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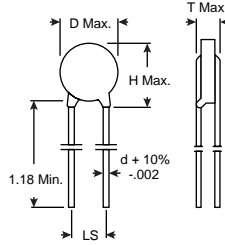
Varistors



METAL OXIDE VARISTORS VE SERIES

Applications:

- Transient suppression in automotive environments (such as ignition pulses, alternator field, mutual harness coupling, inductive load switching fan, heater and booster starts)
- Consumer appliances connected to 110 or 220 VAC lines
- Protection of expensive semiconductor components
- Protection of industrial equipment and motors endangered by AC line transients (computers, traffic controls, ground fault interrupters, etc.)
- Protection of equipment connected to telephone or signal lines, such as railroad and communications equipment, security and fire alarm systems
- Voltage regulation and ARC suppression across relay contacts
- Additional uses are found in instrumentation to protect input terminals from encountering destructive high voltages



Features:

- Superior response time of less than 25 ns
- Maximum clamping voltage up to 1350 V
- Superior clamping characteristics
- Three different case sizes
- Voltage range from 48 through 510 VRMS
- Polycrystalline zinc oxide dielectric
- Standardized lead spacings



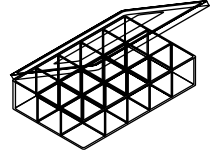
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DIMENSIONS (IN.)

Size	D Max (In.)	H Max (In.)	d (In.)	LS (In.)	T Max (In.)
A	.354	.472	.024	.200	.177
C	.669	.787	.031	.300	.197
D	.945	1.060	.031	.300	.197

For quantities greater than listed, call for quote.

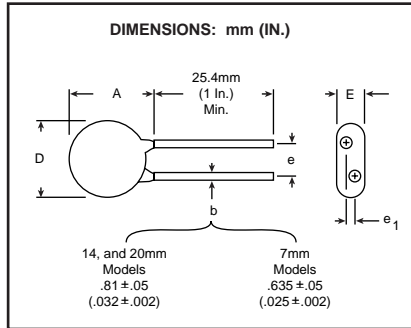
MOUSER STOCK NO.	Maximum Operating Voltage (Vrms)	Maximum Clamping Voltage (8 x 20µs)		Energy (Joules) (10 x 1000µs) Number of Surges		Permissible Peak Current (8 x 20µs)	Typical Capacitance f = 1k Hz	Typical Power	Case Size	Price Each			
		Vp (V)	Ip(A)	1	10					2 Surges	pF	Watts	1
581-VZA048XX	48	135	10	4	1.6	600	530	0.2	A	.31	.24	.20	.174
581-VZA075XX	75	200	10	6	1.8	600	400	0.2	A	.32	.24	.20	.176
* 581-VZA130XX	130	340	10	11	4	600	250	0.2	A	.36	.27	.23	.19
581-VZC130XX	130	340	50	38	25	2500	1000	0.6	C	.72	.55	.46	.39
581-VZD130XX	130	340	100	70	46	4000	2500	0.8	D	1.24	.94	.79	.693
581-VZA150XX	150	400	10	13	4.1	600	220	0.2	A	.29	.22	.19	.164
* 581-VZC150XX	150	400	50	45	30	2500	850	0.6	C	.72	.55	.46	.39
* 581-VZD150XX	150	400	100	80	56	4000	2000	0.8	D	1.20	.93	.78	.66
* 581-VZA250XX	250	645	10	21	7.3	600	130	0.2	A	.42	.32	.27	.23
* 581-VZC250XX	250	645	50	72	39	2500	500	0.6	C	.70	.53	.45	.391
* 581-VZA275XX	275	710	10	23	7.4	600	120	0.2	A	.32	.24	.20	.176
581-VZC275XX	275	710	50	75	40	2500	450	0.6	C	.71	.54	.45	.396
581-VZD275XX	275	710	100	140	105	4000	1200	0.8	D	1.49	1.13	.95	.832
581-VZD510XX	510	1350	100	200	150	4000	550	0.8	D	1.79	1.36	1.14	1.00



MOUSER STOCK NO.	Price Each
370-MOV-1	32.95

HARRIS METAL OXIDE VARISTORS LA SERIES

Harris varistors are voltage dependent, symmetrical, metal-oxide semiconductor devices. Their characteristics enable them to protect against high transient voltage spikes (when properly selected) to meet anticipated loads. When the protected equipment or circuit encounters high voltage spikes, the varistor impedance changes from a very high standby value to a very low conducting value, thus clamping the transient voltage to a protective level. The excess energy of the incoming high voltage pulse is absorbed by the Harris varistor, protecting voltage sensitive components against damage.



Features:

- Wide voltage / energy range
- Excellent clamp ratio
- Fast response time
- Low standby power
- No follow-on current
- Radial package
- Line voltage operation
- UL recognized

Outline Dimensions

Symbol	Varistor Model		
	V130LA V320LA	V480LA V575LA	
e ₁ + 1mm - (.039)	2.5 (.098)	4.0 (.157)	
E(max)	5.6 (.220)	7.3 (.287)	

Symbol	Dimensions: mm (In.)		
	Varistor Model Size		
	7mm	14mm	20mm
A (max)	11.7 (0.461)	18.9 (0.744)	25.5 (1.01)
D (max)	8.7 (0.343)	16.4 (0.646)	22.5 (0.886)
e + 1mm - (.039)	5.0 (0.197)	7.5 (0.296)	7.5 (0.296)
Typical Weight (grams)	0.5	2	3

For quantities greater than listed, call for quote.

