
STABILITY/REMOTE CONTROL CCT/AIR & WATER/GAS	A	5	N	N	C	16
SSR./MONSANTO/ZERO CROSSING TRIGGER CCT/117VAC.	AD	4	N	N	C	
8 BIT/COMPUTER/8080 OR Z80 PROCESSOR/PORT/DATA BUS	AD	9	N	Y	C	34
GC. ANALYZER/SENSOR/SQUARE WAVE GENERATOR/AMP.	AD	2	N	N	C	
TTL./ANALOG INVERTER/PULSES/STABLE/100HZ TO >1MHZ	AD	2	N	N	C	
IBM COMPUTERS/PERIPHERALS/HIGH SPEED/PROGRAMMABLE	D	6	N	N	C	57
ADC.S/AUTOMATIC GAIN COMPENSATION/ANGULAR/CMOS.	DA	4	N	N	C	
TELEPHONE INTERCOM/LED.S/AC. LOAD/BELL/MUSIC	A	5	N	N	C	
OA./REFERENCE/LOAD CURRENTS/OUTPUT IMPEDANCE/POWE	A	2	N	N	C	
HIGH DC. SUPPLY VOLTAGE/HT./TRIGGER/SPARK PLUG	A	1	N	N		
C RATE/ASSESS THE CELL'S STATE/MONITORING/ADC.	AD	2	N	N	C	10
S.S.TV./C64/PICTURE/RADIO/TELEPHONE	AD	2	N		C	
GENERATOR/VIDEO GAMES/TOYS/OSCILLATOR	A	2	N		C	

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SWITCH-MODE/OPTOISOLATOR	DA	1		
AUTOPATCH/IR./LED./AUDIO RECEIVER/TRANSMITTER	A	3	N	N
STEP SIZE/2.4MV/DATA/4 LSB.S/TIED TO ZERO/MSB.S	AD	1	N	N
CHECKER-CORRECTOR/SOFT ERRORS/GATE ARRAY/REFRESH	D	7	N	N C
VOLTAGE/SKIN POLARIZATION/TRANSFORMER/PARALYZED	AD	6	N	N C
LFBSR/LONG DIVISION/BINARY/MODULAR/GATES/D-TYPE FF	D	6	N	N C
UP./BCD./LCD./CASCADING/20-BIT SERIAL DATA INPUT	D	2	N	N C
MWPC./UV. PHOTONS/LIGHT/MIRROR/TMAE/TEA/CERN. PS	AD	9	N	N C 61
CURRENT SINK/TAGLIAVINI'S/EXTENSION OF HIS IDEA	AD	1	N	N C
P-I-N/RANGE OF 5 DECADES/ILLUMINANCE/PHOTOMETRIC	A	2	N	N C
HALL-EFFECT SWITCHES/KEYSTROKES/SPEACES	D	1	N	C
ELECTRIC HAND/PROSTHESIS/BATTERY PACK/CHARGED	D	3	N	N C
UC/CMOS./RETAINING/TIMER/PULSE GENERATOR/HOUR/RAM.	DA	1	N	N C
PRE-SYNC SEPARATOR FILTER/RGB./PAL VIDEO/COMPOSITE	A	6	N	N C
SINE-WAVE OSCILLATOR/WINDOW COMPARATOR/DISPLAY	AD	1	N	N C
DIGITAL AUDIO/DC. SHIFT/ZERO CROSSOVER/RESISTOR	AD	1	N	N C
ELECTRON GRID PULSE/SIMS-TOF./HV./CURRENTS/POWER	A	3	N	N C
DATA-ACQUISITION/32K OF RAM./ANALYSIS	D	6	N	C
PORT/CONVERTERS/C-64/DTE/MAXIM/DCE/PIN	DA	3	N	
LSI./CRT. CHIP SET/VIDEO MEMORY/CPU./RAM.	DA	9	N	C
RADIO COMMUNICATION/SELECTIVITY/ALC	A	1	N	
RESET/EPROM./STACK RAM./NOVIX COMPUTER	DA	6	N	C
PLATE/2.4KV/2A/GRID/EXHAUST/SSB./CW./VHF.	A	8	N	
TACHOMETER/BIDIRECTIONAL/DC. MOTORS	A	6		C
PROPER LINES/DATA TRANSMISSION/OPTOCOUPERS/LINK	D	1	N	N C
ANTENNA RELAY/2000VDC./HARMONIC TRAPS/TUBE/FLAPPER	A	9	N	N
MULTIPLICATIVE MIXING/SWITCHING/ADDITIVE/MOSFET.S	A	6	N	N
SERIAL PERIPHERAL INTERFACE BUS/REGISTERS/MCU	D	6	N	Y C
FAULT-MONITORING/POSITIVE- OR NEGATIVE-OUTPUT	A	9	N	N C
BAUD-RATE DETECTION & SETTING/RS-232/6800/MEASURES	D	2	N	N C
DUAL-SLOPE-INTEGRATING/AIM-65/MICROCOMPUTER/IO.	AD	2	N	N C
SOIL/MEASUREMENTS OF CONE RESISTANCE/TANDY 200	AD	9	N	N C E
THUMBWHEEL & ROTARY/DIP. & TOGGLE/CASCADING/BCD.	D	1	N	N C
INTERFACE/NAND GATE/MERCURY SWITCH/OPTOISOLATOR	DA	9	N	Y C 3
COUNTER/INEXPENSIVE/FF.S/TRANSMIT & RECEIVE/CLOCK	D	1	N	N C
CURRENT/"WAKES UP"/RETURNS IMMEDIATELY TO 5V/DATA	AD	1	N	N 60
SUPPORT CHIP/DATA PORTS/DOWN COUNTER/HANDSHAKE	D	6	N	Y C
SMPS./MAINS/FAULT/WARNING/BACKUP BATTERY/SWITCH	DA	2	N	N C
GATE CAPACITANCE/SCR./PROTECTION ZENER/OVERVOLTAGEA	A	1	N	N C
RECTIFIER DIODES/1KHZ/300KHZ/RF. TRANSISTOR/DRIVE	A	1	N	N C
RS-232C LINE RECEIVER/8051-BASED DATA-LOGGER	DA	1	N	N C
LINEAR AMP./INDICATOR LIGHTS/VSWR.	AD	4	N	
FUEL/GAS ENGINE/INDUCTION-TYPE/FAN	AD	3	N	C
WIRE MUX./MONITOR/ENGINE/FIBRE OPTIC/TIMER/RADIO	D	6	N	N
PULL/LO./SW. RECEIVER/STEPS/REFERENCE	AD	1	N	N
PROTOCOL/LAN./BINARY-FILE TRANSFER/ELECRONIC MAIL	A	6	N	N C
UART./SERIAL/LAN./SYNTHESIZERS/KEYBOARD/COMPUTER	D	9	N	N C
ADDRESSES/32 NODES/IDENTITY COMPARATOR/GATE	AD	2	N	N C
COMMODORE 64 MICROCOMPUTER/USER PORT	D	6	N	Y C

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40MA TO 1A/LOAD CURRENT	A	1 N	C	
EXPANDED/2-KEY ROLLOVER/DATA ENTRY	D	2 N	N C	
BIG/PARTS		7		
RS-232-C/LED./PHOTO-DARLINGTON/TO 4800 BAUD/20MA	AD	1 N	N C	
WARBLE TONE/INEXPENSIVELY	A	2	C	42
8-BIT/ROM./CPU./HMOS./RAM./IO./SELF-TEST	D	6 N	C	
PULSE RATE MONITOR/ASCII. DATA/LINE DRIVER/LOGIC	D	3 N	Y C	
CDS PHOTOCELL/NEON BULB/OPTOCOUPLER/TRIAC/DIAC	A	2 N	N C	
TRIGGER/PS./FET./90V, 20HZ/TRANSIENT/SCR.	A	6 Y	N	
INTEGRATOR/DIFFERENTIATOR/DIAL PULSES/DISPLAY	DA	1 N	N C	
FEEDBACK CONTROL/PERMANENT MAGNET (PM)/ARMATURE	A	5 N	N C	
BUS/IO.-MAPPED/PERIPHERAL IC'S/ADDRESS LATCH/DATA	D	1 N	N C	
RADIO/IBM PC./COM 1/SERIAL PORT/STATION DIRECTORY	DA	2 N	N C	
15S PER IMAGE/DR11C/COMPUTED TOMOGRAPHY/GRAPHICS	DA	3 N	N C	
SELF-SCANNING/ARRAYS/RL128S/DETECTOR/MICROCOMPUTER	DA	9 N	Y C	
SCHMITT TRIGGER/RC. FILTER/SENSE RESISTOR/UP.	DA	1 N	N C	
SENSITIVITY/IS EXCELLENT/TIME BASE/ACCURACY/\$199	AD	2 N	N	
PHA./NUMERATOR/DENOMINATOR/NIM/DIODE TO LIMIT	A	2 N	N C	
SURFACE DISPLACEMENT/LASER BEAM/LIGHT/MIRROR	A	2 N	N C	
PWM./2.5V REFERENCE/COMPARATOR/CURRENT SENSING	AD	3 N	N C	
BUFFER/KEYS THE TRANSMITTER/INVERTER/AND GATE	DA	1 N	N C	
J-K FF.S/DIGITAL DELAY/XENON FLASH/HV./SWITCH	DA	8 N	N C	
UP./MPU./DPM/INTELLIGENT PERIPHERAL CONTROLLER/IPC	D	8 N	N C	
HYSTERESIS/COMPARATORS/FF./SETTING/ADJUST/SPAN	AD	1 N	N C	
MONOLITHIC/PHILIPS/UNCALIBRATED	AD	1 N	N C	
NMR. SPECTROMETER/SPIN-LATTICE RELAXATION TIMES	DA	3 N	N C	
8 TTL.-LEVEL INPUTS/DIP. SWITCH/OPTICAL ISOLATOR	AD	6 Y	Y	
TUBE/RELAY/IR. PHOTODIODE/PHOTOTRANSISTOR/HEATER	A	1 N	N C	
LED./PHOTOVOLTAIC/SOLAR CELLS/MOSFET.S/HYSTERESIS	A	4 Y	N	
180 TO 240V/TIME DELAY/POWER RATING OF 250-450W	A	1 N	N	13
CW. ID/AFSK./TRANSMITTER/RIG/TR. SWITCHING/TTL.	DA	3 N	N C	
FINGER/METALLIC PLATE/TOUCH/BRIGHTNESS	AD	6 N	C	
TRIAC/PERIODICALLY INTERRUPTS LINE POWER/PRESET	DA	2 N	N C	
AGC./CERAMIC RESONATORS/IF. AMP./SUPERHET RECEIVER	A	2 N	N C	
IO./MUSIC/BAR CODE READER/DATA LOGGER/INTERFACE	D	9 N	N	
SYRINGES/DISCHARGING & CHARGING/PHOTOSENSOR/RELAYS	AD	6 N	N C	39
NOISE MEASUREMENT/RMS./SNR./HGCDTE/LASER PULSES	AD	9 N	N C	42
DATA/STATIC/DYNAMIC/WRITE PROTECTION/VOLTAGE	A	4 N	N	
8-BIT MICROCOMPUTER/IO. PORTS/REGISTERS	D	5 N	C	
2 COLOURS/FIXATION/EYE MOVEMENTS/BUZZER	D	3 N	C	42
RECORDING/CHANGES/PIEZOELECTRIC/QUARTZ TRANSDUCER	A	4 N	N C	32
MATCHED BEAD THERMISTOR/RESISTANCE/CMOS. OA./PULSE	AD	3 N	N	
LED./ZENER DIODE/ON-CHIP MOSFET.S/BUFFER	AD	2 Y	N C	
BELOW $V_{Iz} + V_{BE}$ /TO MAINTAIN PERFORMANCE	A	1 N	N C	
PC./KEYBOARD/DAS./BRAIN ASYMMETRY/MAGNET/ASCII.	DA	4 N	N C	25
COMPARATOR/DECADE RESISTOR NETWORK/AUTOZERO PHASDA	DA	2 N	N C	
NARROW-BAND/AF. AMP./COLPITTS OSCILLATOR/MOTOROLA	A	1 N	N C	
SIMPLE/CURRENT GAIN (BETA)/BATTERY TEST/CHECKER	A	6 Y	N	
PACKET RADIO/AF./FSK./RF. MODEM/TNC.S/TRANSCIVERS	AD	4 Y	N	

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PROGRAMMABLE LOGIC/EPLD.S/LCA/DMA./STATE MACHINES	D	7	N	N	C	
COMMUNICATION/HOST UP./200 TO 2000 RPM./COMPARATOR	AD	1	N	N	C	
ANY NONINTEGRAL POWER BETWEEN 1 & 2/CAN BE SCALED	A	2	N	N	C	
SENSOR/LINEARIZATION/POTENTIOMETER/SQUARE-ROOT	A	1	N	N	C	
INTERFACES/COMPARATOR/LVDT./DISPLACEMENTS	AD	8	N		C	
EXTENDING RESOLUTION/12 TO 15 BITS	AD	9	N		C	
8MA-US/4MA OUTPUT/3-STATE LATCHES/CRT. DRIVE/DIP.	AD	1	N	N		
UNIPOLAR INPUTS/180MW/90NS MAXIMUM BUS-ACCESS TIME	AD	1	N	N		
FRONT-END/THD. COMPENSATION CCT/AGC./HIGH-FIDELITY	A	2	N	N	C	
EXPANSION PORT/PICTURE/PROGRAM LISTING	DA	4	N	Y	C	
LDR./MONOSTABLE TIMER/LIGHT-ACTIVATED TRIGGER	DA	3	N	N	C	
SH. AMP./ANALOG SWITCH	AD	7	N		C	
COMPACT/WOLLASTON PRISM/DETECTOR	A	4			C	
CPU. HP 320/TRACK & HOLD/Z-PIEZO/ADC./DAC.	AD	8	N	N	C	
FET./OA./BUS INTERFACE/BUS TRANSCEIVER/COMPARATOR	AD	4	N	Y	C	
COMPARATOR/SCHMITT TRIGGER/PULSE/CHARGE MEASURING	AD	4	N	N	C	
ASYNCHRONOUS-STATE-MACHINE (ASM)/PROM./LOGIC	A	7	N	Y	C	
AMP./ADC./MCA./PMT.	AD	6	N	N	C	
OUTPUT LEVELS ADD/PROGRAMMABLE GAIN, LOW NOISE	A	2	N	N	C	
IGNITION SWITCH/SHUTTING OFF/ELECTRICAL SYSTEM	DA	1	N	N	C	
UP./DATA EXCHANGE/MULTIPROCESSOR/DMA./SLAVE LOGIC	A	9	N	N	C	
BRIDGE CCT/BUBBLE LEVEL/PROBE/DIPOLE/DVM./AC./1KHZ	AD	4	N	N	C	
COMPENSATE FOR THE VOLTAGE DROPS/TRACK-&-HOLD	AD	8	N	N	C	
SYNCHROTRON/KEK/20PC OVER A TIME INTERVAL OF 2S	AD	9	N	N	C	61
ELECTRON DENSITY/ABEL INVERSION/FUSION REACTOR	A	7	N	N	C	61
ERRORS/DIGITAL INSTRUMENTS/MEASURAND/DMM.	AD	3	N	N		
ADC.S/QUADRATURE DETECTION/DAS./OA./DUAL D FF.	DA	6	N	N	C	
MICROCOMPUTER-BASED/DATAPAC/ACCELEROMETER/RAM.	D	9	N	N	C	
STRAIN GAGE BRIDGE/FORCE/TRANSDUCTION/LPF./LEGS	AD	5	N	N		25
BIAS CURRENT NOISE/HIGH SOURCE IMPEDANCE/CMR.	A	1	N	N	C	
CURRENT-TO-VOLTAGE CONVERSION/PHOTOVOLTAIC MODE	AD	3	N	N	C	
RAMP GENERATOR/OA./CONSTANT CURRENT/CURRENT PUMP	A	2	N	N	C	
ADC./DECODE/CLOCK/TIMER/IO./ANALOGUE INPUTS	DA	1	N	N		
TRANSCONDUCTANCE/TRANSFER FUNCTION/4-QUADRANT	A	5	N	N	C	
RH./TEMPERATURE/ANEMOMETER/RAIN/WIND VANE/PRESSURE	AD	9	Y	N	C	AY
OA./200DEG C/BUFFER/DAC./PROGRAMMABLE GAIN AMP.	AD	4	N	N	C	AI
COUNTS/PEAKS/SPECTRA/UART./ENCODER/DRIVER	DA	2	N	N	C	
BASIC/ASSEMBLER ROM.S/PREPROCESSING/IO.	AD	3	N		C	
PORT/UP/DOWN/CMOS./REGISTER/CLOCK/DIGITAL	D	2	N		C	
AUTOMATIC/APPLE II MICROCOMPUTER/HEATING/COOLING	AD	5	N	N	C	
APPLE IIE/PARALLEL INTERFACE/REFLUX OESOPHAGITIS	DA	3	N	N	C	
USER PORT/AMP.S/TEMPERATURE/HYERTHERMIA/RF.	DA	5	N	N		
ACIA./TELEPHONE/AUTO-DIAL/AUTO-ANSWER/ENCRYPT/6502	D	2	N	N		
NUMBERS/UP./DIODES/COMMON-CATHODE/4 IC'S	D	2	N	N	C	
COMPARATOR/STAIRCASE/WEIGHING/VALUE/BINARY COUNT	AD	3	N	N	C	
MOD./APPLE II GAME IO./ANNUNCIATOR/ELECTRODES/PS.	AD	9	N	Y	C	E/42
INTERSIL/PET/IO./TIMING/RESPONDER/DATA TRANSFER	AD	5	N	N	C	
DAC./ADC./COMPUTER/UP./BUS/CHARGE SENSITIVE AMP.	DA	7	N	N		
PMT./PET/PARALLEL PORT/MUX./IEEE/JK FF./CMOS.	DA	5	N	N	C	

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AMSTRAD PC. 1512/UP./FREE-INDUCTION-DECAY SIGNAL	DA	4 N	Y	C	
DAC.S IN PARALLEL/VIRTUAL-GROUND SUMMING/MOSFET.	AD	2 N	N	C	
LOGS THE DATA/UP./OA./MODEL/EPROM./LCD./RAM./MODEL	DA	8 Y	Y	C	
16 INPUT CHANNELS/MUX./DAS.S/IEEE PORT/PROGRAM	DA	4 N	Y	C	
PDP-11 MINICOMPUTER/VIDEO DIGITISER	AD	4 N	N	C	
COLD-JUNCTION COMPENSATION/REFERENCE/DIFFERENTIAL	A	1 N	N		
SH./ANTI-ALIASING FILTER/FREQUENCY	AD	7 N	N	C	
BACKSCATTERED ELECTRON (BSE)/TV. IMAGING/AMMETER	A	5 N	N	C	E
THRESHOLD EXTENSION/IDU/RF./LNB/VCO./THEFT ALARM	AD	7 Y	N		
CURRENT-LIMITED BY/RESISTOR/20MA/1MS/GATES/DRAINS	AD	1 N	N	C	
MEMORY INTERFACE/R3000/32-BIT RISC. BUS/UP.S/DMA.	D	6 N	N	C	
DIGITAL INTERPOLATING FILTER/CONTROLLER-FORMATTER	AD	9 N	N	C	
COMPUTER/6502/ROM./INTERRUPT HANDLER/TIME OF DAY	DA	3 N	Y	C	
1-SHOT/FF./PULSE/TIMER/MONOSTABLE/DIRECT/SETTING	DA	2 N	N	C	
INTERFACE/AM./PHASE MODULATION/MRI/NMR./MOSFET.	AD	6 N	N	C	
FM.-STEREO/LED. INDICATORS/MONAUURAL/AM./TV.	A	2 N		C	
LIFE TEST/JUNCTION TEMPERATURES/FAILURES	AD	4 N			
ECL./DATA/125MSAMPLES-S/PIXELS/8-BIT	AD	6 N		C	
AMORPHOUS MATERIALS/ELECTRICAL CONTACTS/PRESSURE	A	3 N	N	C	
SOFTWARE-CONTROLLED/DATA LATCHES/\$30	DA	7 N		C	42
DAC./ADC./AD667/WAVEFORM GENERATOR/INEXPENSIVE	AD	9 N	N	C	
DATA-ACQUISITION/PROGRAMMABLE-GAIN AMP. (PGA)	AD	9 N	Y	C	
4-QUADRANT VARIABLE TRANSCONDUCTANCE/SQUARE ROOTS	A	5 N	N		
SINE & COSINE/TONES/EFFECTS/100 TO 10000HZ	A	3 N	N	C	
SOUNDS/TILT/FET. AMP./RC. TIME CONSTANT/INVERTER	AD	4 Y	N	C	
FET. OA./ADDING-SUBTRACTING AMP./WORK FUNCTION/WF	A	5 N	N	C	
MULTIPLIER/SCHMITT-TRIGGER/LATCH/CURRENT SOURCE	DA	2 N	N		
PARALLEL PORT/ADC./DAC./PLL./RF./VCO./0.1-810MHZ	AD	9 N	N	C	
CORDLESS/HEADPHONES/TV. OR MUSIC/IR. EMITTER/PIN	A	5 N	N	C	
BLOOD/SCANNER/CHART RECORDER/CANINE/VEINS/ARTERIES	AD	9 N	N	C	28/AG
COLOR/PROGRAM/TONES/ADC./PRINTER PORT/AM. VIDEO	AD	5 N	N	C	
TRIGGER/PARTICLE TRACKING CHAMBERS/EM. CALORIMETER	AD	9 N	N	C	12/AR
RF. MIXER/OSCILLATOR/COMPOSITE VIDEO/FM. SOUND	A	2 Y	N		
ERROR-SIGNAL PATH/+-160DEG/OA./COUNTER/LEVEL SHIFT	AD	1 N	N	C	
TC./BOOTSTRAP/OA./DAC.S/EEPROM./SENSING/FET./ZENER	AD	5 N	N	C	
ANTI-THEFT/REGISTER/ALARM/HORN/LIGHTS	DA	2 N		C	
MEASURING/BIPOLAR/ADC./COMPUTER/GAIN	AD	9 N		C	42
GROUNDING/PLANE/PROPAGATION DELAY/BIPOLAR OFFSET	AD	6 N	N		
DETECTOR CURRENT/SIGNAL-COMPRESSION/AMPLITUDE	A	2 N	N	C	
PULSES/COUNTER/DATA LOADING/BUFFERS/MIXER/PICTURE	DA	1 N	N	C	
ATTENUATION/LNA./UP-DOWN COUNTERS	DA	2 N	N	C	
FILTER/FIFO./HIGH-SPEED MODEM/DAC.S/MUX./SH. AMP.	AD	9 N	N	C	
MOS. SWITCHES/FET.-INPUT OA./"ERROR AMP."	AD	5 N	N	C	E
DIFFERENTIAL/UP./8-BIT/SIGNAL CONDITIONING/AIR	AD	5 N	N		
ANALOG VOLTAGES/TRANSFORMED INTO LOGIC SIGNALS	AD	4 N	N	C	
LPT1/IBM PC. CLONE/REFERENCE VOLTAGE/5V/DAS./BASIC	AD	3 Y	Y	C	
VOLTAGE REFERENCES/PS. REGULATORS/20MHZ/COMPARATOAD	AD	6 N	N	C	
60DB RANGE/0 TO 200MV/2MHZ BW./ADC./LCD./9V/2.5MA	AD	2 N	N	C	57
JFET. INPUT OA./GAIN OF 5/DAC.S/CURRENT FEEDBACK	AD	4 N	N		

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SWITCHED CAPACITOR FILTERS/SCF/NMR./PSD./SPG8640B	AD	5	N	N	C	
TC./COLD-JUNCTION ERRORS/RESISTORS/BRIDGE/MATCHING	A	7	N	N	C	
CURRENT-FEEDBACK OA./DETECTOR/RABBIT/EWE/UBUS/ADC.	A	5	N	N	C	
50MHZ, 80DB DEMODULATING/IF./LIMITER OUTPUT/FILTER	AD	4	N	N	C	
PRECISION/MEASUREMENTS/DAC./TEMPERATURE/OA./8-BIT	AD	5	N	N		
40KHZ TO 40MHZ/ECL. COMPARATOR/OA. INTEGRATOR	AD	2	N	N	C	
MUSIC/AUTOMOTIVE STEREO/RETICON/VCO./FF./OA.	AD	5	Y	N	C	
OUTPUT TRANSISTOR/1.2V BAND-GAP/PS./ECL./VIDEO	AD	3	N	N	C	
BALANCED MODULATOR-DEMODULATOR/TRIWAVE OSCILLATOI	AD	2	N	N		
TDM./COMMUNICATION/MEMORY/1.5NS/PULSE TRAIN	D	9	N	N	C	
TRANSISTORS/PS./MONITOR/VOICE COIL/DC./HIGH-POWER	A	6	Y	N	C	45
REFERENCE/MULTIPLIER/DC. POWER METER	A	1	N		C	
COMPARATOR/AMP./VOLTAGES/PRECISION/LEVELS	A	1	N	N	C	
INTERCOM HORN/TRIAC/OPTOISOLATOR-COUPLER/VCO.	AD	4	N	N	C	
TV. RECEIVERS/COMPUTER GRAPHICS	DA	6	N		C	
2 ANALOG MUX.S/TIMING/SELECT	D	1	N		C	
ECL./DECODE LOGIC/PROCESSING GRAPHICS/COMPUTER	AD	6	N	N		
ON-CHIP DRIVER/TTL.-LEVEL CLOCK/SH.	AD	1	N	N	C	
COMPUTER/OPTICALLY COUPLED/PHOTODIODES	AD	8	N	N	C	15
PROGRAMMABLE LOGIC CONTROLLER/ALTERNATOR/RAILGUN	A	6	N	N	C	E
ADC. & INTERFACE/LOGIC & TIMING/TTL./APPLE II/CPU.	DA	5	N	N	C	
ELECTRIC SECTOR FIELDS/MOD./RELAY/GAIN/GC./DIGMID	AD	5	N	N	C	
INDEPENDENT SETTING OF MARK & SPACE/OSCILLATOR	D	1	N	N	C	
DIFFERENTIAL CURRENT OUTPUT/VOLTAGE OUTPUT	A	1	N	N	C	35
TEMPERATURE/0-650DEG C/COLD-JUNCTION COMPENSATOR	A	2	N	N	C	
SH./SQUARER/SUBTRACTOR/FEEDBACK LOOP	AD	3	N	N	C	
VERSABUS/FEEDTHROUGH/DIGITAL/FF.S	DA	2	N		C	
MONOTONIC/CMOS./FAST PRECISION AMP.S/LINKING UP.S	AD	9	N	N	C	
PHASE DIFFERENCE/OSCILLATORS/RSJ	AD	9	N		C	
LIGHT/COLOR/CAMERAS/REFLECTION SPECTROSCOPY	AD	4	N	N		
READING/DVM./ICE/BEAKER/DISPLAYED/PRESET	AD	1	N			
ABSOLUTE/2-TERMINAL/SENSORS/VOLTAGE	A	2	N		C	
ADDRESS & DATA LINES/ANTENNA DIRECTION/AZIMUTH	AD	9	Y	Y		
SPHERICAL/LIGHTNING/3HZ TO 4MHZ/WIDE-BAND/VHF.	AD	8	N	N	C	
2V/PRECISION VOLTAGE SOURCE/2-COLOR DUO-LED./RELAY	AD	2	N	N	C	
PHOTORECEPTOR/LINE-INTERSECT/AGRONOMIC RESEARCH	A	4	N	N		
RMS. AC. VOLTAGE MEASUREMENT/IA./BRIDGE AMP.	A	5	N	N		
FLOAT/ADC. INTERFACED/PC./ACCURACY OF +-0.01MM	A	2	N	N	C	
THERMOCOUPLE/COLD-JUNCTION COMPENSATION/TRANSDUCAD	AD	4	N	N		
COMMODORE 64/RESOLUTION BETTER THAN 10US/PORT	DA	9	N	Y	C	E/42
1000000 CONVERSIONS PER SECOND/VISCOSITY/MOTOR OIL	AD	9	N	Y	C	42
-55DEG C TO +150DEG C/VARIES INVERSELY/INTERVAL	DA	1	N	N	C	
SH./ANALOG SWITCH/RAM./IO. MAP/62.5KHZ	AD	2	N	N	C	
SINGLE-CHIP MICROCONTROLLERS/CPU./RETRIGGERABLE	DA	1	N	N		
COMPARATOR/4-20MA CURRENT LOOP/UP./ADC./DECODER	AD	2	N	N	C	4
VOLTAGE-SWITCHING MODE/FIFO./INTERFACING	AD	7	N		C	
LED.S/OSCILLATOR/DIVIDER/WAILING	D	2			C	
ABSOLUTE VALUE DEVICE/PERIODIC FUNCTION	A	3	N		C	
VOLTAGE/SMPS.	A	3	N			

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BCD. COUNTER/OSCILLATOR/LED.S/FND 357	D	1 N		
ANALOG SWITCH/NEGATIVE SUPPLY VOLTAGE/UP./UART.	DA	1 N	N	C
ALE/REPEATED RESET/OSCILLATOR/SCHMITT TRIGGER	D	1 N	N	
NUMBER/PULSE/CLOCK FREQUENCY/TIMING & CONTROL	D	1 N	N	C
TAPE-RECORDER FLUTTER/OA.S/WOOFER/TWEETER/AUDIO	A	2 N	N	C
JFET./VCA./STEREO/STYLUS/LED./ANALOG COMPUTATIONAL	A	6 N	N	C E
DECODER/LCD./OPTOCOUPERS/DIAC/UP-DOWN COUNTER	DA	2 N	N	C
VALVE/MASS FLOW CONTROLLER/CO\2 PRESSURE/STREAM	AD	5 N	N	C
ION/ACCELERATION/MCP./UV. LASER/TOFMS/REFLECTOR	AD	4 N	N	C
AUTOMATING LONG-TERM VOLTAGE MEASUREMENTS/HOLDS	AD	2 N	N	C
PRESET/CUMULATIVE/ENERGY/TANNING/SUNLIGHT/EXPOSUREAD		7 Y	N	
PATCH-CLAMP AMP.S/10-BIT DAC./PICOAMPERE RANGE	AD	6 N	N	C
CHOOSE ITEMS FOR PRINTING/BUZZER/COMMUNICATION	DA	9 N	Y	C
HIGH RESOLUTION/RATIOMETRIC DEMODULATION/ADC./VFC.	A	4 N	N	E
REVERBERATION/EFFECTS/BASS & TREBLE BOOST & CUT	A	7 Y	N	
8 CHANNELS CAN BE EASILY EXPANDED/MUX./INTERFACE	AD	2 N	N	C
CMOS. ADC./MONITOR/RATIO/FEEDBACK CCT/THRESHOLD	AD	2 N	N	C
VOLTAGE-SWITCHING/OA./REFERENCE-BUFFER/DEGLITCHER	DA	6 N	N	C
INTEGRATOR/COMPARATOR/TRANSFER-FUNCTION GENERATO A		1 N	N	C
HYSTERESIS/NONLINEAR SYSTEMS/OA.S/SEVERAL 100HZ	A	4 N	N	C
PSD./BRIDGE CCT/ELECTRODES/CONCENTRATION/BLOOD GAS A		5 N	N	C
5V PS./DACPORT/SWING/-127 TO +128V AT 120MA/OA.	AD	7 N	N	C E
BEAM/MAGNET-TUBE/ADC./COMPUTER/MAGNETIC FORCE	AD	3 N	N	
STIMULATOR/INTERFERENCE/60HZ/SWEEP/ZERO-CROSSING	AD	3 N	N	C
CAPACITOR/CHARGES/DISCHARGES/STABLE STATE	D	1 N	N	C 6
CMOS. 555 TIMER/FREQUENCY-TO-VOLTAGE CONVERTER	A	2 N	N	C E
OSCILLATOR/BILATERAL SWITCH/MUSICIAN	DA	2 Y		
DIGITAL/TIME-VARYING CURVES/COUNTER	AD	1 N		C
READ/WRITE/5.25- OR 8-IN./DMA./RECORDING	D	8 N		C
TRANSDUCER SHIELD/4-TO-20MA/GROUNDING	AD	8 N		C
SYSTEM III/DATA/WIND-VELOCITY/DISPLAY/INPUT PORT	D	1 N	N	C
GAIN OF 1000/HIGH COMMON-MODE VOLTAGES/CURRENT	AD	8 N	N	C
8085/UP./3 LINE TO 8 LINE DECODER/CPU./LATCH	D	2 N	N	
PHOTOMETRY/COMPUTER/ABSORBANCY MEASUREMENTS	AD	4 N	N	C
SUCCESSIVE-APPROXIMATION/DAS./REDUCTION/FF./RESET	DA	2 N	N	C
TRANSFORMER/DC./FOR USE WITH A FUNCTION GENERATOR	A	8 N	N	C
AMP.S/BRIDGE/STRAIN GAUGES/THERMOCOUPLES/SENSORS	A	7 N	N	C
HIGHER VOLTAGES/FET./CONDUCTING/DIODES/CLOCK-DRIVE	AD	2 N	N	C
FLAME & VAPOR CELL/OSCILLOSCOPE/PHOTODIODES/AA	A	6 N	N	C 12/42
LC. FILTER/SAMPLE-&-DELAY/FEEDBACK/NYQUIST PLOT	AD	8 N	N	C
VOLTAGE DROP/SUPPLY/WASTE OF POWER IS NEGLIGIBLE	A	1 N	N	C
TRIGGER/PHOTODIODE-OA./SLITS/MIRROR/EG&G RETICON	A	2 N	N	C
AIM-65/RELAY/CASSETTE/APPLE II/PROGRAM	DA	7 N	Y	C
DOTS/DASHES/SELF-LATCHING	D	3		C
SQUARE-WAVE OSCILLATOR/PLATE/VOLTAGE/DEMODULATOR	AD	4 N	N	C
BIFURCATION THRESHOLDS/PERIODIC-CHAOTIC SEQUENCE	A	5 N	N	C
4-TERMINAL/SIMULTANEOUSLY/SWITCHED ANALOG GATE	AD	2 N	N	C
MONITORING/CURRENT/PRECISION RESISTOR/BUBBLE	A	2 N	N	
AUDIO/PHILIPS DAC./CURRENT-TO-VOLTAGE CONVERSION	AD	4 N	N	C

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RGB./VIDEO/CRT./CHROMA & LUMINANCE/DEMODULATOR	A	4 N	N	C	
CD.S/MAGNAVOX/16-BIT PLAYER/CAPACITOR MOD.S/POOGE	AD	4 Y	N		
NOISE/NACL CRYSTALS/HEAT/SHOCK/STRESS/EMISSIONS	A	5 N	N	C	
FM. IF./INTERVAL/COUNTER/ZCD./SINE WAVE/COMPARATOR	AD	2 N	N	C	10
CMOS. PROGRAMMABLE-TIMER/COUNTER/CODES	D	2 N		C	
CLAP/BOMB BLAST/EXPLOSION/STEEL DRUMS	DA	3 N			
LASER/DAC./PHOTODIODES/FLOATING RETROREFLECTOR	AD	6 N	N	C	
ADC./NOISE-IMMUNITY/PROCESSING ANALOG	AD	8 N		C	
STEAM GENERATOR LEVEL/VOLTAGE REGULATOR	AD	1 N		C	
ANALOGUE MUX./BATTERY OPERATION/COUNTER-DIVIDER	DA	1 N	N	C	
HIVE/MOTION/SENSOR/QUADRATURE CYCLE/DECODER/LOGIC	DA	1 N	N	C	
"BACK PORCH"/MIXED/CMOS./ANALOG SWITCHES/RGB.	AD	1 N	N	C	
VOLTAGE/FET.-INPUT OA./8-BIT/NONLINEAR/BUFFERS	AD	1 N	N	C	
AD741/DESIGN	A	1 N	N	C	
BUFFERS/PC.S/LINE PRINTERS/SEND INFORMATION/\$10	D	2 N	N	C	
TRIGGERING CCT/H-B LOOP/RF./SATURATION/I-V/CURRENT	A	2 N	N	C	
DASCON-1/AUTOMATION/TRANSMITTANCE/DIGITIZING	D	2 N	N	C	
AGC./LIGHT MODULATION AT HF./HV./DC.-DC. CONVERTER	A	2 N	N	C	
8-TO-1 ANALOG MUX.S/RETRIGGERABLE/NONRETRIGGERABLE	DA	1 N	N	C	
OVERVOLTAGE & REVERSE PS. PROTECTION/CLAMPING CCT	A	4 N	N	C	
1-SHOTS/EXCLUSIVE-OR/GATE/LEADING & TRAILING EDGES	D	1 N	N	C	
VIDEO/REDUCES OUTPUT NOISE/STACKED-AMP./IMPEDANCE	A	1 N	N	C	
SENSOR/0-10MV AC. RMS. INPUT/-3DB BW. IS 33KHZ	A	1 N	N	C	
AGC./80C31/UP./SIGNAL-STRENGTH/COMMUNICATION/PC.	AD	7 N	N	C	28/42
230VAC./CLOCK/EDGE TRIGGERING/1KW MAX/ON-OFF	AD	1 N	N	C	
DAC./OPTOCOUPLER/LED./PHOTODIODES/REFERENCE/AMP.	AD	2 N	N	C	
IO. PORT/8-BIT COMPARATOR/3-TO-8-LINE DECODER/IBM	DA	9 Y	Y		
CMOS./BOOTSTRAPPED SOURCE-FOLLOWER/HIGH-IMPEDANCE	AD	8 N	N	C	
INTEGRATOR/PREAMP./GLASS FILTER/PULSE	A	8 N		C	
IMPLICIT ANALOG COMPUTATION/DENOMINATOR	A	7 N		C	
PICKING/STRING/MELLOW/PITCH/NOTES/PLL.	A	1 N		C	
		1		C	
PRECISION/HIGH-SPEED/SETTLING TIME/PRECISION	AD	6 N	N	C	
INTERRUPT PORT/FRAME PERIOD/PULSES/MCU/CODE/READER	D	4 N	N	C	
CURRENT-TO-VOLTAGE CONVERSION/LOW-OFFSET OA.	AD	2 N	N		
DC. OUTPUT/PERIODIC WAVEFORM/LF./ANALOGUE DIVIDER	AD	8 N	N	C	
7-SEGMENT/BINARY-ENCODED DECIMAL/INPUT	D	1 N	N	C	
HOWLAND CURRENT PUMP/OA./CARTRIDGE/HIGH CMRR.	A	9 N	N	C	
INTRUDER ALARM/RELAY/LOAD/2-TONE BELL/SWITCH	DA	1 N	N	C	
LIGHT/DIFFERENTIAL AMP./FILTER/VELOCIMETRY/RMS.	A	5 N	N	C	
VOLTAGE/UP./8-BIT ADC./LCD./TOTEM-POLE/IO./SENSORS	DA	6 N	N	C	E
PMT.S/DIODE ARRAY/FLUORESCENCE/DHEMILUMINESCENCE	DA	8 N	N	C	39
0 TO 15HZ/LED. READOUT/PHASE-SENSITIVE DEMODULATOR	AD	6 N	N		
THYRATRON/"CROWBAR" CCT/DISCHARGE/HEART/SINE WAVE	A	8 N	N	C	
ALWAYS TECHNOLOGY/AL-4000/CPU./0 TO 32MB/BMIC/BUS	D	3 N	N		
BUFFERS/CONTROLLER/FF./COMMUNICATION/DMA./I8237A5	DA	1 N	Y	C	AD
PERIOD DOUBLING & CHAOS/OA.S/ANALOG MULTIPLIER	A	5 N	N	C	
BACKGROUND LIGHT/LASER PULSE/100NS DELAY LINE	AD	6 N	N	C	
CPU./FEEDBACK/INCREMENTAL ENCODER/DECODER	DA	5 N		C	