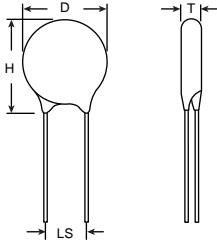
GE Number	MOUSER STOCK NO.	Size Disc Dia. (mm)	Device Marking	Maximum Ratings (25°C)				Characteristics					Typical Capacitance @ f=1MHz (pF)	Price Each			
				Continuous		Transient		VNOM Varistor Peak Voltage			Max. Clamping Voltage VC @ Test Current (8x20µs)			1	100	500	1000
				RMS Voltage	DC Voltage	Energy (10/1000µs)	Peak Cur (8/20µs)	Min.	Max @ IMA DC	Max @ IMA AC	Vc	Ip					
				Volts	Volts	Joules	Amps	Volts	Volts	Volts	Volts	Volts					
V130LA1	570-V130LA1	7	1301	130	175	7	800	184	255	273	390	10	180	.38	.35	.32	.30
V130LA2	570-V130LA2	7	1302	130	175	10	1200	184	232	254	340	10	180	.42	.39	.36	.33
V130LA10A	570-V130LA10A	14	130L10	130	175	35	4500	184	232	254	340	50	1000	.70	.64	.59	.55
V130LA20A	570-V130LA20A	20	130L20	130	175	70	6500	184	232	254	340	100	1900	.93	.86	.79	.73
V130LA20B	570-V130LA20B	20	130L20B	130	175	70	6500	184	220	238	325	100	1900	.96	.88	.81	.76
V150LA1	570-V150LA1	7	1501	150	200	8	800	212	284	301	430	10	150	.42	.39	.36	.33
V150LA2	570-V150LA2	7	1502	150	200	11	1200	212	268	282	395	10	150	.42	.39	.36	.33
V150LA10A	570-V150LA10A	14	150L10	150	200	40	4500	212	268	282	395	50	800	.70	.64	.59	.55
V150LA20A	570-V150LA20A	20	150L20	150	200	80	6500	212	268	282	395	100	1600	.93	.86	.79	.73
V150LA20B	570-V150LA20B	20	150L20B	150	200	80	6500	212	243	255	360	100	1600	.96	.88	.81	.76
V250LA2	570-V250LA2	7	2502	250	330	12	800	354	453	509	730	10	110	.46	.42	.39	.36
V250LA4	570-V250LA4	7	2504	250	330	17	1200	354	429	472	650	10	110	.46	.42	.39	.36
V250LA20A	570-V250LA20A	14	250L20	250	330	70	4500	354	429	472	650	50	500	.70	.64	.59	.55
V250LA40A	570-V250LA40A	20	250L40	250	330	130	6500	354	429	472	650	100	1000	.93	.86	.79	.73
V275LA2	570-V275LA2	7	2752	275	369	14	800	389	515	579	775	10	100	.46	.42	.39	.36
V275LA4	570-V275LA4	7	2754	275	369	20	1200	389	473	522	710	10	100	.46	.42	.39	.36
V275LA20A	570-V275LA20A	14	275L20	275	369	75	4500	389	473	522	710	50	450	.70	.64	.59	.55
V275LA40A	570-V275LA40A	20	275L40	275	369	140	6500	389	473	522	710	100	900	.93	.86	.79	.73
V275LA40B	570-V275LA40B	20	275L40B	275	369	140	6500	389	473	495	680	100	900	.96	.88	.81	.76
V300LA4	570-V300LA4	7	3004	300	405	22	1000	420	517	579	775	10	90	.51	.47	.43	.40
V320LA20A	570-V320LA20A	14	320L20	320	420	90	4500	462	565	635	850	50	380	.87	.80	.74	.69
V320LA40B	570-V320LA40B	20	320L40	320	420	160	6500	462	540	580	810	100	750	1.12	1.03	.95	.88
V480LA40A	570-V480LA40A	14	480L40	480	640	105	4500	670	825	914	1240	50	450	1.00	.92	.85	.78
V480LA80B	570-V480LA80B	20	480L80	480	640	180	6500	670	790	878	1160	100	900	1.36	1.25	1.15	1.06
V575LA40A	570-V575LA40A	14	575L40	575	730	120	4500	805	1000	1060	1500	50	370	1.36	1.25	1.15	1.06
V575LA80B	570-V575LA80B	20	575L80	575	730	220	6500	805	960	1010	1410	100	750	1.86	1.71	1.57	1.46

Varistors and Thermistors



METAL OXIDE VARISTORS

Dimensions (mm)	Series		
	5mm	7mm	10mm
D (max)	7.5	9.0	14.0
L.S.	5.0	5.0	7.5
H (max)	50V - 175V 230V - 625V	10.0 10.0	12.0 12.0
T (max)	50V 60V - 300V 385V - 625V	3.5 6.0 ---	4.2 6.0 8.5



Features:

- Fast response time
- Low leakage current
- Wide voltage and energy ratio
- Low standby power and no follow-on current
- High performance in surge current handling capability
- High performance in clamping voltage characteristics

Applications:

- IC diode, transistor thyristor, triac, and other semiconductor protection
- Suppression on main-borne transients in consumer electronics and industrial electronics
- Suppression of internally-generated spikes in electronics circuit
- Surge protection in communication, measuring, and controller electronics
- Surge protection in home appliances
- Relay surge absorption

5mm / .1Watt

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Maximum Operating Voltage		Energy Joules (2ms)	Varistor Voltage V @ 0.1mA	Max. Clamping Voltage V @ 5A	Surge Current (A)	Price Each		
	AC	DC					1	100	500
1490-82V05	50	65	1.7	82	145	200	.43	.31	.24
1490-100V05	60	85	2.0	100	175	200	.43	.31	.24
1490-120V05	75	100	2.5	120	210	200	.43	.31	.24
1490-150-05	95	125	3.0	150	260	200	.43	.31	.24
1490-200V05	130	170	4.0	200	355	200	.43	.31	.24
1490-220V05	140	180	4.5	220	380	200	.43	.31	.24
1490-240V05	150	200	5.0	240	415	200	.43	.31	.24
1490-270V05	175	225	6.0	270	475	200	.43	.31	.24
1490-330V05	210	275	7.0	330	575	200	.43	.31	.24
1490-360V05	230	300	7.5	360	620	200	.43	.31	.24
1490-390V05	250	320	8.0	390	675	200	.43	.31	.24
1490-430V05	275	350	9.0	430	745	200	.43	.31	.24
1490-470V05	300	385	10.0	470	810	200	.43	.31	.24

7mm / .25Watt

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Maximum Operating Voltage		Energy Joules (2ms)	Varistor Voltage V @ 1mA	Max. Clamping Voltage V @ 10A	Surge Current (A)	Price Each		
	AC	DC					1	100	500
1490-82V07	50	65	3.5	82	135	600	.47	.33	.25
1490-100V07	60	85	4.0	100	165	600	.47	.33	.25
1490-120V07	75	100	5.0	120	200	600	.47	.33	.25
1490-150V07	95	125	6.0	150	250	600	.47	.33	.25
1490-200V07	130	170	10.0	200	340	600	.47	.33	.25
1490-220V07	140	180	10.0	220	360	600	.47	.33	.25
1490-240V07	150	200	10.0	240	395	600	.47	.33	.25
1490-270V07	175	225	12.0	270	455	600	.47	.33	.25
1490-330V07	210	275	14.0	330	550	600	.47	.33	.25
1490-360V07	230	300	15.0	360	595	600	.47	.33	.25
1490-390V07	250	320	17.0	390	650	600	.47	.33	.25
1490-430V07	275	350	20.0	430	710	600	.47	.33	.25
1490-470V07	300	385	20.0	470	775	600	.47	.33	.25

10mm / .4Watt

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Maximum Operating Voltage		Energy Joules (2ms)	Varistor Voltage V @ 1mA	Max. Clamping Voltage V @ 25A	Surge Current (A)	Price Each		
	AC	DC					1	100	500
1490-82V10	50	65	8.0	82	135	1250	.65	.46	.35
1490-100V10	60	85	10.0	100	165	1250	.65	.46	.35
1490-120V10	75	100	12.0	120	200	1250	.65	.46	.35
1490-150-10	95	125	16.0	150	250	1250	.65	.46	.35
1490-200V10	130	170	20.0	200	340	1250	.65	.46	.35
1490-220V10	140	180	23.0	220	360	1250	.65	.46	.35
1490-240V10	150	200	25.0	240	395	1250	.65	.46	.35
1490-270V10	175	225	30.0	270	455	1250	.65	.46	.35
1490-360V10	230	300	35.0	360	595	1250	.65	.46	.35
1490-390V10	250	320	40.0	390	650	1250	.65	.46	.35
1490-430V10	275	350	45.0	430	710	1250	.65	.46	.35
1490-470V10	300	385	45.0	470	775	1250	.65	.46	.35
1490-620V10	385	505	45.0	620	1025	1250	.65	.46	.35
1490-680V10	420	560	45.0	680	1120	1250	.65	.46	.35
1490-750V10	460	615	50.0	750	1240	1250	.65	.46	.35
1490-780V10	485	640	50.0	780	1290	1250	.65	.46	.35
1490-510V10	510	670	55.0	820	1355	1250	.65	.46	.35
1490-550V10	550	745	60.0	910	1500	1250	.65	.46	.35
1490-625V10	625	825	65.0	1000	1650	1250	.65	.46	.35

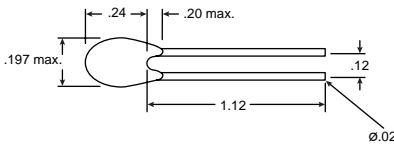
NTC THERMISTORS

Specifications

- Temperature range: -40°C ~ +125°C
- Maximum power rating: 450mW (@ 25°C)
- Dissipation factor: 4.5mW/°C (@ 25°C)

Features:

- Small size, light weight
- Heat resistant, and moisture proof
- Almost indefinite life
- Superior manufacturing process produces large quantities of homogeneous components



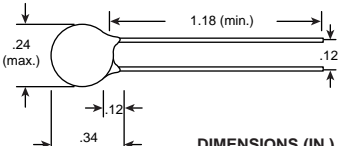
DIMENSIONS (IN.)

B constant signifies the dimensions of the resistance changes against a temperature between two optional temperatures.