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SCHMITT TRIGGER/DATA REDUCTION/ENGINE	D	5 N	C	
PIA./PORTS	DA	2 N	C	
CODING/DIFFERENCES/CODE/BCD.-TO-BINARY	D	1 N	C	
LATCHES/DIGITAL TEMPERATURE METER/TTL./TRS-80	DA	8 N	Y C	
CLOCK/LATCHES/ASYNCHRONOUS SERIAL TRANSMISSION	D	3 N	Y C	
SAMPLE CHAMBER/DELAY/MICROPHONE/TRANSDUCER	A	1 N	N C	
FLASH/ELECTRODE/POTENTIAL/CHARGE/1-SHOT/RC.	AD	3 N	N C	
DEMUX./1-SHOT/25US FOR A CONVERSION/MULTIPLICATION	DA	6 N	Y C	
COMMUNICATING/NTSC./VIDEO/IBM PC./ASCII./IO.	AD	5 N	N C	
IMAGE PROCESSING/"SILHOUETTE"/PHOTOTRANSISTORS	DA	5 N	N C	
DAC.S/TRANSDUCERS/TTL./RELAY/OPTO-ISOLATOR/TRIAC	AD	7 N	N C	
HAM II-CD44/CMOS./NAND GATES/MULTIVIBRATOR/LATCH	DA	3 N	N	
BAND GAP REFERENCE DIODES/PH METER/CHART RECORDER	A	2 N	N	
VERY SIMPLE/NOR GATES/RS FF./SENSING/ROBOTS	D	1 N	N	
DETERMINATION OF HIGH 2ND-ORDER RATE CONSTANTS	A	5 N	N C	34
DPDT. ANALOG SWITCH/ATTENUATOR/OUTPUT-BUFFER AMP.	A	2 N	N C	
ABOUT A QUARTER (9MA) OF THE 36MA COIL CURRENT	AD	1 N	N C	
BUS/TTL./CPU./UP./IO./ENABLE/OPTICAL INTERRUPTER	AD	6 N	Y C	39
PLL./SYNCHRONIZATION/RETRIGGERABLE 1-SHOTS/COUNTER	DA	2 N	N C	
PROGRAMMABLE OPTION SELECT/POS/INTERFACE/COMPUTERAD	AD	2 N	N C	
LOW-COST/CRYSTAL-CONTROLLED TIMER/RESISTANCE/METERDA	DA	6 N	N C	91
IEEE 488/GPIB./INTERFACE/PULSES OF WIDTH 5.2US	DA	4 N	N C	12
STROBE/NUMBER INPUT/0-255/0-2.55V/INTERNAL LATCH	AD	1 N	N C	
PROTECTION/OSCILLATOR/LOW-COST/LED./TRANSISTOR	AD	3 N	N	
HEART/AMP./LEADING EDGE DETECTOR/LPF./COUNTER/DAC.	DA	6 N	N C	28/AG
SENSORS, TRANSDUCERS & DETECTORS/JFET.-INPUT OA.	AD	7 N	N	
HEARING PROSTHESIS/SOUND/SPEECH COMMUNICATION/OA.SAD	AD	6 N	N C	
MEASURE TEMPERATURE/SENSOR/0 TO 700DEG C/9V NICD.	A	2 N	N C	
SPURIOUS-FREE DYNAMIC RANGE/QUANTIZATION NOISE	AD	5 N	N	
LOW LEVEL LIGHT DETECTION IN GEIGER MODE/SSC/CMOS.	AD	4 N	N C	
VCO./LPF./PHASE DETECTOR/DELAY	D	2 N		
PIA./PIO/DATA FORMAT/MC6809/AD7548/CMOS./68008 UP.	AD	3 N	N	
DITHER/AMP./EXOR/ADC./VISUAL/LOWERING/NOISE	AD	2 N	N	
LATCHES, REFERENCE/RANGE RESISTORS & KELVIN	AD	2 N	N	
OTA./PWM./DC./VOLTAGE AMP./BACK-EMF./COMMUTATION	A	3 N	N C	
CURRENT-CONSTANT VOLTAGE POTENTIOSTAT/OXYGEN/SOIL	DA	9 N	N C	E/42
FIFO. BUFFER/HOST/NEURONAL/ACQUISITION	D	9 N	C	
TV./COMPUTER MONTOR/FASTSWITCH TRANSISTOR	A	4 N	C	
TV./SCANNING/HIGH DEFINITION/BASE/TRANSFORMER	A	4 N	N	
NORMALIZE/TRANSFER FUNCTION/FACTOR	A	2 N	N C	
INTERFACE CCT/CURRENT DRIVER/LINEARITY/ACCURATE	A	6 N	N C	
ELECTROCHEMICAL CELL/FFT./10HZ-100KHZ/PHASE SHIFT	A	7 N	N C	
HIGH CMRR./150DB/KERR CELL/REMOTE MEASUREMENT/HV.S	A	9 N	N C	
ADSP2100/UP./DMACK/IO./ARITHMETIC/COORDINATES	AD	9 N	Y C	
MONOSTABLE MULTIVIBRATOR/SQUARE-WAVE/0.005HZ/1MHZ	D	1 N	N C	
CMOS./SAMPLE STIRRER/CUVETTE HOLDER/ENZYMES	DA	3 N	N C	
SENSITIVITY IS 10.5UV/30MW/METER/LPF.	A	1 N	N C	
UNIX/UP.S/COMPUTER/CPU./MMU/CODE CACHE/BIT-SLICE	D	9 N	N C	
LOGIC/RS FF./INHIBIT/ALGEBRAIC SUM/MEASUREMENT	D	1 N	N	

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PROGRAMMABLE EVENT GENERATOR/UHF./VARIABLE-MODULUAD	9 N N C
AUDIO/TAPE RECORDER/TRANSMITTER/RECEIVER/EIA.	A 4 N N
LAN.S/ISDN./HIGH-SPEED TELECOMMUNICATIONS/LED.	A 2 N N C
1-TO-99%	AD 2 N N C
	1 C
CAPACITIVE TRANSDUCER/SC-MP/NATIONAL/TEMPERATURE	AD 5 N N
COMPOSITE-VIDEO INPUT/COMPENSATION PULSE	AD 2 N N C
TRAIN/CHUFF-CHUFF/FET./WHITE NOISE	A 4 N
IMPEDANCE-MATCHED/PIN PHOTODIODE/GAAS. MESFET.	A 3 N N C
SIGNETICS/60DB/RC./LPF./UP TO 200MHZ/AUDIO/VIDEO	A 3 N N E
FIFO. BUFFER/TTL./IMS-3F-4F/DISCRIMINATOR/PULSES	A 2 N N C
LAMP/LEAD-ACID/PUSHBUTTON SWITCH/TEST	A 1 N
MAGNETIC/AUDIO/X CONTACT	AD 2 C
ELECTRODE/DISCHARGE/TRIGGER/GAP/PARABOLOID/SCR.	AD 8 N N C
MICROSWITCH/VARIED/UP TO 700US/SINGLE SHOT/TRIGGER	AD 2 N N C
PBC (PERIPHERAL BOARD CONTROLLER)/TELEPHONE LINES	AD 6 N N C
INVERTERS/VCO./HARMONICS/WAVEFORM/POWER/SINE-WAVE	DA 6 N N C
ADC0816/16-CHANNEL ANALOGUE INTERFACE/IEEE-488/IO.	D 3 N N C E
NMR./DECOUPLING/SPIN/QUADRATURE/SEQUEL	DA 9 N C
DROPOUT VOLTAGES/LV. DUAL-SUPPLY/LOAD/LINE/DRIFT	A 2 N N C
UNTRIMMED ACCURACY/TRIM/DRIFT/TRACKING ERROR	A 1 N N C
DIGITIZER/WIDEBAND/FLASH ADC./BRASS TUBE/AVALANCHE	AD 5 N N C
LINEARITY/HIGH RESOLUTION/GOOD TRANSIENT BEHAVIOR	A 4 N N C
POWER/RAW/RECTIFIERS/SULZER/JUNG/ERROR AMP./AUDIO	A 7 N N
PWM./ERROR AMP./SPEED-CONTROLLER	A 2 N C
S-100 BUS/AUTOBOOT/COMPUTER/REMOTE CONSOLE/ENABLE	DA 6 N Y
CMOS./32-BIT BIDIRECTIONAL BUS/CACHE/PERIPHERAL	D 1 N N C 10
MAR1/IF. AMP./AGC./LNA.S/FM./DC. TO 600MHZ/RF.	A 3 N N C
FLYBACK TRANSFORMER/TV./EMITTER NEEDLE/DIODE/DC.	A 7 Y N C
1UV TO >3V RMS./NAB/ECA PROGRAM/NOISE/CD. PLAYERS	A 8 N N
CURRENT-SENSING RESISTOR/OVERCURRENT	AD 2 N C E
MONOCHROME TV. CAMERAS/CMOS./NTSC./VIDEO	A 3 N C
RC. OSCILLATOR/BUFFERED/DARLINGTON CURRENT SWITCH	DA 1 N N
PTT/MICROPHONE/OSCILLATOR/COUNTER/ALARM/AF. AMP.	AD 3 N N
SUM-&-DIFFERENCE/SWITCH-MODE/1-SHOT/SG1524/SG1526	AD 1 N N C
PIN DIODE DETECTOR/PHOTODIODE/LED./NAND BUFFER	AD 1 N N C
ASTABLE MULTIVIBRATOR/TRIGGER SIGNAL	A 1 N C
BUFFERS/CURRENT-TRANSMITTER/REFERENCE/OUTPUT RATIC	A 2 N N C
ADJUSTABLE SET-POINT/CURRENT-MODE/RTD./REGULATORS	A 7 N N C
BIPOLAR/COMPOSITE VIDEO INPUT/HIGH-SPEED/SYNC	A 3 N N C
JFET.S/INDICATOR/ELECTRONIC FUSE/OSCILLATOR/SWITCH	A 3 N N
PULSE OF LIGHT/CAUSES THE BISTABLE TO CHANGE STATE	DA 3 N N C
TIMER	AD 2
MOTION-DETECTOR/COMPUTER-CONTROLLED/WIRE/MICROWA	AD 2 N N C
PULSER/SQUARE WAVE/VCO./TRIGGER/JITTER WIDTH/ERROR	DA 5 N N C
ROTOR/ENCODER/FEEDBACK/INDUCED VOLTAGE/VCO.	AD 1 N N C
AUDIO AMP./PS./COMMUNICATION/RSSI/AGC./RECEIVERS	A 3 N N
HV./LONG BATTERY LIFE/EYE-CATCHING WINDOW DISPLAYS	A 1 N N
VOLUME/OLD/AMATEUR/TUNING CAPACITORS/HAM	A 4 N N

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AUDIO/10K POT	A	1	N	N	C	
VESTIGIAL SIDEBAND/VSB/RF./MODULATOR/AMP./VIDEO	A	7	N	N		94
MONOSTABLE DRIVES TRANSISTOR/RELAY/MOTOR/CLOCK	AD	1	N	N		
DUAL TIMER/FF./SENSES ONLY A CHANGE IN STATUS	DA	6	Y	N		
OUTPUT/CURRENT MIRROR/BASE/GATE/RAMP/COMPARATOR	A	1	N	N	C	
GAIN-OF-100/BANDGAP REFERENCES/OUTPUTS SUMMED	A	1	N	N	C	
CONFIDENTIAL DOCUMENTS/TRIPPED/BLINK/OSCILLATOR	A	3	Y	N		
BURR-BROWN/NON-INVERTING OA./CURRENT MIRROR IC	A	1	N	N	C	
METERS PER SECOND/LIGHT BEAMS/PHOTOTRANSISTORS	AD	3	N	N	C	
QUARTZ ROD/CAR/MICROSCOPE/STEP SIZES/SPEED/GRAVITY	A	4	N	N	C	
AF.S/BACKGROUND/RANDOM NOISE GENERATION/VCF'S/OA.	AD	5	Y	N	C	
DIGITAL/ANALOG/RESISTANCE LADDER/DAC.	AD	9	N			
DEMODULATOR/RAM./EPROM./OUTPUT PORT/TIMER	DA	4	N			
SERVO/CONCENTRATION/ULTRASOUND/DROPLET	A	9	N		C	
SMITH CHART/TRANSMISSION LINE/MICROSTRIP/50OHM	A	6	N	N		
CRYSTAL/CERAMIC/PHASING FILTER/MIXERS/TTL./DRIVE	AD	8	N	N	C	
TRANSFORMER/SUBMINIATURE/500OHM, CENTER-TAPPED	A	1	N	N	C	
ALL-PASS/GUITAR/BASS/SYNTHESIZER/SOUND EFFECTS	A	7	N	N		
STABILISING/SHIFT/BLOOD/TRANSDUCER/RF. AMP./VCO.	AD	8	N	N	C	
FRONT-END/LNA.S/SOURCE RESISTANCE MATCHING/PHYSICS	A	6	N	N	C	
WAITS FOR A DIAL TONE/DATA MODEM/DETECTS/NUMBER	DA	1	N	N	C	
AUDIO SUBCARRIERS/TUNING DIODE/LIMITER/TV.	AD	7	Y		C	
RELAY/ANALOG INTEGRATOR/TEMPERATURE	A	9	N		C	
LNA./EARTH STATION/ANTENNA/TVRO. TERMINALS	AD	7	N		C	
MOTION DETECTORS/SECURITY/23KHZ/SENSE/COMPUTER	AD	3	N	N	C	
JEDEC/SCR./MOSFET./COUNTER/TIMER/DAC./OA.	AD	5	N	N	C	
AUDIO/DELAY/1MIN./SWITCH OFF/MOSFET./130UA	A	1	Y	N	C	
PROBES/MEASURE ELECTRIC FIELDS/CMRR. >1000:1/3KV	A	2	N	N	C	
FAST PIN DIODE PHOTODETECTOR/INDUCTOR/RFI. FILTER	A	2	N	N		
SAFETY HELMETS/STEREO AMP./DIFFERENTIAL AMP./OA.	AD	3	Y	N		
OA./TR. MODULE/PHASED ARRAY ANTENNAS/OPTICAL FIBER	A	4	N	N	C	
COMMUNICATIONS AT >170MBAUD/1KM LIMK/DISTORTION	DA	1	N	N	C	
ROOM TEMPERATURES TO CRYOGENIC TEMPERATURES/METAAD		2	N	N	C	
THD./IMD./<=0.002%/PHONO PREAMP.S/AUDIO/CARTRIDGE	A	4	N	N		
THERMOSTAT/TIMER/RELAY/HEATING/ATOMIZER/MATRIX	A	5	N	N	C	
REFERENCE PERIOD/OUTPUT PULSES/NEON GLOW LAMP/DCR	A	9	N	N	C	12
DETUNED/FERRITES/NOT SUITABLE FOR 'COIN DIGGING'	A	2	Y	N		
2.2DB/INCREASED GAIN/IMPEDANCE/RECEPTION	A	6	N		C	
AMP./VOLTAGE COMPARATOR/MONOSTABLE/LINE DRIVER	DA	2	N	N	C	
SHARED/IMPULSE NOISE/VARYING IMPEDANCE	AD	6	N		C	
CRYOSTAT/SUSCEPTIBILITY	A	4	N		C	
IA./ADC./NOISE/INTEGRATOR	A	1	N	N	C	
PCB. LAYOUT/IBM PC. AT-XT/CAENIC/COMPONENT VALUES	A	5	Y	N	C	
4 INTEGRATORS/LOWER IMD.	A	4	N	N	C	E
HT./STORAGE-OSCILLOSCOPE/BBC COMPUTER	AD	6	N		C	42
STIMULATION/CELL CULTURE/AEQUORIN	AD	9	N		C	E
VERTICAL AMP./FALSE SUMMING NODE/FET. BUFFER	A	2	N	N	C	
LOW-NOISE/DETECTION PROBE/VDU. SCREEN/CAMERA/CBF	A	4	N	N	C	
GUARDING/RC. NETWORK/BW./FREQUENCY/VOLTAGE	A	2	N	N		

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LOW-NOISE/GAIN-SETTING RESISTOR/MINIMIZE/RECORDING	A	9	N	N	C	42
CLAMPING/ZENER DIODE/SERIAL OUTPUT (SO)/PROCESSOR	AD	1	N	N	C	
JFET. OA./ASTABLE MULTIVIBRATOR/CROSSING SIGNAL	A	4	Y	N		
RF./TRANSMISSION LINES/ANTENNA/VOLTAGES/TEST	A	3	N	N		
TUNED TO 25HZ/PHOTOCURRENT/ELECTRODE	A	9	N		C	42
SPECTRA/APPLE IIE/SIGNAL CONDITIONER/HANDSHAKING	A	8	N	Y	C	E/42
SOFTWARE/CCT SIMULATION/SPICE/IMAGE/ATE./TERADYNE	A	4	N	N		93
SH. AMP./BUFFER/DSP./ANALOG SCALING/PC.	AD	9	N	N		
FIBER-OPTIC CABLE/INEXPENSIVE		2			C	
TRANSMITTANCE/REFLECTANCE SPECTRUM/CDS/ABSORPTIONA		4	N	N	C	
NF./SNR./COAX CABLE/CHOKES/INDUCTOR/OPEN DIPOLE	A	1	Y	N		
FET.	A	3	N		C	
EXTRA OCTAVE OF CLEAN BASS		5				
HIGHPASS/EASY-TO-USE/HEAT PUMP/COOLER/SEEBECK	AD	8	N	N		
MODULATOR/DEMODULATOR/RS-232-C OR TTL.-COMPATIBLE	AD	7	Y	N		
PHOTOFLOOD BULBS/LDR.	A	2	N	N		
MOSFET. ANALOGUE SWITCHING/MONOSTABLE/PRESSURE	AD	4	N	N	C	
LPF./COMPARATOR/IBM PC./MICROCOMPUTER/FFT./DIVIDER	AD	5	N	N	C	
RECEPTION/RECEIVER/HIGH-END RESPONSE/TRANSISTORS	A	4	Y	N	C	
OA./GEOMETRICAL LADDER NETWORK/FEEDBACK/FOLLOWER	A	8	N	N	C	
WHITE-LIGHT INTERFERENCE MICROSCOPE/FRINGES/OPTICS	A	6	N	N	C	
PASSIVE FILTER/DISCRIMINATOR/TDC./SPECTROMETER/MRS	A	8	N	N	C	E
APPLE COMPUTER/BACKGROUND NOISE/MEASUREMENTS/DATA		3	N	N	C	
NEGATIVE FEEDBACK/TRANSMISSION LINE TRANSFORMERS	A	4	N	N		
COMPARATOR/WHITE NOISE/LED./AMP.	A	4	N		C	
RAMP BACK & FORTH BETWEEN/2 INPUT VOLTAGES/LATCH	A	1	N	N	C	
MASKING/SLEW-RATE DISTORTION/UNDERSHOOTS/RINGING	AD	2	N	N	C	
INPUT BUFFER/TRANSMISSION GATES/TRANSCONDUCTANCE	AD	1	N	N		E
BUFFERS/DIP. SWITCHES/POTENTIOMETER/SYNC OUTPUT	AD	1	N	N	C	
MULTIPLIER/VARIABLE-GAIN ATTENUATORS/ACTIVE FILTER	A	1	N	N	C	
BRIDGE MEASUREMENTS OF IONIC CONDUCTIVITY/AC./BULB	A	1	N	N	C	
OPTICALLY COUPLED FET./250MW/80HM/LOW DISTORTION	AD	5	N	N		
DELAY TIME/PULSE/LF. PHYSIOLOGICAL DATA/SAMPLING	AD	1	N	N	C	
DIVIDER/HIGH ACCURACY (0.5%)/RATIO/DENOMINATOR	AD	4	N	N	C	
HAM RADIO/TV. SETS/2M/GAIN OF 21.5DB/LOW NOISE	A	1	N	N		35
PULSED/SIGNAL GENERATION/VISIBLE & UV./RECORDER	AD	8	N	N	C	
ANALOG INPUT VOLTAGE/PULSE TRAIN/LASER-TRIMMED	AD	1	N	N	C	
CLOCK/HIGH-SPEED INTEGRATOR AMP.	AD	7	N		C	
TOLERANCE/LED. READOUTS/REFERENCE/SAMPLE	A	3	N		C	42
UNMOD./PIPETTE/BRIDGE/CAPACITANCES/LOOSE-SEAL	A	9	N	N	C	42
780NM/PHOTON COUNTING/AUTOCORRELATION/LED.S	A	4	N	N	C	
P-I-N DIODE/NOISE	A	1	N	N	C	
2 VARICAPS/GATE-SOURCE VOLTAGE/BIASING/RF./RADIO	A	1	N	N		
COUNTER/FREQUENCY PROPORTIONAL TO INPUT VOLTAGE	A	1	N	N		
APPLE II PLUS/TV. MONITOR/VTR./MICROSCOPE	AD	5	N		C	
PHASE/CURRENT-TO-VOLTAGE CONVERTER/DIODES TO LIMIT	A	3	N	N	C	
HIGH Q/PROXIMITY ALARM/HOLD/DIODE/CLAMPS/FEEDBACK	AD	2	N	N	C	
PHASE RESPONSE/TRANSFER FUNCTION/OA./COMPENSATING	AD	2	N	N	C	
MULTIUNIT SIGNAL/UPDATE/WINDOW COMPARATORS/SAMPLES	DA	7	N	N	C	

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200KHZ/ANTENNA/EMISSIONS/TANK CCT/SHORT DISTANCE	A	4	Y	N	C	
RING/EXPOSURES/TRANSDUCERS/AMP./FILTER/MICROPHONE	DA	2	N	N	C	26
SCHMITT TRIGGER/SENSOR/LINEAR POTENTIOMETER	AD	4	N	N	C	
QUADRANT/RESISTANCE/CURRENT-VOLTAGE/CHUA/DIODES	A	9	N	N	C	
FET./OA.S/DVM./BUFFER-INVERTER/MOTOR CONTROL	AD	6	N	N	C	25
WIEN/SELF-BALANCING CAPACITANCE BRIDGE/OSCILLATOR	A	5	N	N	C	
BROMIDE/PRINTING PAPER/BLACK & WHITE	A	4	N		C	
SMALL INPUT-CURRENT-SIGNAL/PHOTODIODE/DIFFERENTIAL	A	1	N	N	C	
1TOHM/LOW-COST/HIGH INPUT-RESISTANCE/SENSITIVITY	A	1	N	N	C	
PULSES/TRANSDUCER/LIQUID/SOLID/GAS CONSUMPTION	DA	2	N	N	C	
VERY LOW INTERMODULATION/POWER GAIN/MEASUREMENT	A	4	N	N	C	
10-TURN POTENTIOMETER/BASE SOLUTION/ACID/BUFFER	AD	2	N	N	C	
SOLVENTS/MEASURED LIGHT TRANSMISSION/COLOUR/PAPER	A	6	N	N	C	
BUTTERWORTH/HIGH Q/4TH ORDER/ADJUSTABLE/TUNABLE	A	2	N	N	C	
POTENTIOMETER/ANTENNA/MOD.S/FET.-INPUT OA./RELAY	A	5	N	N		
PHOTODIODES/<US\$50/LIGHT/LASER DIODE/SONY/AMP.	A	5	N	N	C	
REED-RELAY/MTS SERVOCONTROLLED MACHINE	A	3	N		C	
TAPE/STORAGE/STRESS/WOW/FLUTTER/AMPLIFY	AD	1	N		C	
WIEN BRIDGE/SWITCHED-GAIN AMP.	AD	3	N	N	C	
TTL. OR CMOS. INPUT/HV.S/CHARGED CAPACITOR/TARGET	AD	1	N	N	C	
VERY LOW INPUT BIAS CURRENT/DVM./LIGHT/FLUX/FILTER	AD	4	N	N	C	
COUNTER-PRINTER/MOTOR/MONOSTABLE/ICE CAPS/SNOW	DA	8	N	N	C	61
CONDUCTANCE/0.05%/PRECISION/STABILITY	AD	3	N		C	
ULTRASOUND SCANNERS/ON-RESISTANCE/LV./LEAKAGE	AD	3	N	N		
REFERENCE/SPDT./TTL.-COMPATIBLE DRIVER/NOISE	AD	4	N	N	C	
60-200MHZ/DMOS. SWITCHING FET.S/MATRIX/8085	AD	4	N	N		E
3RD ORDER INTERCEPT/2-TONE INTERMODULATION TEST	AD	3	N	N		E
SWITCHING THRESHOLD/WITHIN THE RANGE OF 3.5 TO 5V	DA	2	N	N	C	
HAND-HELD/DIFFERENTIAL AMP./NOTE/LOUDSPEAKER/FLUX	A	1	N	N	C	
ALTERNATE-MODE & CHOPPED-MODE/TIMER/OA.S/COUNTER	AD	1	N	N	C	
ATTENUATOR/BUFFER/DAS./ADC./OFFSETS/ZERO SETTING	AD	4	N	N	C	
TTL. COMPATIBILITY/BLOCKING DIODES/CLAMPING DIODE	DA	1	N	N	C	
FET. SWITCHES/OVERSHOOT/VOLTAGE SPIKES/OPEN LOOP	AD	1	N	N	C	
DMA./UP.S/BIOS./PS-2/30/INTERRUPT CONTROLLER/NMI.	AD	7	N	N	C	
PULSES/TRIGGER/CLOCKED/ERROR/RESTART/PROTECTION	AD	1	N	N	C	
GATE RESISTOR/GATE VOLTAGE/SHORT-CCT/COLLECTOR	A	1	N	N	C	
OVER RIDE/DIODES/SENSE AMP./DUTY CYCLE	AD	1	N	N		
FIBER-OPTIC REPEATER-RECEIVER/DC.-COUPLED/AGC.	A	5	N	N	C	
SHAFT/SQUARE WAVE/ROTATED/2 PORTS/ANATOMY/BUS	D	9	N	Y	C	25
IR. DIODES/LED./RC/STEPPER MOTOR/POTS/MUSIC/STEREO	AD	7	Y	N		
AC. LINE-FAULT COMPARATOR/OVER & UNDERVOLTAGES	AD	7	N	N	C	
ON-CHANNEL RESISTANCE/PHOTOCOUPLER	AD	1	N		C	
COAXIAL CABLE/OSCILLOSCOPE/INTERFEROMETER/PIN-TYPE	A	4	N	N	C	12
SALLEN-KEY FILTERS/OVERSAMPLED STAIRCASE/HARMONICS	AD	2	N	N	C	
BUS DRIVERS/VSB/CPU./FPCP/DUSCC/280-PIN/MULTIBUS	D	5	N	N	C	
REPEATERS/SIGNAL PROCESSING/CLOCK/RZ/NRZ./3-PORT	A	2	N	N	C	
TEST SET/SIGNAL GENERATORS/MULTIPATH FEEDBACK	A	5	N	N	C	
OVERLOAD/DISCONNECTS THE LOAD/BODY-DRAIN DIODE	AD	2	N	N	C	E
T\RI S 32NS, & T\F EQUALS 1.4US/TTL./CAPACITANCE	AD	1	N	N	C	

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COMPARATORS/PULSE-AMPLITUDE/MARK/SPACE	D	3 N	C	
CHANNEL SELECTOR/TRANSMIT SERIALY/BATTERY POWERED	AD	4 N	N C	
FEEDBACK/INPUT/OUTPUT/TO SIMPLIFY ITS USE	A	1 N	N C	
PHOTODIODE/AMPLIFY/TRANSMITTER/RECEIVER	DA	9 N	C	
DICHROMETER/COMPUTER/LOCK-IN AMP./ADC./DAC./OA.	AD	7 N	N C	E/25
NEGATIVE CAPACITANCE/MICROELECTRODE/INJECTION	A	3 N	N C	
RMS. DETECTOR/SH./COMPARATOR	AD	3 N	C	
IO. PORTS/INTEL 8085/FEEDBACK/VARIABLE-GAIN AMP.	AD	7 N	N C	
CURRENT-TO-VOLTAGE CONVERTER/APD. DETECTORS	A	2 N	N C	
PHASE ERRORS/SOFTWARE CONTROLLABLE/ADC./MUX./DAC.S	DA	5 N	N C	E
TENFOLD/HF.S/SPEED/BOOST/30MHZ FREQUENCY RESPONSE	A	2 N	N C	
BW. OF 7MHZ/GATING GRID PULSE CCT/DIGITIZER	A	5 N	N C	
LPF./DETECTION/EEDF/IONIZATION WAVE PACKETS	A	7 N	N	
MOTOR DRIVER CCT/COMPUTER/SIMULATION/THROTTLE	AD	5 N	N C	
APERTURE TIME/DROOP/LF198/HA5320/SMP10/SMP11/AD585	AD	9 N	N C	
TRACK-&-HOLD AMP./CLIPPER/DIFFERENTIATOR/WAVEFORM	AD	1 N	N C	
AUDIO/HI-FI/TONE/SWITCHING/HF. ROFF-OFF/BASS BOOST	A	9 Y	N	
HIGH INPUT RESISTANCE/FET. OA.S/GAIN CONTROL/CELL	A	4 N	N C	
ELECTRODE IMPEDANCE IMBALANCES/GAIN TO 400/FET.	A	2 N	N C	
RF./LED./SRA/PHASE MODULATOR/HIGH-SPEED/70MHZ/NMR.	A	5 N	N C	
ADC./PHOTODIODE-PHOTOMULTIPLIER/SH./OA.	DA	5 N	N C	39
SENSOR/CONCENTRATION/IN VIVO/BLOOD/POLAROGRAPHIC	A	4 N	N C	
HIGH CURRENT OA./CURRENT DIRECTION MONITOR/LIMITER	AD	7 N	N C	25
PLATINUM THERMOMETER/NULL-DETECTOR	A	2 N	C	
SAMPLING RATE/SH. AMP.	AD	6 N	C	
HARRIS/15 200000-COUNT CONVERSIONS PER SECOND/\$15	DA	3 N	N C	10
NEEDLE/PHOTOTRANSISTOR/TORQUE/COIL/BRIDGE/NULL	A	2 N	N C	
SCHMITT TRIGGER/8085/REAT TIME CLOCK/MONITORING	DA	6 N	Y C	
COMPUTER/OPTO-TRIAC/OPTO-TRANSISTOR/OPTO-ISOLATOR	AD	6 N	N C	
APPLE II MICROCOMPUTER/UP.S/GC. ELECTROMETER	AD	5 N	N	26
REFERENCE/2.44UA TO 10MA IN 4096 STEPS/OA.S	A	7 N	N C	57
MOSFET. DRIVERS/HIGH MOTOR SPEED/PHASE/CHOPPING	AD	1 N	N C	
VOLTAGE DROP/1.8V LOWER THAN INPUT/INPUT UP TO 50V	A	1 N	N C	
LAMPS/MULTI-PATTERN EFFECTS/SOFTWARE/SEQUENCES	DA	4 N	Y	
PULSE STRETCHER/CONTACT/SSR./TTL./EMI./RFI./IO.	DA	5 N	N C	E
PC. OR MICROCONTROLLER/UP TO 64 CHARACTERS/ASCII.	D	8 Y	Y	
MICROSCOPY/PHOTODIODE/BRIDGE/WET	A	4	C	
<\$25/SUBSCRIBER LINE/TIP/RING/OFF-HOOK/SIMPLE	A	4 Y	N C	
LED./VOLTAGE/DRIVE/CALL SIGNAL/TRANSISTOR/ZENER	A	1 N	N	
DETECTOR/LIGHT/306-061/H21A1/FILTER/TRANSMISSION	A	3 N	Y C	
IF. COIL/ANTENNA/RF./RECEIVER/ELECTRIC FIELD/DIODE	A	3 N	N C	
UV. TO BEYOND 1UM/HIGH SPEED/SENSITIVITY	A	2 N	N C	
UP./OUTPUT PORT/INDICATOR LED.S/WRITING/READING	DA	9 N	N C	
RECHARGEABLE/MOD./CELLS/POWER TRANSISTORS/HEATSINKA	2 Y	N		37
VBCO RATING OF 70V/OUTPUT/CURRENT/LOAD	A	1 N	N C	E
SOURCE/ISOLATED/IMPROVES/SWITCHING SPEEDS/IGBT.S	A	2 N	N C	
OPTOISOLATORS/33ASR TERMINAL/CURRENT	DA	1 N	C	
POLARITY/CLEANS UP/LITTLE CCT/NO SIMPLER SOLUTION	AD	1 N	N C	
HYBRIDIZED CHARGE AMP./PULSES/TTL./CAMAC/DAC./ADC.	AD	4 N	N C	61

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VALVES/THERMOSTAT/RTC-IO./PIPES/LCD./DATA/BOILER	AD	8	N	Y	
FURNACE/GFAAS/PS./STEPPER MOTOR/TIMER-COUNTER	AD	8	N	N	C
CW./MOD./PLL. ADJUSTMENT/SIDETONE	A	2			
EEROM./LED.S/RAM./PCI DISPLAYS/PCIM-161A/ALERTER	AD	7	N	N	
TURN-ON TIME/"MILLER" CAPACITANCE/SUPPLY/NOISE	A	1	N	N	C
COMPUTER DATA ACQUISITION/BUBBLE	AD	6			C
READING SWITCH CLOSURES/MODELS I/III	A	9	N		C
PHOTOTRANSISTOR/LIGHT PEN/LED./PORTS/SENSOR/OS.	AD	4	N	Y	
TRANSCEIVER/BASIC ROUTINE/RADIO/TTL./RS-232C/BCD.	D	4	N	Y	
OPTICAL ISOLATOR/NPN TRANSISTOR/LIGHT/PHOTO-FET.	AD	3	N	N	
METAL OUTPUT SPHERE/TRANSMIT ELECTRICAL ENERGY	A	6	N	N	C
TRIANGLE-WAVE AMPLITUDE/POWER MOSFET.S/DEAD BAND	A	1	N	N	C
LATCHES THE CHANNEL NUMBER/HYSTERESIS/600KHZ CLOCK	AD	1	N	N	C
SCR./OPTO-COUPLER/ISOLATION DIODE/TRIAC	AD	5			
RIMS IONS/NBS. STANDARD/MEASUREMENT/VARIABLE TIMER	A	3	N	N	C
PS./FLOPPY-DISK DRIVES/HF. BYPASS/CERAMIC	A	1	N	N	C
OSCILLOSCOPE/SHG/WIDE-RANGE/CW./ND:YAG LASER	AD	4	N	N	C
SPUTTER ION PUMP (SIP)/DIFFUSION PUMP (DP)/ARL	A	3	N	N	C E
PS. REGULATOR/BETA/OSCILLATORY/INSTABILITY/AUDIO	A	1	N	N	
COMPUTER PROGRAMMERS/FLOWCHART/SYMBOLS/AUDIO	A	3	N	N	C 4
SOLENOID DRIVERS/VALVE/SOLUTION PH	A	2	N		C
TRANSISTOR/DETERMINED BY THE VALUE OF THE RESISTOR	A	1	N	N	C
COCO/RADIO SHACK COLOR COMPUTER/RTTY. KEYBOARDS	A	1	N	N	C E/94
LINEAR/POWER/SPEAKER/RESISTANCE/SOUND/GROUND-LOOP	A	3	N	N	
60MA/LINE PRINTER/ASCII./OPTOISOLATOR	AD	3			
BUFFERED/MEMORY ARRAY/MUX./BANK	D	6	N		C
RS-232-C/TTL. LATCH/68000 UP.	DA	6	N		C
PS./PARALLEL/SERIES/PULSE-SHAPING/SEMIKRON DIODES	A	3	N	N	C 61
PHONE CALL/DTMF./CMOS./CCITT./PULSE DIALING	AD	7	N	N	C
NOTE/TTL. DATA SELECTOR/CHROMATIC SCALE/CODE	DA	5	N	N	C
PULSE GENERATOR/DC. PS./800V/LASER/INTERFEROMETER	A	5	N	N	C 39
UP./RATE-BUFFERED DATA TRANSFERS/STD BUS/FLAGS	D	7	N	N	C
VHF.-UHF./FM./LF.-MF-HF. AM./CMOS./IF. FILTER	A	2	N	N	4
LIGHT SOURCE/TRIGGERED SPARK GAP/TIME DELAY CCT	A	3	N	N	C
ADD-ON/SCR./LED./PLASTIC/BOX	A	3			C 42
DON'T MISS THE ACTION WHILE YOU'RE AWAY/RIG/AUDIO	A	1	N	N	C
MAGNETRON/PULSE FORMING/PEAK PULSE/30KV/50-200HZ	A	6	N	N	C 61
DRIVER/400MHZ BW./ADC.S	A	1	N		C
TEMPERATURE-SENSITIVE CURRENT-LIMITING/PROTECTION	A	2	N	N	C 10
AC. AMP./DC. AMP./DVM./0.001 TO 1.999OHM/RESISTOR	A	1	N	N	
CW. LASER/COHERENT ANTI-STOKES/CARS/FLUORESCENCE	A	4	N	N	C
3RD OVERTONE/CURRENT SOURCE/TRANSISTOR/PAGING	A	1	N	N	C
DRIVES 75OHM/GAIN/HOLD PULSE OF ONLY 2US/NTSC.	A	1	N	N	C 8
FAULT-DETECTION/LED./ALARM RELAY/COMPARATOR/COUNT	A	1	N	N	C
TW523/TRANSMISSIONS/COMMUNICATION/60HZ/COMPUTER	DA	6	N	Y	
PLESSEY/INPUT-IMPEDANCE MATCHING NETWORK/50OHM	A	1	N	N	C
MICROCOMPUTER/POWER-ON-RESET/PS. MONITORING/SENSE	AD	4	N	N	C
120DEG/VOLTAGES/IMBALANCES/LOADS	A	1	N		C
3MHZ/IMPEDANCES/NIC.S/GYRATORS/ROTATORS/FDNC	A	9	N	N	C