MOUSER STOCK NO.	Ω @ 25°C Value	B (K) (25°C/50°C) B-Constant	I (Max) @ 25°C (mA)	Price Each			
				1	100	500	1000
334-31101	100	3100	247.55	.78	.52	.47	.41
334-31201	200	3100	175.05	.78	.52	.47	.41
334-31301	300	3100	142.93	.78	.52	.47	.41
334-31501	500	3100	110.71	.78	.52	.47	.41
334-38102	1K	3800	105.13	.78	.52	.47	.41
334-38152	1.5K	3800	85.84	.78	.52	.47	.41
334-38202	2K	3800	74.34	.78	.52	.47	.41
334-39302	3K	3900	63.31	.78	.52	.47	.41
334-39502	5K	3900	49.04	.78	.52	.47	.41
334-42103	10K	4200	39.35	.78	.52	.47	.41
334-42153	15K	4200	32.13	.78	.52	.47	.41
334-42203	20K	4200	27.82	.78	.52	.47	.41
334-44503	50K	4400	19.14	.78	.52	.47	.41
334-45104	100K	4500	14.12	.78	.52	.47	.41
334-47204	200K	4700	10.86	.78	.52	.47	.41
334-47404	400K	4700	7.68	.78	.52	.47	.41

NTC THERMISTORS

These Mouser negative temperature coefficient thermistors decrease in resistance as temperature increases.



DIMENSIONS (IN.)

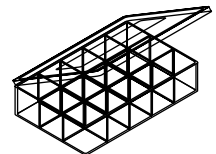
Specifications

- Thermal dissipation constant: 7mW / °C

MOUSER STOCK NO.	R @ 25°C (Ω)	B-Constant	I (Max) @ 25°C (mA)	Price Each			
				1	100	500	1000
334-3827-501	500	3800±300	90	.78	.52	.47	.41

NTC THERMISTOR KIT

Contains 60 pieces
5 Each: 100, 200, 300, 500, 1K, 2K, 3K, 5K, 10K, 15K, 20K, 50K, Ω @ 25°C



MOUSER STOCK NO.	Price Each
370-NTC-T2	29.95

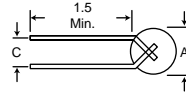
NTC THERMISTORS

NTC (Negative Temperature Coefficient) thermistors decrease in resistance as temperature increases. The maximum operating temperature is 150°C. Zero-power resistance values at 25°C range from 10Ω to 250KΩ; other values available upon request.

Resistance tolerance is ±10%, except where denoted by an asterisk (*) which is ±20%

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Keystone Type	Ohms (Ω)	A (In.)	B (In.)	C (In.)	D (AWG)	Price Each	
							1	10
* 527-1004-100	RL1004-65.6-59D1	100	.110	.120	.100	26	2.29	2.09
527-1003-500	RL1003-312-73-D1	500	.110	.110	.100	26	2.27	2.06
527-1007-1K	RL1007-624-73-D1	1K	.110	.150	.100	26	2.27	2.06
527-1003-2K	RL1003-1157-95-D1	2K	.110	.110	.100	26	2.27	2.06
527-1003-3K	RL1003-1746-97-D1	3K	.110	.110	.100	26	2.27	2.06
527-1004-5K	RL1004-2910-97-D1	5K	.110	.120	.100	26	2.27	2.06
527-1009-10K	RL1009-5820-97-D1	10K	.110	.170	.100	26	2.27	2.06
527-1005-10K	RL1005-5744-103-D1	10K	.110	.130	.100	26	2.27	2.06
527-1007-25K	RL1007-13.8K-120-D1	25K	.110	.150	.100	26	2.36	2.15
527-1003-50K	RL1003-26.7K-140-D1	50K	.110	.110	.100	26	2.36	2.15
527-1006-100K	RL1006-53.4K-140-D1	100K	.110	.140	.100	26	2.36	2.15
527-1004-200K	RL1004-104.7K155-D1	200K	.110	.120	.100	26	2.36	2.15
527-1006-250K	RL1006-135.2K138-D1	250K	.110	.140	.100	26	2.36	2.15
* 527-2004-25	RL2004-16.4-59-D1	25	.220	.130	.156	24	1.97	1.79
* 527-2007-50	RL2007-32.8-59-D1	50	.220	.160	.156	24	1.97	1.79
* 527-2003-100	RL2003-62.4-73-D1	100	.220	.120	.156	24	1.95	1.77
527-2006-200	RL2006-125-73-D1	200	.220	.150	.156	24	1.95	1.77



DIMENSIONS (IN.)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Keystone Type	Ohms (Ω)	A (In.)	B (In.)	C (In.)	D (AWG)	Price Each	
							1	10
527-2008-300	RL2008-187-73-D1	300	.220	.170	.156	24	1.95	1.77
527-2003-500	RL2003-289-95-D1	500	.220	.120	.156	24	1.95	1.77
527-2004-1K	RL2004-582-97-D1	1K	.220	.130	.156	24	1.95	1.77
527-2007-2K	RL2007-1164-97-D1	2K	.220	.160	.156	24	1.95	1.77
527-2006-2786	RL2006-1600-103-D1	2,786	.220	.150	.156	24	1.95	1.77
527-2005-4K	RL2005-2203-120-D1	4K	.220	.140	.156	24	2.07	1.88
527-2006-5K	RL2006-2753-120-D1	5K	.220	.150	.156	24	2.07	1.88
527-2012-10K	RL2012-5506-120-D1	10K	.220	.210	.156	24	2.12	1.93
527-2006-25K	RL2006-13.3K-140-D1	25K	.220	.150	.156	24	2.07	1.88
527-2005-50K	RL2005-27K-138-D1	50K	.220	.140	.156	24	2.07	1.88
527-2008-100K	RL2008-52.3K-155-D1	100K	.220	.170	.156	24	2.07	1.88
* 527-3004-10	RL3004-6.56-59-D1	10	.320	.130	.250	24	2.00	1.82
* 527-3504-50	RL3504-31.2-73-D1	50	.370	.130	.250	24	1.98	1.80
527-3006-100	RL3006-59.4-85-D1	100	.320	.150	.250	24	1.98	1.80
527-3004-250	RL3004-144-95-D1	250	.320	.130	.250	24	1.98	1.80
527-3004-500	RL3004-291-97-D1	500	.320	.130	.250	24	1.98	1.80
527-3005-1K	RL3005-574-103-D1	1K	.320	.140	.250	24	1.98	1.80