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MEMORY/CONTENTION INTERRUPT LOGIC/DECODER DRIVER	D	1 N	N	C	
STIMULUS/INPUT BUFFER/FILTERING/SH.	AD	2 N	N	C	
OBVIOUS ON AN OSCILLOSCOPE SCREEN/INDICATE/OA.S	A	1 N	N	C	
AGAINST LONG TERM DRIFTS/TEMPERATURE/COUNT RATE	AD	6 N	N	C	61
COMPARATOR/TIMERS/OA.S/DUAL FET.S/MOTOR/CMOS.	AD	4 N	N	C	
ELECTROCHEMISTRY IN NONAQUEOUS SOLVENTS/MOD.	A	1 N	N	C	
PS./OA.S/SUMMING AMP./FULL WAVE RECTIFIER	A	9 N	N		42
RESET PULSES/COMPARATOR/HYSTERESIS/DC. OFFSETS	A	1 N	N	C	
WIDEBAND IC/WIDE BW./ANALOG SIGNAL PROCESSING	A	4 N	N	C	
T-NETWORK/INDUCTORS/PHASE/VARACTOR/RESISTANCE	A	5 N	Y	C	
33.9KHZ/BUFFER/NOTCH SIZE IS ~24DB/CAPACITORS	A	1 N	N	C	
FAST COMPARATOR/AEROSOL GENERATOR/MDR'S/LIQUID	A	6 N	N	C	
POTENTIOMETER/CLOCK PULSES/PROGRAM	AD	1 N	Y		
CMRR./SYNCHRONIZING/COUNTER-TIMERS/MUX./REJECTION	DA	2 N	N	C	
TWIN T-NOTCH FILTER/CUT-OFF/60HZ/REJECTION/OA.S	A	1 N	N		
INTERLEAVING OF POLES & ZEROS/NESTING OF STAGES	A	1 N	N	C	
EFFECTIVE INPUT NOISE RESISTANCE/MOVING COIL/DISCS	A	6 N	N	C	
RESISTANCE/LINEARIZE/PROGRAM/THERMOSTATS	A	3 N			
FIBER-OPTIC PROBE/FLUID/INTRINSIC/+-.0.001S/TIMING	AD	5 N	N	C	
28-PIN/2764/27128/INTERFACE/DATA BUS/OUTPUT PORT	DA	1 N	N	C	
INEXPENSIVE/<\$15/1NA CURRENT PRODUCES A 1MV OUTPUT	A	1 N	N	C	
SPURIOUS SWITCHING/TRIPPING/INSPIRATION/EXPIRATION	A	4 N	N	C	E/28
SONAR/PIT./PIC./PENDULUM/INTERRUPT SERVICE ROUTINE	DA	5 N	N	C	
PS./'PLOPS' ON SWITCH-ON/DISCONNECTED/DIVIDER	A	1 N	N		
PHASE MODULATION/DETECTOR/FILTER/AMP./INTEGRATOR	A	2 N	N	C	
LEVEL/LOWER/HIGHER/RELAY/FREE-WHEELING DIODE	A	1 N	N		
OA./LM339 COMPARATOR/LINE/PULL-UP	AD	2 N			
IO. PORTS/MANIPULATE, & DISPLAY/DATA/AUDIO AMP.	AD	5 Y	N		
COMPLEMENTARY OUTPUT/100M TWISTED PAIR	DA	1 N	N	C	
DSP. UP./ADC./LOG AMP.S/RMS.-TO-DC. CONVERTERS	AD	9 N	N	C	
MANY-EYED MODULAR/LOW-COST/LIGHT		9			
SYNCHRONOUS SWITCH/PREAMP./BUFFER/PENDULUM/PERIODAD		6 Y	N		
1750M/TV. HORIZONTAL OSCILLATORS/LIGHT DIMMERS	A	3 Y	N	C	
BANDPASS/NOTCH/BANDSTOP/1H/HIGH- & LOW-PASS	A	5 N	N	C	
NUCLEAR/SCATTERING/BEAM/PC./PHOTOMULTIPLIER	A	5 N	N	C	
SUPPLY VOLTAGE/MONITORING/LAPSE/DISCHARGE	D	2 N	N	C	
50HZ-1KHZ/ADC./RESONANCE/SOUND PEAKS/COMPUTER	A	3 N	N	C	
MICROCOMPUTER/IBM PC./BASIC/PASCAL/TRS80 MODEL 100	AD	4 N	Y	C	
16-ELECTRODE/HIGH INPUT IMPEDANCEEEG./POLYGRAPH	A	9 N	N	C	
CONTROL & PROTECTION/RAM./CPU./DEBUG/MAPPING/PC.	D	3 N	N		8
GAIN STAGES/PS.S/CASCODE/SPEAKER PROTECTION/TEST	A	6 N	N	C	
CURRENT/CHARGES/TIMING CAPACITORS/LED./PHOTODIODE	AD	1 N	N	C	
OSCILLOSCOPE/CRYSTALS/IR. LED.	A	4 N		C	42
FEEDBACK/GAIN-PHASE METER/PSRR/TEST CCTS/INPUT	A	7 N	N	C	
SOC/ZENER DIODES/75A/CURRENT/VOLTAGE/MONITORING	A	2 N	N		E
LEAD INDUCTANCE/EMITTER FOLLOWERS/OSCILLATIONS	A	8 N	N	C	
MULTIPLIER/ADC./DAC./COMPUTER/HEATED/REGULATOR	A	3 N	N	C	
TIMER/DATA COLLECTION/EMG./SPIKE ACTIVITY/DAC.	A	5 N	N	C	
LPF./HIGH-PASS/HYSTERESIS SWITCH/1S HOLD/HF. RADAR	AD	5 Y	N	C	

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SHAPING/LIGHT YIELD/CALORIMETER/COMPTON SCATTERING	A	5	N	N	C	5
IMPEDANCE PNEUMOGRAPH CCT/PHASE-SHIFT OSCILLATOR	A	3	N	N		25
OA./2 CAPACITORS/NEGATIVE FEEDBACK	A	7	N		C	
ASCII./IEEE-488 TRANSLATOR/DAC./RELAY/SWITCH	A	4	N	N	C	
TEST/BUFFERS/TTL. LINE DRIVERS/SYNCHRONIZING/TV.	DA	8	N	C	C	
CASCADED/TRANSFER FUNCTION/PHASE/PROGRAMMABLE	A	3	N	N	C	
COMMUNICATION/REGISTER FILES/FREQUENCY	D	1	N			
PHASE/MONOSTABLE MULTIVIBRATOR/BESSEL/LOW-PASS	AD	6	Y	N		
0.5% THD./CLOCK/GATING PULSE/8 BITS/3.579545MHZ	DA	1	N	N	C	
MULTICHANNEL FAST SCANNING/ABSORPTION/REFLECTION	AD	5	N	N	C	
COMPUTER/V TO I CONVERTER/10MHZ	AD	5	N		C	
RESET GENERATOR/RC./POWER UP/UNDEFINED/BELOW 2V	AD	1	N	N	C	
SPURIOUS NOISE/IMPULSES/CLIPPING/SIGNAL/LATCH/GAIN	A	1	N	N	C	
FREQUENCIES/DEEP/SHARPNESS/BIQUADRATIC FILTER	A	1	N	N		
HM6264/0.1 TO 1.0F/SUPER C/NEC/GOLD C/NATIONAL	A	2	N	N	C	
BUTTERFLY/TRIGGERED/DFT./REAL-TIME/ARRAY PROCESSOR	D	8	N	N	C	
RF./AUDIO/AGC./IF./INTERFERENCE/NOISE-SILENCER	AD	1	N	N	C	
BUS/COMPUTERS/DATA-TRANSFER RATES/FAST/REGULATOR	AD	3	N	N	C	10
AUDIO/RELAY/TC./REFERENCE/OFFSET DETECTORS/FET.S	A	4	N	N		
ACTUATES FILL & DRAIN SOLENOID VALVES/WEIGHT/FC-80	AD	8	N	N	C	
BALANCED/UNBALANCED OUTPUT/SOUND/MUSICAL	A	4	Y			
GLITCH/LV. CONDITION/FAILURE/EXTERNAL/DETECTION	AD	2	N	N	C	
DRAIN/COMPARATOR/PROGRAMMABLE LINEAR DEVICE	A	1	N	N	C	
TAP/NTSC./DRIVER/TRANSMITTERS/CABLE/MUX./NETWORK	A	3	N	N	C	
COMPARATOR/OA./EXCLUSIVE NOR GATE/RADIATION/METER	AD	4	N	N	C	
BUFFER/SAWTOOTH WAVEFORM/MULTIMETER/CURRENT SQUA		2	N	N	C	
AGC./CERAMIC FILTER/SSB./DBM./DETECTION IS LINEAR	A	2	N	N	C	
COMPARATOR/FF./3-TERMINAL/RESISTANCE/ZENER/LED.	AD	1	N	N	C	
PHASE/CANCEL/RADIO/MIXER/HF.	A	1	N			
32 CHANNEL, 12 BIT CAMAC/ADC./PARTICLE DETECTORS	A	8	N	N	C	
DAMPING/PREIONIZATION/DENSITY/TEMPERATURE/HYDROGENA		4	N	N	C	39
BUS REVERSAL/CAPACITORS/CLAMP/RADIATION DOSIMETRY	AD	2	N	N	C	
SINGLE CAPACITOR/OA.S	A	5	N		C	
AMPLITUDE DETECTOR/THRESHOLD CCT/FEEDBACK/DETECTO	A	5	N	N	C	
3RD-ORDER/SALLEN & KEY/PHASE SHIFT/TRANSMISSION	A	4	N	N	C	
ARFPT/LVDT/FIRMNESS/PENETROMETER/DISPLACEMENT	AD	5	N	N	C	
PROBE/2-TERMINAL IC/DPM./HIGH-GAIN AMP./DARLINGTON	A	3	N	N	C	25
POSITIVE/NEGATIVE DETECTOR/DROPOUT/COMPARATOR/OA.	AD	1	N	N	C	
PH/COMPARATOR/DIFFERENTIATION AMP./OSCILLATOR/FIA	AD	4	N	N	C	E
INPUT FILTER/1200 BAUD OR 300/TRANSMISSION/CCD.	DA	6	N	N	C	
DUAL FET./HIGH SLEW RATE/LOW-OFFSET DRIFT/SNUBBER	A	1	N	N	C	
NO DISCONTINUITY/DURING CHANGE OVER/LEVEL DETECTOR	A	2	N	N	C	
AMP./PEAK DETECTOR/LIGHT BEAM/PHOTOTRANSISTOR	A	1	N	N	C	E
LO./MULTIPLIER/CURRENT FEEDBACK OA./GATES/DBM.S	A	6	N	N		
GATING/AMPLIFICATION/EXCITATION SIGNAL/HF./MAGNET	AD	8	N	N	C	25
DIM/NOISE/COUGH/MICROPHONE/WHISTLE/DELAY	AD	4	Y		C	
100KHZ CARRIER/DIVIDES/LPF./3RD-ORDER BUTTERWORTH	AD	2	N	N	C	
RESISTOR/SIMULATOR SOFTWARE/AUDIO/MC3/ESR./ESL/RC.	A	6	N	N	C	
4.5MHZ AUDIO/TVRO./RCA/CHANNELS/MUSIC TV./SATCOM 3	A	4	N	N	C	

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MIDDLE-SIDE/STEREO ENCODING/GAIN/AMP.S/COMBINES	A	2 N	N	
FREQUENCY/357-555KHZ/WAVEFORM/SUSTAIN	A	5 N		C
LIGHT MONITOR/PHOTOTRANSISTOR		2		C
10KHZ/SAMPLING RATE/MICROCOMPUTER/PROSTHESIS	AD	6 N	N	C
IONIC CONDUCTIVITIES IN SOLUTIONS/SELF-OSCILLATING	A	3 N	N	C
POWER MAINS/INDICATORS/FIELD DAY/TEST	AD	2 N		
PLL.S/PHASE-LOCKED LOOPS/VCO./ACTIVE FILTER	AD	4 N		C
STABLE DC. COLLECTOR CURRENT/AC. AMPLIFICATION	A	1 N	N	C
TENFOLD IMPROVEMENT/0.1%/VOLTAGE DROP/SENSED/1OHM	A	1 N	N	C
OPTIONAL 8W/RADIO/PA/POWER/RECEIVER/RELAYS/LED.S	A	8 Y	N	
COMPARATORS/PRECISION PS./TRIM/15 TO 28V/AMP.S	A	1 N	N	C
RTC./3.579545MHZ/UP TO 20MA/RS-232 INTERFACE	DA	1 N	N	C
RELAY/TONE GENERATOR/CASSETTE PORT/BASIC	A	9 N		C
SCALE INTERNAL RESISTOR STRING/2-PHASE CLOCK/100HZ	AD	1 N	N	C 14
MICROCOMPUTER OS./AC. LINE	DA	9 N		C
UP./SERIAL COMMUNICATIONS	D	5 N		C
HAMTRONICS/MOD./VARICAP/IF./10.7MHZ FILTER/LO-PASS	A	8 N	N	
TEST/CALIBRATION PROCEDURES/APPLICATIONS	A	4 Y	N	
BIAS WINDING/TRANSFORMER/OUTAGE/AC./POWER	A	2 N		C
DATA TRANSFER/ERROR DETECTION/HEAD	D	7 N		C
SQUARING AMP./PHASEMETER	AD	6 N		C E
		1		C
SYNCHRONIZE/DIFFERENT/UP.S	D	3 N		C
PAL. (UPPER ADDRESS DECODER)/PIPELINE REGISTER	D	1 N	N	C
TRANSIENT BEHAVIOR/POWER/PARALLEL PROCESSING/UP.	D	9 N	N	C 1
PIEZOELECTRIC/ECHOES/TARGETS/RING/PULSE/SENSES	A	2 N	N	C
REGULATORS/PROTECTION/TEMPERATURE/REVERSE-POLARITA		1 N	N	C
PROPERLY/AS MANY AS 12 CELLS/CURRENT/OVERCHARGING	A	2 N	N	C
TOGGLE/SAMPLING/HF. RESPONSE/INEXPENSIVE/WAVEFORMSAD		1 N	N	C
AUTOBURETTE/ACORN/DATA PROCESSING/BASIC/VIA./PLANT	AD	5 N	Y	C
TONE/SWING THE BEAM/METER INDICATION/RADIO/PEAK	AD	1 N	N	C
NUTS/NEEDLES/WATER/FLUID/PURGING OF AIR/KERNEL	A	4 N	N	C
BW./40KHZ/LOOP/CELL/CURRENT MIRRORS	A	6 N	N	C
RATE OF REACTION/CHEMICAL EQUILIBRIUM/EQUATIONS	A	3 N	N	C
LOADING/INTERFERENCE/NOISE/PLL./VCO./VIDEO AMP.	AD	2 N	N	
ASTRONOMICAL UNIT/SUNLIGHT/PLANCK CURVE/RESPONSE	A	3 N	N	C
OVERLAY BUFFER/GATE ARRAYS/VGA SWITCH/UP./PC-AT.	DA	3 N	N	C 10
METER/HEATSINKS/SERIES REGULATOR/ERROR AMP.	A	6 Y	N	
RADIUS & ANGULAR VELOCITY/SENSOR/VOLTMETER/MASS	A	4 N	N	C
FET./VOLTAGE-VARIABLE RESISTOR/WITHOUT/CAPACITORS	A	2 N	N	12
OA.S/SCHMITT TRIGGER/DIODES/PEAK/VOLTAGE SWING	A	1 N	N	C
POSITION/DISTANCE/RS-170/SYNC STRIPPER/SCAN/GATE	DA	2 N	N	C
BURR-BROWN/UNLOCK/WINDOW COMPARATOR/OUTPUT NOR	A	2 N	N	C
PICTURE/DISPLAY/REVERSAL/SWITCH/MONITOR/<\$35	A	3 N	N	C
1A CONTINUOUS/PS.S/LOAD FAULTS/FUSE/ON-OFF CONTROL	AD	1 N	N	C
SH. CCT/3-PHASE/DFT/CMOS. ANALOG MUX.	AD	9 N	N	C
LOWEST/-45DEG C/MAXIMUM/130DEG C/COMPUTER	AD	2 N	Y	
FOR DC. OR LOW-SPEED OPERATION/DIODE/PHASE MARGIN	A	1 N	N	C
DIODE/COMPOSITE AMP./CCT COMPENSATES THE LOOP/POLE	A	2 N	N	C

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VCO./BW./MICROPHONE/AMP./HF. SQUEAL/SOUND	A	2 N	N	C	46
MICROPHONE/SPEAKER/NOISE/PICKUP DEVICE	A	5 Y		C	
10 BRIGHTNESS/BLANK/25M SAMPLES-SECOND/75OHM LOAD	DA	1 N	N	C	
LASER-DIODE DRIVERS/LED./LAN.S/COMPUTER/APD./AMP.	D	6 N	N	C	
BW./TEST/RINGING/LOAD CAPACITANCE/NON-INVERTING	AD	3 N	N	C	
ACQUIRED AT HIGH RATE/DECODER	D	3 N		C	
PROGRAMMABLE PERIPHERAL INTERFACE/Z80	DA	9 N		C	42
LED./2A/METER/AMP-HOUR RATING/SHUNT/RECTIFIER	A	2 N	N	C	
EXTENSION GROWTH/LINEAR DISPLACEMENT TRANSDUCER	AD	7 N	N	C	
STABLE/CMOS./BATTERY BACKUP CCT/POWER FAILURE	DA	9 N	Y	C	
LIQUIDS/TABLE REVOLVES/DRIVE SYSTEM/MOTOR/BCD.	AD	2 N	N	C	
INTERRUPTIONS/DIVIDE-BY-256 COUNTER/BATTERY/1-SHOT	DA	2 N	N	C	
CAPACITORS/PIA.S/DAC.S/MC68000 SBC./BUTTERWORTH	AD	7 N	N	C	
CHIRPING & TRILLING/SONG/MODULATED/TONE/BATTERY	A	4 Y	N	C	45
DISCHARGE/MOS./CHARGE/DETECTOR PLATE	A	4 Y			
REGISTERS/PRIVACY/SECURE/PROGRAMMED	D	6 N		C	
MODULATING/10KHZ/VISIBLE-LIGHT LED.	A	2 N		C	
CRT. DISPLAY/VCR./GRAPHICS/SEPARATOR	A	2 N		C	
VIDEOTAPES/SYNC CORRECTOR/FIELD/BLANKING-INTERVALS	A	5 Y	N	C	
COMPOSITE/VERTICAL SYNC./BURST-BACK PORCH TIMING	DA	1 N	N	C	
FIXED-COMPROMISE DELAY EQUALIZER/BANDPASS/LOWPASS	AD	2 N	N	C	
DIODES/LED.S/CAPACITORS/RESISTORS/OA.S/DEMUX./DAC.	AD	8 N	N		
RESONANT FREQUENCY/ESR./PS./LOAD CURRENT/Q/VOLTAGE	A	2 N	N	C	
DIFFERENCE AMP./VOLTAGE PROPORTIONAL/TO CENTERING	AD	2 N	N	C	
SPEED/FF.S/COMPARATOR/COIL CURRENT/DRIVE/SEQUENCE	AD	3 N	N	C	
TO MIX VIDEO SIGNALS TOGETHER/SYNC GENERATOR/TV.	A	1 N	N	C	6/46
LED./TRANSISTOR/NEGATIVE FEEDBACK	A	2 N	N	C	
OA./SPURIOUS INTERFERENCE/ATTENUATION/CARRIER	A	2 N	N	C	
LED.S/VU METER/BAND/DECIBEL/MIKES/AMP./TRANSISTOR	A	1 N	N	C	46
DOESN'T REQUIRE A SEPARATE PS./PIEZOSOUNDER/BLIND	A	1 N	N	C	
NOISE TEMPERATURE/ELECTRICALLY CONDUCTIVE MATERIAL	A	8 N	N	C	
OSCILLATOR/LED./MOSFET. TRANSISTOR/CAMERA	DA	4 N		C	
DATTEL/8MHZ/CASCODING/LINCMOS./MAX420	A	9 N		C	
TRANSFORMER/KILOWATTHOURS/CLOCK/COST	A	1 N		C	
HEAT/SENSOR/TIMER/COMPARATOR/RELAY/VALVE	A	2 N		C	
SAM/ABS PREAMP./COMPUTER INTERFACE/SAMPLE	A	3 N		C	
CARBURETTOR/ENGINE/DECELERATING/THROTTLE	A	1 N	N	C	
MEMORY/FIELD TEST EQUIPMENT/ERROR FLAGS	D	3 N		C	
INPUT CAPACITANCE/SHOWER DETECTOR/LEAKAGE CURRENT	A	9 N	N	C	
APPLIANCE/COST PER HOUR/LED. DRIVER/AC. LINE/TURNS	AD	3 Y	N		
60HZ SQUAREWAVES/\$10/OSCILLATOR/DIVIDER/COUNTER	D	2 N	N	C	
HAM SHACK/ID REMINDER/2M REPEATERS/OVER-TALKING	A	2 N	N		
FOLLOWER/INVERTER/LOW-GAIN/+35V AT +-10A/THERMAL	A	9 N	N	C	
BCD./FLASH/SWEETHEART/ANODES/PARALLEL/RATE/PULSES	DA	4 N	N	C	
CALL-PROGRESS MONITORING/TELEPHONE LINE/PSK./FSK.	DA	7 N	N	C	
DC. RESTORATION/UP./EPROM./RAM./AGC./NTSC./OVERLAY	AD	9 N	N	C	
LOGIC/MEMORY/1KHZ/PUMPING CAPACITOR/REGULATES	A	2 N	N	C	
STANDARD CUBIC CENTIMETERS PER MINUTE/RTD. SENSORS	A	8 N	N	C	
SOUND/PESTS/SHIFTED/HEARING/NOISE/REPEL INSECTS	A	2 N	N	C	

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ADJUSTABLE ZERO & MAXIMUM/HIGH-PRESSURE/SENSORS	A	3	N	N	
PRECISION/VOLTAGE REFERENCE/OUTPUT POWER AMP.	A	2	N	N	C
8 COMPARATORS/OA.S/HYSTERESIS/SWITCHED/AT ~10KHZ	AD	1	N	N	
OSCILLATOR/LPF./OA./HETERODYNE/COAL MINE/ROCK-DUST	A	4	N	N	C 3/39
MEASURE A LIMITING CURRENT/ENZYMES/DIFFUSION/OA.S	A	3	N	N	C
DIODES/GAIN/LPCVD/HEATED/RESISTORS/SEM.	A	9	N	N	28/42
REED RELAYS/SIMPLE/DEAD-TIME DELAY/OA.S/LATCHES	AD	2	N	N	C
MEASURE/RESISTANCE/LED.S/DRIVING/DRUNK/ETHYL	A	7	Y	N	
MODULATION/LASER/PAVIS-NIR./PULSES/CHOPPING	AD	3	N	N	C
PCM./FILTER/LPC/DAC./COMPRESSION/VOICED SOUNDS	AD	6	N	N	C
SENSORS/THERMISTORS/THERMOCOUPLES/RTD.S/HEAT/BIAS	AD	7	N	N	C
THERMISTOR/WHEATSTONE BRIDGE/NTC./THERMOMETER	A	9	N	N	C
ADJUSTABLE/FREQUENCY STANDARD/60HZ/WWV/GATE/STABLED		2	N	N	C
MONOSTABLE MULTIVIBRATOR/STACK MACHINE	D	8	N		C
TONE/MUSICIAN/PRACTISE PLAYING/TUNING	A	1	N		
DUT./CURRENT/PRESET THRESHOLD/SRAM./LET/CMOS./SEU	A	5	N	N	C
USER-SET DELAY/RESET FLAG/SHORT CCT	A	1	N		C
RESET FLAG/DUAL-OUTPUT/PROTECTED/SHORT	AD	1	N		C
COMPARATORS/MORNING/EVENING/RESISTANCE/TRANSISTORA		1	N	N	
SIMPLE/VOLTAGE DIVIDER/3-TERMINAL/INVERTER/2 IC'S	AD	1	N	N	C
TRANSMITTER/DSP./SIGNAL MODULATION/DEMODULATION	AD	3	N	N	C
COIL/300DEG C/FLUORESCENCE SPECTRUM/CAPILLARY	AD	4	N	N	C
OPTOCOUPLER/TTL./LOW-LIGHT LEVEL/TIME-RESOLVED	AD	5	N	N	C 25
GROUND REFERENCE/MORE CURRENT/LESS EXPENSIVE	A	1	N	N	C
CLEAR LEADER DETECTOR/LENGTH-OF-TAPE TRANSDUCER	DA	3	N	N	C
BALL/RTC52/PROPORTIONAL/INTEGRAL/DERIVATIVE MODE	AD	7	N	Y	
PRECISION REFERENCE/POSITIVE VOLTAGE REGULATOR	AD	1	N	N	C E
RAM./IBM PC./INTERFACE/32-POINT ARRAYS/SINE WAVE	D	9	N	N	C 25
6.9V ZENER REFERENCE/DARLINGTON/FLOATING MODE	A	1	N	N	C
CLOCK/DIVISOR/DIVIDER/LOAD & HOLD REGISTERS/NUMBER	D	2	N	N	C
RPM./SPIKES/CLIPPED/COMMUTATORS/JK FF./FET./EMF.	AD	2	N	N	
3.58MHZ/COLOR-BURST CRYSTAL	DA	1	N		C
BREATH/LOGIC/CO2 CONCENTRATION/DWELL INTERVALS	DA	5	N	N	
SR BISTABLE MULTIVIBRATOR/HYSTERESIS/VOLTAGES	AD	1	N	N	C
TRACKING SPEED/CRYSTAL OSCILLATOR/LED.	DA	1	N		C
OVEN/REFRIGERATOR/THERMOCOUPLES/SENSORS	AD	6	N		C
ADJUSTABLE TIME DELAY/TIMER/SPEAKER	A	4			
DYNAMIC NOISE REDUCERS/DNR/STEREO/SOUND	AD	4	Y		
PERIOD/LSI./TRANSFORMER	D	3	N		
WEAR/THERMOMETER/OUTSIDE/WINDOW COMPARTORS/LED.SA		7	Y	N	C
DECODING CCT/DATA/ADDRESS/WAND/AMP.-DRIVER	AD	5	N	N	C
THERMOCLINE/PLANTS/OXYGEN/12V/1.25V REFERENCE	AD	7	Y	N	C
LV. AMP./STEREO HEADPHONES/VOLUME/CHORD/TONE	AD	3	Y	N	C
CUT BACK/VOLTAGE/RATE/A.F.C./ENERGY/LED./INDICATOR	A	5	Y	N	
WINDOW/OVER-TEMPERATURE SENSING/HYSTERESIS/TTL.	A	3	N	N	
SHAFT/ROTATION/ADVANCE/VCO. CONTROLLER/PULSES	A	2	N	N	C
ELIMINATES/LINE CHARGING/CABLE TRANSMISSION/NOISE	DA	1	N	N	C
LED./ERA/CP-M/COMPARATOR/HYSTERESIS/DETECTOR	A	2	N	N	C
HF. RECTIFIER & FILTERING/DIODES/SWITCHED-MODE/1KW	A	3	N	N	C

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LEVEL CONTROL/ACTION/RADIO/OA./BI-COLOR LED./MOTOR	A	3 Y	N	C	
DECAPITATED TURTLES/BLOOD GAS MEASUREMENTS/LUNGS	A	5 N	N		76
CRYSTAL OR EXTERNAL CLOCK/NATIONAL SEMICONDUCTOR	AD	1 N	N	C	
MAGNETIC SENSOR/1 SHOT MULTIVIBRATOR/FIELD/SIMPLE	AD	6 N	N		
DIRECTION INDICATOR/METER CCT/LED./POTENTIOMETERS	A	5 N	N	C	
NEGATIVE-AC./CLOCKWISE/OPTO-ISOLATOR/BRIDGE/AMP.	A	1 N	N	C	
FLUORESCENT DISPLAY TUBES/OA.S/LARGE/VOLTAGE SWING	A	1 N	N	C	
AM. RECEIVER/RADIO/BC. BAND/AC. WIRING/REMODELING	A	3 Y	N	C	
SUPER-HIGH-SPEED OA./COMPARATOR/INTEGRATOR/LED.	A	4 N	N	C	
"PLUG'N POWER" HOME CONTROLLERS/INTERFACE/X-10/AC.	A	4 N	N	C	
LOW OUTPUT IMPEDANCE/LOAD/TRANSMISSION/HF. BURST	A	2 N	N	C	
SHORT-CCT SHUT-OFF/INEXPENSIVE/HEAT SINK/RECTIFIER	A	3 N	N	C	
COMPARATOR/SOUND-ACTIVATED CONTROL/RELAY/DELAY	AD	5 Y	N	C	
RIGS/HF./COMPRESSION/ATTACK TIME/MICROPHONE/ALC	A	2 Y	N	C	
THIEVES & CARJACKERS/SECURITY DEVICE/LED.	A	4 Y	N	C	
NORTON QUAD OA./COMPARATOR/LED./TIMER/1-SHOT	A	2 N	N	C	
300A/HV. DC. (HVDC)/AC.-TO-DC. CONVERTER/BRIDGES	AD	7 N	N	C	
DATA INPUT/IR. LIGHT SOURCE/PC.'S JOYSTICK PORT	AD	6 N	Y		AY
VSWR./READING/INDICATOR/TRANSMISSION LINE/ENERGY	A	3 N	N	C	
SQUARE-WAVE OSCILLATOR/SPEED CONTROL/MOTOR/SLOW	A	3 N	N	C	
OVERCURRENT PROTECTION/5V, 125MA/SHUNT/LOAD/POWER	A	1 N	N	C	
DECODER/CHANNEL SELECT/WAVEFORM/SWITCH/CLOCK	AD	2 N	N	C	
DURATION/TRANSMISSION/NETWORK/GATES/COLLISION	DA	6 N	N	C	
3 ORDERS OF MAGNITUDE/CAPACITOR-CHARGING CCT/OA.'S	A	1 N	N	C	
OA./PRECISION RECTIFIERS/JUNCTION CURRENT AMP.	AD	3 N	N	C	E
THERMOLUMINESCENT DOSIMETERS (TLD)/RADIATION	AD	3 N	N	C	61
CLEAR-PAGE PULSE/SOUND MUTE/VIDEO INTERFACE/MOD.S	DA	2 N	N	C	E
WHEATSTONE BRIDGE/DIFFERENTIAL CCT/NTC./RESISTOR	A	5 N	N	C	
CALIBRATION IS ELIMINATED/FIX THE POTENTIALS	A	1 N	N	C	
LED.S/DISPLAY/PIEZOBUZZER & RELAY/DIP. SWITCHES	AD	3 Y	N		
FM./SYNTHESIZER/RF. TR./PRESCALER/SPREAD SPECTRUM	AD	2 N	N		
SENSOR/VOLTAGE-TO-FREQUENCY/DVM.	AD	7 N		C	
RS232/12V/SATELLITE DISH/DATA BASES/DOWNLINK	A	6 N	Y		
VOLTAGE/REFERENCE AMP./\$25	AD	1 N		C	
RS-232-C/CONTROL S/Q/DATA TRANSMISSION	DA	2 N		C	
CRT./PHOTOCELL/LIGHT/TIMERS	AD	3 Y			
STRAIGHT KEY/CMOS. SWITCH	AD	1 N		C	
FAST-RISING INPUTS/AMP.'S RESPONSE	A	1 N		C	
EVENT PERIODICITY/DURATION/TRIGGER/DIGITAL/DISPLAY	DA	4 N	N	C	
CMOS./CMRR./ACTIVE FILTER/CHOPPER-STABILIZED	AD	5 N	N	C	
DETECT/REVERSED/UNREALTED PAIRS/ACTIVE/TERMINATOR	A	1 N	N	C	
PROBE/CALIBRATE/BOILING WATER/DEGREES CENTIGRADE	A	1 N	N		
COMPDES/BAND-PASS CONSTANT-K FILTER PI/BASIC	A	3 N	N	C	
AC.-LINE INTERFERENCE/SYNCHRONOUS MOTORS/TRIP	AD	1 N	N	C	
0.25MA/OSCILLATES/TEMPO/GENERATES A CLICK/FILTER	A	1 N	N	C	
RADIO LAMP/ENVELOPE IS REMOVED/GAUGE/VACUUM/GAS	A	3 N	N	C	
2-CONDUCTOR WIRE/2 FILTERS/LED./BEDROOM/LIGHT	A	5 Y	N	C	
BLINKING LED./MONOSTABLE/TIMER/DUAL-ROTATOR/MOTOR	A	4 N	N		
CIGARETTE LIGHTER/LED. INDICATOR/12 TO 15V/ZENER	A	2 N	N	C	