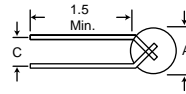
INRUSH CURRENT LIMITERS

Limiters protect against extremely high peak inrush current, especially in AC/DC switching power supplies. These NTC thermistors effectively control surge currents because the thermal time constant of the current limiter is longer than the electrical time constant (RC) of the thermistor and the capacitor.

Also available, by special order, with kinked leads.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Keystone Type	Ohms (Ω)	Amps	A Max. (In.)	B Max. (In.)	C Ref. (In.)	D (AWG)	Price Each		
								1	10	100
527-CL11	CL11	0.7	12	.77	.22	.328	18	2.17	1.97	1.58
527-CL20	CL20	1.3	8	.55	.21	.328	18	2.06	1.87	1.50
527-CL30	CL30	2.5	8	.77	.22	.328	18	2.17	1.97	1.58
527-CL40	CL40	5	6	.77	.22	.328	18	2.17	1.97	1.58
527-CL50	CL50	7	5	.77	.26	.328	18	2.17	1.97	1.58
527-CL60	CL60	10	5	.77	.22	.328	18	2.17	1.97	1.58
527-CL70	CL70	16	4	.77	.22	.328	18	2.17	1.97	1.58
527-CL80	CL80	47	3	.77	.22	.328	18	2.17	1.97	1.58
527-CL90	CL90	120	2	.93	.22	.328	18	2.35	2.14	1.71
527-CL101	CL101	0.5	16	.93	.22	.328	18	2.35	2.14	1.71



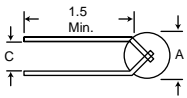
DIMENSIONS (IN.)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Keystone Type	Ohms (Ω)	Amps	A Max. (In.)	B Max. (In.)	C Ref. (In.)	D (AWG)	Price Each		
								1	10	100
527-CL110	CL110	10	3.2	.40	.17	.250	24	2.04	1.85	1.48
527-CL120	CL120	10	1.7	.40	.17	.250	24	2.04	1.85	1.48
527-CL130	CL130	50	1.6	.45	.17	.250	24	2.04	1.85	1.48
527-CL140	CL140	50	1.1	.45	.17	.250	24	2.04	1.85	1.48
527-CL150	CL150	5	4.7	.55	.18	.328	22	2.06	1.87	1.50
527-CL160	CL160	5	2.8	.55	.18	.328	22	2.06	1.87	1.50
527-CL170	CL170	16	2.7	.55	.18	.328	22	2.06	1.87	1.50
527-CL180	CL180	16	1.7	.55	.18	.328	22	2.06	1.87	1.50
527-CL190	CL190	25	2.4	.55	.18	.328	22	2.06	1.87	1.50
527-CL200	CL200	25	1.7	.55	.18	.328	22	2.06	1.87	1.50
527-CL210	CL210	30	1.5	.40	.20	.250	24	2.04	1.85	1.48

PTC THERMISTORS

The values for dissipation constant and time constant listed in the table below are reference values. Actual values are a function of mounting, air flow and other factors which affect the PTC's (Positive Temperature Coefficient) ability to dissipate heat. Standard PTC's are supplied uninsulated, but can be supplied with an insulation upon request.