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BISTABLE OPTICAL DEVICE/PHOTOTRANSDUCER/MERCK 7A	A	9	N	N	C
POSITIVE TRANSITIONS/ODD-EVEN/COMPOSITE VIDEO	DA	1	N	N	C
VOLTAGE CONTROLLED AF. GENERATOR/MRI/WORK/NMR.	A	6	N	N	C
4-DIGIT UP-DOWN COUNTER-DECODER DRIVER/DEAD ZONE	AD	2	N	N	C
200KHZ/SERIAL OUTPUT/THD./NONLINEARITIES/INTERFACE	A	3	N	N	C
FULL-SCALE/10V AT 10KHZ/0.1% LINEARITY/SETTLING	A	1	N	N	C
SENSOR/-40DEG C TO +150DEG C/+2DEG C/REFERENCE	A	2	N	N	C
TRIGGER/FEEDBACK/LOGIC/70MHZ/MEMORY/FF./STEERING	AD	3	N	N	C
SMALLER & LIGHTER THAN PACEMAKERS/RABBITS/BATTERY	A	2	N	N	C AG
230-330 K/MILLIKELVIN/STABILITY/HEAT PUMPS/PELTIER	A	9	N	N	C
CONDITION THE SIGNALS/OA.S/TAFEL ANALYSIS PROGRAM	A	8	N	N	
DIRECT-VOLTAGE-OUTPUT/SENSORS/ADC./HVAC/HCS/OFFSET	AD	9	N	N	
HIGH-RESOLUTION MONITORS/GAIN OF 10/85MHZ/BW./40V	A	6	N	N	C
HYSTERESIS/ECL./SQUARE- & TRIANGLE-WAVE/CLAMPING	AD	5	N	N	C
FOLLOWERS & NEGATIVE FEEDBACK/LPF./OA.S/AMP.	A	3	N	N	C
3-TERMINAL REGULATOR/PNP PASS ELEMENT	A	1	N		C
CRYSTAL/CLOCKS/CMOS. OSCILLATOR-DIVIDER	D	2	N		C
BURST/BACKPORCH/DATA/SYNC SEPARATOR/ODD/PAL, SECAMAD		1	N	N	C
MULTIBUS/DUAL-PORT/UP./CPU./ARBITRATES/DECODING	D	5	N	N	C
ACCURATE/SENSING/LM35/SENSOR/JUNCTION/NBS./J-TYPE	A	1	N	N	C
HOST UP./HYBRID/GATE-ARRAY/ARCNET/TOKEN-PASSING	DA	6	N	Y	C
DIGITAL POTENTIOMETER/VOLTAGE MODE/CURRENT	AD	1	N	N	C
CONTROL-PAD/HEX DEBOUNCE CCT/HIGH-SPEED DATA LINKS	AD	1	N	N	C
CLOCK/COIL/45MA CURRENT PULSES/POWER/2YR/D-CELL	A	1	N	N	C
DC./DIFFERENTIAL AMP./FREQUENCY COMPENSATION	A	6	N	N	
VOLTAGE/FREE-FALLING/ENERGY-CONSERVING/COMPUTER	A	4	N	N	C
ACCURATE/VARIATIONS/5V INCREMENTS/90-TO-140V/TEST	A	5	N	N	C
VCO./PHASE COMPARATOR/LPF./RADIO RECEIVER/IF./RF.	A	5	N	N	
SET & RESET/EXCLUSIVE OR/NOR/AND/OR	AD	1	N	N	C
VOLTAGE AMP./DIODE DROP/COOLING/HYSTERESIS	A	2	N	N	C
68OHM SERIES RESISTOR/HIGH IMPEDANCE/ULA/CABLE	AD	1	N	N	C
FF./COMPARATORS/GREATER THAN/EQUAL TO/OR LESS THAN	AD	2	N	N	C
HV. ISOLATION/CONTROL OR MEASUREMENT/SMPS.S	A	1	N	N	C
AC.-POWER SINE WAVE/60HZ SAWTOOTH/"DEAD BAND"	A	1	N	N	C
PATCH-CLAMP RECORDING/LIGHT/LED.S/12V/NOISE/SIMPLE	A	4	N	N	C
IN VIVO/HUMAN EYE/LIGHT/LASER/BLOOD SUGAR LEVEL	AD	5	N	N	C
CLIPPED BY/ZENER DIODES/HARMONICS/THD./<5MV CHANGE	A	2	N	N	C
WASTEWATER/THRESHOLD COMPARATOR/TIME CONSTANT/10S	A	1	N	N	C
RATINGS/PROBLEMS/HIGH-SPEED/THRESHOLD	A	1	N		C
INDUCTIVE LOADS/SPIKES/CMOS./MOSFET.	D	7	N		C
CHECKS/TRANSMITTER PERFORMANCE/IMD.	A	1			
LED./<\$1/OA./ERROR DETECTION	A	5	Y		C
IGNORING CHUNKS OF IRON & STEEL		5			
FUNDAMENTAL/WAVEFORM/SUMMING 'OA./PHASE/6502/MPU.	AD	2	N	N	
DATA/UP./PROCESSOR-WAIT STATES/MOD./PLAYER/UART.	D	2	N	Y	C
SIGNAL CONDITIONING CCT/DRIVE MOTOR/AIR-WATER	A	5	N	N	C E
3 TO 30V/10^11OHM/0.29PF/90MHZ/300V-USEC/PITCH	A	9	N	N	C
PHASE/VARIOMETER/CRYOSTATE COILS/COMPENSATION	A	4	N	N	C
LED./OSCILLATOR/ASTABLE MULTIVIBRATOR/935HZ/190HZ	A	5	Y	N	

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GAIN/BAND-PASS FILTER/NEGATIVE FEEDBACK/2100HZ	A	2	N	N
COMPARATORS/VHF.S/BUFFERS/ANTIREVERSAL DIODES	A	8	N	N C
RESTART/BAND-GAP CCT/VOLTAGE REFERENCES/PS.S/ZENER	A	8	N	N C
MEMORY BOARDS/VOLTAGE/PCB.S/WITHOUT CUTTING TRACKS	AD	2	N	N C
AUDIO/RF./TRIANGLE-WAVE-TO-SINEWAVE-CONVERTER CCTS	AD	4	N	N C
5V/RANGE COVERED IS +-9.5%/NEGATIVE VOLTAGES/LATCH	AD	2	N	N C
COMPARATOR/ENHANCEMENT/CONDUCTS/IN 1 DIRECTION	A	1	N	N C
INTONATION/HI-PASS FILTERING/10UF CAPACITOR/NOISE	A	1	N	N
PERIPHERAL/BYTE SWAPPING/INCREASE/SPEED/FIFO./IO.	D	7	N	N C
COUNTER/DOT CLOCK/MUX./HORIZONTAL BLANKING/8080A	D	2	N	N
TELEPHONE INTERFACE/AGC./LAPTOPS/OA.S/SPEECH	AD	5	N	N C
METER/36IN LONG/LED./FET. INPUTS/QUAD NORTON AMP.	A	5	Y	N C
RF./RTTY./TRANSMITTER/TR./TRIMMER/MOS.S/CW.	A	1	N	N C
INSTRUCTION/VECTOR MAPPING PROM./DATA BUS/STACKED	D	2	N	N C
BUFFALO MONITOR/LED./EEPROM./MONITOR PROGRAM/OA.	AD	8	Y	Y
PARASITIC CAPACITANCE/566KHZ BW./DRAWS WELL <500UA	A	1	N	N C
SEVERAL MICROSECONDS/NOISE/STATE/POSITIVE FEEDBACK	A	2	N	N C
+100V COMMON MODE RANGE/HIGH INPUT IMPEDANCE	A	2	N	N C
RFI./SWITCHING PS.S/LED.S/TRANSMITTER/RF.	A	3	Y	N C
IF. INPUT FLOATING/HIGH ON-OFF RATIO	A	2	N	C
AMPLITUDES/INCREASING/DECREASING	A	6	N	C
620L/SIGNAL AVERAGING/RECORDER/PLOTTING	A	4	N	C
YIG FILTERS/VCO.S/0.000V TO 9.999V	AD	2	N	
MUX./POWER-DOWN PROGRAM/MEMORY/SWAPPING	D	3	N	C
ADAPTER/BACKUP/FLASHING/VOLTAGE/9V/5V	A	2	N	C
COUNTER/1-SHOT/VCO./BYTE-PARALLEL/FF./CLOCK	D	2	N	N C
LED./10-STEP LOGARITHMIC ANALOG LEVEL-DETECTOR	AD	2	N	N C
VCF/VOLTAGE-CONTROLLED FILTER/AGC./AMP./VCO.	A	4	N	N C
FREQUENCY/VOLTAGE SOURCE/SINUSOIDAL/SCR./3-PHASE	A	7	N	N C
SPEED-SELECTOR/AUDIO POWER AMP./DIALING/MOBILE	DA	7	Y	N
ACTIVE TELEPHONE LOOPS/BIDIRECTIONAL/TERMINAL PORT	A	9	N	Y C
DEPLETED VOLTAGE OF 1V-CELL/HYSTERESIS/REMAINS	A	1	N	N C
300MV FULL-SCALE/OUTPUT/BUILT-IN REFERENCE/-300V	A	1	N	N
ACCURACY/0.15%/COMPUTATION/WAVEFORM/QUAD OA./5KHZ	A	2	N	N C
SIMPLE/RELIABLE/ID/FILTER SQUELCH PULSES/12V/TIMER	A	2	Y	N C
INSENSITIVE TO OA. OFFSETS/ERRORS/CURRENT SOURCE	A	2	N	N C
IO. CHANNELS/14-BIT COUNTER/ADDRESS/INSTRUCTIONS	D	1	N	N C
IMMUNITY FROM 60HZ NOISE/FILTER/NEGATIVE FEEDBACK	A	2	N	N C
ALERT/SOUNDS WARNING BUZZER/PHOTOTRANSISTOR/LED.	A	8	Y	N C
X100/200KHZ BW./DC. VOLTAGE-FOLLOWING/QUAD	A	3	N	N
INPUT ATTENUATOR/ELECTRET MICROPHONE/FET./SOUND	A	5	N	N
CURRENT REGULATOR/RAMP GENERATING CCT/1.5A	A	2	N	N C
SUNLIGHT/BRIGHTNESS/DETECTOR/MIRROR/INTENSITY	AD	4	N	N C
RED LED.S/YELLOW/GREEN/STEREOS/10 CURRENT SOURCES	A	1	N	N C
CAPACITOR/DIODE/ECG.IC SIGNAL/SIGNAL PROCESSING	AD	1	N	N
FEEDBACK/CONTROL INPUT/DROP/RESISTORS/SIMPLE	A	1	N	N
CPU./ADDRESS DECODER/REFRESH	D	3	N	C
FIFO./INSTRUCTION REGISTERS/HOST/PROM.	D	6	N	C
OSCILLATOR/TRIGGER/THRESHOLD/CLEAR	AD	1	N	C

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PLL./VCO./CLASS-C AMP./HIGH-GAIN	AD	1 N	C	
8-DIGIT/DISPLAY/WIDE DYNAMIC/RANGE	AD	9 N	C	42
CPU./PRINTER/CRT./TEST PROGRAM/CHARACTER GENERATOR	DA	3 N	Y	
SPEAKER/NOISE/FULL SEWAGE TANK/POWER FAILURE/PROBE	AD	3 Y	N	
CPU./BUS ARBITER/COMPUTER/PRIORITY/SLAVE/VLSI.	D	6 N	N	C
CPU./BUS/LINEAR-DIFFERENTIAL LOGIC (LDL)/REFERENCE	DA	7 N	N	
OVEN/DRIFTS/DIODE BRIDGE/QUARTZ CRYSTALS/RESONATOR	AD	8 N	N	C
GRAPHICS/CPU./DISPLAY CONTROLLER/TRANSCEIVER/RISC.	D	9 N	N	C
PS. VOLTAGE REGULATOR'S/COMPARATOR/THERMAL/ALERT	A	4 N	N	
ALIAS/UP./DIGITISING/64KHZ SAMPLE RATE/DAC./<2MIN	AD	3 N	N	C
FREQUENCY SYNTHESIZER/AUDIO PROCESSORS/PHOTODIODE	AD	3 N	N	C 57
UP TO 45/DEGREES OF PULSE-WIDTH ERROR/INTEGRATOR	AD	2 N	N	C
TIME WAS MEASURED/PENDULUM ILLUSION/POLARIZING	D	9 N	N	C
RECTIFIED/DECODE/RC. CCT/HIGH-SPEED FIBER-OPTIC	AD	2 N	N	C
COMPARATOR/RELAY/SPEAKER'S COIL/"FAULT" LED.	AD	4 N	N	
NEURAL NETWORK/RELAY/MOTOR/SUPPRESSOR/SEEK/EXPLOFA	FA	9 Y	N	C
MICROPROGRAMMABLE/UP./FASTER	D	6 N		C
SWITCH/AUTO-REPEAT/PULSES	AD	1		C
INTERRUPT CONTROLLER/UP./UART.	DA	7 N		C
DELAYED TIMING PULSE/LATCH-ENABLE	D	3 N		C
MEDIUM-SECURITY/ANALOG/RF. MODULATOR	AD	6 Y		C
2M PAGING/CODE WORDS/BCD. SWITCHES	DA	4 N		
SAMPLING/CHOPPERLIKE/CMOS. DAC./INTEGRATING SERVO	A	7 N	N	C
FREQUENCY RESPONSE/METEOROLOGICAL/SENSOR	A	4 N		C
CAR/CO MEASUREMENT/MILEAGE/BALANCE METER	A	3 Y		
LIGHTS/LED./DEAD/WEAK/CHARGING RATE	AD	4 N		C 42
PERSONAL WATCHDOG		2		C
STABLE EQUILIBRIUM/ELECTROMAGNETIC/EM.	A	4		C
SIMULTANEOUS/LEAST-SQUARES FIT/AMP.	A	9 N	N	C
LED./SENSOR/DIODES/SIMULATE IGNITION COIL PULSES	A	5 N	N	
MEMORY-INTERPROCESSOR INTERRUPT-SUPPORT/PBX.	DA	4 N	N	C
INTERNAL CURRENT LIMITING/THERMAL SHUTDOWN/TO-220	A	1 N	N	
AC. PS./DC./CAR BATTERY/CHARGING/SHUNT	A	4 N	N	
WHEATSTONE BRIDGE/MILEAGE/COOLING/VEHICLES/LED.	A	8 Y	N	
SPURIOUS WRITE OPERATIONS/POWER-UP/COMPARATOR	AD	2 N	N	C
CARS/"IDIOT" LIGHT/ALTERNATOR/DRAWS ONLY ~5MA	A	1 N	N	
VOLTAGE REGULATOR/BRIDGE RECTIFIER/PROBE/PLATINUM	A	2 N	N	C
HIGH-SPEED ANALOG-IO./DMA./SH. AMP./BUS	DA	8 N	N	C
HARVESTER/FEEDBACK-CONTROL/SPEED/MOTOR/TUBER/SOIL	A	5 N	N	C
ECL. DRIVER/CVL/FLUORESCENCE/PULSE BROADENING/AMP.	AD	9 N	N	C
SSR./APPLE MACINTOSH PLUS MICROCOMPUTER/IEEE-488	DA	2 N	Y	C
COLD-WEATHER/VEHICLES/CARS/COMPARATORS/"CRANK"	A	6 Y	N	
A FEW HERTZ TO ~100KHZ/SENSITIVITY/TRANSDUCER	A	2 N	N	C
HV./VOLTAGE MONITORING/CHOPPER/SWITCHING/SCR.	A	6 N	N	C
XENON/PFN/LIGHT/VARIAN VIX-150/PS./PHOTOMULTIPLIER	AD	5 N	N	C
D OPTICAL/TYPE/COMPUTER/PLOTTER/LINE GRAPHS/GPIB.	DA	4 N	N	C
PS./VACUUM TUBE PREAMP./& IMMEDIATELY AT TURN OFF	A	1 Y	N	
PSD/MEASURE/DEFLECTION/LASER BEAM/POWER MONITORS	A	5 N	N	C 2
PUSH-PULL CCT/GAIN OF 100/250KHZ/NONINVERTING AMP.	A	2 N	N	C

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10MV FSD./ZERO CHECK/PROBE/TASTE/LINEARISATION/OA.	A	3	N	N	
MUX.ING/INTERFACING/COMPUTER/RS-232C/COLORS/PULSE	D	3	N	N	C 46
DUAL OA./FEEDBACK LOOP/TRANSISTOR/POTENTIOMETER	A	1	N	N	
MONOBANDERS/SMART KNOB/SET-&-FORGET/CDE/25K POT	A	3	Y	N	C
NEP./FRESNEL LENS/PHOTODETECTORS/FILTERS/F NUMBER	A	4	N	N	
DSP. CHIP CAN READ THE DATA IN 1 CYCLE/ADDRESS	DA	1	N	N	C
DC./SENSES THE LOA&& ADJUSTS MOTOR INPUT VOLTAGE	A	4	N	N	C 42
SWIZZLE STICK TRIGGER/PING-PONG BALLS/ATOMIC BOMB	A	3	N	N	C 6
SIMPLE/LIQUID CHROMATOGRAPH/PEAKS/COMPARATORS/OA.	A	2	N	N	C
DRIVEN BY A WAVEFORM GENERATOR/AMP./RESISTANCE	A	1	N	N	
OA./SHIELDING/DETECTOR/STRAY CAPACITANCE/BALANCE	A	3	N	N	C
HIGH-GAIN-LOW-PASS AMP.S/DIFFERENCE AMP./LASER	A	4	N	N	C
ALU./DATA/ASCII./EBCDIC/RAM./MICROPROGRAMMING/IO.	D	9	N	N	C
DOT-BAR DISPLAY DRIVER/OA./PIEZO TRANSDUCER/FET.	AD	4	N	N	C
EACH LED. REPRESENTS 150MV/DRY/RECHARGEABLE/NICD.	AD	1	N	N	
BIKE/LOW CURRENT DRAIN/CMOS./REED SWITCH/BATTERY	AD	1	N	N	
PWM./FULL-BRIDGE/SWITCHING/DRIVER/PUSH-PULL/RFI.	AD	9	N	N	
COMPARATOR/REFERENCE/VOLTAGE DIVIDER/ADC. CCT	AD	3	N	N	C
30V/CURRENT-DIFFERENCING AMP./SIGNAL-CONDITIONED	A	1	N	N	C
VCO./PLL./IR. LED.S/PHOTODIODE/JFET. OA./RANGE >8M	A	6	N	N	C
CO ₂ LASER BEAM/MAGNETIC FIELD LINES/DENSITY	A	9	N	N	C 88
DIODES/TIME CONSTANT/DISCHARGE/12V FOR 3S MIN.	A	1	N	N	C
LED./HOME CONTROL SYSTEM/CODES/IS1U60/PULSES/8031	AD	9	N	Y	
AUDIO OSCILLATOR/LED. FLASHER/PROBES	A	1	N		
AUDIBLE SIGNAL/PROXIMITY/AUDIO AMP./DETECTION	A	3	Y	N	
FEEDBACK/INPUT-PROTECTION/SYMMETRY/OA./SATURATION	A	9	N	N	C
TEST/MODEMS/GENERATE RTTY./DECODERS/FILTERS/CMOS.	AD	6	Y	N	C
TC-1/TRANSMITTER-CONVERTER/MODULATOR	A	2	N		
ENDEC RECEIVER/TRANSMITTER/DATA LINK/SUPERNET	D	2	N	N	C
POINTER DAMPING/MICROAMMETERS/MILLIVOLTMETERS	A	1	N	N	C
REALISTIC/SEA SHELL/NOISE GENERATOR/SHIFT REGISTER	AD	5	Y	N	
INTEGRATING NETWORK/GAMMA-RAY ASTRONOMY/PMT.	AD	6	N	N	C
DIODE-CHAIN POTENTIOMETER/TTL. BUFFERS/TRANSISTORS	DA	1	N	N	C
BIPOLAR OR UNIPOLAR/100'S OF VOLTS/HIGH POTENTIALS	A	2	N	N	C
OFFSET/6DB STEPS/BIN-SORTER/PERCENT-CHANGE/AF.	AD	2	N	N	C
MUX.ING/JK FF.S/DIFFERENCE AMP./NAND GATES/BUFFERS	AD	3	N	N	C
RAM. BACK-UP/NON-VOLATILE/MEMORY/DIVIDER	A	1	N		C
FILTERS/POWER AMPLIFICATION	A	5			
ADJUSTABLE/TORQUE/PM-TYPE DC. SERVOMOTOR	A	2	N		C
HIGH-CURRENT/RESET FLAG/CMOS./SUPERVISORY/SENSING	AD	5	N	N	C
ISOLATION/UNDERVOLTAGE DETECTOR/POWER-LOSS ALARM	A	1	N	N	C
VHF./AGC. LIMITS/INPUT CAPACITANCE/POWER/MOSFET.	A	5	N	N	
REGULATORS/STABLE/HEATSINK/DIGITAL ELECTRONICS	A	1	N	N	C
DIFFERENTIAL-INPUT/VOLTAGE-FEEDBACK/TRANSIMPEDANCE	A	9	N	N	C
DEMONSTRATOR/<\$35/ELECTRODES/COMPARATORS/LAMPS	A	2	N	N	C
HF. PRESCALER/PROGRAMMABLE/PHILIPS/PHASE DETECTORS	AD	2	N	N	C
NEGATIVE FEEDBACK/GATE BIAS/DRAIN TO SOURCE/>4.2V	A	1	N	N	C E
ANALOG SIMULATION/ANALOG WORKBENCH/JTAG/CAE.	A	3	N	Y	4
CRYSTAL OSCILLATOR/REFERENCE VOLTAGE/AC.-COUPLED	A	1	N	N	C

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CAPACITOR/AUDIO	A	1 N	C	
ZX81 ULA/ROM./MEMORY MAP/CONNECTOR/INPUT	A	4 N		
BRAILLE/BLIND/TRANSCRIBE/KEY LINE/XMTR	A	1 N		
UJT./TRANSFORMER	A	1	C	
ADC./DAC./COMPARATOR/COUNTERS/256 STEPS	AD	1 N	C	
AFSK./HEATHKIT HW-101/TRANSCIVERS/COMPUTER/TONE	AD	3 N	N C	
FEEDBACK CCT/20-TO-1 RESISTOR DIVIDERS/+-.15V PS.S	A	1 N	N C	
RF. FIELD/PREAMP./VOSY PULSE SEQUENCE/NMR./4.5KW	A	8 N	N C	E/25
VIDEO/PRE-EMPHASIS CCT/ELECTROLYTIC/FM. ATV.	A	1 N	N	
LIMITER/MEASUREMENT/CHARGING CCT/CONDUCTANCE	A	9 N	N	
TRANSISTOR/TRIGGER/THRESHOLDS/VOLTAGE/TTL. CCTS	A	3 Y	N C	
CONSTANT/CURRENT/AUTOMATIC SHUT-OFF		1	C	
HYBRID-PII/3-TRANSISTOR/COCHRUN-GRABEL/POLES/ZEROS	A	9 N	N C	
REFERENCE VOLTAGE/LSB./TEMPERATURE COMPENSATION	AD	1 N	N C	
RELAY/TRANSMIT/PNP DRIVER/ECG	A	1 N	N	2
LINK/2MA/RD/TD LINE/LED.S/CONNECTOR/BAUD RATE	D	1 N	N C	
CONSTANT-CURRENT DRIVER/RELAY COILS/TRANSISTOR	A	2 N	N	AZ
USER PORT/TRANSCIEVER/SQUELCH BACK-OFF	DA	4 Y		
LINEAR EXPANSION/BIFET./POWER/TRICOLOR LED./OA.	A	4 Y	N	
PORTABLE/SIMPLE, SMALL & SENSITIVE	A	2 N		
ANTENNA INERTIA/WEDGE/CONTROL BOX	A	1 N		
NORMALIZED CURVES/DISCHARGE		3		
LIGHT BULB/AC. MOTOR/TRIGGER PULSES/GATE/RC.	A	7 N	N C	
SYNC PULSE/FIRES/CAPACITORS/LINE/DISCHARGE/CYCLE	A	1 N	N C	
TV. TUNERS/SET/AMP./F CONNECTORS/ANTENNAS	A	2 N	N	
DMA. CONTROLLER/CPU./8 BIT MICROCOMPUTER/DATA/RAM.	D	2 N	N	
NUMBERS/Common-CATHODE/FORM/ALPHABET/READOUT	D	2 N	N C	
LASER TUBE/LIGHT/BACK BEAM/THERMAL/HEATER/PS.	A	2 N	N C	
COUNTER-EMF. (CEMF)/COIL/INDUCTOR/CURRENT/RF.	A	2 N	N C	
COMMON-MODE/VOLTAGE/RESISTOR/UNITY-GAIN/LOADING	A	1 N	N C	
REGULATOR/LINE/LOAD REGULATION/TESTING/ERROR AMP.	A	4 N	N	
8-BIT ADC./DAC./6820/INTERFACE/TV. SET/RAM./UP.	DA	7 N	N C	
RF. GATE/ATTENUATOR/SNR.S/FT. NMR. SPECTROSCOPY	AD	4 N	N C	
SIGNAL STRENGTH/SUDDEN IONOSPHERIC DISTURBANCES	AD	2 N	N C	
30MHZ/RF./SAMPLE COIL/MODULATION/COUNTER	AD	4 N	C	
ROTARY INDUCTOR/HF./CLUTCH/MOTOR DRIVE	A	7 Y		
YAESU FT207R/MOD.S/BATTERY	A	1 N		
TRANSFORMER/KEY/MORSE CODE/TV. SPEAKER	A	1 N		
PULSES/PROPORTIONAL/AMPLITUDE/CHANGE	A	3 N	C	
IO. CHANNELS/ANALOG/OPTOISOLATOR/DATA-ACQUISITION	AD	9 N	Y C	E
MAGNETIZATION/DIFFERENTIAL SENSE AMP./DECK	AD	2 N	N C	
DAC./UP./CALCULATION/DATA/TEMPERATURE	A	5 N	N C	
LOADING CONDITIONS/SWITCH/ADC./COMPUTER/DATA	AD	2 N	N C	E
RECEPTION/WEAK SIGNAL/COMMUNICATIONS/RADIO/TUNER	A	4 N	N C	
SPEED/FRACTION/AA-SIZE NICD.S/CELLS/ZENER DIODES	A	2 Y	N	E
OSCILLOSCOPE/VOLTAGE TO CURRENT/A-D INTERFACE	AD	3 N	N C	
DB-25 SERIAL CONNECTOR/VOICE & PACKET/MODES/SOUND	AD	1 N	N C	
FADER/ADC./4-BIT CODE/ANALOGUE MUX./SH.	DA	3 N	N C	
GAIN-SENSE CONNECTIONS/GAIN ACCURACY/FEEDBACK/LOOPA		1 N	N C	

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CONNECTOR/LED./RECORD/PLAY/DATA/REMOTE	DA	2 N	C	
PICKUP COIL/SCR./WARNING/MAINTENANCE	A	2 N	C	
IF. GAIN		2	C	
TR. RELAY/SIMPLEX/REED/PLL./TRANSMITTING	A	1 N		
SSB./QSK/TUNE/DISCHARGE CAPACITOR/RESPONSE/GROUND	A	1 N	N	
RADIATOR/LOW-ANGLE RADIATION/52 RADIALS/GROUND ROD	A	5 N	N	
TELEPHONE/100W/SWITCH/TALK/REMOTE/117V AC./DIODES	A	2 N	N	
SANYO MBC 550 SERIES COMPUTER/INDICATOR/TRANSISTOR	D	1 N	N C	
SYNC PULSE/REGULATING AMPLITUDE/SUBVIDEO-SPEED OA.	A	1 N	N C	
VARIABLE BW./VFC./F-V CONVERTER/VELOCIMETERS	A	3 N	N C	
SELECT A CONSTANT PHASE OUTPUT/VHF. FILTER/SWITCH	DA	7 N	N C	
RECEIVER/RESONATES AT 4.85KHZ/AUDIO TAPE RECORDER	A	2 N	N C	
FET./DARLINGTON/SPECTRAL RESPONSE/LIGHT	A	1 N		
SUPER-LF. (SLF) OSCILLATOR/TRAIN/VCO./PITCH/LAMP	A	1 N	N	
MM5736/RC. CCT/COIL/DROPPING RESISTOR	D	2 N	C	
TRANSMITTERS/NEGATIVE/POSITIVE KEYING	A	2 N		
BPF/ASTRO 103/RECEIVER/WEAK-SIGNAL DX	A	2 Y		
AUDIO CHANNELS	A	1 N		
PUSHBUTTON/DECADE COUNTER-7 SEGMENT DECODERS/CMOD		1 N	N	
LANE/DERBY/LED./WOODEN RACE CARS/ANODE/SWITCHES	A	3 N	N C	
AMPLIFIED/MAXIMUM GAIN/ZENER DIODES/BACK-TO-BACK	A	1 N	N	
DEPRESSED/DIODES/RC./LOGIC/UNIQUE INPUT CODE	DA	1 N	N	
LED./PHOTOTRANSISTOR/3MHZ/PHOTODETECTOR/ISOLATION	A	6 N	N	
VOLTAGE-CONTROLLED ATTENUATOR/AUDIO/DIODE/RED LED.	A	4 N	N	
RF./THERMAL RUNAWAY/TEMPERATURE/LOW COST PNP	A	5 N	N	
10KHZ ABOVE CHANNELS 3, 11, & 19/BELOW/8 & 16	DA	1 N	N C	
HIGH Q/DEPTH/650KHZ/CAPACITOR/RF. INDUCTOR/LC.	A	3 N	N	
INTEGRATOR/FDMS/IONS/CAT/CRT./ELECTRON IMPACT (EI)	A	4 N	N	
SERIES RESONANT CCT/HIGH-Q SERIES CCT/LOSS	A	3 N	N	
RECTIFIERS/DIODE/LED./WATER/FREEZING/LATENT HEAT	AD	9 N	N C	E/12
EPRI/NMR./CARDIAC ACQUISITION SYSTEM/AMP./ADC.	A	8 N	N C	
SSR./LIGHT SENSOR/SWITCH	A	1 N	C	
MULTI TURN POT/CELL/CHARGE RATE/CHARGER/CURRENT	A	1 N	N C	46
FAST/TURBULENT FLOWS/SQUARE-WAVE TEST	A	5 N	N C	
AVALANCHE TIME/2ND-BREAKDOWN/ENERGY	A	5 N	C	
INVERT/GATE/4049/DTL./RTL./DRIVE/FANOUT/VOLTAGES	D	2 N	N C	
FREQUENCY DOMAIN/FT./GENERATOR/BASIC	DA	9 N	Y C	
OPTICAL COUPLING/FIBER/-3KV/ELECTRODES/TTL./LIGHT	AD	3 N	N C	
COMMUNICATIONS RECEIVERS/MISMATCHING/JFET./VSWR.	A	1 N	N	E
QUADRUPOLE MASS FILTER (QMF)/DOUBLE-FOCUSING	A	5 N	N C	
STABILITY/WITHIN 1%/CONSTANT OUTPUT FREQUENCY	A	1 N	N C	
OA./30MHZ/CRYSTAL/3RD OVERTONE/CMOS. INVERTERS	A	3 N	N	
SETI/RADIO ASTRONOMY/DISH ANTENNA/JUPITER/GALAXY	A	9 N	N	
YBCO/HIGH-TEMPERATURE/CRITICAL TEMPERATURE/LASER	A	5 N	N C	
HIGH-TEMPERATURE SUPERCONDUCTORS (HTSC'S)/YBCO	A	2 N	N C	39
BROWNOUTS/RELAY/SCR./TRANSFORMER	A	2 N		
CMOS. 2KX8/2000 SEPARATE READINGS	AD	6		
DIODE-SWITCHED CAPACITOR/PADDING	A	1 N		
CARRIER GENERATOR/SSB. TRANSMITTER/FILTER	A	3 N		

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RS-232C & TTL. COMPATIBLE INPUTS	AD	2			
SSI/2 STREAMS OF BINARY OR BCD. WORDS/DIGITAL	D	1	N	N	C
CW./RS-232/SERIAL PORT/MICROPHONE INPUT PLUGS	A	4	N	N	
PULSE/TRANSISTOR/ALUMINUM-FOIL PLATES/RELAY/JOLT	A	4	Y	N	C
PULSES OF SPEAKER-DESTROYING VOLTAGES/SCR./DELAY	A	3	Y	N	
INDOOR ANTENNA/HIGH-IMPEDANCE HEADPHONES/BC.	A	7	N	N	C
FF. NAND GATES/SHUTTERS/GATED/RECTANGULAR	DA	9	N	N	C 13
MEASURE/POWER CONSUMPTION/APPLIANCES/CYCLE/FUSE	A	3	N	N	C
CONDUCT OR BLOCK/FCC/TV. RECEIVERS/TV. SET/PS.	A	3	Y	N	
MOTOR UNITS/FOREARM/ACOUSTICAL/OSCILLOSCOPE/CRT.	A	2	N	N	
LIGHTS/FLASHING/TRANSISTOR/DECIMAL POINT/VALUES	A	4	Y	N	C
OUTPUT CODES/COMMON ANODE/TRANSISTORS	D	1	N	N	
CHARACTER GENERATION/DISPLAY CONTROLLER/VIDEO	DA	3	N	N	C
IR. EMITTER ARRAY/DIP. SWITCHES/RELAY/LOGIC DRIVER	A	3	N	N	
SLIDE/WATER/SIPHON/DIPPING/RAISING/PUMP	A	4	N	N	C
INDUCTANCE/CAPACITANCE/RF. CURRENT/COMMUNICATIONS	A	3	N	N	
MOUSE/KEYBOARD/DISC DRIVE/KEYBOARD/LOGIC	DA	2	N		
PCC PART 68 TYPE-APPROVED/VARISTOR/TRANSIENT/AUDIO	AD	6	N	N	C
HEATED GRID MASS FLOWMETER/SHUNT/SENSOR	A	8	N		C
LOAD/DIFFERENCE AMP./GUARD-DRIVE	A	6	N		C
FORMAT/OUTPUT/TRANSMITTING/CMOS./EPROM.S	AD	2	N		C
INTERFACING DIGITAL/REAL-WORLD/ISOLATION	DA	3	N		C
ALARM/MONITOR/4-TO-20MA/SIGNAL LOSS	AD	1	N		C
LIGHT/MISSING-PULSE DETECTOR/IRED./PHOTOGRAPHS	A	3	N	N	
DYNODE/CROSS-CORRELATION PHASE/ARGON ION	A	9	N		C E/42
HIGH NOISE GAIN/HIGH-SPEED-LIMITER/SCHOTTKY DIODES	A	2	N	N	C
DARLINGTON/DIVIDER/LOAD/MINIMUM CURRENT/OSCILLATOR	A	1	N	N	C
-120V BIAS SUPPLY/POWER/ECG	A	1	N	N	C
CMOS./SWITCH/DETECTION/~100V, 30HZ SIGNAL/MELODY	A	5	N	N	
N-P-N TRANSISTORS/ARRAYS/CAPACITORS CHARGE/DIODES	A	1	N	N	C
DETECTION/GAS OR FLUID/VIA./UP./PHOTODIODE OA.	AD	7	N	N	C
DISPLAY/FORWARD VOLTAGE DROP	A	1	N	N	C
ELECTRO-OPTICAL DEVICES/OPTOSWITCHES/LED./SCR.	DA	5	N	N	C
DISCHARGE/CAPACITOR/COIL/TIMING CYCLE/RESISTOR	A	1	N	N	
FET./28V/CURRENT LIMITING/PROTECTION	A	2	N		C
PRINTER BUFFER/NETWORK/EFFICIENT	AD	4			C
80 CHARACTER LINES/BW./TERMINAL	A	1	N		
ANTENNAS/FEED LINE/COAXIAL CABLE/REMOTE	A	3	N		
SWITCH/PENDULUM/SOLENOID/TRIGGER	A	1	N		C
IETS/BELL JAR/VACUUM/ALUMINA/METAL DEPOSITION	AD	9	N		C 42
TTL./MICROCOMPUTER/BASIC/NEURONAL/BRAIN	DA	9	N		C
PHOTOFLASH/SPARK PLUG/300-400V/FIRES/DISCHARGE	A	1	N	N	C
HARD COPY/HY TYPE I/GRAPHICS TABLET/SCHEMATIC	AD	9	N	Y	C
TRANSCONDUCTANCE/20MA-V/RC. INTEGRATOR/SHAPING	A	6	N	N	C
BASIC/OVERRAN/32-CHARACTER BUFFER/CLEAR-TO-SEND	D	1	N	N	
FINAL AMP./TRANSISTORS/TUBES/VHF./144MHZ	A	6	N	N	
POWER SWITCH/BATTERY/CHARGED/DISCHARGING/SUPPLY	A	1	N	N	C
MOD./IBM/LIFT OBJECTS/GRIPPER/REED RELAY/BASIC	DA	6	Y	Y	
HV. RECTIFIER/CAPACITANCE-LIKE/40MHZ/CAPACITOR	A	3	N	N	C

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AMP./RECORDER/DAC./AND/OR GATE/MONOSTABLE/HEAT	DA	2	N	N	C	
FULL-WAVE BRIDGE RECTIFIER/RADIO ANTENNA/AUDIO	A	5	N	N		
TRANSMIT/RECEIVE MODE/QRP RIG/SIGNALS	A	1	N	N		
TRIGGERING STIMULATORS/CHART RECORDERS/JFET.S/TTL.	DA	4	N	N		
CURRENT TO VOLTAGE CONVERTERS/OSCILLOSCOPE/SENSOFAD		6	N	N	C	
VISUAL/ILLUSION/FLIGHT/VCO./SHIFT REGISTER/STIMULI	DA	7	N	N	C	12
EM. NOISE/UP TO MANY HOURS/OSCILLATOR/RC./DIVISION	AD	2	N	N	C	
POSITIVE/NEGATIVE/SHAPED/PULSE FORMING NETWORK	A	5	N	N	C	
TRANSMITTER/ICOM 551/CABLE	A	1	N	N		
GERMANIUM TRANSISTORS/DIODES/DROP	AD	1	N			
RIG/RESISTIVE BRIDGE/TUNE-UP/MISMATCH/RF./TUNE	A	3	N	N		
LED./SHORT-CCT PROOF/SELF-CHARGING	A	3	N	N		
200V/UNITY GAIN/CURRENT LOOP MONITORING/RESISTANCE	A	3	N	N	C	E
DATA-ACCESS ARRANGEMENT/TELEPHONE/AUTODIAL/UART.	DA	9	N	Y	C	
GENERATED/CLOCKING/TRAIN OF PULSES/LARGE CHANGES	D	1	N	N		E
CURRENT IS AVERAGED BY DIODES/100MA METER/60HZ	A	1	N	N	C	
SWITCH/TEMPERATURE/THERMISTOR/GAME PORT/ENERGY	DA	3	N	Y		
DC. VOLTAGE ON THE LINE DROPS FROM ~50V TO 5V	A	1	N	N	C	46
INDICATOR/PIPETTE/BALL/FLOAT/TUBE/LOW COST/SIMPLE	A	3	N	N	C	25
AF./1MHZ/HIGH INPUT IMPEDANCE AMP./FET. PROBE	A	2	N	N	C	61
UP./PIERCE/OSCILLATOR/FM./RF. TRANSMITTER/RECEIVER	A	9	N	N	C	
DATA BUS/DVM./IO. PORT/WORD TRANSFER/COMPUTER	DA	4	N	N	C	
GC.-MS./MOTOROLA MEK 6800D2/MAGNETIC FIELD/PROM.	AD	5	N	N	C	91
FRINGE/INTERFEROMETER/120V PEAK/TRANSDUCER STACKS	A	2	N	N	C	
ANTENNA/COIL/WIRE/BC. BAND/SENSORS/CALIBRATION/FCC	A	2	N	N		
SCHEMATICS/MAGAZINE/EDITOR/INFORMATION/DRAWINGS	A	4	N	N	C	
DELAYS/DIODE/CONSTANT CURRENT SOURCE	AD	1	N		C	
PULSE-TRAIN DETECTOR/OUTPUT-PULSE/MOVIE	AD	9	N		C	
LINE SAMPLER/DUMMY LOAD/OSCILLOSCOPE	A	3	N			
COMPARATOR/FAST ATTACK/CMOS. OA.	A	1	N		C	
SINE-SQUARE-TRIANGLE/DIVIDER/+0.005%/20/100000HZ	DA	6	Y	N		
GERMANIUM DIODE/BATTERY PACK/TRANSMIT/H.T./ADAPTER	A	1	N	N		
DC./BIOFEEDBACK/OPTOLINK/MEASUREMENTS/LED.S/PS.	A	4	Y	N		
1KHZ TONE/MODULATED SIGNAL/DIGITAL OUTPUT	A	1	N	N		
FLAG SPEED/GAP/VELOCITY-MEASURING/TRANSIT TIME	AD	5	N	N	C	
MUSIC LANGUAGE/ALTAIR 8800/INTELLEC 8-MOD 80/KEYS	A	9	N	Y	C	
LPF.S/COMPARATOR/RING VOLTAGE/VOICE-MESSAGE	A	2	N	N	C	
SAWTOOTH GENERATORS/LINE RECEIVER/FAILURE RATES	DA	4	N	N	C	
DIODES/DISPLAY	A	1	N			
TRS-80/REAL WORLD/COMPUTER/SWITCHES	D	4	Y			
12 TO 14V DC./VFO./MEASURING/POWER/LOAD/RADIO	A	6	Y	N		
LOUD SNAP/LOAD CURRENT/Z5U CERAMIC CAPACITORS	AD	1	N	N	C	48
	A	1	N	N	C	
RF. ATTENUATOR/FILTER/RF. GATE/DIODE ISOLATOR	A	9	N	N	C	
CONTROL VOLTAGES/COMPOSITE AMP./BUFFERING	A	2	N	N	C	
CONTROL INPUT/CONTROLLED INPUT	A	2	N	N	C	
ENCODER/OSCILLATOR/SCANNING SPEED/HEX	DA	1	N		C	
VOLTAGE/CURRENT/VOLTMETER/AVALANCHE	A	2	N		C	
60MS/AIRCRAFT FLIGHT DATA MONITORING	A	1	N		C	

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TUNGSTEN WIRE/WIND-WATER TUNNELS/OCEAN	DA	4 N	C	
SYNCHRONISATION/WAVEFORMS/DAC.	AD	2 N		E
AMP.S/ISOLATION/RUNNING-LIGHT	A	1 N	C	
NOISELESS FEEDBACK AMP./DIPLEXER/PASSIVE MIXER	A	7 N	N	
VARISTOR/MOV./COMMUNICATIONS/COAXIAL TEE/RADIO	A	5 N	N C	
COAXIAL/METER/TRANSMISSION LINE/COIL/INDUCTANCE	A	7 N	N	
TERMINAL/MICROCOMPUTER/DATA/MARKING VOLTAGE/LINES	D	1 N	N C	
OA./SMALL RESISTOR/VERY HIGH CURRENTS/LR205/LOAD	A	1 N	N C	
MECHANISM/OPTICAL COUPLER/PRINTOUTS/RELAY/TRIAC	AD	1 N	N C	
AF./RF./LINEAR AMP./QRP/7MHZ CRYSTALS/VXO/SWITCH	A	5 Y	N	3
RF.-OSCILLATOR/TRANSISTORS/ELECTRET MICROPHONE	A	3 Y	N C	
POWER FET./OVERCURRENT/REGENERATIVE FAILURE	AD	2 N	N C	E
INDUCTANCE/HIGH-SPEED AMP./DELAY TIME/CURRENT	A	2 N	N C	
SIMULATED DATA MESSAGE/BIT ERROR RATE/8-BIT	D	1 N	N C	
2 BACK-TO-BACK DIODES/SMALL TRANSFORMER/LOAD/LAMP	A	2 N	N C	27
MONITOR/LED./PC./DIODE/STEPPER/MORSE CODE KEYBOARD	AD	3 N	Y C	
CONNECTION/RECTIFIER BRIDGE/SENSING/POWER/60HZ	A	1 N	N C	
ALARM/BUZZER/RELAY/POLARITY INDICATOR/CHECKER	A	3 N	N C	97
LINEARITY/RESISTORS/ZENER DIODES/LIGHT LEVELS/PS.	AD	5 N	N C	25
AUDIO CLAMP/TRANSISTOR/HW-16/TRANSCEIVER	A	1 N		
DESIGN EQUATIONS/HARTLEY/CLAPP/RESONANT TANK/DRAIN	A	5 N	N C	
DEMODULATOR/DECODER/PRINTER/RTTY.	A	2 N		
RELAY/SWEET TALK SPEECH SYNTHESIZER/DATA	DA	1 N		
SCHOTTKY/DYNAMIC RESISTANCE/FORWARD/DROP	A	4 N	C	E
DIODE/BASE-EMITTER BREAKDOWN VOLTAGE	AD	2 N	C	
IC-22A/RECEIVER/HYSTERESIS	A	1	C	
AVALANCHE/METER/GATE JUNCTION/BREAKDOWN/THYRISTOR	A	3 N	N C	
BUFFER AMP./COMPARATOR/COUNTER/ELECTRODE/RAT	AD	5 N	N C	
SLEW RATE/OPEN-LOOP GAIN/GAIN-BW. PRODUCT	A	4 N	N C	
KELVIN-VARLEY DIVIDER/SCR./TRANSISTOR/2KV AT 30MA	A	5 N	N C	
NICD. BATTERY/GERMANIUM DIODE/CHARGING	DA	2 N	N C	
T & PI NETWORKS/MATCHING/RF. POWER TRANSFER	A	4 N	N C	7
TOROIDAL CORE/AMMETER/SPLIT BEAD/RFI./CLAMP	A	2 N	N	
DIFFERENTIATOR/CAPACITORS, INDUCTORS & DIODES	A	5 N	N	
TELEPHONE LINES/AUDIO INPUT/LED.	A	1 N	N C	
TRANSISTOR/BASIC/KEYBOARD/DATA LINES/USER PORT/TV.	AD	3 N	Y	
FARADAY CUP/BEAM PROFILE MEASUREMENT/COLLIMATORS	A	5 N	N C	
RF./COMMON BASE DRIVE/TRANSISTOR/LC. TANK CCT/PZT.	A	6 N	N C	
THD./CMR./FEEDBACK/UNITY-GAIN/VOLTAGE FOLLOWER	A	4 N	N C	
SIMPLE/INEXPENSIVE/MINIMAL-PARTS-COUNT CCT/SWITCH	A	1 N	N C	33
CONSTANT CURENT GENERATOR/ISOLATION	A	4 N	C	42
LED./FREE-RUNNING OSCILLATOR/RESISTOR	A	1 N	C	42
GDO/METER/RF./FREQUENCY/TUNED/FOLLOWER	A	1 N		
PROCESS-CONTROL/PHOTO-SCR./COUPLING	A	1 N	C	
SPEED SENSOR/AC. LOADS/SWITCHING/POWER	A	1 N		
JFET./SIMPLE, STABLE/CW./TR. CONTROL	A	3 N		
GDO/INTERFEROMETER RADIO TELESCOPE/WAVELENGTH	A	1 N	N	
ELECTRIFIED/SHOCK		5	C	
PH METER/CONSTANT CURRENT SOURCE/PROGRAM	A	9 N	Y C	

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CONN/TONE GENERATOR/TAPPED COIL	A	1		C
MARK/COMPUTER/LOOP SUPPLY/TTL.	AD	3		
SCR./BRIDGE/SCHMITT TRIGGERS/MOTOR CONTROL/DRIVE	AD	7	N N	C
LED./TRANSIMPEDANCE AMP./COMMUNICATIONS	A	3	N N	C
LINKUP/ROBOT ARM/ELBOWJOINT/WRIST/FINGERS/RELAYS	D	4	Y Y	
INTERRUPT/UP./CONNECTION/PORT/SOFTWARE/ZN439/6500	DA	1	N N	C
TRANSISTORS/OPEN-COLLECTOR LOGIC/PORT/INTERFACING	DA	4	N N	
TOTEM-POLE/IO./DIGITALLY CONTROLLED/UP./LV./HV.	D	3	N N	C
MOSFET.S/IGFET.S/JFET.S/SOURCE/PINCH OFF/DEPLETION	A	4	N N	
STP/PHASE/AC. BIASING/DETECTION/RESISTANCE/LOCK-IN	A	5	N N	C
BOOLEAN ALGEBRA/AND/NOT/NOR/ADC./COMPUTERS/DATA	D	3	N N	C
CARAVAN/ADD-ON CCT/DRAWS ~50MA/2 DPDT. RELAYS/LED.	A	2	N N	57
ANALOGUE VOLTAGE PROPORTIONAL TO FREQUENCY/PULSE	D	2	N N	
VOLTAGE/CURRENT	DA	1	N N	
15V ZENER DIODE/PRIVATE CONVERSATIONS/AC. RING/DC.	A	3	N N	C
MODULATING COIL/COMPARATOR/RF./MAGNETIC FIELD/OA.S	A	4	N N	C 61
PREVENTING A SHORT CCT/TRIAC/BRAKING RECTIFIER	AD	2	N N	C
VARIABLE CAPACITANCE DIODES/BB104/RF. AMP./FM.	A	3	N Y	C
LOW IMPEDANCE/DIODE/TVI/TV. INTERFERENCE/RADIO	A	2	N N	C
RECTIFY/CONDUCTING/DIODE-JUNCTION VOLTAGE-DROP	A	1	N N	C
AT 9600 BAUD/COLLISION DETECTION/DATA/TRANSMISSION	DA	1	N N	C
CRYSTAL/RC./UP./BUFFER	D	4	N	
LED./INTENSITY-MODULATED SOURCE/BARRIER	A	1	N	C
SCR./LED./RESET/LOUD/SPEAKER/MICROPHONE	A	1	N	
"BRASS RACERS"/CONVERSION/PADDLE	A	4		
RF. MODULATOR/MEDELEC/ELECTRO-OCULOGRAM/ERG	AD	6	N Y	C
DARK/STRIPS/DRIVER/SAFETY/AUTOMOTIVE/LOCK DE-ICER	A	3	N N	C
HEADPHONE/CLAMP/MASK SWITCH-ON TRANSIENTS/DAMAGE	A	1	N N	C
MICRO INTERFACE/MICROCOMPUTER/PID./EOC./IO./PIA.	DA	7	N N	
PTT. LINE/DELAY TIME/MICROPHONE/DIALING	A	1	N N	C
LIGHT/SENSITIVITY/PIEZO/HIGH IMPEDANCE CCT/DELAY	A	1	N N	C
FEEDBACK LOOP/CABLE/AUDIO/CAPACITORS/IN PARALLEL	A	1	N N	
DAC./COUNTER/MONOSTABLE/COMPARATOR/SUBTRACTION	A	6	N N	C
OPTOELECTRONIC ISOLATORS/ZERO-CROSSING/RAM./UP.	AD	7	N N	C
MEASURES/TRANSDUCERS/STRAIN GAGE BRIDGES/RAM./ADC.	AD	4	N N	C
LEVEL/SENSOR & PUSHBUTTON CCT/STEPPER DRIVER/OA.S	AD	9	N N	C 42
KNIFE/LIFTER BELTS/PLANTS/DAMAGE/HEADS/GROWTH RATE	AD	6	N N	C
CAMERA/IMAGE TUBE/DEFLECTION/CHAMBER	A	9	N	C
COMMUNICATION/TAPE/READ-WRITE/MEMORY	D	5	N	
EXROM LINE/VPU./ROML/PROGRAM/ADDRESS/IO./BASIC	D	2	N Y	
RTTY./INTERFACE/CT2100/74LS74/ASCII./PRINTER	D	3	N N	
SYNC PULSE/SWEEP VOLTAGE/TUBED/RF./DETENT/IF.	A	7	N N	
CURRENT TRANSFORMER/VLSI./BIPOLAR/ON-RESISTANCE	A	9	N N	C
EQUALIZING RESISTORS/BALLASTED/CLASS-C/RELAY/GAIN	A	5	Y N	
RESISTOR/INDUCTOR/FUNCTION GENERATOR/OSCILLOSCOPE	A	3	N N	C
IO./COMMUNICATE/CONTROL	DA	2	N N	
RESISTORS/ALIGNMENT PROCEDURE/GATING/AGC.	A	1	N	C
SINGLE TRANSISTOR		1		
BUTLER COMMON BASE/TRANSISTOR/RESONANCE/STABILITY	A	9	N N	E

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COMMODORE 64 USER PORT/COMPUTER	DA	5		C	
MOTION/BASIC/THERMAL CONDUCTIVITY DETECTOR (TCD)	DA	9	N	Y	C 42
12 BITS OF PRECISION/1-F NOISE/FAST/PRECISE/ECL.	A	3	N	N	C
HOT IRON/AUTO-SHUT-DOWN/VMOS. "NAND" GATES/TRIAC	AD	3	Y	N	C
120VAC./REMOTE/PET-CBM/8/ISOLATED CHANNELS/TRIAC	DA	3	Y	Y	
MOSFET./BAUD-RATE GENERATOR/50%-DUTY-CYCLE PULSED	A	1	N	N	C
TRIAC DRIVER/MC6840 PROGRAMMABLE-TIMER/LAMP/SBS	AD	8	N	Y	C
MINICOMPUTER/HOST-PERIPHERAL/INTERFACE/DATA PACKET	D	6	N	N	C
LATCH/BUS TRANSCEIVER/INTERFACING/UP./IO./ADD-ON	D	6	N	N	C
COMPARATOR/FF./VCO./PLL./STRETCHER	DA	2	N		C
ROM./LATCHES/PORT/REGISTER/BANK-SELECT	D	1	N		C
SEMITONE/PHASE-LOCKED/OCTAVE DIVIDER	DA	1	N		
FULL BREAK-IN/LED. BARELY LIGHTS/SET FOR 6.4MW	AD	2	Y	N	C
120VAC. POWER/NON-INDUCTIVE APPLIANCES	A	3	N		
		1			C
20M BAUD/SCHOTTKY TTL./TOTEM-POLE DRIVER/LED./LDR.	DA	5	N	N	C
AT-CUT/SMALL/SMT./CMOS./TTL./COMPUTERS/SPEED/DIP.	AD	4	N	N	
HVEM/SCINTILLATOR/ENERGY LOSS SPECTROSCOPY/X-RAY	A	9	N	N	C 42
ADDED TO SIGNAL/OA./SNR./60DB/GROUND LOOPS/AUDIO	A	1	N	N	C
BANDPASS FILTER/KELVIN-THOMPSON BRIDGE	A	7	N		C
RECEPTION/WIRE/AM.-BC. BAND/UNTUNED/SIMPLE	A	2	N	N	C
SYNCHRONOUS DEMODULATOR/AMP./CAPACITOR/BUFFER	A	1	N	N	C
LOW NF./RECEIVER PERFORMANCE/ADJUSTING	A	4	N		
DISPERSION/BINARY SEQUENCE/ANTENNA	A	6	N	N	C
PHOTOMULTIPLIER/SLEW RATE OF 6000V-S/PULSES/BEAM	A	9	N	N	C E
PLL. DEMODULATOR/LED./MEDIUM-SPEED INPUTS	AD	1	N	N	C
COMPUTER INTERFACE/WATER/CARBON TETRACHLORIDE	A	2	N	N	C
COILS/WINDING/CAPACITOR CHIPS/DUMMY LOAD/HAM/VIDEO	A	8	Y	N	C
TC./FEEDBACK/SEALED/OUTDOOR SOLAR PANEL/REFERENCE	A	1	N	N	C
CHAOTIC SYSTEMS/4-QUADRANT/BUFFER OUTPUT AMP.S	A	9	N	N	C
FEEDBACK LOOP/PHASE SHIFT/BW. LIMIT/IMPEDANCE	A	9	N	N	C
VERSATILE/RAPID RECOVERY/FLUORESCENCE/LASER	A	2	N	N	C
TRANSMITTER/RECEIVER/PLL./VFC./DATA/CLOCK	DA	2	N		C
COMPARATOR/REFERENCE/LOW-DROPOUT/LINEAR	AD	5	N		C
TELEMETRY/CONDUCTIVITY & ELECTRIC FIELD/SENSOR	A	5	N	N	C 25
OPTICAL COMPARATOR/MEASURES THE DIAMETER/COMPUTER	AD	3	N	N	C
RF./CW./SSB./AM./RELAY/MATCHING/L-NETWORK/LOSS	A	7	N	N	
VFO./BUFFER/SWR. BRIDGE/QRP	A	3			
ELIMINATES TEMPERATURE EFFECTS/10V PEAK/2.5US WIDE	AD	9	N	N	C
PINCHES/CHANNEL OFF/SOURCE/DRAIN/HIGHER VOLTAGE	DA	1	N	N	C
BALUN/TOROID CORE/TTL. LOGIC GATE/RF. TRANSFORMER	AD	4	N	N	C
23 & 13CM BANDS/PRESCALER/ECL./CHARGE PUMP/MUX.	DA	5	N	N	
TLP609/GS601/BTS412A/UC5871/UC3720/L6217/MPD8020	AD	9	N	N	C
RADIO/PTT./AM./CONVERSION/VOLTAGE-TUNED/DIODE/FET.	A	3	Y	N	C
\$3/CARBON MICROPHONE/RECEIVER/SIMPLE/VARACTOR	A	1	N	N	
TRW/DARLINGTON/REFLECTANCE METER/MOISTURE/MINERS	A	4	N	N	C 39
INTEGRATOR-LOOP FILTER/PHASE-FREQUENCY DETECTOR	A	3	N	N	
FET. SWITCH/AMP.S/AVERAGING/CELL/HEATER LAMPS	AD	9	N	N	C
MEASUREMENT/-40 TO 85DEG C/CURRENT SOURCE/20MA	A	1	N	N	C 60

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FEEDBACK/EXTERNAL PNP TRANSISTOR/3.000V/BATTERY	A	2 N	N	C
OA./MIXER/PHASE METER/RATIO DVM.	A	8 N		C
LO./PROGRAMMABLE COUNTERS	DA	6 Y		
COMPENSATION WINDING/DC./PABX./VLSI./RESISTORS	A	5 N	N	C
TEMEPERATURE SENSORS/DUAL CURRENT SOURCE/FEEDBACK	A	5 N	N	C
HIGH RESOLUTION GRAPHICS/2KX2K SCREEN/WS BIPOLAR	AD	1 N	N	
LOW DISTORTION/AUDIO/SIMULATIONS/MODELS/LPF.	A	2 N	N	C
TRANSIENT TIP POTENTIALS (TTP'S)/SWITCHING/PULSES	A	9 N	N	C 12
TRANSFORMER/GAIN IS ~30DB/1.6 TO 35MHZ/RF. CHOKES	A	2 N	N	
VOICED I.D./REPEATERS/AUDIO/PROGRAM/ADDRESSES	AD	2 Y	Y	C
UNMARKED CAPACITOR/INDUCTOR/RECEIVER	A	4 Y		
PRECISION/ZENER DIODES/TC./BANDGAP/STABILITY	A	9 N	N	C
LOW-POWER/DIFFERENTIAL AMP./SELECTABLE-INPUT	AD	6 N	N	C
ANALOG MUX./CAPACITOR/1PA/GRIDS/POSITRON/TUNGSTEN	AD	3 N	N	C
PLASTIC NERVE CHAMBER/STYLUS/DIAPHRAGM/GARFISH	A	3 N	N	C
BAND-GAP VOLTAGE REFERENCE/GEA GEOMETRY/DARK-NOISIA	A	5 N	N	C
DRIVE/PICK-UP COIL/HYSTERESIS/SOLENOID	A	4 N		C
FLOODING/ELECTRODES/EMITTER FOLLOWER/CONDUCTANCE	A	1 N	N	C
SINUSOIDAL/NPN/GROUNDED-BASE/FEEDBACK/3RD-OVERTONE	A	1 N	N	
CAPACITOR/GATE & SOURCE VOLTAGES/AC./9V/BATTERY	A	1 N	N	C
ANALOG SIGNAL-LIMITING CCTS/CLAMP/MORE PRECISION	A	2 N	N	C
FET. INPUT OA./INPUT VOLTAGE PROTECTION/2 DIODES	AD	1 N	N	
PRECISION/P-I-N/NO CASCODE NOISE/GUARDS	A	6 N		C
AUTOMATIC ACCESSING/REFRESHING/TIMING	D	6 N		C
AUDIO OUTPUT/AMP./SPEAKER/3.12MHZ CRYSTAL	DA	1 N	N	C
2-WIRE TRANSMITTER/BOOSTING/PHOTODETECTOR/V-F	A	9 N	N	C
ADDING OFFSET/BOOTSTRAPPED VOLTAGE REFERENCE/OA.	A	5 N	N	C
ROM. & RAM./PORT/SERIAL COMMS BUS/RS232C/9600 BAUD	DA	1 N	N	C
JUMPER/PERIPHERAL PORT/CLOCK/16MHZ/LSI.	D	4 N		C
PHOTOTRANSISTOR/PHOTOAFFINITY/LASER/RECEPTOR	DA	9 N	N	C
NERVE BLOCKING/NERVE COOLING/RABBIT	A	9 N		C
IMPEDANCE/MODEL/INDUCTOR/CAPACITOR/EQUIVALENT CCT	A	7 N	N	C
RF./ID KEYSER/ANIMAL TRACKING/SLUG-TUNED COIL	AD	1 Y	N	C
TRIANGLE/RAMPS/<1HZ/LPF./XOR GATE/PHASE COMPARATOR	DA	1 N	N	C
XBT LAUNCHER/SENSORS/WATERS/SEA/THERMAL	A	6 N		C
CAPACITANCE/OPTICS/FEEDBACK/VMOS.	A	3		C
MANGANIN RESISTANCE/IEEE-488 BUS/PROBE/HEAT PULSE	AD	7 N	N	C
PENDULUM/TREASURE/TANK CCT/INDUCTOR/MAGNETIC FIELD	A	3 Y	N	C
PIEZOELECTRIC-BUZZER/PHOTODIODE/LIGHT-WAVE/OA.	A	5 N	N	
POLYVINYLIDENE FLUORIDE/HEAT SENSOR/OA./FIBERS	A	8 N	N	C
FEEDBACK/2.5:1 IMPROVEMENT/AMP. PHASE COMPENSATION	A	2 N	N	C
HIGH IMPEDANCE/FET.-INPUT/OA./ANODE	A	2 N		C
+/-1%/250 TO 350UH AT 796KHZ/CCT TUNING	A	2 N		C E
AMP./FANTASY BOX/4-TERMINAL RESISTOR NETWORK	AD	3 N	N	
SPEECH-PROCESSOR/ROM./AUDIBLE/WORD/TONE-DIALER	AD	2 N	N	C
COUNTER/GENERATES BINARY CODES/5-BIT DAC./DATA	DA	1 N	N	C
UNITY-GAIN/NONLINEAR/SLEW-LIMITING/RATE/RESPONSE	A	2 N	N	C
MID-RAPIDITY CALORIMETER (MIRAC)/EM./ADC./PHILLIPS	A	9 N	N	C
VARIABLE/DEMODULATED/ATOMIC FORCE MICROSCOPE (AFMAD)	A	9 N	N	C 25

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NOISE/GAIN/RLC. PARASITICS/FEEDBACK/BW./FAST/LOAD	A	9 N	N	C	
CURRENT MIRRORING/5KHZ/ERROR/BRANCHES/NO MOD.	A	5 N	N	C	
HIGH Q RECEIVING COIL/MATCHED/CABLE	AD	9 N	N	C	
STORE/TELEPHONE NUMBERS/MICROCONTROLLER/DSP./UART	AD	9 N	N	C	
MMIC./GAAS. TRIGGER CCT/DIVIDE-BY-2/NEC/RF./FF.	AD	5 N	N		
CONVERT A CURRENT SIGNAL TO AN OUTPUT VOLTAGE	A	7 N	N	C	
SHAFT-SLIDER POSITIONS/10KOHM/INVERTING AMP.	A	1 N	N	C	
SPEAKER/PROGRAMMED/MUSIC BOX/CAR/HORN	DA	3 N		C	
PLATINUM FILAMENT RESISTOR/HELIUM IN AIR	A	2 N		C	
PHOTODIODE SENSOR/LATCH-DECODER-DRIVER	AD	3 N		C	
RC/FORCES/PRESSURE/WEIGHT/SUSPENSION	A	3 N		C	
TRANSISTORS/CURRENT	A	1 N		C	
SPEAKER/RADIO/ELECTRET/MOBILE/DYNAMIC	A	2 N			
BATTERY OPERATED/TUNNEL/MAGNETIC-FIELD/I-V/SWEEP	A	3 N	N	C	
EXTERNAL RESET/BINARY/DECADE/ADDER	D	1 N		C	
DATA DISPLAY/ACQUISITION/CHEMICAL RELAXATION/TTL.	A	2 N	N	C	
RECEIVER/FERRITE-ROD/RADIOS AGC./SIGNALS/WINDINGS	A	6 Y	N	C	
COOLING/PHOTODIODE/FET.S/SCR.S/MAGNET	AD	5 N			
TUNED/PHASE-ANGLE/FEEDBACK/INDUCTIVE/CAPACITIVE	A	7 N	N	C	
CAPACITOR TEE/COMPOSITE AMP./NOISE REDUCTION	A	9 N	N	C	
SIMPLE/DYNAMIC ANALYSIS/GAIN AMP./EMF./NOISE/ROD	A	5 N	N		
SOLID STATE POTENTIOMETER/OA./CRYSTAL OSCILLATOR	AD	1 N	N		
PULSE TRANSFORMER/CARRIER/AGC. CCT/COMPARATOR/FF.	AD	1 N	N	C	39
RELAY DROPS OUT/DEPRESS THE PUSHBUTTON SWITCH	A	1 N	N	C	
BUFFER AMP./FOAMY LIQUID/WATER/RADIANT FLUX	A	5 N	N	C	
REFERENCE/VOLTAGE-CONTROLLED FLOATING RESISTOR	A	2 N	N	C	
AUDIO SUBCARRIER/AM./1200MHZ/PREEMPHASIS CCT	A	2 N	N	C	E
LFNM/BW. OF >7 DECADES/LF. ROLL-OFF OF 4MHZ	A	5 N	N	C	
HV./DPM./PS./2 OPTICAL ISOLATORS/NICD. BATTERIES	AD	2 N	N	C	
SHUTDOWN/UP TO 1A/FOR DRIVING PERIPHERAL LOADS	DA	1 N	N		
MICROSCOPE OPTICS/LIGHT/LASER BEAM/BIOLOGICAL CELL	AD	7 N	N	C	
BUFFERING LOW-LEVEL, HIGH-IMPEDANCE/TRANSDUCERS	A	2 N	N	C	
UNITY VOLTAGE-GAIN BUFFER/JFET. INPUT/60MHZ/18-BIT	A	1 N	N	C	
HIGH-SENSITIVITY/NEP./OPTICAL DETECTION/PMT.S/DVM.	A	9 N	N	C	
OSCILLOSCOPE/LDR./PHOTOTRANSISTORS/WATER	A	2 N			
COLD/FREEZING/WATER/TIME-TEMPERATURE INTEGRATOR	A	6 N	N		
RIBBON CABLE/CATHODE/BUS/DARK/TIMING/HIGH OR LOW	D	3 N	N		
HV./-1500V/BOOSTER/GAIN/DETECTION OF PHOTONS	A	9 N	N	C	
RECTIFIER/ABSOLUTE VALUE/FLOATING/SINGLE-SUPPLY	A	6 N	N	C	
OPTICAL/"SUB-GEIGER MODE"/ELECTRONS/BREAKDOWN	AD	9 N	N	C	42
VERY LOW DISTORTION/0.0003%/LOW NOISE/20MHZ	AD	2 N	N	C	
HIGH-SIDE-SWITCHING/TMOS./RELAY/CROWBAR/MOSFET.	AD	8 N	N	C	
MOVEMENT-COMPENSATED/BC./VIDEO/IMAGING/FIELD	AD	2 N	N	C	10
SWITCHING TRANSISTOR/POWER STAGE/FET./BENCHMARK	A	7 N	N		
DUT./FIXTURE/TRIQUINT SEMICONDUCTOR/GIGABIT/TDR.	DA	5 N	N	C	
AMP./BROADBAND TRANSFORMERS/FET.S	A	1 N		C	
FULL-WAVE/POWER CONDITIONING MODE CONTROLLER	A	9 N	N	C	
VIA. 6522/TIMER/T FF./WATER/PLANT GROWTH/PC.	AD	9 N	N	C	
TRACK/VCO./VARACTOR DIODE/FUNCTION-GENERATOR CHIP	A	9 N	N	C	

Sheet1

RF./HF./160W/DISSIPATION/14A DRAIN CURRENT/0.2OHM	A	2 N	N	C	
IMPEDANCE/RISE & FALL TIME OF 350PS/5KHZ/DC. BIAS	A	2 N	N	C	
IMPEDANCE OF 200OHM TO FET./12.5OHM LOAD/CONNECTED	A	1 N	N		53
OA.S/EXAR/10V REFERENCE/BLANKING/8038/555 TIMER	AD	4 N	N	C	
MEASUREMENT/DOSE RATE/BREAKDOWN/SATELLITE/MOSFET.	A	5 N	N	C	
DC. LEVEL/BIAS/ERROR/LEVEL CONTROL LINEAR	A	1 N	N	C	
LOW-CURRENT MEASUREMENTS/DIODE LEAKAGE	A	2 N		C	
MOVEMENT/CASTERS/PROGRAMMABLE/WHEELS/LEFT/RIGHT	DA	3 N	N	C	
1UA/LEAKAGE CURRENT WITH TEMPERATURE/CMOS./OA.	AD	1 N	N	C	
QUADRATURE DETECTION/LED./PHASE DIFFERENCE/PULSES	AD	1 N	N	C	27
DIGITAL FILTERING/SPEECH SYNTHESIS/WAVEFORM/RAM.	AD	6 N	N	C	
UHV./VALVE CHAMBER/PHOTODIODE/TARGET/1.7GHZ/FLUX	AD	9 N	N	C	
SWITCHED-MODE POWER AMP./POSITIONER/BACK EMF.	AD	9 N	N	C	
FAST ADC.S/PSD./TOFMS/96-ELEMENT METAL ANODE ARRAY	AD	9 N	N	C	
SAMPLE CELL/SCATTERED LIGHT/HELMHOLTZ RESONANCE	A	4 N	N	C	
V-F/I-F CONVERSION/CURRENT-TO-FREQUENCY	AD	2 N		C	
REPEATER IDER/TRANSMIT/TONE GENERATOR	DA	3 N		C	
TRANSLATE/0 TO 18V/INPUT CAPACITANCE/DISCHARGES	DA	1 N	N	C	
SHUNT DIODE/BLOW A FUSE/PS./15V ZENER/BATTERY	A	1 N	N	C	
SHUTDOWN/FAULT CONDITIONS/CONVERTER/CHOPPER	A	1 N	N		
PCM. LINE RECEIVER/POLE & ZERO/PHASE-SHIFT/T1	AD	1 N	N	C	
TELECOMMUNICATIONS-TERMINAL-PABX. INTERFACE/DTMF.	A	2 N	N	C	
OUTPUT IMPEDANCE/DUAL 1-SHOTS/LOW DISTORTION	AD	7 Y	N	C	
TIMER/INTRUDER/SENSOR/IR. ENERGY/ILLUMINATION	A	8 Y	N		
ADJUST THE VALUE/2 WOULD SIMULATE A DOUBLE-ENDED L	A	1 N	N	C	
DECOUPLING/BIASING/TRANSISTOR/CLASS C/AB	A	3 N			
CONDUCTING LOAD CURRENT/OPEN/COIL/TURN-ON BOUNCE	A	1 N	N	C	
1A/STANDBY CURRENT/COMPARATOR/HYSTERESIS/TURNS ON A	A	1 N	N	C	
DIP. SWITCH/TIME-BASE OSCILLATOR/8-STAGE COUNTER	DA	2 N	N	C	
BEAD/LEAD INDUCTANCE/PEAKS/60HZ/SWITCH/TRANSIENT	A	4 N	N		
BMFG/TTL./AMPFG/ABMFG/QUADRATURE COILS/PROBE	AD	9 N	N	C	
OA./FILTERING/SPIKES/KELVIN REFERENCE/HIGH-INRUSH	AD	5 N	N	C	
SUPPLY VOLTAGE/~1MW/TRANSISTOR/VOLTAGE FALLS/LIFE	A	1 N	N	C	
INTEGRATOR/COMPARATOR/OA./DECAY TIME	A	3 N			
BINARY COUNTER/RELAXATION OSCILLATOR	D	2 N		C	
COMPLEMENTARY BIPOLAR/INTERFACE/AUDIO	DA	4 N			
BYPASS IMPEDANCE/SERIES/GATE/SOURCE	A	1 N	N	C	
APD.S/PMT.S/MCP.S/DETECTOR	A	5 N	N	C	
HIGH-SIDE SWITCH/5W/WITH ONLY 20MW OF DRIVE	A	2 N	N	C	
LOW-COST/SRAM./INTERFACE/DOS./SUM/SPECTROSCOPY	D	9 N	N	C	
BARREL SHIFTER/MICROSEQUENCER/20MHZ	D	7 N		C	
BBC MICROCOMPUTER/HOST/RESET/FETCHING INSTRUCTIONS	D	2 N	N	C	
F-V MEASURING CCTS/LF./COUNTER/FET. SWITCH	AD	1 N	N		
GOLAY CELL DETECTOR/BLACK-BODY/THERMAL RADIATION	AD	4 N	N	C	
EXPANDED-SCALE/RESISTOR/LINEARIZE/3.5-DIGIT LCD.	AD	6 N	N	C	
CURE MONITOR/PHOTORESIST/SPECTROSCOPIC/NAND GATES	DA	9 N	Y	C	
CADENCE/FREQUENCY/DETECTORS/DIAL TONE/RINGING/BUSY	AD	6 N	N	C	
100-BAR/TIMER/OA./OPTOISOLATOR/5 TO 95% HUMIDITY	AD	2 N	N	C	
PHASE DETECTOR/1KHZ OSCILLATOR/CONSTANT CURRENT	A	4 N	N	C	