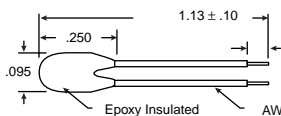
DIMENSIONS (IN.)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Keystone Type	Operating Voltage	Ohms (Ω) @ 25°C ±30%	Dissipation Constant mW/°C	Transition Temp. °C T _s	A (In.)	B (In.)	C (In.)	D (AWG)	Price Each		
										1	10	100
527-5305-12V1	RL5305-1-120-12-PTO	12	1	14	120	.60	.15	.33	20	2.53	2.30	1.84
527-5305-12V2	RL5305-2-120-12-PTO	12	2	14	120	.60	.16	.33	20	2.53	2.30	1.84
527-3005-12V10	RL3005-10-110-12-PTO	12	10	7	110	.35	.15	.25	24	2.28	2.07	1.66
527-3005-12V25	RL3005-25-110-12-PTO	12	25	7	110	.35	.15	.25	24	2.28	2.07	1.66
527-3006-25V50/30C	RL3006-50-30-25-PTO	25	50	7	30	.35	.15	.25	24	2.28	2.07	1.66
527-3006-25V50/40C	RL3006-50-40-25-PTO	25	50	7	40	.35	.15	.25	24	2.28	2.07	1.66
527-3006-25V50/50C	RL3006-50-50-25-PTO	25	50	7	50	.35	.15	.25	24	2.28	2.07	1.66
527-3006-25V50/60C	RL3006-50-60-25-PTO	25	50	7	60	.35	.15	.25	24	2.28	2.07	1.66
527-3006-25V50/70C	RL3006-50-70-25-PTO	25	50	7	70	.35	.15	.25	24	2.28	2.07	1.66
527-3006-25V50/80C	RL3006-50-80-25-PTO	25	50	7	80	.35	.15	.25	24	2.28	2.07	1.66
527-3006-25V50/90C	RL3006-50-90-25-PTO	25	50	7	90	.35	.15	.25	24	2.28	2.07	1.66
527-3006-25V50/100C	RL3006-50-100-25-PTO	25	50	7	100	.35	.15	.25	24	2.28	2.07	1.66
527-3006-25V50/110C	RL3006-50-110-25-PTO	25	50	7	110	.35	.15	.25	24	2.28	2.07	1.66
527-3006-25V50/120C	RL3006-50-120-25-PTO	25	50	7	120	.35	.15	.25	24	2.28	2.07	1.66
527-5506-50V5	RL5506-5-65-50-PTO	50	5	14	65	.60	.18	.33	20	2.53	2.30	1.84
527-4006-50V10	RL4006-10-110-50-PTO	50	10	10	110	.45	.17	.25	24	2.68	2.44	1.95
527-4010-50V50	RL4010-50-110-50-PTO	50	50	12	110	.45	.20	.33	22	2.53	2.30	1.84
527-3312-50V200	RL3312-200-110-50-PTO	50	200	9	110	.40	.23	.25	20	2.68	2.44	1.95
527-7510-120V10	RL7510-10-120-120-PTO	120	10	20	120	.80	.23	.33	18	2.99	2.72	2.18
527-6010-120V20	RL6010-20-120-120-PTO	120	20	18	120	.65	.23	.33	20	2.57	2.33	1.87
527-5510-120V25	RL5510-25-60-120-PTO	120	25	15	60	.60	.22	.33	20	2.57	2.33	1.87
527-4510-120V50	RL4510-50-120-120-PTO	120	50	12	120	.50	.20	.33	22	2.53	2.30	1.84
527-63-240V40/110C	RL6315-40-110-240-PTO	240	40	18	110	.65	.27	.33	18	2.68	2.44	1.95
527-55-240V50/65C	RL5515-50-65-240-PTO	240	50	17	65	.60	.27	.33	20	2.68	2.44	1.95
527-63-240V50/110C	RL6315-50-110-240-PTO	240	50	18	110	.65	.27	.33	18	2.68	2.44	1.95
527-60-240V100/120C	RL6015-100-120-240-PTO	240	100	18	120	.65	.27	.33	20	2.68	2.44	1.95
527-3020-240V1.5K	RL3020-1500-100-240-PTO	240	1.5K	12	100	.35	.31	.25	20	2.68	2.44	1.95
527-7020-480V1K	RL7020-1K-100-480-PTO	480	1K	18	100	.75	.32	.33	18	2.99	2.72	2.18
527-5020-480V2K	RL5020-2K-100-480-PTO	480	2K	15	100	.55	.32	.33	18	2.53	2.30	1.84
527-3020-480V5K	RL3020-5K-100-480-PTO	480	5K	12	100	.35	.31	.25	20	2.68	2.44	1.95

MINIATURE SENSORS 1°C ACCURACY

- Temperature accuracy: ±1°C @ 25°C
- Dissipation constant: 1.4mW/°C
- Time constant: 15 sec.
- Operating range: -50°C to +150°C



DIMENSIONS (IN.)

For quantities greater than listed, call for quote.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Ro @ 25°C	Temp. Coef. %/°C @ 25°C	Material	Price Each			MOUSER STOCK NO.	Ro @ 25°C	Temp. Coef. %/°C @ 25°C	Material	Price Each		
				1	10	100					1	10	100
527-0503-2K	2K	-3.83	MS73	2.05	1.98	1.73	527-0503-30K	30K	-4.32	MS96	2.05	1.98	1.73
527-0503-5K	5K	-4.43	MS95	2.05	1.98	1.73	527-0503-50K	50K	-4.84	MS120	2.05	1.98	1.73
527-0503-10K	10K	-4.40	MS97	2.05	1.98								



Wire Wound Resistors

TYPE CW SILICONE COATED WIRE WOUND RESISTORS

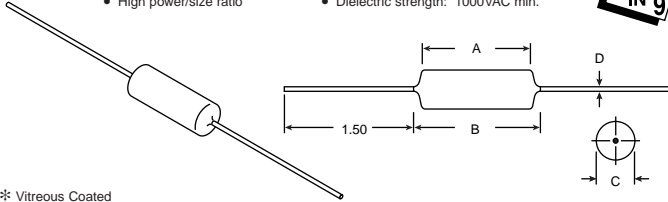
Features:

- Silicone coating
- High temperature
- Complete welded construction
- Excellent stability in operation
- High power/size ratio

Specifications:

- Resistance tolerance: $<1\Omega \pm 10\%$, $\geq 1\Omega \pm 5\%$
- Temp. coefficient: $\pm 90\text{PPM}/^\circ\text{C}$ below 1Ω
 $\pm 50\text{PPM}/^\circ\text{C}$ 1Ω - 7.5Ω
 $\pm 30\text{PPM}/^\circ\text{C}$ 10Ω - $25\text{K}\Omega$
- Dielectric strength: 1000VAC min.

NEW IN '97



* Vitreous Coated

Cross Reference Chart

Dale	Ohmite	Clarostat	Memcor Truohm
CW2B	* 23J	* VC3D	* VL3
CW5	* 25J	* VC5E	* VL5

DIMENSIONS (IN.)