Sheet1

NUCLEAR/IONIZING/REMOVE POWER/HARDENED/EMP./BLAST	AD	7	N	N	C	
64K-BYTE/MICROCONTROLLER/MEMORY-MAPPED/DIP. SWITCH	D	1	N	N	C	
CONTROL SYSTEM/OPTIMIZE/POWER FLOW/SWITCHING	AD	6	N	N	C	
INTERRUPT/IRQ2/IO. PORT/IO. ADDRESS: 330H-33FH	D	1	N	N		
COMMUNICATIONS/MODEM/SWITCHED/MICROCONTROLLER	DA	5	N	N		
100DB DYNAMIC RANGE/PRE-BIAS CCT/V TO I CONVERTER	A	1	N	N	C	
0.1% ACCURACY/10 TO 28V/OVERCURRENT-SENSING/PMOS.	A	2	N	N	C	
12 BIT/ELECTROLYSIS/CRYSTALS/IONS/MEASUREMENT	AD	9	N	N	C	12
POWER LOSS/DATA RETENTION/SRAM./WRITE-PROTECT	AD	7	N	N		
PRIMARY-COIL CURRENT/ADJUSTED AUTOMATICALLY/SPARK	A	1	N	N	C	
LIGHT SENSITIVE/EXCITATION PULSE/LASER/OPTICAL	A	2	N	N	C	
DATA TRANSFER/REMOTE COMPUTER/CMOS./MUX.ED BCD.	DA	3	N	N	C	
DISSIPATION/HEATSINKS/DRIVER CCT/IDLE CURRENT/~1A	A	2	Y	N		37
CODE/KEYBOARD/CONVENIENCE TIME-DELAY	D	3	N		C	
DATA/DIFFERENCE/ABSOLUTE/PLL./IC/TTL.	D	6	N		C	
UART./ADC./UP.	DA	5	N		C	
HAMAMATSU/ALPHA PARTICLES/PROTONS/CHARGE-SENSITIVE	A	5	N	N	C	
STORING/LED./INEXPENSIVE/HIGH INPUT IMPEDANCE	D	1	N	N	C	
ELIMINATING BATTERY DRAIN/MOSFET./PULSES/INDUCTIVE	A	1	N	N	C	E
FLIPPER/FOOD/TANK/REFILL DETECTOR/PHOTOTRANSISTOR	AD	5	N	N	C	
RF./"GRID-LEAK"/"DETECTOR"/COIL FORMS/ANTENNA	A	8	N	N	C	
6809 CPU./DATA/E CLOCK/MEMORY-MAPPED/ADDRESS BUS	DA	3	N	Y		3
FIBER OPTIC/HIGH-SPEED, DATA-COMMUNICATIONS	DA	3	N	N	C	
CRYSTAL-CONTROLLED/OA./SCR./4-BIT BINARY/1-OF-16	AD	3	Y	N	C	
COUNTER DIVIDER/RS-232 SERIAL LINE/UART./CLOCK	DA	1	N	N	C	
DATA-LOGGING/DC. OUTPUT	A	1	N		C	
INTERRUPT SERVICE ROUTINE (ISR)/FM./PROGRAM/ROM.	D	2	N	Y	C	
TRANSMITTING DATA/SERIAL/UART./TWISTED PAIR/BUFFER	DA	1	N	N	C	
SUBMICRON ASIC./LOADING/TIMING EQUATIONS/RAPIDSIM	D	5	N	Y		
3.5 DIGIT/LCD./TELEDYNE SEMICONDUCTOR/48KHZ	AD	1	N	N	C	
NRZ.-INVERTED/MULTICHANNEL DIGITAL-DATA RECORDINGS	D	1	N	N	C	
DATA TRANSFER/OPTOCOUPLED AMP.S	A	5	N		C	
62400RPM./RATIOMETRIC/LATCHED PARALLEL/WORDS	AD	1	N	N		
NEGATIVE/EVEN/RS-170/1-SHOT/FF.S/FRAME/LINES	D	2	N	N	C	
ACTIVE/JFET./CMOS./BIPOLAR/GAAS./SPEED/GAIN/NOISE	A	9	N	N	C	
7-SEGMENT/FREES/PARALLEL PORTS/6502 UP./INTERFACE	D	2	N	Y	C	
OPTICAL/HIGH SPEED COMPARATOR/POLARIZERS/V-MOSFET.	A	5	N	N	C	
POINT-TO-POINT COMMUNICATIONS/COMPUTERS/34M BPS	D	1	N	N	C	
LEAKY INTEGRATOR/BETTER THAN 1DEG/LIGHT/CODEWHEEL	DA	3	N	N	C	
UP./DIGITAL BUS INTERFACE/DATA	D	1	N		C	
VIDEO AMP./TV. SYNCH. PULSES/COMPOSITE VIDEO	AD	9	N	N	C	
RC./SWITCHED-CAPACITOR/SAMPLED-DATA SYSTEM/CMOS.	AD	3	N	N	C	
HANDLE EXTRA HOUSEKEEPING/SELECT/MEMORY BANK	D	4	N	N	C	
CLEANING/LUBRICATION/PLAY/FAST-FORWARD/REWIND	A	6	N	N	C	
CHAOTIC/SIMPLE CCT/STRANGE/TRAJECTORY/COMPUTER	A	9	N	N	C	
MICROCONTROLLER/UP./PLL./PRESCALERS/DMD/VHF.	AD	7	N	N	C	
HEARTBEAT SENSOR/ELECTRODE/DEMAND PACING/ECG./PUT	AD	7	N	N	C	
TTL. GATE ON/CURRENT CONTROL/NMR./MOSFET.-DRIVEN	AD	4	N	N	C	
LED./LOADING/MUSIC/LOUDSPEAKER/WINDOW COMPARATOR	A	1	N	N	C	

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DC.-DC. CONVERTER/CURRENT LOOP/TRANSMITTER	A	4 N	C	
1-BIT CCT/CLOCK SIGNAL/HIGH-SPEED/GATES	D	1 N	C	
FLUX DENSITY/LARMOR/RF./MARGINAL OSCILLATOR/PFD	AD	2 N N	C E	
DIRTY CONTACTS/TROUBLESHOOT/REPAIR/HIGH-WATTAGE	A	6 N N	C	
CPU./OUTPUT PORT/8-LINE TO 3-LINE PRIORITY ENCODER	D	1 N N	C	
DYNA ST-416/DECOUPLING/OUTPUT STAGE/MOD.S/GROUND	A	2 N N		
OUTPUT COIL/FEEDBACK CAPACITANCE/BIAS ADJUSTMENT	A	1 N N		
TIMING VERIFICATION/PROPAGATION/DATA DELAY/PULSE	D	5 N N	C	
DURATION/PITCH COUNTER/PIEZOELECTRIC/511 PITCHES	DA	3 N N		
POWER-DOWN SEQUENCE/RESET/SLEEP MODE/PULSE TRAIN	DA	1 N N	C	
ROBOTICS/CMOS. UP.	D	2	C	
EIA. REGISTER/UP.-BASED COMPUTER/MULTI-USER/RAM.	D	7 N N		
RADIATION MEASURING/NON-RANDOMNESS/PULSE TRAINS	D	5 N N	C	
MICROSTRIP TRANSMISSION LINE/VGA/PCB.S/UP./33MHZ	AD	9 Y N	C	
90% EFFICIENCY/PS./VARIABLE OUTPUT VOLTAGE/RFI.	A	5 N N	C	
CASCADE FRONT END/90W-CHANNEL INTO 4OHM/~\$100	A	8 Y N		
INTENSITY/SENSING/CURRENT-TO-FREQUENCY/PULSE TRAIN	AD	2 N N	C 60	
SAMPLING/DYNAMIC RANGE OF 72DB/DMA.	DA	5 N	C	
ADDER/INTERMEDIATE SUM/CARRY/DELAY TIMES	D	9 N	C	
MODULO-N COUNTER/TRIGGERS/ALARM/FF./1-SHOT	D	1 N N	C	
ISOLATION AMP./SYNCHRONOUS/ANALOG/NOISE LEVELS	A	4 N ?	C	
PHOTO OPTICAL CABLE/BIT ERROR RATE (BER)/VCO./PLL.	AD	4 N N	44	
COAXIAL CABLE/UHF./480MHZ/ANTENNA/RF. TRANSISTOR	A	2 N N	C	
STEP SIGNAL/ENCODER/OPTO ISOLATOR/FFT./FTIR/LIGHT	AD	4 N N	C	
CPU./UP./IMPROPER INSTRUCTION SEQUENCE EXECUTION	D	1 N N		
INDUCTORS/CAPACITORS/PIECEWISE-LINEAR/ENERGY/OA.	A	8 N N	C	
RADIO SHACK/AMATEUR RADIO/COMMUNICATIONS/SPEAKER	DA	3 N N	C	
WAVE/NOISE TEMPERATURE IS 69 MK		5	C	
FEEDBACK/SWITCH/SUPPRESS/PEAKS/CAPACITOR/DISCHARGE		1 N N		
AUTOMATICALLY/MANUAL RESET/PUSHBUTTON/350MS DELAY	DA	1 N N	C	
200KHZ GAIN-BW. PRODUCT/0.07V-USEC SLEW RATE	A	1 N N	C 10	
POWER TRANSISTOR/BIFILAR/WINDINGS/MAGNETIC FIELD	DA	5 Y Y	C	
VDR/ZERO/MAINS/SWITCHING/INTERFERENCE	A	1 N	C	
MICROCOMPUTERS/AUTOMOBILE HEADLAMPS/MOSFET./CMOS	AD	8 N N	C 42	
2% ACCURACY/5 TO 90% RH./SUMMING JUNCTION/FEEDBACK	A	1 N N	C	
DTMF./SATELLITES/PROM./DECODER/COMMERCIALS	DA	3 N		
MAGNETIC FIELD/SNAP-ACTION/MEASUREMENTS/LNA.S	AD	6 N N	C	
FET.-INPUT/BW. & SLEW RATE/BIAS CURRENT/ACCURACY	A	5 N N	C	
IONIZATION/ANODE/CATHODE/HIGH-INTENSITY/LIGHT	A	2 N N	C	
SLEW RATE/MACROMODELS/JFET./SPICE/EQUALIZATION	A	9 N N	C	
SWITCHING REGULATOR/COMPARATOR/IMPEDANCE DROPS	A	1 N N	C	
AVALANCHE TRANSISTORS/PIN PHOTODIODE	A	4 N	C	
TRIMMING RESISTIVE RF. COMPONENTS/LINEAR/PRECISION	AD	2 N N	C	
OFFSET CURRENT IS 250PA MAX/VOLTAGE NOISE IS 0.6UV	A	1 N N	C	
SILICON/SYSTEMS/TRANSDUCER FED MEASUREMENT	A	1 N N	24	
IA./SWITCHING REGULATOR/VOLTAGE/CALIBRATION	AD	2 N N	C	
SERVO/GALVANICALLY ISOLATED/PROGRAMMING RESISTORS	A	1 N N	C	
PIEZOELECTRIC/VARIABLE-CAPACITANCE/LIQUID/LIGHT	AD	8 N N	C	
RESTARTS/DOESN'T RESUME/RECHARGED/DROPOUT DETECT	CA	1 N N	C	

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VERY SMALL DELAYS/OSCILLOSCOPES & PROBES/TTL.	AD	9 N	N	C	
BATTERIES/ANY 10MA CURRENT COMBINATION/REGULATION	A	1 N	N	C	
CPU./74F543/BUS/COMPUTER/ACCELERATE/CALCULATIONS	D	7 N	N	C	
2'S-COMPLEMENT COMPUTATIONS/UPLINK/ERRORS/LSI.	D	7 N	N	C	
ANALOG/VOLTAGE SOURCES/DIFFERENTIAL VOLTAGE/POWER	A	3 N	N	C	
5V REFERENCE/PULSE TRANSFORMER/SCR./RC./LOOP	AD	5 N	N	C	
FULLY ON/OFF/SET POINT/OSCILLATOR/RC./CMOS.	AD	2 N	N	C	
POWER TRANSISTOR/LAMP/SATURATED/PHOTO CELL/LDR.	A	3 N	N		
HIGH-ACCURACY/8-PIN DIP./CMRR./OA./GUARD DRIVERS	A	7 N	N	C	
FREQUENCY-CORRECTING BIAS/COLPITTS/REGULATOR	A	2 N	N	C	
1MM-THICK COPPER PLATE/5W RESISTOR/HEAT SOURCE	A	1 N	N	C	AI
WITHIN 5%/MUST NOT OVERSHOOT/PULSE-FORMING CCT	AD	2 N	N	C	
SENSOR/DATA ACQUISITION/CONTROL/RTD.S	A	6 N		C	
ECHO CANCELLATION/ST-BUS/CROSSPOINT SWITCHES	D	6 N	N	C	
PULSE GENERATOR/SPECTROMETRY/EXCITATION SOURCES	A	7 N	N	C	
GATED/17KHZ OSCILLATOR/212MV REFERENCE/BUCK/BOOST	A	2 N	N	C	10
LAMP/RELAY/SATURATED	A	3 N			
CONDUCTIVE LIQUID/VIAL/RESISTANCE/+ -30DEG	A	1 N	N	C	
TOROIDAL CURRENT TRANSFORMER/PWM.-CONVERTER/DIODEA		1 N	N	C	
TYPE K THERMOCOUPLE/SPEED OF SOUND/ADC./CURRENT	AD	8 N	N	C	
TRIP TIME IS VERY SMALL/MONOSHOT/SWITCH	AD	1 N			
OP41/HIGH PERFORMANCE/OA.	A	3			
AUTOZEROING CCT/HV. REGULATOR/STRAIN-GAUGE/OA.	AD	9 N	N	C	
0V ZENER DIODE/NAUSEATING/GAG A MAGGOT/TERRIBLE	A	1 N	N	C	48
SPRAY/CHARGE-MASS RATIO/HIGH-SPEED/CAMERA/60KVDC.	A	7 N	N	C	
PROGRAMMABLE/NOISE MEASUREMENT/>50W/CHOPPER/SERVA		3 N	N	C	
256-ELEMENT, LINE-SCAN/UP. BUS/JFET.-INPUT OA.	AD	5 N	N	C	
VIDEO DAC.S/RAM./PCM1750 18-BIT ADC./BLACK-&-WHITE	AD	5 N	N	C	57
LOW-DROPOUT VOLTAGE/TERMPWR/220-330OHM/BUS/CABLINGAD		7 N	N	C	
PHOTODIODES/JUMPER-SELECTABLE GAINS OF 100 & 10	A	2 N	N	C	
LTC/HARRIS/MAXIM/DC.-DC. CONVERTERS/HV. IC'S/PS.S	A	9 N	N	C	
MEMORY/DAC.S/INTERFACING	DA	5 N		C	
REMOTE SETTING OF DELAY TIME/SAMPLES	D	5 N		C	
5V CMOS. LOGIC/OUTPUT	DA	1			
HOST CPU./5MFLOPS/MEMORY/COMPUTER/WHETSTONES-S	D	5 N	Y	C	
CLAMPING FET./SINGING/INDUCTIVE CURRENTS/THERMAL	A	9 N	N	C	
WIRELESS WORLD (C) 1947 ILIFFE TECHNICAL BOOKS	A	1 N	N		
LOW NOISE/1 PPM-YEAR/VOLTAGE TRANSFER STANDARD	A	4 N	N	C	
PROBE/ALARM/FIRE & SMOKE/LED.S/CONDUCTIVITY/SENSOR	A	1 N	N	C	
VOLTAGE STANDARD/OA./THERMAL EMF.S/VERY LOW NOISE	A	4 N	N	C	
PS./MOSFET.S/BOOST MODE/VOLTAGE/DC.-DC. CONVERTER	A	5 N	N	C	
SEPARATE CONTROL/RANGE SPAN & THE CURRENT OFFSET	A	5 N	N	C	
HIGH-SIDE SWITCHES/MICROPOWER/5V LOGIC SIGNALS	AD	2 N	N	C	
INSTRUMENTATION/DATA CONVERSION/CMRR. OF 114DB	A	1 N	N		
LINE DRIVERS & RECEIVERS/EIA.-232-D/COMPUTER/IBM	DA	4 N	N	C	
DETECT/TRANSMISSION/PHOTODETECTOR/ACCURACY OF 0.1%AD		2 N	N	C	
SMITH CHART/IMPEDANCE/CASCADE NF.S/PC./RECEIVER	A	4 N	Y		
RESISTORS & CHOPPER AMP.S/DUAL OA./GAIN/10 OR 100	A	3 N	N		
ZENER DIODE/LOW ESR. CAPACITORS/RC. DAMPER/-5V	A	1 N	N	C	

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ON DRAIN-TO-SOURCE RESISTANCE (R _{DS(ON)})/12 BITS	AD	1 N	N	C	
VCR./TV.MONITOR/OPTICAL FIBER/RHEED/COMPUTER	A	2 N	N	C	
2 OSCILLATORS/UJT.S	A	1 N		C	42
SUM OF BATTERY VOLTAGE & SWITCHER OUTPUT/DIODES	A	9 N	N		
CRT. DRIVERS/CLOCK OSCILLATOR/TRANSISTORS	A	4 N		C	
ECHO/BURST/TRANSDUCER/SONAR-DEPTH SOUNDER/1-CHIP	AD	4 N	N	C	
POWER LINES/FULL-LOAD PF./IMES	A	6 N		C	
P/T/LECROY/VOLTAGE COMPARATOR/THRESHOLD/FAST	AD	5 N	N	C	
DRIVER CHIPS/COLUMN/ROW/LINES/64 OUTPUTS	D	6 N		C	
DIELECTRIC/RF./TUNED CCT/SEMICONDUCTOR/ELECTRONS	A	3 N	N		
EXTENSION/IR./DATA CODING/TRANSMISSION/MODULATION	D	5 N	N		
PROGRAMMABLE FREQUENCY GENERATORS (PFG'S)/PLL.	A	6 N	N	C	
LASER DYES/HEAD/FLP/CYCLOOCTETRAENE (COT)/DCM-OH	A	5 N	N	C	12
NONLINEAR CAPACITOR/BIFURCATE/ATTRACTOR/POINCARÉ	A	6 N	N	C	
CURRENT-SWITCHING/VOLTAGE SOURCE/SUMMING/LOAD	AD	2 N	N	C	
TV./VIDEO/RF./<\$225/VOLTAGE REGULATOR/MICROSTRIP	A	3 Y	N	C	
DUT./HIGH POWER/MOSFET. SWITCHES/REPETITIVE/1-SHOT	A	9 N	N	C	
60HZ/BEAM/MIRROR/ARC LAMP/RECORDING/LENS/IMAGE	A	7 N	N	C	
INTERFEROMETER/LENSES/ADJUSTABLE PLATES	A	4 N	N	C	
ADDRESS/OA./FEWER COMPONENTS/TOTAL OFFSET IS 100UV	AD	1 N	N	C	E
PWM./DC.-MOTOR CONTROLLER/MOSFET.S/TRANSFORMERS	AD	2 N	N	C	
ETHERNETS TALK/TOKEN-BUS BASEBAND/LSI./PACKETS	D	8 N	N	C	
BIPOLAR/MOS./INTERFACE/LOGIC/ADDRESS MUX./ISL	D	2 N	N	C	
FASTBUS/RAM. LOOKUP TABLES/CENTRAL DRIFT CHAMBER	A	7 N	N	C	
ECL.-BASED/UART.S/DMA./HIGH-SPEED IO.	D	8		C	
HOST COMPUTER/CONTROL STORE MEMORY/SRAM./DATA	D	7 N	Y		42
400MHZ/SINGLE-BEAM/CONTROL SWITCH/0.7NS/GATING	A	4 N	N	C	
IGBT. SWITCH/HV./INTERFACE/DRIVER/IXYS/LAN./CMOS.	AD	5 N	N	C	
INTERPRETER/IO. PORTS/REAL TIME MICROCOMPUTER/CPU.	DA	5 N	N		
IO. PORTS/INTERPRETER/INTERFACE VECTOR (IV) BUS	DA	7 N	N	C	AV
16 8-BIT IO. PORTS/HIGH-SPEED IO./DATAWAY/LAM	D	8 N	N	C	25/61
DIGITALLY ADJUSTABLE/CONTROLLING UP./INVERTER	AD	1 N	N	C	
REFERENCE/RESOLUTION OF 20MV-LSB./HIGH-CURRENT/UP.	AD	1 N	N		
MODULATION/ANTENNA VSWR./OSCILLATOR/BUFFER AMP.	A	8 N	N	C	
8-BIT IO. PORTS/8-CHANNEL MUX.	D	1 N		C	
MEMORY/FF./QUADRATURE DECODER/PAL./STATE MACHINES	D	2 N	N	C	
COMMUNICATION/RS-232/TTL./TELETYPE/ASCII./DATA	DA	4 N	N	C	25/61
RS-232C/SWITCHES/PERIPHERAL/DATA RATE GENERATOR	D	9 N	N	C	
LSI./SCORING/5 SINGLE-PLAYER/5 DUAL-PLAYER/SWITCH	AD	5 Y	N	C	
COMPUTER-CONTROLLED LIGHT MICROSCOPE/POSITIONING	DA	9 N	N	C	
CHARGE STORED/ELECTRODES/CONDUCTS/LIGHT/CORONA	A	6 N	N	C	
SERIAL IN/ANALOG OUTPUTS/11 BITS/TONES	DA	2 N	N	C	46
PERIPHERAL/RS232C PORTS/TTL. SERIAL/INPUT/OUTPUT	DA	2 N	N		
FIFO. BUFFER/TIMING/ARBITRATION/1KX8-BIT/ADDRESS	D	8 N	N	C	
POSITIVE/NEGATIVE/FIELD CURRENT/BATTERY	A	1 N			
LOW-PASS/ANTI-ALIASING FILTER/COMMUNICATION/SIGNAL	AD	7 Y	N	C	
PERFORMANCE/LCD.	DA	4 N		C	42
NOISES/RANDOM ARRAY OF PULSES/TRIAC	DA	4 Y		C	
SQUARE WAVE/FINGERTIP/SNOOZE ALARM/CLOCK CHIP	DA	1 N	N		

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ASCII. TERMINAL/COMMUNICATION/RELAY/AUTOMATIC/UP.	AD	4 N	N	C	3
WIRELESS DOORBELL/BODY CAPACITANCE/WIRE	DA	2 N		C	
DBM.S/VHF.-UHF./RECONSTRUCTION FILTERS/MATCHING	AD	8 N	Y	C	
COMPARATOR/RAM.S/FASTBUS/SHAPER CCT/SAMPLING TIME	DA	7 N	N	C	
YELLOW-ORANGE/PREAMP./SINGLE BEAM/ABSORPTION	AD	3 N	N	C	25
X100 LF. PRE-SCALER/FREQUENCY SYNTHESIZER/OA.	AD	4 N	N	C	
HORIZONTAL TIMEBASE GENERATOR/IO./SHIFT REGISTER	D	6 N	N		
CMOS. QUAD 2-INPUT NAND SCHMITT TRIGGER/PADDLE	DA	2 Y	N	C	
SCHMITT TRIGGER/OPTOISOLATOR-COUPLER TRIAC DRIVER	AD	4 N	N	C	
TELEPHONE/SUBSCRIBER INTERFACE/LOGIC/SWITCHING	D	9 N	N	C	
SENSOR PLATE/PHOTOTRANSISTOR/EXPOSURE	DA	4 Y			
CAR INTERIOR LIGHTS/PARKING/LOCKING	DA	3			
		2		C	
AUDIO/BINARY/DOORBELL/ALARM/BUFFER/PITCH/GATES	DA	1 N	N	C	
30-STAGE FEEDBACK SHIFT REGISTER/OA./DELAY LINE	DA	7 N	N	C	
NOISE/APPLAUSE/TRIGGER/MONOSTABLE VIBRATOR/AMP.	DA	1 N	N		
6 SCHMITT TRIGGERS/APPLIANCE/FET./TOUCH KEY	DA	1 N	N		
MARGINAL OSCILLATOR TANK CCT/RF. ELECTRIC FIELD	A	3 N	N	C	
COMPUTER/READ-WRITE LINES/BATTERY/DATA	DA	1 N			E
Q SWITCHING/POCKELS CELL/INTERFEROMETER/JET FLOW	A	6 N	N	C	
DRY CELL/LOAD CURRENT		3			
220-330OHM TERMINATION/TRANSCIEVER/IBM PC.-AT/RAM.	D	6 N	N	C	
20 CLOCK SIGNALS/MASTER CLOCK/18DEG	D	2 N		C	
BIT STREAMS/COMMUNICATION/RS-232 DATA TRANSFER	D	6 N	N		
UP.-BASED/MULTIPLIER/BINARY	D	2 N		C	
N-CHANNEL/TURN-ON DELAY/FAST INVERTER/SOLID-STATE	DA	1 N	N	C	
80-TRACK/96 TPI/DUAL MONOSTABLE MULTIVIBRATOR	D	2 N	N		3
DATA/Common-CATHODE/STATES/LOGIC PULSER/CLOCK	D	2 N	N	C	
UP. (CPU.)/IO. MEMORY MAP/BASIC/PORTS/EXPANSION	D	6 N	Y		26
ACCURATELY/CRYSTAL-CONTROLLED FREQUENCY/LED.	DA	3 Y	N		
COUNTERS/SPEED/AC. MOTORS/FREQUENCY VARIATION	AD	7 N	N	C	
ANIMALS/DATA COLLECTION/POSITIONS/COUNTER/DECODER	DA	8 N	N	C	
HOST COMPUTER/LATCH/ADDRESS COUNTER/DAC./BUS/ADC.	DA	7 N	N	C	
VARIABLE IN AMPLITUDE/STABLE/250HZ/THYRISTOR STACK	AD	3 N	N	C	
SISO/PIPO/PISO/SHIFTING/BCD.-BINARY	D	3 N			
PRESETTABLE DIVIDE-BY-N COUNTER	D	2		C	
GAIN OF 1000/POSTAMP./CURRENT-TO-VOLTAGE CONVERTER	AD	7 N	N	C	
MEASURES/4 RANGES UP TO 10MHZ/SWITCHING/DIVIDERS	DA	3 N	N	C	
AUDIBLE TONE/EXCLUSIVE-OR/NAND GATE/BEEP/ALARMS	D	2 N	N		
50HZ TO ~7KHZ	A	1 N			
BCD. INPUTS/BINARY/DECODER/DRIVER	D	5		C	
SHIFT REGISTER/READ AFTER WRITE, COMPARE/RAM.	DA	1 N	N	C	
DIVIDES THE CLOCK FREQUENCY/CLEARs/COUNTED DOWN	D	2 N	N	C	
PHASE SHIFT/6 FF.S/STATE TABLE/EDGE/WAVEFORM/50MHZ	D	2 N	N	C	
FEEDBACK/EXCLUSIVE-OR/TRIGGERS/N+0.5	D	1 N	N	C	
LOW-POWER/PASS/BRIDGE RECTIFIER	A	3 Y			
VIA.WATER TEMPERATURE/CONDUCTIVITY/CCT PROTECTION	DA	9 N	N	C	
APPLE II/PHYSICALLY/MOUTH-OPERATED/EPROM./VIA.	D	9 N	N	C	
PC./PROGRAMMABLE/NODE	DA	6 N		C	

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DATA/UP./MICROCOMPUTER	D	9 N	C	
PAGING/SENSE SWITCH/INTERRUPT CONTROLLER/DOS./IO.	D	5 N	N C	
MEASUREMENT/TEST SIGNAL GENERATOR/NSB/REDUCTION	A	5 N	N C	
LDR.S/PHOTOSENSITIVE/OSCAR/TV./DECODERS/CAMERA	AD	8 Y	N C	
TRIP THRESHOLD/PREREGULATOR/TIMER/EDGE-SENSITIVE	A	1 N	N C	
CRT. CONTROLLER (CRTIC)/VIDEO PAL./DRAM./EPROM.	DA	9 N	N C	42
555 CCTS		3		
TIMER/LED.S	DA	2 N		
OSCILLATOR/FREQUENCY/CONTROL		1		
BRIDGE POTENTIOSTAT/ELECTROCHEMISTRY/SATURATION	A	2 N	N	
AUDIO/TONES/NOISE/EXPLOSIONS/REGISTER/SYNTHESIZER	AD	9 N	Y C	
PARALLEL-PROCESSING/RAM-DISK/SCHOTTKY/Z8000 CPU.	D	9 N	N C	
IMAGE/BURST OF LIGHT/FLASH TUBES/SHORT-LIVED EVENT	A	8 N	N	
FASTER PROGRAM EXECUTION/MOD. OF OS. SOFTWARE	D	3 N	N C	
CIGARETTE/RELAY DRIVERS/DISPLAY/PUFF/PC./INTERFACE	DA	9 N	Y C	42
DRIVE MOTORS/"SEE"/BATTER-POWERED/IR. SENSORS	D	6 N	N C	
LED. EMITTER/EPROM./PHOTOTRANSISTOR (PT)/AND GATES	DA	4 N	N C	
COMMUNICATIONS/"WATCHDOG" CCT/BUS/PC./FAX DATA	DA	8 N	N	
VIDEO MONITOR/INTRUDER ALARM/PC./HARDWARE/SOFTWARE	A	4 N	Y	
MULTICHANNEL CONTROL/DATA CAPTURE/COMPUTER/LINK	DA	9 N	N C	
8-BIT ADC./SSR./OPTOELECTRONIC TRIAC/8A AT 240V	DA	4 N	Y C	
DMA./DATA TRANSFER/NUCLEAR DECAY/RAM./COMPUTER	D	2 N	N C	
10W/UNITY-GAIN INVERTER/TRANSFORMER/INEXPENSIVE	A	2 N	N C	
LOW-COST/5V DC. REGULATOR/RESOLUTION/READING	A	4 Y	N C	
TIMERS/SCN/PACKET RADIO/LINK/LOGIC/DATA/OA./TNC.	DA	7 N	N	
NOISE/FREQUENCY GENERATORS/MIXERS/AMPLITUDE/GAMES	AD	9 N	N	42
256-CHANNEL MCA./AIM-65 MICROCOMPUTER/ESI	AD	4 N	Y C	5
6802 UP./ADC./1.30UM/1.45UM/WATER EMITTER	A	9 N	N C	
GAL PROGRAMMER/DELAY/STATES/DIRECTION/PORT/LOGIC	D	2 Y	Y	
20KHZ/IGBT./DSP./UP./PWM. SWITCHING/MOSFET.S/SOA.	AD	9 N	N C	
RAM./LED.-BASED SPEEDOMETER/SINGLE-STEP/INTERRUPTS	DA	6 N	N	
ANALOG SWITCH/TIMER/CLOCK/COUNTER/MOD./TUNING	AD	7 Y	N	
ECL./FF./LINE RECEIVER/DELAY/GROUP ADDRESS MUX.	D	9 N	N C	61
~\$500/LIGHT DETECTOR/AMPLIFY & MEASURE/ASTRONOMY	DA	6 N	N C	
DMA. CONTROLLER/CPU./REFRESH/DATA TRANSFERS/TIMING	D	6 N	N C	
POWER/CONTROL/PWM./OVERLOAD PROTECTION/BRAKING	AD	8 N	N C	
TEXAS INSTRUMENTS/COMMODORE 64 & 128/CASSETTE PORT	AD	2 Y	N C	
HALL-EFFECT SENSORS/3-PHASE ARMATURE/CMOS./LOGIC	DA	2 N	N C	
SERIAL-DRIVEN/RS-232/RAM./IO./PAL./PROGRAMMABLE	DA	9 N	N	
75MHZ/Q-SWITCH MODULATION/TRANSLATORS	D	5 N	C	
EPLD.S/MICROCONTROLLER/DISPLAY/SONAR/EPROM./ADC.	D	2 N	C	
MEASURING DRAFT, FUEL CONSUMPTION & WHEEL SPEEDS	DA	4 N	N C	
BOOM ARM/ROTOR SHAFT/DRIVE PULLEY/ROTOR BLOCK/UHMVDA		6 N	N	
DOOR/30S MONOSTABLE/THYRISTOR/AUDIBLE ALARM	AD	1 N	N	
RF. TRANSMITTERS/VCO./ANTENNA/AUDIO OUTPUT/OA.	A	3 Y	N C	
4TH-ORDER BUTTERWORTH LOW-PASS/SALLEN & KEY/CMOS.	AD	8 N	N	
SIMULTANEOUS PERIPHERAL OPERATIONS ON-LINE/SPEED	D	8 N	N C	
100KHZ/WRIST PLATE/PS./LOGIC	DA	3 N		
		2	C	

Sheet1

INTERFACE/INSTRUCTION SET/REGISTERS/RAM./RISC.	D	9	N	N	
SURGICAL DIATHERMY/CURRENT MEASUREMENT/BURNS	A	2	N	N	C
NOISY INPUT/AVERAGED OUTPUT/TRIGGER	AD	5	N		C
TRANSIMPEDANCE AMP./DAC./GIC/BUTTERWORTH & BESSEL	AD	9	Y	N	45
BETTER THAN 0.5% ACCURACY/12-BIT SCANNING ADC.	A	7	N	N	C
TRIAC/LED.S/DIAC OPTICAL COUPLER/CMOS./TO 20MIN	DA	9	Y	N	
REGULATOR/PULSE RATE/EXTENDING THE DYNAMIC RANGE	AD	7	N	N	C 61
SCANNING/SH. AMP./RECORDING	AD	4	N	N	C
PIEZO SPEAKER/VCO./PHASE COMPARATORS/LED./CMOS.	DA	4	N	N	C
CODE/EQUALISATION ALGORITHM/SIGNAL PROCESSING	AD	1	N	N	
FANS/HOUSEHOLD APPLIANCES/BRIGHTNESS/SCR.	A	1	N		C
SOUND/THIEF/DOORKNOB/FET./FF./TRIGGER PULSE	AD	2	N	N	C
OSCILLATOR		1			C
FAST RISE TIME/<2NS/CURRENT-MODE SWITCH/TRANSISTOR	A	1	N	N	C
POTENTIOSTAT/APPLE II+/MOTOR/LIGHT/DAC.	DA	9	N		C 42
HEXFET./HV./POWER MOSFET./CMOS. OR TTL./VCO./OA.	AD	4	N	N	C
IONISATION/HV./STRIKING VOLTAGE/OA./PHOTOCURRENT	A	2	N	N	E
MONOSTABLE MULTIVIBRATORS/HOLD CAPACITOR	AD	2	N		C
CONTROL LOGIC CCT/RFP/COILS/FEEDBACK CCT/PLASMA	A	4	N	N	C
LAMP/PHASE SHIFT/DIAC/AC./RESET PULSE/BRIGHTNESS	A	2	N	N	C
TRANSISTOR/SCHOTTKY DIODE/PROTECTION/OVERVOLTAGE	A	2	Y	N	
NO AUDIBLE DISTORTION/AMP.S/LINE	AD	2	Y		
SHORT-CCT/12V BUCK REGULATOR/250MA AT 5V/INDUCTOR	A	2	N	N	C
TUBE/TURNS ON & OFF AUTOMATICALLY/PENTODE/TRIODE	A	2	N	N	
5A/BRIDGE RECTIFIER/DC./HEAT SINK/LOAD/STABILITY	A	2	Y	N	
CCT MODELING/SPICE/MOSFET./CPU. TIMES/WAVEFORMS	A	9	N	N	C
PRECISION LOW-DRIFT OA./VOLTAGE	A	2	N		C
DARLINGTON OUTPUT/TRANSISTORS/ZENER DIODE/SUPPLY	A	4	N	N	
SAMPLING RATE/LEVEL/FFT./MEMORY/DIGITIZES IN 10US	AD	2	N	Y	C
HEATER/OPTOCOUPLER/SWITCH/POWER CONTROL/CURRENT	A	1	N	N	
MONOSTABLE/CMOS. TO TTL. TRANSLATION		3			
WRITE PULSE TIMING/MEMORY READ/COMPUTER	A	4	N		C
TEMPERATURE-COMPENSATING/LINEARITY	A	5			C
NOISES IN ELECTRO-MECHANICAL DEVICES/SOUND/OA.	A	3	N	N	C
FREQUENCY CHANGES/SENSOR/TRANSDUCERS/DISPLAY/	DA	6	N	N	C
POWER CONSTANT/ODD-SHAPED WAVEFORM/VTVM	A	5	Y		
GUARD RINGS/ULTRA-LOW INPUT BIAS CURRENT/LEAKAGE	A	2	Y	N	C
DIFFERENTIAL AMP./IC TIMER/DRIFT MOBILITY	AD	7	N	N	C 42
DIGITAL LOGIC/UP-DOWN COUNTER/ADDRESS REGISTER	D	8	N	Y	C
MIXER/LOGIC PROBE/3-IN-1 TEST SET/LED.S/FF.	AD	4	N	N	C
CURRENT TRANSFORMER/CONVERTS/CURRENT/VOLTAGE	A	1	N	N	
PROCESSOR/FILTERED AUDIO AMP./PLAYBACK/SPEAKER	AD	7	N	N	2
3-TERMINAL REGULATOR/BATTERY/BACKUP POWER/DIODE	A	3	N	N	
EASILY INSTALLED/PICTURE/RF./VERTICAL/HORIZONTAL	AD	9	Y	N	C
FREQUENCY CONVERSION/0.15 TO 0.7W RF. DRIVE/DX-60B	A	5	N	N	
SCR./TRIACS/10 100W BULBS/FILTER/MUSIC	A	4	N		
FLASHING/TRIAC/AUDIO/RADIO CASSETTE	A	2	Y		
FREEZES SPLIT-SECOND ACTION		1			
MULTIPLIER/SEQUENCER/MASTER/SLAVE	D	6			C