Series	A	B	C	D
CW2B	.562	.622	.188	.032
CW5	.872	1.00	.312	.040

CW2B, 3 Watts

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Values (Ω)	Price Each			
		1	10	25	50
71-CW2B-Value	0.1, 0.22, 0.27	.95	.72	.65	.63
71-CW2B-Value	1.0, 2.0, 3.0, 5.0, 10, 15, 47, 100, 150, 270, 300, 1.0K	.71	.54	.49	.48
71-CW2B-Value	3.3K, 4.7K, 10K	.76	.58	.52	.51

CW5, 5 Watts

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Values (Ω)	Price Each			
		1	10	25	50
71-CW5-Value	0.1, 0.22, 0.27	1.30	1.08	.83	.58
71-CW5-Value	1.0, 3.0, 5.0, 10, 15, 20, 50, 75, 100, 120, 150, 200, 1.0K	.86	.71	.54	.53
71-CW5-Value	2.0K, 7.5K, 10K	.89	.73	.56	.55
71-CW5-Value	15K, 20K	1.12	.92	.71	.69
71-CW5-Value	22K	1.25	1.03	.79	.77

TYPE RS SILICONE COATED WIREWOUND - 1%

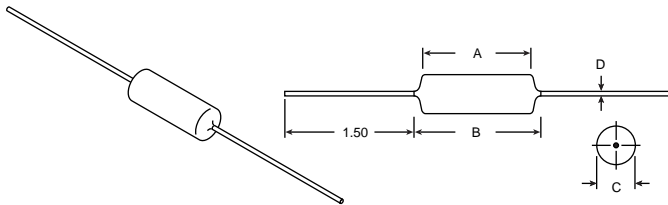
Features:

- Complete welded construction
- High temperature silicone coating
- Meets applicable requirements of MIL-R-26

Specifications:

- Resistance tolerance: $\pm 1\%$
- Dielectric strength: 1000VAC
- Insulation resistance: 1000M Ω

NEW IN '97



Cross Reference Chart

Dale	Ohmite	Clarostat	Memcor Truohm
RS2B	83F	SC3D	SL3
RS5	85F	SC5E	SL5

DIMENSIONS (IN.)

Series	A	B	C	D
RS2B	.560	.622	.187	.032
RS5	.875	1.00	.312	.040

RS2B, 3 Watts

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Values (Ω)	Price Each			
		1	25	50	100
71-RS2B-Value	0.1, 0.15, 0.25, 0.3, 0.33, 0.5, 0.75	.98	.92	.88	.88
71-RS2B-Value	1.0, 1.2, 1.5, 2.0, 3.0, 5.0, 7.5, 10, 12, 15, 20, 25, 30, 47, 50, 75, 100, 110, 120, 150, 180, 200, 250, 300, 390, 470, 560, 1.0K	.66	.62	.60	.59
71-RS2B-Value	1.5K, 2.0K, 2.2K, 6.8K, 10K,	.77	.72	.70	.69
71-RS2B-Value	20K,	1.14	1.07	1.03	1.02

RS5, 5 Watts

For quantities greater than listed, call for quote.

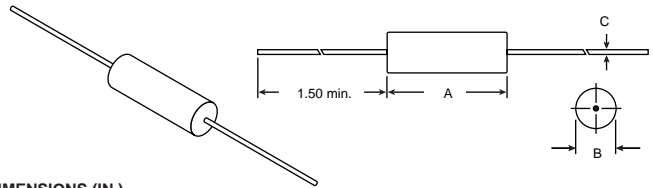
MOUSER STOCK NO.	Values (Ω)	Price Each			
		1	25	50	100
71-RS5-Value	0.5	1.18	1.09	1.02	.98
71-RS5-Value	1.0, 1.5, 2.0, 3.0, 4.0, 5.0, 10, 15, 20, 50, 100, 200, 1.0K	.99	.91	.86	.82
71-RS5-Value	1.5K, 2.2K, 10K	1.11	1.02	.96	.92
71-RS5-Value	25K	1.31	1.22	1.14	1.09
71-RS5-Value	40K, 50K	1.61	1.49	1.40	1.34
71-RS5-Value	68K, 75K	2.01	1.86	1.74	1.67

TYPE LVR LOW VALUE WIREWOUND RESISTORS - 1%

Specifications:

- Resistance tolerance: $\pm 1\%$
- Temperature coefficient: -55 to $+125^\circ\text{C}$, referenced to $+25^\circ\text{C}$
- Short time overload: 5 sec. at 5 times rated power
- Meets MIL-R-49465

NEW IN '97



DIMENSIONS (IN.)

Series	A $\pm .010$	B $\pm .010$	C $\pm .002$
LVR-3	.560	.205	.032
LVR-5	.925	.330	.040

LVR3, 3 Watts

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Values (Ω)	Price Each			
		1	5	10	25
71-LVR3-Value	0.005	1.50	1.32	1.28	1.23
71-LVR3-Value	0.01, 0.015, 0.02, 0.025, 0.03, 0.04, 0.05	1.28	1.20	1.16	1.12
71-LVR3-Value	0.07, 0.08, 0.1, 0.15, 0.2	1.22	1.14	1.10	1.06

LVR5, 5 Watts

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Values (Ω)	Price Each			
		1	5	10	25
71-LVR5-Value	0.005	1.90	1.65	1.60	1.54
71-LVR5-Value	0.01, 0.015, 0.02, 0.025, 0.03, 0.04,	1.50	1.32	1.28	1.23
71-LVR5-Value	0.05, 0.07, 0.1, 0.15, 0.2, 0.25	1.45	1.26	1.22	1.18