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WARFARE/STREAM/FIGHTS/OSCILLATOR/GATES/LED.S	AD	4 Y	N	C	
FLOW CELL/THRESHOLD/WORKING ELECTRODE/OA.S	AD	4 N	N	C	
DBM./RF./COMMUNICATIONS/MIRRORING/MICROWAVE/4GHZ	A	3 N	N	C	39
RAPID/SPEEDS/WIDE RANGE OF VOLTAGES & CURRENTS	AD	9 N	N	C	
TOUCH PLATE/SCR./AM./AGC.	A	5 N	N	C	E
DETECTION/SHOCK WAVES/TRANSDUCERS/SENSORS/PRG	A	8 N	N	C	
1.35VDC/BATTERY/TRANSMITTING/RECEIVING/MODULATION	A	8 N	N	C	
MUX./PHOTOCELL-ARRAY/PLL. FREQUENCY MULTIPLIER	D	5 N	N	C	
<20KHZ TO >20MHZ/LC./INDUCTANCE/IBM PC./PROGRAM	A	3 Y	Y	C	
AM. REJECTION/COMMUNICATIONS/FREQUENCY CONVERTERSA		2 N	N		
POWER/HV. DEPLETION-MODE	DA	5 N		C	
DRIVEN FROM A BATC 70CM ATV. TRANSMITTER/RF.	A	3 N	N		
VOLTAGE-CONTROLLED RESISTORS/MIKES/RECORDING	A	4 N	N	C	
SOLAR CELL/OSCILLOSCOPE/FET./SOLARVOLTAIC	A	6 N		C	42
ATTACK, DECAY, SUSTAIN, & RELEASE/DIGITAL/ANALOGUE	AD	1 N	N	C	
PINCH-OFF/PAIR/P-CHANNEL/N-CHANNEL/TRIODE	A	4 N	N	C	
CREATE/SIREN'S WAIL/CLOCK'S TICK		3			
OSCILLATOR/PROGRAMMABLE DIVIDER/DIVISORS/REGULATORDA		2 Y	N		
MICROPHONE/VOLUME/VMOS./LOUDSPEAKER	A	1 N			
200MHZ/RF./OSCILLOSCOPE/200MHZ/SIDEBAND	A	1 N		C	
RAM./ROM./8-BIT/RESET/CLOCK/IO./MICROCOMPUTER	DA	4 Y	N	C	
PERTURBATION/IMPEDANCE/CHARGE TRANSFER RESISTANCE	AD	9 N	N	C	
ECL./NIM/30PS FWHM. SYNCHRONIZATION JITTER/PHOTON	AD	6 N	N	C	
4-DIGIT DISPLAY/PULSE GENERATOR/CLOCK/OSCILLATOR	AD	4 Y	N		
EI-TOFMS/POWER/DMOS./FAST/GRIDS/BEAM/TRIGGER PULSE	A	6 N	N	C	25
PRINTER PORTS/MAGNETOHYDRODYNAMICS/FOR AUTOMOBILIAD		6 N	N	C	
FUNDAMENTAL FREQUENCY/3RD HARMONIC/GATE DRIVE/TRAFDA		1 N	N	C	
RISE & FALL TIME OF 45 NS/FREE RUNNING/SINGLE SHOT	A	4 N	N	C	12
UART./ERROR DETECTION/DATA COMMUNICATIONS/ASCII.	DA	8 Y	N		
ETCH/MATERIALS/LAYOUT/PADS/COPPER-CLAD/ARTWORK	A	3 Y	N	C	
15PS/GAAS./PHOTON/ELECTRON/STREAK-CAMERA	A	9 Y		C	
CRYSTAL OSCILLATOR/SINE ROM.S/31HZ-8KHZ	DA	7 N		C	
PREAMP./RIAA/TAPE BUFFER/FEEDBACK NETWORK/PHONO	A	2 N	N		
LSI COMPUTER SYSTEMS/SENSOR PLATE/BULB/BRIGHTNESS	A	5 Y	N	C	
CAN KEY A RELAY TO ACTIVATE AN EXTERNAL POWER AMP.	DA	2 N	N	C	
HIGH G/M/INPUT IMPEDANCE/5W/HEAT SINK/ZENER	A	1 N	N	C	E
RADIO TELEMETRY/SAW. FILTERS/RF./UHF./ERP/BW./LO.	AD	5 N	N	C	
RECORDING/MICROELECTRODES/NEURONES/PULSE	AD	8 N		C	
FRANKLIN 1200/QUAD 2-INPUT AND GATE/SCR./RELAY	DA	4 N	N	C	97
HUMAN/TRACKING-RESPONSE/BRAILLE/HEADPHONES/SCHOOLA		9 N	N		
DIGITALLY CONTROLLED VARIABLE FREQUENCY/MICRO/DAC.	A	5 N	N	C	
PUSH-PULL/COMPLEMENTARY PAIRS OF TRANSISTORS	AD	1 N	N	C	
35-50W/DC./13.2V/ALTERNATED LINE VOLTAGE	DA	2 N			
PLL./504KHZ CLOCK/DC. LEVELS/LINE 20/4040/TV.	DA	3 N	N	C	
CMOS. GATE/NAND/NOR/INVERTER/TRIGGERING	D	1 N			
SOUND CONTROL/CHIME GENERATION		1		C	
5 TO 15V/FOR THAT OA. OR RS-232 CCT/AC. COUPLED	AD	1 N	N	C	
PROGRAMMABLE LOGIC CONTROLLER/PLC/PS./PROTECTION	A	2 N	N		
CHAIN/TUBE/TOF./CFD.S/SCINTILLATORS/COUNTER	A	8 N	N	C	12

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LOCK/ATOMIC ABSORPTION LINE/FINE CONTROL	AD	3 N	C	
VERY LOW DC. RESISTANCE/TUBE DROP/HIGH PERVEANCE	A	1 N	N C	
MORE NATURAL SOUND/ANODE/REGULATOR/HEATER SUPPLY	A	1 N	N C	
LIF/DETECTION/NIM MODULE/SCHOTTKY TTL.	D	3 N	C	
SOLAR CELL (PHOTODETECTOR)/LAMP/LIGHT/SERVO-LOOP	A	2 N	N C	
FRANCK-HERTZ/BBC MICRO/UNILAB MODULE/CRO./DISPLAY	A	4 N	N C	
PROPAGATION-DELAY TIMES/RIPPLE/ENP/RCO/PATH	D	1 N	N C	
AMP./FILTER/VOLTAGE FOLLOWER/BIOLOGICAL	A	1 N	N	
R-WAVE/3RD-ORDER BUTTERWORTH LPF./TAPE	A	5 N	N C	
COMPARATOR/IMMERSED/GREEN/SELF HEATING/COOLING	A	2 N	N	
LOGIC/SSI CHIPS/INVERTER/AND GATE/FF./4 SSR.S	DA	2 N	N C	
50% DUTY CYCLE/ODD NUMBER/DIVIDES/CLOCK	D	1 N	C	
SINE SIGNAL/AUTONOMOUS OSCILLATOR	A	8 N	C	
FUNDAMENTAL FREQUENCY IS 182.86HZ/1ST 10 HARMONICS	DA	6 N	N C	42
		2	C	
ADJUSTABLE DUTY CYCLE		1	C	
LINEAR RAMP/FEEDBACK/TRIANGULAR-TO-SINE CONVERTER	AD	6 N	N C	
RATS/SENSOR/DELAY/ROTATING CAGE/TWISTING/LINES	D	3 N	N C	AP
INDEPENDENT/QUADROPHONICS/IMAGE/BUFFERS/OA.S/MIX	A	3 N	N	33
FET./OUTPUT DRIVER/LOW-POWER, SELF-OSCILLATING	A	1 N	N C	
MAIN-SUPPLY DROPOUTS/COMPUTER DATA/CORRUPTION	AD	5 N	N C	
CONTACTS/TRIGGER/PUSH-PULL DRIVE/OPEN-COLLECTOR	A	2 N	N C	
100MHZ CLOCK OSCILLATOR/TTL./DISCHARGE/MEMORY	AD	8 N	N C	
HORN/BUZZER/DYNAMO/TIMER/MODULATOR/UNDER/SADDLE	A	1 N	N C	
LED.S/PHOTODIODES/OPTICAL CUJETTES/OA.S/LIGHT/DPM.	AD	4 N	N C	AG
DC./STARTING/HIGH CURRENT/OVERCOME STATIC FRICTION	A	1 N	N C	
KEYBOARD/NAND/TRIGGER PULSE/TIMER	AD	1 N		
CB. RIGS/NONLINEAR/DISTORT/TRANSCEIVER	A	1 N		
COMPARATOR/DAC./AND GATE/TTL./ECL./DRIFT CHAMBERS	DA	5 N	N C	
ADC.S/SCHMITT-TRIGGER NAND/DELAY GENERATOR/LOGIC	DA	3 N	N C	
EXPONENTIAL/PROGRAMMABLE CRYSTAL OSCILLATOR (PXO)	DA	3 N	N C	
PS.S/ELECTROLYTIC CAPACITOR/OSCILLATOR/DOUBLER	A	2 N	N	94
10M FM./BRIDGE RECTIFIER/SSB./MOBILE/2 BUCKS	A	2 N	N C	
PROTECTIVE CCT/LF. SINE-WAVE INPUT/SQUARE WAVE	A	9 N	N C	
RIPPLE/5 TO 10MV/PASS-REGULATOR/OVP/CURRENT LIMIT	A	5 N	N C	
BINARY NUMBER SYSTEM/CONVERSION/DATA/SWITCHES	A	4 N	N C	
RAMP/SAWTOOTH/SWEEP/TV. TUNER/VARACTOR	A	4 N		
RS-232/PORT/UP./ZILOG/INTERPRETER/NOVRAM./EEPROM.	DA	7 N	Y	
RIAA EQUALIZATION/RECORD CARTRIDGES	A	5 Y		
AUDIO/VIDEO DETECTOR/VIDEO IF./UNSCRAMBLED/RF./FCC	A	5 Y	N C	
DB-25/6551 ACIA./RADIO SHACK/MAXIM/HARRIS-INTERSIL	DA	4 Y	N	E/37
VFC./PV/ENERGY	A	5 N		
MEASURING/INPUT RESISTANCE/OUTPUT/LOAD/DSO	A	6 N	N	
VOLTAGE CONTROLLED/CYCLOTRON/TIMING/STABILITY	DA	4 N	N C	61
V-TO-I CONVERTER/MAGNETIC FIELD/CONSTANT DC.	A	3 N	N C	
CAPACITANCE/SRD.S/AMP./FOR ISOLATION/HARMONICS	A	2 N	N	3
VACUUM/CROGIC/CLOSURE/RTD. PLATINUM/ARGON/NITROGENAD	AD	5 N	N C	
VERIFICATION/OSCILLOSCOPE/OFFSET/GAIN	AD	6 N	C E	
MOSFET./>60%/GROUND/GND PIN/SWITCH MODE SUPPLIES	A	1 N	N E	

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ELECTRODE CELL/METAL DROPS/TIME METER	AD	3 N	C	
TRUE AVERAGE/UP-DOWN COUNTER		2	C	
OUTPUT-BRIDGE/HV./ELECTROSTATIC DEFLECTION	A	4 N	N	
MAXIM/HALF-FLASH/INTERFACES/PORT/SAR./IO./DAC.	AD	5 N	N	
RF./IF. AMP./NTSC. TV./LO./UHF./VHF./GAASFET. AMP.	A	4 Y	N C	
FOR VERY HIGH IMPEDANCE LOADS/ELECTROLYTE CELLS	A	2 N	N C	
INTEGRATOR/SH. CCT/COMPARATOR/IF. INPUT	A	2 N	N C	
DUAL-GATE/TMOS./OPTOCOUPERS/CHARGE CARRIERS	AD	6 N	N C	
INSTRUMENT/QUAD/4.5MHZ BW.	A	5 N	C	
LINE RECEIVER/ZCD./SINUSOIDAL INPUT/TRANSFORMER	DA	8 N	N	
ERASE/RECORD/PLAYBACK HEAD/MONO-STEREO/MOTOR/AMP.A		1 N	N	36
NULLING/TEMPERATURE TRANSDUCER/BIAS-CURRENT/ERROR	AD	8 N	N C	
TV./COMPOSITE VIDEO/SANDCASTLE/DMA./Z80/CPU./UP.	AD	4 N	N C	
LEAD-ACID/LIFE/VOLTAGE/LIMIT/CURRENT/REGULATOR	A	7 N	N	
RELAY/EM. COIL/VALVE/FLOW RATE/PLUNGER/INEXPENSIVE	A	2 N	N C	
DIVISION/INTEGERS/RESET LINE/DIVIDE BY 10/CASCADE	D	1 N	N	
TO EVALUATE SEMICONDUCTOR COMPONENT QUALITY/LAMP	A	2 N	N C	
		2		
STAIR FUNCTION GENERATOR/PHASE SHIFTER/MEASURING	AD	3 N	N C	
GILBERT CELL/PLL./AUDIO/BIFET. OA./NOTCH FILTER	A	8 Y	N	
CAMAC/TRANSMITTER/TRIGGERS/MDAT/LINKS	DA	8 N	C	
NON-LINEAR/REGENERATIVE/SMALL-SIGNAL/VERY SIMPLE	A	3 N	N	
		1	C	
OSCILLATOR/PROJECTED/LENS/50MA/10MA/MINIATURE RED	A	2 N	N	
ELECTROPHYSIOLOGY/FET. ANALOG SWITCHES/FOLLOWER	A	3 N	N C	AG
CONSTANT VOLTAGE SOURCE/CURRENT/CHARGE/MEASURING	A	4 N	N C	42
DISCRIMINATOR/DETECTOR/TRANSFER/DEWAR/OSCILLATOR	AD	4 N	N C	
JUNCTION CAPACITANCE/LEAKAGE CURRENT/NOISE/LIGHT	A	5 N	N C	
VERTICAL/HORIZONTAL SCAN/1-SHOT/DAC./UV.-VISIBLE	AD	5 N	N C	
BIFET./JFET.S/BJT./CARTRIDGE/RIAA/SHIELD	A	6 Y		
DETECTOR/CHERENKOV COUNTER/DECAY/PMT./AMP./ADC.	A	9 N	N C	12/39
		5		
1A/SIMPLE/POTENTIAL DIVIDER/REGULATION/METER/LDR.	A	4 Y	N	
REFERENCE CHANNEL/COMPUTER/EER	A	5	C	
1KHZ SINE-WAVE OSCILLATOR/CAPACITY-TO-VOLTAGE	A	2 N	N C	
NONLINEARITIES/SPICE/HOPFIELD NETWORKS/MATRIX	A	8 N	N C	
ERROR-CORRECTION/DETECT & CONTROL/PULSER/AC./+HV.	AD	5 N	N C	
VOLTAGE REFERENCE/POTENTIOMETER/VISUAL/LINEAR/1.3V	A	3 Y	N	
ALGORITHM/DIVISOR/DIVIDEND/FRACTIONAL/INTEGER	D	7 N	N C	
THRESHOLD/INPUT OVER-VOLTAGE PROTECTION	AD	4 N	C	
ZENER DIODES/VOLTMETER/INCREMENTS/RED/YELLOW/GREEN	A	3 Y	N C	
32-BIT UP.S/REGISTERS/STATE	D	5 N	C	
OA./SCALING/POSITIVE FEEDBACK	A	2 N	C	
INVERTER/KEYBOARD/MOTHERBOARD/MICROCOMPUTER	A	6 N	N C	
MM5837/LED./TRAFFIC LIGHT/NON-OVERLAPPING RED MOD.	DA	4 N	N	
TEMPERATURE TRANSDUCERS/CONVERSION/PROBE	A	9 N	N C	
EXPANDED-SCALE/LOGARITHMICALLY-SCALED/	AD	8 N	N C	
STATE-MACHINE/PROGRAM/PREPROCESSOR/HANDLERS	D	8 N	N C	
VOLTAGE COMPARATOR/DIODE/TRANSISTORS/AMPLIFIED/PH	AD	6 N	N C	

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ECL.-COMPATIBLE LEVELS/MESFET. INPUTS/50OHM/LINES	D	3	N	N	
TRICKLE-CHARGE/WELL-REGULATED, ADJUSTABLE	A	4	N	N	C
OSCILLOSCOPE/WINDOW/SELECTABLE RATE/RAM.	DA	4	N		C
PHASE-LOCKED LOOP/PLL.		1			C
JAMMER HUNTING/DEVIATION SIGNATURE/SIGNAL	A	1	N	N	C
15V INPUT TO -15V AT 1A/1000UF/LOW ESR./SHUT DOWN	A	2	N	N	C
VOLTAGE-CONTROLLED VOLTAGE SOURCES/COMPOSITE OA.	A	6	N	N	C
TRANSCEIVER/TRANSMITTER/SUBCARRIER	A	3			
POWER METER/VSWR.	A	2			
HV. POWER/METERING/COOLING	A	6	N		
TUNED CCT/TRANSISTOR/Q/SEILER/FEEDBACK/TC./AMP.	A	5	N	N	
VOLTMETER-AMMETER INDICATOR/ERROR AMP./SERIES	A	8	Y	N	
TUNING HEAD/ABSORPTION/DETECTOR	A	4	N		
INTERFACE/OPERATING MODES/PAGE-ADDRESSING/GANG	AD	6	N	N	C
PAL.S/GAAS. BINARY COUNTER/ALU./SWITCHING/LOGIC	DA	9	N	N	C
FLOODING/BASEMENTS/PROBE/TRIGGER/MOTOR	A	3	N		
4A/DIFFERENTIAL AMP./OVERLOAD/PS./ZENER DIODES	A	2	N	N	C
AUTOMATIC FEEDBACK/MONOLAYER/WATER/FLOAT/TUBE	A	2	N	N	C
DIFFERENTIAL AMP./HARMONICS/52DB	A	1	N		C
CURRENT/30A/12V DC./115V AC./HEAT SINK/SCR.	A	3	N	N	C
DIP STICK/SELF-PRESSURIZATION/CRYOGEN	AD	3	N	N	C E
DIFFERENTIAL INPUT VOLTAGE/GAIN/RESPONSE/STABILITY	A	9	N	N	C
METER/POWER FAILURES/40W/"CLEAN"/PC./VIC-20/C64	A	7	Y	N	C
SUPERIOR OA.S/PRECISION HIGH-SPEED/AUDIO	A	1	N	N	
CURRENT-TO-VOLTAGE/STABILITY/GAIN & PHASE/HF.	A	8	N	N	C
ADDRESS/PET/JARRELL ASH 0.5M EBERT	DA	5	N		C
0-1000OHM/TISSUES/MUSCLE/GRASS S88/ELECTRODES	A	2	N	N	C 28
CAPACITIVELY LOADED/VOLTAGE/FREQUENCY SUMMER	AD	2	N	N	C
VHF. AMP. TRANSISTOR/MODULATION/LOW PHASE NOISE	A	3	N	N	C
15.3DB GAIN AT 440MHZ/UHF. TRANSISTORS/STRIPLINE	A	8	Y	N	C
MOSFET. PAIR/PWM./FET. DRIVE/BRIDGE/+300V/HF./HV.	AD	3	N	N	C
CMOS./DMOS. SWITCHES/BIPOLAR/500V BREAKDOWN	AD	5	N	N	
LOGARITHMIC AMP./OA./COMPUTER-CONTROLLED/10 ⁻⁵ -1A	AD	4	N	N	C
POWER MOSFET.S/BACK-EMF./PWM./IGBT./CURRENT SENSOR	AD	9	N	N	C
STROBE LINE/DATA/IO./CLK/COMMUNICATION/NETWORK/ID	DA	5	N	Y	
STILL VIDEO FRAMES/TTL./COUNTERS/SUMMING AMP.	DA	4	N	Y	C
250MHZ BW./4.4MHZ NOTCH/BUFFERS/RF./IF./VIDEO/PS.	A	3	N	N	
DEAD BAND/HYSTERESIS/LED.S/NPN/PNP/IDENTIFIES/TYPE	DA	5	Y	N	
100KHZ OSCILLATOR/FERROXCUBE/CORE/REGULATOR	AD	1	N	N	C
SAMPLING/8-BIT ADC.S/VOLTAGE TO CURRENT/FET.	AD	7	N	N	C
POSITIVE & NEGATIVE OUTPUT/IAMBIC PADDLE	D	4	Y		
COMPUTERS, UP.S/GPIB./DRAM./PIC./GRAPHIC PROCESSOR	DA	2	N	N	C
CLOSED-LOOP/STABILITY/+0.1DEG C/TO 600DEG C/EPR.	A	7	N	N	C
CLOCKING/INTEGRATOR/RAMP/SAWTOOTH WAVE	D	2	N		C
MOD./AEROSOL SPRAYS/RESPIRATORY TRACT/TREATMENT	A	2	N	N	C
HOT-CARRIER DIODE/FEEDTHROUGH CAPACITOR	A	1	N		
DIFFERS SLIGHTLY/COMPUTER/SERIAL/DATA	DA	2	N		C
3 BIT WORD		1			
TEMPERATURE STABILITY/LOAD/LINE REGULATION/DRIFT	A	1	N	N	C

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FILTER/SUPPRESSOR/VARISTOR/LIGHTNING/MOV.	A	9 N	C	
PERMANENT MAGNET/PM MOTOR/ROTOR/BRUSHLESS/UP./8086	DA	9 N	N	C
LED.S/CURRENT TRANSFER/PHOTOTRANSISTORS	AD	1 N		
SERVICE PANEL/SNUBBER/SOLA/ISOREG/FERRO-RESONANT	A	7 N	N	
METER/FILAMENT & PLATE TRANSFORMERS/0-2KV DC.	A	4 N	N	C
SINE-WAVE/3 PHASES OF OUTPUT		2		C
RESOLUTION/512X512 PIXELS/DRAM.S/CRT./DISPLAY	D	6 N	N	C
TAPE RECORDER/AC./RADIO/MIKE/HI/LOW/XTAL/INPUT	A	1 N	N	36
CHARGE MULTIPLICITY TRIGGER/RADIATION/QUARK-GLUON	A	8 N	N	C 12
FF./FET./WILKINSON/CHARGING/CONDENSER/PULSE HEIGHT	AD	4 N	N	C 61
RECEIVER NF./COIL/Q/LIQUID NITROGEN	A	3 N	N	E
FUSIBLE LINK PROM.S/COMPUTERISTS/POWER PULSER/DATA	DA	5 N	Y	C
QRS COMPLEX/COMPUTING/RAM./CPU. 6502/PUMPING	AD	4 N	N	C
TRANSISTOR ARRAY/1-0F-10 DECODER/OCTAL FF.	DA	1 N	N	C
PRIORITY ENCODER/CPU./COMPARATOR	D	3 N		C
VOLTAGE GENERATOR/CLOCKS/COUNTERS		3		C
COMPARE/SOCKET/D-CONNECTOR/QUALITY/LED./NAND	D	4 N	N	
TMA SIGNAL MOD.S/REASSIGNED SIGNALS/IMSAI/TELETYPE	D	4 N	N	
SINE WAVES/0.02% DISTORTION/GYRATOR		2		
HIGH SPEED/POSITIONING/DIRECTION/COILS/PULSES/<\$25	DA	1 N	N	C
DAC./DIGITAL FREQUENCY CONTROL/SWEEP WIDTH/TC.	A	2 N	N	C
RESISTANCE/MOISTURE/AIR/CONDENSE/VCR./PROTECT	AD	7 N	N	C
INTERVAL TIMER/30 MACRO COMMANDS/GPIB.	D	5 N		C
LCD./ALSO AVAILABLE/TRANSISTORS/MAGNETIC HEADING	A	7 N	N	C
RIAA/PASSIVE RC. NETWORKS/DISC	A	2 N		
RESISTANCE/OA./LIGHT/MAGNETIC/PHOTODIODE/IR./UV.	A	7 N	Y	
WHEATSTONE BRIDGE/SENSOR/MONITOR/TIME-DELAY CCT	A	6 N	N	
TUBING/GATE/LED./TEST GEAR	D	1 N		
STAND-ALONE/LED.S/120HZ CLOCK/DATA	DA	7 Y		C
INITIALIZE/FET.	AD	2 N	N	C
DC. OR AC. COUPLED/VOLTAGE DROP/METER/PROBE	A	3 N	N	
9V BATTERY/LOW-LEVEL/HIGH AS 10MHZ/SINE WAVE	DA	1 N	N	C
CURRENT CONVEYORS/CCI/CCII/SPICE SIMULATION	A	4 N	N	C
IEEE-488 BUS/COMPUTER/OSCILLOSCOPE	AD	6 N		C
INDICATE/VOLTAGE DIVIDER/LPF./TRANSISTOR	AD	1 N	N	C
SUSTAIN/WAVEFORM PROFILES/VOLUME/FALL TIME/FET.	A	4 Y	N	
PHOTORESISTOR/AGC./LEVEL DETECTOR	A	1 N		C
LINEARITY/1%/IR. LED./ZERO SET	A	4 N		C
SIMPLE HYBRID/OSCILLOSCOPE		2		C
HOBBYISTS/BATTERY-OPERATED PROJECTS		1		C
		2		
1-SHOT MULTIVIBRATOR/500MS TIME DELAY/5V/LOW-POWER	AD	1 N	N	C
CAPACITOR/EFFICIENCY/LOAD VOLTAGE VS LOAD CURRENT	AD	1 N	N	C
TRANSVERTER/UNIVERSAL LO. (ULO)	A	2 N	N	C
SCR./LED./SWITCHES/SPEAKER/AUDIO/2HZ/MULTIVIBRATOR	AD	3 Y	N	C
TIMING/RC./HEATING ELEMENT/TEMPERATURE/SET-POINT	DA	2 N	N	C
PREROLL/VCR./PAUSE/TAPE/RECORD/REVIEW/CAMCORDER	A	5 Y	N	C
INTERRUPTING/LIGHT BEAMS/RELAY/MICROSWITCHES	AD	2 N	N	C
OA./5V BANDGAP REFERENCE/CMOS./AUDITORY NERVE/DEAF	AD	9 N	N	C 28

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CHEAP/FREQUENCY/INDICATION/VALUE/LED.S/LEAKAGE	D	4	Y	N	
SQUELCH/LOUDSPEAKER/SILENCE/RELAY/BC.	A	1	N	N	
TIMER/INVERTER/RC./MONOSTABLE MULTIVIBRATOR/CMOS.	AD	4	N	N	
LF. ASTABLE MULTIVIBRATOR (LFM)/TRIGGERED/AF.	AD	2	N	N	C
JFET./2N6483/PAR-113/LOW INPUT CURRENT	A	2	N		C
SETUP/CONVERGENCE/COLOR TV.		2			
VISIBLE RED & NIR. LED.S/DIODE CLAMP/CMOS./TTL.	A	5	N	N	
TRIPLETS/GAIN/~48/FEEDBACK/ELECTROSTATIC SPEAKERS	A	1	N	N	C
WITHSTANDS ABUSE/SWITCHING/50UA METER MOVEMENT	A	1	N	N	C
CURRENT SINKING/MOD.	D	1	N	N	C
NBS. TRACEABLE CALIBRATION/IEEE 488/UP TO 100MHZ	AD	9	N	N	C
BATTERY BACK-UP/CAR DOOR/MOBILE USE/CAR HORN/BELL	A	2	N	N	
3.58MHZ/QUARTZ CRYSTAL/<\$20/BINARY/PREAMP./FILTERS	DA	3	Y	N	
DIRECT VIDEO OUTPUT/ZILOG/PRIVATE MEMORY/MODULATOR	DA	9	N	Y	C
GEL CELLS/12V STORAGE BATTERY/TNC./PBBS/COMPUTER	A	5	N	N	C
REGULATOR/TRIAC/RECTIFIER/FM. PORTABLE BATTERY	A	2	N	N	C
VOICE/SPEECH-SYNTHESIS/HUMAN/LPC/ROM.	DA	5	N		C
2 SCR.S/SMALLER & CHEAPER/BIDIRECTIONAL DISCHARGE	A	1	N	N	C
P.A. AMP.S/12V MICRO FAN/REGULATOR/RECTIFIER	A	2	N	N	C
3W OF CLEAN RF./OUTPUT FILTER/REGULATOR/ANTENNA	A	2	N	N	C E
AUTOCAD/CAD./2 POWER TRANSFORMERS/I.B.M. PC./LED.S	A	8	Y	N	
RELAYS/VIC-20/EPROM./DECODER/JOYSTICK PORT/LATCH	AD	4	N	Y	
OSCILLATOR/TIMER/IO./40KHZ CARRIER/1-SHOT/CEBUS	DA	4	N	N	
TIME RESOLVED STIMULATED RAMAN GAIN/LO./DC. OFFSET	A	4	N	N	C 39
"FAULT-INDICATOR"/6W/VMOS. OUTPUT/8MIN DELAY/RELAY	AD	5	N	N	C
BUCKET-BRIGADE/ADJUSTABLE DELAYS		5			
AMPLITUDE ONLY/VISUAL/2-PORT NETWORK/DETECTOR/CRO.	A	5	N	N	C
LINE/BCD. WORD/RATE MULTIPLIERS/LOAD/COMPUTER	AD	3	N	N	C
ANGIOGRAPHY/2/PHOTON BEAMS/SCALER/DETECTOR	AD	7	N	N	C
COMPARATORS/4V-US/FAST-STEPPING RESPONSE/60NS	AD	1	N	N	C
RECHARGEABLE BATTERIES/GREEN/ILLUMINATED/CONDUCT	A	2	N	N	C
RFI./SNR./NONLINEARITY/MFPF	A	4	N	N	C
SONY/AMP.S/DAC.S/RECEIVE & WEIGHT/COMPARE & SUM	AD	4	N	N	C
DIFFERENTIAL OUTPUT/PEAK-TO-PEAK VOLTAGE/3.0V	A	6	N	N	C
OUTPUT VOLTAGE OF 0 TO 3V/SUPPLY VOLTAGE OF 5V	A	1	N	N	C
OPTO-ISOLATOR/TRIACS/LIGHT DIMMERS/RFI.	AD	3	N		
DETECTOR/CRYSTALS/MEDIUM ENERGY LIGHT PARTICLES	A	9	N	N	C
AMP.S/SINUSOIDAL/G-V/CONDUCTANCE	A	5	N		C
		2			
DC. GAIN/IS 100/1.5V LITHIUM BATTERIES/ULTRASOUND	A	1	N	N	C
TELEVISION/VIDEO CODEC/AUDIO/DEFLECTION	DA	6	N		C
ASTABLE MULTIVIBRATOR/OA. BASED VOLTAGE FOLLOWER	AD	1	N	N	
SPEAKER/NON-INVERTING USING A SINGLE-ENDED PS.	A	5	N	N	C
LVDT./RTD.S/VALVE/MEASURING VOLUME CHANGES	A	6	N	N	C 25
LOW-NOISE PREAMP./MIXER/GAASFET./VARACTOR DIODE	A	7	Y	N	C
64KHZ, 1US PULSES/NAND GATES/FLYING CAPACITOR/RAMP	D	1	N	N	C
BASEBAND VIDEO/VCR./CCTV. CAMERA/AUDIO/FM.	A	3	Y		
60HZ/OA./PRECISION RECTIFIER/NOISE CANCELLING	AD	8	Y	N	
HIGH DATA RATES/40MHZ/RC./BINARY DIGITS 0 & 1	AD	2	N	N	C 6

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CAD./FIELD PLD.S/PLA./PAL./PROM.S/PCB./IO. BLOCKS	D	9	N	N	C	
TELECOMMUNICATIONS/600OHM/TERMINATION	A	3	N	N	C	
JET/CRYSTAL GROWTH/NITRIDES/PRESSURES	A	2	N		C	
NUMBER OF FLASHES/CHECK/CALIBRATION/COMPARATOR	A	4	N	N		
2W VHF. AM. TRANSMITTER/EFFICIENCY OF 65%/CURRENT	A	3	N	N	C	E
CMOS.		1			C	
PHASE-SHIFTED/PMT./180DEG/ADC./AGC./AOR/APPLE	AD	4	N	N	C	
MULTIPLE OUTPUTS/FULL PROTECTION	A	1				E
COMMUNICATION/TONE OSCILLATOR	A	1			C	
CYCLES/START/HOUSE/NUMBER CODE/BSR/AC./REMOTE	A	9	N	Y		
ADC./DVM./AC./CONDITION/LED. DISPLAY/MEASUREMENTS	AD	5	Y	N	C	
LETTERS/CHARACTERS/6800 UP./SOFTWARE/MICROCOMPUTER	FD	2	N	Y	C	
SQUELCH, SCAN CONTROL & MUTE/AF./COMMUNICATIONS	A	1	N	N	C	
REFLECTOMETER/BRIDGE/OA./SENSOR/UHF./STRIPLINE	A	4	Y	N		
FLASHES A LED./SOUNDS AN ALERT/NICD./REFERENCE	AD	6	Y	N		
DAC./MUX.S 4 VOLTAGES/POTENTIOMETER/COMPUTER	DA	6	N	N	C	
ROM.S/EPROM./SPEAKER/WORDS/8-BIT/ADC./INFLECTIONS	AD	2	N	N	C	
		1			C	
SAVE/1802-BASED SYSTEM/BATTERY-BACKUP CCT/FAILURE	A	4	N	N	C	
REMOVES/COMMON-MODE VOLTAGE/220V/DIFFERENTIAL AMP.	A	2	N	N	C	
COMMUNICATIONS/TIMING/TRANSMISSION/RELAY	DA	4	N		C	
6502 UP./SIGNAL AMP.S/LABORATORY/SRAM./AUTOMATION	AD	2	N	Y		
TOPOLOGY/FEEDBACK/GAIN/STABILITY/TRANSIENT IMD.	A	9	N	N	C	
IIR./FIR./ANALOG/DELAY	D	9	N	N		
COOLED TO 77 K/MOSFET./DUAL N-CHANNEL JFET./TIMER	A	3	N	N	C	
TRANSISTORS/BALANCE/VOLUME/TREBLE/BASS/MONOPHONIC	A	4	Y	N	C	
CAR OR TRUCK/HIGH-CURRENT SWITCH/UNDER-THE-HOOD	AD	4	Y	N	C	
ANALOG INPUT/BUS/ADC.S/S-100 CARD/ZBASIC	AD	2	N		C	
LPF./UNCORRELATED DISTURBANCES/GAIN OF 100000/TEST	A	1	N	N	C	5
POLARITY PROTECTION/4 OUTPUTS	D	4			C	
WHEATSTONE/BRIDGED-T NETWORK		5				E
CD. PLAYER/PS.S/IMPROVEMENTS/OA.S/OUTBOARD DAC.	AD	9	N	N		
MOD.S/PHILIPS/DAC.S/PREAMP./TRANSIMPEDANCE AMP.	AD	7	N	N		
COMPUTER/PERSONALITY/OFFSET ZEROING/MOS.	AD	8	N		C	
AND GATE/RC. TIME CONSTANTS/RESET/BATTERY/SHORT	AD	6	Y	N		
COMPUTER-CONTROLLED/MATRIX ADDRESSING	AD	6	N		C	
16/CHANNELS/13-BIT/16 COLORS	DA	3			C	
NDFL'S/REDUCTION IN DISTORTION/VOLTAGE GAIN/NEW	A	9	N	N	C	
PROGRAM SEQUENCER/CMOS. SIGNAL-PROCESSING	D	9	N		C	
RECEIVE/CONDUCTOR/FERROUS/INDUCTIVE LOOP DETECTOR	A	9	N	N		E
DAS./MOSFET./TIMER/COMPARATOR/FF./OA.S/VIBRATION	AD	6	N	N	C	
IO./LINEAR AMP./HIGH INPUT IMPEDANCE/DIFFERENTIAL	AD	2	N	N	C	
ADC./MUX./FET.S/OA./12 BIT RESOLUTION/DETECTOR	AD	7	N	N	C	
VOLTAGE DIVIDER/VOLTAGE/SMOKE DETECTORS/ALARMS	DA	1	N	N	C	
2HZ TO 32KHZ/BINARY RIPPLE COUNTER/DIVIDER	D	2	N	N	C	
AMPLITUDE/COIL/455KHZ IF./POTENTIOMETER	A	1	N	N		
FREQUENCY OF AUDIO TONE/LED./TIMER/PROBES	A	1	N		C	
AUDIOPHILES/BIPOLAR/RS FF./RECORDER/95W/\$300	AD	7	N	N	C	
8-BIT MERRIMAC/PSDW-84-1/RF./DECOUPLING/TRANSIENT	AD	5	N	N	C	

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COMBINERS/CLASS-AB/TRANSCEIVERS/TRANSVERTERS/RF.	A	5 Y	N	
DIFFERENTIAL INPUT/PLAYBACK/GAIN/BIASING/DUAL AMP.	A	1 N	N	C
REFRIGERANT/FREON GAS/HEAT/SENSOR/RELAY/COOLING	A	6 Y	N	
INDUCTANCE COIL/REACTANCE/FET. SWITCH/TEMPERATURE	A	3 N	N	C
IMPEDANCE MATCHING/IO./COMMUNICATIONS/MICROWAVE	A	7 Y	N	
WIDE BAND/DISCRIMINATOR/FRICH/LEP/COLLIDER/MUX.ING	A	5 N	N	C
SENSOR/FREQUENCY DIFFERENCE/RC. OSCILLATORS/METER	AD	1 N	N	C
APPLE II+/COMPUTER/6522 VIA./TEMPERATURE CONTROL	DA	2 N	N	C
DUAL/OPEN-LOOP GAIN/700000/HIGH-GAIN/TRANSISTOR	A	1 N	N	C 10
LIQUID HELIUM/RF. MAGNETIC FIELD/HF./NOISE/COOLING	A	5 N	N	C E
50V TO 5V/STEP-DOWN/VOLTAGE-MULTIPLIER/BUCK-BOOST	AD	5 N	N	C
MODEL I, LEVELS I & II/LINE BUFFERS/CMOS./OA.	AD	5 N	Y	
PMT./SH./DELAY LINE/ADC./HIGH-RATE	A	7 N	N	C
TURNTABLE/RECORDER/SPEED ACCURACY		6		
TECHNICAL SOLUTIONS/MOSFET.S/DIFFERENTIAL AMP.	A	7 Y	N	C
1.5DB NF. AT 500MHZ/13.5V DC. AT ~13MA/BOOST LEVEL	A	1 N	N	C
MULTISTRIP/PITCH/DATA/SPECTROMETER/PARTICLES/BEAM	A	6 N	N	C
DUAL TRANSISTOR/FFT./100KHZ/REGULATOR	A	2 N		C
MOSPOWER OUTPUT/BALANCE/BIAS SERVO/CONTROL LOOP	A	9 N	N	
RF. BYPASS/RFI. FILTER/AC./REDUCE/LF. DISTURBANCES	A	7 Y	N	
CATHODE/GRIDS/BIAS VOLTAGE/TRANSIENT RESPONSE	A	1 N	N	36
TRANSFORMER/DIODE/FILTERS/HV./FLYBACK CONVERTER	A	7 N	N	C
ANTIPROTONS/ACCUMULATOR RING/MATCHING/IMPEDANCE	A	4 N	N	C
INPUT ID 10-14V/OUTPUT FROM VIN TO 24V/MOSFET.	A	1 N	N	C
N-MOSFET.S/CHEMICAL VAPOR DEPOSITION/<\$2000	AD	8 N	N	C
<25PA/UV. BEAM/SHG/LASER INDUCED FLUORESCENCE/LIF	A	2 N	N	C
PROBABILITY DISTRIBUTION/1-SHOTS/RECORDER	AD	1 N	N	C
SLEW RATE OF 10V-PER-US/HIGH-CURRENT/2A/BI-FET.	A	3 N	N	C
AUDIO/TRANSISTORS/DISTORTION/COMPLEMENTARY/CLASS B	A	6 N	N	
LED./BRIDGE/OA./FEEDBACK LOOP/DIODE	A	1 N		C
PHASE SHIFT/CENTER FREQUENCY/FILTERS/TV. RECEIVER	A	7 N	N	
MOLECULAR BEAM/750HZ/ORIFICE/GAS	A	5 N		C
LOW-COST/GAS-FILLED/SELF-OSCILLATING/25KHZ/PULSE	A	1 N	N	C
RESISTOR		1		
GROUNDING/GROUP-DELAY COMPENSATION	A	5 Y		
LOW DISTORTION		4		
TV./COMPUTER/POWER-CONDITIONER/LINE NOISE/OUTLET	A	5 N	N	C
1-SHOT/FF./TRANSISTORS FOR LEVEL SHIFTING/RTCIO	AD	5 N	Y	
PHOTONS/ELECTRONS/COUNTERS/TRIGGER	A	9 N		C
TELEPHONE/3-PARTY/PCM./SLIC./TIME-SLOT-ASSIGNER	AD	9 N	N	C
+5V & +-12V/FERRITE CORE/HV. TRANSISTOR/WINDINGS	AD	5 N	N	C
AUDIO/SOUND/SENSOR/FF.S/SUPER WOOFER/SPEAKER	AD	3 N	N	
PARAPHASE/GUITAR AMP.S/PS./RECTIFIERS/HI-FI	A	2 N	N	4
HEAD/NAB/DIN/TAPE/MAGNETIZATION/NOISE/SNR.	A	6 N	N	
ROTATIONAL SPEEDS/SENSING/TO 9900 RPM.	DA	5 Y		
BIFET./AC./DC./SIGNAL PROCESSORS		8		
CMOS./CURRENT/PWM. COMPARATOR/FORWARD CONVERTER	A	1 N	N	C
SPEAKER/DESK MODEL/GARAGE/KITCHEN/ROOM	A	3 N		
PRE-AMP./COMMUNICATION/SPEECH	A	3 Y		

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FEEDBACK LOOP/STUDIO/20/20KHZ/TOOL/ALIGNMENT TONES	A	4	Y	N	
NONCRITICAL/TV./RF. AMMETER/CHOKES/RECEIVER/TUNING	A	6	N	N	C
ALARM/CHARGE PUMP/OPTICAL-TO-ELECTRICAL TRANSDUCERA		1	N	N	
55V/40HZ-20KHZ/THD./50W INTO 40HM/0.1%/BOOTSTRAP	A	6	Y	N	
MIXERS/QUADRATURE LO./RC./FILTER	AD	1	N	N	C
CMR./LONG TAILED PAIR/FEEDBACK/IMPEDANCE/SOUND	A	4	N	N	C
VOLUME/SPEAKER/HEADPHONE DRIVER/RADIOS	A	3	N		C
LV./POWER-AMP. CHIP/SOUND	A	2	N		C 42
VOLTAGE-DOUBLER/MIXER-LED. DRIVER/TONE DECODER	A	3	N	N	C
CALIBRATION/ICED WATER/-50 TO +150/SENSOR/KELVIN	A	2	Y	N	
CPU./3- & 4-WAY ROAD JUNCTIONS/TRAFFIC FLOW	D	8	N	N	C
COMPARATOR/LED./LIGHT BEAM/MONITOR SPEED/METER	A	1	N	N	C E
MONITORS/VCR.S/SYNC/DOT-HATCH GEN/SHAPER	DA	7	Y		C
"RUMBLE"/"SCRATCH"/"SPEECH" FILTER/TONE-CONTROL	A	5	N	N	C
UNIPOLAR/FEEDBACK/LIMITS MOTOR POWER DISSIPATION	A	4	N	N	
AM., CW., OR SSB. RECEIVER/40HM SPEAKER/OA.	A	3	N	N	C
5000+-1MV/ACCURACY OF 0.02%/0-40DEG C/THD. 0.01%	A	3	N	N	C
DARLINTON/OUTPUT TRANSISTORS/STABLE/OSCILLATOR	A	3	N	N	C
COMPARATOR/REFERENCE/OFFSET-VOLTAGE	A	1			C
MORSE CODE/CW./TRANSMITTER/PCB./1W/LED./PICK-UP	A	4	N	N	
SIMPLE DESIGN		1			C
DIGITAL TRIANGLE-WAVE CLOCK/PULSE-WIDTH-ENCODED	D	3	N	N	C 48
FET./60HZ SQUARE WAVE/FREE-FALL/COMPARATOR/RULER	A	2	N	N	
PRECISION OA./DC. SERVO AMP.S/THD./HIGH-CURRENT	A	7	N	N	C
MINIMUM DEAD TIME/COMPARATOR/PULSE	A	1	N		C
SUNLIGHT/DPM./DP-654/BIKE/REGULATOR	AD	2	N	N	C
75HZ/120V/300HZ CLOCK OSCILLATOR/OA./COUNTER	AD	3	N	N	C
		2			C
DIFFERENTIAL IS ONLY 350MV/REFERENCE AMP.	A	1	N	N	C
RESISTANCE/LF./COSMIC BACKGROUND RADIATION/HEATER	A	3	N	N	C
TEMPERATURE MEASUREMENT/COSINE/SENSOR/INTEGRATOR	A	6	N	N	C
CROWBAR/SCR./9.2V DC./PACKET RADIO/WRAP-AROUND CCT	A	3	Y	N	C
RAMP-&PEDESTAL/CHARGING & DISCHARGING/ISOLATION	A	6	N	N	C
HARD-DISK CONTROLLER/TRANSFERS/COMPUTER/SEQUENCE	FD	7	N	N	C
COMPARATOR/SIMPLE/ALTERNATOR/VOLTAGE REGULATOR	A	7	Y	N	
~\$16/1.8V WITH A RIPPLE OF 5MVAC./BRIDGE RECTIFIER	A	1	N	N	C
COMPARATORS/BUFFERS/FF.S/MOS. TRANSISTORS/OR GATE	DA	2	N	N	C
MULTIPLIER/OA./CURRENT SOURCE TRANSISTOR/IMPLANTS	A	5	N	N	C
PICKUP COIL/COMPASS/SENSOR/TOROIDAL CORE/FILTER	AD	7	N	N	C
PHOTONS/PHOTOELECTRONS/SHAPER/DRIVER/FRONT END	A	6	N	N	C
TUNE-UPS	A	3			
SCR./NEGATIVE/RIPPLE/RECTIFIERS/FILTERS	A	5	N		
SIGNALS/CRYSTAL SET		1			
CDA'S/OA.S/SINGLE-ENDED PS.	AD	2	N		
SQUID./TOROID/FERRITE-CORE PICKUP COIL/1.33OHM	A	7	N	N	C E
PROPORTIONAL/SUM/DIFFERENCE/CATHODE SENSE WIRES	A	6	N	N	C
TIMER/ASTABLE OSCILLATOR/TRANSISTORS/TRANSFORMER	A	1	N	N	C E
DUAL DIFFERENTIAL LINE DRIVER/ISOLATION/DIODES/OA.	A	1	N	N	C 95
FET.S/DUAL SCHOTTKY DIODE/2 EXTERNAL POWER SOURCES	AD	1	N	N	C E

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FUNCTION GENERATOR/FREQUENCY/HOWLAND PUMP	A	2 N	N	C	
HIGH QUIESCENT CURRENT/WORST CASE INPUT/5.8V	A	1 N	N		
BATTERY/DEAD/SWITCH/LED./PARKING/LAMP	A	1 N		C	
HIGH RESOLUTION/SPECTROSCOPY/SNR.	A	6 N	N	C	
TRANSCEIVER/RF.-PROBE/DIODE	A	2			
CASCADE STAGE/DARLINGTON EMITTER-FOLLOWER	A	6 N	N	C	
		1		C	
FORWARD BIAS/VOLTAGE DROP/MULTIMETER	A	1 N			
AUDIO AMP./ANTENNA/GERMANIUM DIODE	A	3 N			
COMMUNICATIONS/MULTIPLE/FEEDLINE	A	3 N			
FLUX-LOCKING/GRADIOMETER/MAGNETIC HEART	A	9 N		C	
ROLLER INDUCTOR/TRANSMITTER/CABINET	A	7			
TV. MODULATOR/IC/DRAIN/RC. DECOUPLING/MOD.	A	3 N	N		
IR. ASTRONOMY/THERMAL/TEMPERATURES/SILICONIX/JFET.	A	3 N	N	C	
DTMF. TONE PAIRS/TIME-INTERVAL		4		C	
COLLINS/RF.-GAIN CONTROL/SWITCHING/INPUT	A	3 N			
AC. LINE	A	2 N			
TELESCOPES/BIPOLAR TRANSISTORS/FRAGMENTS/50V-US	A	9 N	N	C	
JFET./LED./PHOTODIODE/MATTER/IMPURITIES	A	8 N		C	
FREQUENCY DOUBLER/KEYING/BANDPASS FILTER	A	7 Y			
FLOPPY/PLL./FREQUENCY/TIME CONSTANT/S50	DA	6 N			
MIXER/VCO./TUNING TRANSFORMERS/VARIABLE DIVIDER	A	2 N	N		
FREE-RUNNING/~1KHZ/DIODES/COMMUTATING CAPACITOR	A	2 N	N	C	
WEDGE/TARGET/SHOCK WAVE/LIGHT-GAS GUN/SURFACE	A	8 N	N	C	39
SENSORS/ENCLOSURE/LIGHT BULB/COMPUTER/PROCESSOR	AD	1 N	N	C	
VARIABLE-MODE MODULATOR/OSCILLATOR		2		C	
SOUNDS/GAP		1		C	
PULSES/COMPUTER PORT/FET.		1		C	
POTENTIOSTAT/PHASE SELECTIVE/\$150	A	9 N		C	42
MCP. ELECTRON MULTIPLIERS/FIELD/IRON POLE PIECES	AD	9 N	N	C	
CASCADE STAGE/CURRENT/VOLTAGE NOISE/GAIN-BW.	A	1 N	N		E
PULSE/BIASED/PREAMP./SINGLE-COIL PROBE/SWITCH	A	3 N	N	C	
BIAS/MEDIUM TRANSDUCTANCE/INPUT FET./NOISE/PHA.	A	6 Y	N	C	
AMP.-LEVEL SHIFTER/CATV./PSK./PEAK DETECTOR/IF.	AD	2 N	N		
USES A CAPACITOR/RESISTOR WASTES POWER	A	1 N	N	C	
1000HZ BAND-PASS LINEAR FILTER/DETECTOR/LOW NOISE	A	9 N	N	C	42
90MV/AUDIO ANALYSIS TOOL		5			
HPLC./BOXCAR AVERAGER/IBM PC. XT/DIFFERENTIATOR	A	9 N	N	C	42
OA./TRANSFER FUNCTION/MOD./CONTAINS FEW COMPONENTS	SA	1 N	N	C	
FEEDBACK/NULLING/TRANSDUCTANCE AMP./MATCHED	A	2 N	N	C	
CELL CURRENT/POTENTIOSTAT/FAST SLEW RATE/AMP.	A	3 N	N	C	
DETECTORS/NEP./LOW-TEMPERATURE/TELESCOPES/NYLON	A	6 N	N	C	
		2		C	
CONSTANT/MOSFET./3A/HF. OSCILLATIONS/FERRITE BEADS	A	2 N	N	C	
BW./10KHZ TO 1.5MHZ/TRANSDUCTANCE/TRANSIMPEDANCE	EA	3 N	N	C	
SOLUTION/SIMPLE/INDICATOR/<\$4.00/TITRATION/WIRES	A	2 N	N	C	
VHF./AGC./FERRITE TOROIDS/GATE PROTECTION	A	5 Y			
LID/GAS/HV./ENERGY RESOLUTION/HOME-MADE/SIMPLE	A	9 N	N	C	
IN-PHASE (WILKINSON) COUPLERS/RF./MICROSTRIP/POWER	A	5 Y	N		

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40+ DB/HOT-CARRIER DIODES/RF. AMP./IF. AMP./MIXER	A	3	N	N	78
HF. COMPENSATION/IMPEDANCE/ZENERS/VOLTAGE SPIKES	A	5	N	N	3
HALF-WAVE MODE/DC.-DC. CONVERTERS/SWITCHING/LOSSES	A	9	N	N	C
ENCODES NRZ.-FORMATTED MESSAGES/MANCHESTER DATA	AD	7	N	N	C E
VOLTAGE CHOPPER/DC. MOTOR/DRIVER/GOVERNOR TURBINE	A	9	N	N	C
INPUT/40V/OUTPUT/24V-56V/LC. RESONANT CCT/DC./FM.	A	8	N	N	C
POLICE RADAR/FUNDAMENTAL/1169.44MHZ/K-BAND	A	3	N	N	C
SCHOTTKY DIODES/ZERO-CURRENT TURN-OFF/SWITCHING	A	9	N	N	C
DC.-DC./ZERO-VOLTAGE SWITCHING/10MHZ/EFFICIENCY	A	9	N	N	C
MODULATOR/DEMODULATOR/AC. LINE/WIRING	DA	7	N		C
PS./CUK/SINGLE-TRANSISTOR/INPUT/OUTPUT VOLTAGES	A	7	N	N	C
MATCHING NETWORK/RF. POWER TRANSISTOR	A	4	Y		
STABILITY/HARMONIC FILTER/2M	A	5	Y		
CLASS A DRIVER TRANSISTOR/BOOTSTRAP CCT/DISTORTION	A	3	Y	N	C
ZERO-CURRENT/ZERO-VOLTAGE SWITCHING/ZCS/ZVS/QRC'S	A	8	N	N	C
THICK FILM/SUBSTRATE/PROTOTYPE/DIELECTRIC/FLEX	A	9	N	N	C
HT'S/ATTENUATOR/MICROSTRIP/STRIPLINE/VHF./25-30W	A	5	Y	N	C
CURRENT SOURCE/DIODE DROP/GATE/CHANNEL	A	1	N		C
PIN DIODE/INPUT/OUTPUT MATCHING CCT/ANTENNA/RF.	A	3	Y	N	C
THERMISTOR/NMR./IO. IMPEDANCE MATCHING/TRANSFORMER	A	8	Y	N	E
HELMHOLTZ LOOP/AF. MAGNETIC FIELD/HIGH POWER AMP.	A	5	N	N	
CMRR. OF 100DB/GAIN/46DB (X200)/DIFFERENTIAL AMP.S	A	5	N	N	
PROTECTION AGAINST OVERCURRENT/MONITORING/FET.S	AD	2	N	N	C 60
2NS/PHOTOCURRENT PULSE/POLARIMETER/OPTICAL/ADC.	A	5	N	N	C 12
TRANSVERTER/LO./FILTER	A	8	Y		
RAPID/TRANSITIONS/LOGIC/PWM./74LS592/8-BIT COUNTER	AD	9	N	N	C
1.33MEV/GAMMA-RAY DETECTOR/PHOTON SENSOR/ENC	A	5	N	N	C
LOW-HARMONIC/DISTORTION PRODUCTS/INTERCEPT POINTS	A	7	N	N	C 57
SOUNDS/PHONEMES/TEXT-TO-SPEECH ALGORITHM	AD	9	N		C
EVEN WHEN COMPUTER IS TURNED OFF/NICD./BATTERY	D	2	N	Y	
4 DECIMAL POINTS/COLON/IO. PORT/LINES/MINIMIZE	D	5	N	Y	C
CONSTANT CURRENT SOURCES/DRIVER/PUSH-PULL CASCODE	A	7	Y	N	
INPUT FET./FILTER/CHARGE INTEGRATION	A	6	N		C
PSLC/IDLE/SINGLE-STEP INSTRUCTION EXECUTION/WUS	D	2	N	N	C
20-45MHZ/300KW/CATHODE TUNING/IMPEDANCE MATCHING	A	3	N	N	C
TRAPEZOIDAL SIGNAL SHAPING/ADC./X-RAY/PULSE HEIGHT	A	9	N	N	C 12
LIQUID-HELIUM-COOLED RADIATION DETECTORS	A	2	N		C
BIDIRECTIONAL ASYNCHRONOUS/DATA TRANSFER/CONVERTE	A	3	N	N	C
STROBOSCOPIC MICROGRAPHY/PHOTOGRAPHY/SCR.-DRIVEN	AD	2	N	N	C
LED. READOUT/RECORDING/DIAMOND/HI-FI/RIAA	AD	5	Y		
2 BIDIRECTIONAL SWITCHES/SERIES-RESONANT CCT/DIODE	A	8	N	N	C
FLASH CONVERSION/A-D ENCODER/20MHZ	DA	5			C
IA./REFERENCE/CALIBRATION/BRIDGE/WEATHER	A	1	N	N	C
DUAL/DIFFERENTIAL INPUTS/HIGH GAIN	AD	8			C
SPEED/LOW NOISE/CHOPPER-STABILIZED/LF./BIPOLAR	AD	9	N	N	C
SYNCHRONOUSLY MODULATING/ANALOG SWITCH/OSCILLATOFAD	FAD	1	N	N	C
CMRR./DIFFERENTIAL AMP./DIGITAL AUDIO/PP3 BATTERY	A	4	N	N	C
COUNTER/BACK EMF./SENSING/DC.-DC. INVERTER/POWER	AD	3	N	N	C
MOSFET./EFFICIENCY OF 75%/GAS DISCHARGE/PLASMA	A	4	N	N	C

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LAMP BULBS/PIEZOELECTRIC BUZZER/TIMING/ZENER	A	1 N	N	C	E
PWM./DRIVING SOLENOIDS/COIL/RECTIFIED AC. LINE	A	2 N	N	C	94
DISPLAY/COUNTER/MAGNET-MOTION SENSOR	D	4 Y			
PASSIVE DIODE/DOUBLY BALANCED/GENERATOR	A	5 N			
OSCILLATOR/SYNCHRONIZATION/PULSE TRAIN/WIDTHS/GATE	AD	2 N	N	C	
FLOPPY-DISK DRIVES/EXPANSION SLOTS	D	9 N		C	
UP TO 8 CARTRIDGES/SOFTWARE CONTROL		6			
FM. TRANSMITTER/RF. OSCILLATORS/NAND GATES/LED.	D	1 N	N		
RELATIVE MAXIMUM/SAMPLE SET		1		C	
TRANSMITTER/TRACKED VEHICLE/STEER/SPEED	A	1 N			
		1			
41256/UNSOLDERING 16 IC'S/4-LAYER PCB.	D	2 N			
DATA/ADDRESS/CAPACITORS/DELAY/FEEDBACK/STABLE/CODED		1 N	N	C	
DECODER/DRIVER/LED.S/REPEAT/COPYING	DA	7 Y		C	
DARK-DETECTOR-BCD.-ENCODER/CLOCK PULSE/CAR/SENSOR	D	4 N	N	C	
STATE/PHASE DIFFERENCE/BEAT FREQUENCY/CHAIN	D	1 N	N	C	
CURRENT GENERATOR/BUFFER/ELECTROPHYSIOLOGY/IC	AD	8 N	N	C	
LIGHT SENSOR/DISPLAY SCREEN/PC./AMP./DAC./RELAY	A	4 N	Y		
BAR-ON/BIBER/WAVEFORMS/OSCILLATOR	D	1 N		C	
WAVEFORM/CONSTANT-CURRENT SOURCES/TIMER	A	1 N		C	
1-10KHZ/HIGH-FIDELITY TRANSDUCER/DRIFT/OA.S/AMP.S	A	3 N	N	C	6/AG
CARBON MONOXIDE/METHANE/WARNING/SCR./SENSOR	A	2 N	N		
INTERMODULATION/HF./LOW-POWER FM. TRANSMITTER/BEAT	A	1 N	N	C	
HITACHI HD64180 CPU./SBC.	DA	9 N	Y	C	
ADC./DAC./ISOLATION AMP./RHEOBASE/ECG./AMPLITUDE	AD	9 N	N		
CUBE/SCSI./DMA./SRAM./DISK CONTROLLER/ETHERNET	DA	9 N	N	C	42
STORAGE/MUSIC SYNTHESIS/SCIENTIFIC/IO./NUBUS/RAM.	DA	2 N	N	C	
T-COMPENSATION/BW./'WIDEBAND'/RC./POLE FREQUENCY	A	9 N	N	C	
EXTENDS THE SCOPE/CURVE/PH-METER (VOLTMETER)	A	3 N	N	C	
CONTINUOUSLY SWITCHED/ANALOG PROCESSOR	A	4 N			
VOLTMETER ACCESSORY/LED./UP-DOWN COUNTER/CMOS.	AD	5 N	N		
10MHZ/SOLID-STATE/MOSFET./JFET./CW./RTTY.	A	3 N		C	
RS232 PORT/IO./ACIA./ROM./SRAM./SINGLE-CHIP/SBC.S	D	2 N	N	C	57
KIT/CDM-4 DECK/MOTHER BOARD/LASER/STEREO/SOUND	DA	6 Y	N		
PROCESSOR/CLOCK DATA/TIME SETTING ROUTINE/BUS	DA	3 N	Y	C	
BIT/WORD/CODEC/UDLT/DIGITAL-DATA/VOICE-DIGITIZING	DA	9 N	N	C	
BANDPASS FILTER/FLUCTUATING/OA.	AD	2 N		C	
LIGHT PULSE OUTPUT/DETECTED/REVERSE BIASED/HV./ITT	AD	8 N	N	C	
DAC./8-BIT A-TO-D/OA.S/FF.S/PHASE CURRENTS/DRIVER	AD	2 N	N	C	
8-DIGIT 16-SEGMENT ALPHANUMERIC/EPROM.	D	5 N		C	
SIGNAL-PROCESSING/TIME DELAY/SH./MEMORY	AD	2 N	N	C	
CORE POSITION/TUNED CCT/HYPODERMIC DART/RADIO	A	7 N	N	C	
VIDEO IC/INTERFACE/ANIMATED/\$25/TV./DMA.	DA	6 N			
OPTO-ISOLATORS/PLL./VCO./1 DATA-TRANSMISSION LINE	DA	9 N	N	C	
AUDIO/FADING/BIFET. OA./EQUALIZATION	A	7 Y			
ADC./BILATERAL/OA./HIGH-SPEED/SINEWAVE & SAWTOOTH	AD	9 N	N		42
SINGLE-POINT/SCAN/SOFTWARE/CPU./EPROM./ADC./DAC.	AD	3 N	N	C	
ALIASING/SOFTWARE PROGRAMMABLE/CMOS./GLOSSARY	AD	7 N	N	C	
STEREO/NIC	A	1 N		C	

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DUAL-GATE MOSFET./AUDIO/LOW-NOISE/OA./TUNABLE	A	4	Y	N	3
RF./100MHZ/IMD./SSB./LO.	A	4	N	N	
300V ELECTROSTATIC/PIEZOELECTRIC/SIDE LOBES/SOUND	A	6	N	N	C
IBM/RASTER-PRINTER ACCELERATOR/500% FASTER/UP.	DA	9	N	Y	C
PH AMP./APPLE II MICROCOMPUTER/GPIB./DVM.	DA	2	N	N	
DECADE COUNTER/CHANNEL/UP TO 10 INPUTS/BETTER SNR.	AD	1	N	N	C
POLAROID SENSOR/ECHO/TRANSDUCER/DISTANCE/COMPUTEFAD		9	N	Y	C
REGULATED/DIODE/FILTER CAPACITOR/TRANSFORMER/RMS.	A	4	N	N	3
LOADED DICE PROBLEM/COST/LYAPUNOV FUNCTION/OA.S	A	4	N	N	C
OPTOISOLATORS/COUNTER/OA.S BUFFER/INTEGRATOR	DA	5	N	N	C
TIMER/UP-DOWN/KEYBOARD/99 POSITIONS/EQUALIZER	AD	8	N	Y	C
ROM./DYNAMIC-MEMORY/UP.S/MS-DOS./BIOS./IO./DMA.	D	9	N	N	C
MAINS/EMERGENCY/COMPUTER/LOW VOLTAGE DETECTOR/DA(AD		2	N	N	C
THRESHOLD COMPARATOR/ADC./SYNCHRONIZATION/SCAN	DA	2	N	N	C
BANDPASS FILTERS/BALANCED MODULATOR-DEMODULATOR	AD	9	N	N	C 69
HF. SSB./COMMUNICATIONS/LO./AGC./RF./TIMER/RELAY	A	2	N	N	3
SERIAL/UART./LED. READOUTS/ASCII./COUNTER	D	3	N		C
CRYSTAL VIDEO RECEIVER/DETECTOR	A	3			C
TEXAS INSTRUMENTS TI-30/DIGITAL/TRANSISTOR DRIVER	D	2	N	N	
INEXPENSIVE/DIODE/CRYSTAL SOCKETS/BCD.	AD	4	Y		
SENSOR/POWER TRANSMITTER/GENERATOR ROTORS/STRESSAD		9	N	N	C 88
FULL SCREEN OF TEXT/CONVERTER/ALLOPHONES/ASCII.	DA	5	Y	Y	C
THD./PS./AUDIO/CMR.	A	4	N	N	
SSB./BFO./HETERODYNING/DIODE RING-MODULATOR/RF.	A	2	N	N	C
DYNAMIC MATCHING/ENERGY/MONITORING/MODULATING/DAC.AD		6	N	N	C
FLAT GAIN/LOW-COST/INPUT PROTECTION/SMALL-SIGNAL	A	2	N	N	C
TELCOM SWITCH & LOOP SENSE/TRIAC DRIVER/MODEM	AD	5	Y	N	C
SPIKES OF +-75V/HV. RATINGS	AD	7	N		C
TTL.-ECL./ECL. TO TTL. CONVERSION/SAMPLE/HOLD/TV.	AD	9	N	N	C
REED RELAY/MORSE-CODE/CW./DIGITAL/PULSES/HAM SHACK	D	3	N	N	
DISPLAY KEYPRESSES & MESSAGES/INTERFACE/ASCII.	D	6	N	Y	
TRANSFORMER/SW./HAMS/RESTORATION/SPEAKER	A	3	N	N	C
LIQUID JET/STREAM/GLASS CAPILLARIES/PIEZOELECTRIC	A	2	N	N	C
CORE/TRANSFORMER/800V/MOSFET./FLYBACK	A	2	N		
TIME/COUNTER/D-TYPE FF./LED./RELAY/1HZ PULSES	DA	1	N	N	C
SCHOTTKY DIODE/BROADBAND TRANSFORMER/JFET./QRP	A	4	Y	N	
DEBOUNCE/AUDIO GENERATOR/KEYPAD/DATA BUS	D	2	N		C
IMAGE CLOCK/CW./SPEED, VOLUME, TONE, WEIGHT	DA	4	N	N	C
MOTOR/HEAT SINK/SMOOTHER/TRANSFORMER/VERY SIMPLE	A	1	N	N	E
EXCLUSIVE-OR GATES/LATCH SWITCH/INVERTERS/DISPLAY	D	1	N	N	C
1MHZ & 100MHZ REPETITION RATE/TTL./OSCILLATOR	D	4	N	N	57
COMMON-MODE VOLTAGE/INSTRUMENTATION	AD	6	N		C
OSCILLOSCOPE CRT./ISI-60A/PHOTODIODE/STENCIL	A	3	N	N	C
ATTENUATORS/V-TO-I CONVERTER/COMPLEX	AD	6	N		C
THUMBWHEEL SWITCHES/VARIABLE-FREQUENCY	DA	4	N		C
STROBE LINE/PULSES/NAND GATE/TIMING	D	1	N		
PRIORITY/16-LINE DECODER/SWITCHES/VDU. STROBE/LOCK	D	1	N	N	C
PULSE/COMPARATORS/LIGHT TRANSMITTED/PHOTO-DIODE	DA	2	N	N	C
FKSTB/STROBE/DAV/ASCII./EPROM./5-ROE BY 4-COLUMN	DA	5	N	?	C

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POTENTIOMETER/TIMING CAPACITOR/KIM-1 COMPUTER/6502	AD	3	N	Y	C	
		1				
BATTERY-POWERED/MUSICAL DEVICE	AD	2			C	42
VDU./MATRIX CODE/CONTROL/SHIFT/REPEAT/20MA/TTL.	D	4	N	Y	C	E
JUMPING/HEART RATE/OXYGEN UPTAKE/INTEGRATOR	AD	5	N	N	C	
3 LINE TO 8 LINE DECODER-DEMUX./MATRIX KEYBOARD	DA	5	N	Y	C	
RF./OSCILLATOR/VARACTOR DIODES/DETECTOR	A	5	N		C	
VERNAM CIPHER/PRIMES/MERSENNE/LOOPBACK	DA	9	N		C	
REDUCE/RCA/GAIN IS 16.4DB AT 1MHZ/6DB AT 5MHZ/RLC.	A	1	N	N	C	
PLL./PIEZORESISTIVE/BLOOD/OA./ACTIVE FILTER/ANIMAL	AD	4	N	N	C	AG
CONTROL CCT/PRESSURE/REACTION FURNACE/THERMOCOUP	A	5	N	N	C	25
DTACK/RAM./EPROM./DUAL UART./ADDRESS DECODING/HALT	D	5	N	N	C	
TYPE-AHEAD BUFFER/PROGRAMMABLE/MESSAGES/FIFO.	DA	7	Y	N		
MAGNITUDE COMPARATORS/TIMING/LONG/SHORT	D	1	N		C	
PRECISION/RF. MARKER TRANSMITTER/DRIVE A LED.	DA	6	N	N		
BALANCE/REED RELAY/TIME CONSTANTS/ACCURACY/0.05%	A	4	N	N	C	
ELIMINATES THE THUMP/MOD.S/TR./RF./FET./BW./FILTER	AD	1	N	N	C	
FEEDBACK/DRIVING POINT ADMITTANCE (DPA)/EXTENDED	D	4	N	N		
PHONO-TAPE SPEED CHANGER		6				
RECEIVER'S/RECORDING/ANIMAL/AMP./VCO./ANTENNA	DA	3	N	N	C	
MOD.S/CRA 90 PS./BILATERAL/TRIACS/LED./GATES/TIMER	DA	3	N	N	C	
DELAY/SWITCH TRANSISTOR/FEEDBACK/TRANSFORMER	AD	5	N	N	C	
8-CHANNEL MUX.S/SHIFT & CONTROL KEYS/COUNTER	DA	2	N	N		
CDS SENSOR/LEVEL/STORAGE OSCILLOSCOPE/RESISTOR	AD	5	N	Y		
AGC./SINE TO TTL./QCM/PS./HIGH-GAIN FEEDBACK AMP.	AD	6	N	N	C	39
PWM./MOSFET. POWER/AC. INDUCTION MOTORS/HYSTERESIS	A	9	N	N	C	
MOD.S/DILUTION REFRIGERATOR/GORDON COUPLER/ROD	A	6	N	N	C	
FUNDAMENTAL MODE/FREQUENCY COUNTER	A	1	Y			
VSWR./INPUT MATCHING/INDUCTORS/GAIN/PHASE/STABLE	A	6	N	N	C	
TRANSMITTER PTT./KEYBOARD/AUDIO AMP.	AD	3	Y			
QRP/OSCILLATOR/METAL TUBE/450V/PLATE/PI-NETWORK	A	3	N	N	C	
BATTERY-CHARGING/PRELOADED CELLS/COMPUTERS/POWER	AD	8	N	N	C	
TRANSCONDUCTANCE/TRANSIMPEDANCE/FOCAL PLANE/77 K	A	3	N	N	C	
12V REED RELAY/GAS/SOLENOID VALVE/O\2 SENSOR	A	4	N	N	C	
HIGH IMPEDANCE INPUT/2 LOW IMPEDANCE OUTPUTS/MUSIC	A	3	Y	N		
CRT./RTTY./BAR GRAPH/TUNING INDICATOR/MATRIX	AD	1	N	N	C	
74C923 20-KEY/KEYSWITCH/LOGIC/X-INPUTS/Y-INPUTS	D	1	N	N		
OSCILLATOR/BETWEEN 22DEG C & 43DEG C/STABILITY	A	2	N	N	C	
PRODUCT DETECTOR/BFO. & TANK CCT/PULSE DETECTOR	AD	9	N	N		
TEMPERATURE/SENSOR/DAC./ADC./POTENTIOMETER/BASIC	AD	9	N	Y	C	
TUNING COIL/GALENA/GERMANIUM DIODE	A	6	N		C	
CMOS. PLL./AMPLITUDE/DECODE/SUMMING AMP./FILTER	AD	5	N	N		
MOD.S/OSCILLATOR/FUNDAMENTAL FREQUENCY/BNC	A	2	Y	N	C	
VEHICLES/BOATS/OSCILLATOR-DIVIDER/TV.	D	1	Y			
GATING/REDUCES CCT DEAD-TIME/CFD./TDC.S/NIM LOGIC	A	5	N	N	C	
PZT./12-BIT/SIZE & TRAJECTORY/FLAME SPECTROSCOPY	DA	5	N	N	C	
LED. DRIVER/REMOTE-CONTROL/ALGAAS. SUPER-BRIGHT	A	3	Y	N	C	
PHOTODIODE/STEPPING THE VOLTAGE UP/OPTICAL FIBRE	A	5	N	N	C	
PHASE COMPARATOR/2MA CURRENT SOURCE/OA./VELOCITY	AD	5	N	N	C	27

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BANDPASS/SOUND TRAP/CURVE/TV./VIDEO	A	3		C	
SCHMITT TRIGGER/LOW-LEVEL	A	2	N	N	C
STABLE/EASILY TUNABLE/BEYOND THE USUAL 3DB ROLLOFF	A	2	N	N	C 95
SCHMITT TRIGGER/RADIATOR/RECEIVER HORN	A	9	N		C
METER/UCO/RF./FUNDAMENTAL-MODE/OVERTONE	A	2	N	N	
RF./METER/JFET./ZENER/BIPOLAR/SEMICONDUCTORS	A	4	N	N	
SOURCE/HARMONICS/TUNABLE/VFO./LC.	A	3	N		
BEEPER/DATA BUS		3			C E
RADIO-WAVE DETECTOR/CAT'S WHISKER/COLLINS/WINDING	A	5	N	N	C
HORIZONTAL-VERTICAL SCAN/SWITCHING/CAMERA/COLOR	A	3	N	N	
HV./PC/TUBE/FALL & RISE TIMES <2NS, & JITTER <2NS	A	5	N	N	C 5
CODE-PRACTICE/CW. RECEIVER	A	5			
SIMPLEST/TUNING/GERMANIUM DIODE/PHONE	A	3	N		
MODES/PIEZOELECTRIC CRYSTAL/SINEWAVE	A	3	N		C
TRF. RADIO/GALENA/CAT'S WHISKER	A	4			
120V AC./LANTERN BATTERIES/CELL	A	1			
MEASURE COIL Q/INDUCTANCE/CAPACITANCE	A	4	N		
2 TO 6MHZ RANGE		1			
EASY SPOTTING		1			
PIA./POSITION/HORIZONTAL/VERTICAL/ATOM-BASIC	AD	1	N	Y	C
RF./SIDETONE MONITOR/OSCILLATOR/CODE	AD	4	N		
SECONDARY CURRENT-LIMITING/PWM./REGULATOR/HF.	AD	9	N	N	C
RF. PROBE/FET. VOLTMETER/SIGNAL TRACING	A	5	Y		
LOW SSB. PHASE NOISE/Q OF 6200/CHEMICAL POLISHING	A	2	N	N	C
MICROSTRIP/RF./CAD./BULK ACOUSTIC WAVE (BAW)	A	9	N	N	C
EFFICIENTLY/GOOD CW. NOTE/TINY/RIG/QRP	A	3	N		
VARIATION OF THE CLASSIC "TUNED-PLATE, TUNED-GRID"	A	1	N	N	C
RECEIVER/100'S OF FEET/INDUSTRIAL	D	2	N		C
TRIGGER SOURCE/EMITTER JUNCTION/POWER TRANSISTOR	A	4	N	N	C
CORE/FLUX DENSITY/TOPOLOGY/COIL CURRENT/PWM.	A	4	N	N	C
IF. AMP./IF. BUFFER/LPF.	A	2	N		
BCD. PATTERN/X-RAY/ENCODER/DECODER/OPTO-SWITCH	AD	5	N	N	C
CAPACITOR/TUBE/DC. CURRENT METER (DCCM)/SPIKES	A	3	N	N	C
PARABOLIC POTENTIAL ATTENUATOR/RF. CAVITY/ELECTRON	A	6	N	N	C 8
VIDEO DISPLAY/SCREEN/RAM./CHARACTER GENERATOR ROM.	D	4	N	N	C
COUNT DOWN, UP, START, STOP & RESET/PRESET VALUE	D	1	N	N	57
VIDEO-RECORDERS/VERY LONG BASELINE INTERFEROMETRY	D	4	N	N	C
PIPELINE/MUX./8-BIT PIXELS/SMOOTHING/FRAME GRABBER	D	6	N	N	C
COMMON-CATHODE/5.24288MHZ CRYSTAL FREQUENCY	DA	4	N	N	C
DRIVING CCT/LED.S/DECADE COUNTER/PULSATING DC.	DA	9	Y	N	
DIGITAL/CABLES/BUFFER/PULSES/RECONSTRUCTION/LAN.S	D	6	N	N	C
LOGO/ANIMATION/ARCHITECTURE/PROGRAMMING/ASSEMBLY	D	9	N	Y	C
MUSICIAN/MIX	A	1	N		
0-TO-10V INPUT/FEEDBACK LOOP/REFERENCE	AD	2	N		C
		1			C
PROTECTION/ZENER DIODE/CURRENT-LIMITING/CAPNOGRAPH	A	4	N	N	C
COOLED SEMICONDUCTOR/LED.S/SENSORS/NUCLEAR	D	2	N	N	C
SIMS/SAMPLE PROBE TIP/0-12KV/0-8KV/PARTICLES	A	3	N	N	C