TYPE RH CHASSIS MOUNT WIREWOUND RESISTORS - 1%

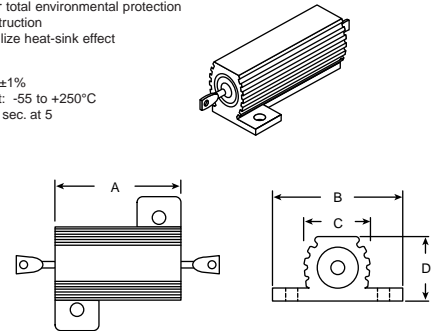
Features:

- Aluminum housed
- Molded construction for total environmental protection
- Complete welded construction
- Mounts on chassis to utilize heat-sink effect

Specifications:

- Resistance tolerance: $\pm 1\%$
- Temperature coefficient: -55 to $+250^\circ\text{C}$
- Short time overload: 5 sec. at 5 times rated power

NEW IN '97



DIMENSIONS (IN.)

Series	A	B	C	D
RH-10	.750	.800	.420	.390
RH-25	1.062	1.080	.550	.546
RH-50	1.968	1.140	.630	.610

RH10, 12.5 Watts

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Values (Ω)	Price Each			
		1	25	50	100
71-RH10-Value	0.01, 0.05, 0.1, 0.2, 0.5	3.93	3.53	3.21	2.95
71-RH10-Value	1.0, 3.0, 5.0, 10, 20, 30, 50, 75, 100, 120, 250	3.09	2.47	2.32	2.25

RH-25, 25 Watts

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Values (Ω)	Price Each			
		1	25	50	100
71-RH25-Value	0.01, 0.05, 0.1, 0.2, 0.25, 0.5	4.12	3.78	3.43	3.17
71-RH25-Value	1.0, 2.0, 2.5, 3.0, 4.0, 5.0, 10, 12, 15, 20, 25, 27, 30, 40, 47, 50, 75, 100, 200, 1.0K	3.09	2.47	2.32	2.25
71-RH25-Value	1.5K, 3.0K, 10K	3.53	2.95	2.65	2.58

RH-50, 50 Watts

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Values (Ω)	Price Each			
		1	25	50	100
71-RH50-Value	0.01, 0.1, 0.2, 0.3, 0.5, 0.75	4.39	4.03	3.69	3.43
71-RH50-Value	1.0, 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 7.5, 8.0, 10, 12, 15, 16, 20, 25, 30, 33, 40, 50, 100, 120, 150, 200, 500, 560, 1.0K	4.21	3.82	3.39	3.12
71-RH50-Value	1.5K, 10K	4.28	3.58	3.21	3.16



Resistors

VISHAY DALE 1% CMF, TYPE RN METAL FILM RESISTORS

Features:

- Very low noise
- Very low voltage coefficient
- Excellent high frequency characteristics
- Flame retardant epoxy coating
- MIL-R-10509

DIMENSIONS (IN.)

Series	A	B	C	D
RN55D	.240±.020	.090±.008	.278	.025±.002
RN60D	.344±.031	.145±.015	.425	.025±.002

CMF55/RN55D, 1/8W For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Range of Values (Ω)	Price Each			
		1	50	100	500
71-RN55D-F-Value	10Ω-301KΩ	.16	.113	.090	.075

CMF60/RN60D, 1/4W For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Range of Values (Ω)	Price Each			
		1	50	100	500
71-RN60D-F-Value	10Ω-1MΩ	.21	.18	.16	.09

* Available in 1/4W only

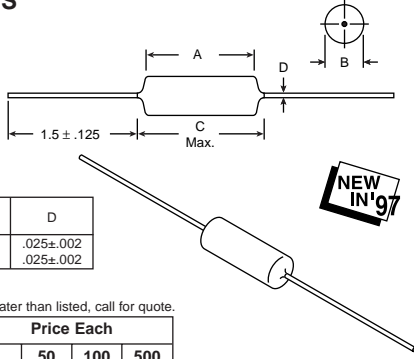


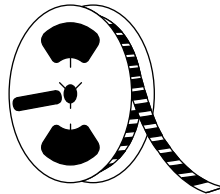
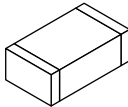
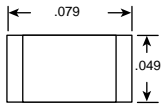
Table of Values in (Ω)									
10	75	402	1.5K	3.65K	8.66K	23.2K	51.1K	158K	
12.1	80.6	422	1.54K	3.92K	8.87K	24.9K	52.3K	182K	
15	90.9	432	1.69K	4.02K	9.09K	25.5K	54.9K	200K	
20	100	475	1.82K	4.64K	9.31K	26.7K	56.2K	221K	
22.1	121	499	2.0K	4.32K	10K	27.4K	57.6K	226K	
24.9	133	511	2.15K	4.75K	10.5K	28.7K	66.5K	249K	
27.4	150	523	2.21K	4.99K	10.7K	30.1K	68.1K	267K	
30.1	182	562	2.32K	5.11K	11.3K	30.9K	69.8K	274K	
33.2	200	681	2.37K	5.23K	12.1K	32.4K	71.5K	301K	
34.8	215	750	2.49K	5.36K	13K	33.2K	75K	*348K	
37.4	221	806	2.61K	5.62K	13.3K	34.8K	80.6K	*402K	
39.2	232	825	2.74K	6.04K	14.7K	38.3K	84.5K	*432K	
40.2	243	909	2.87K	6.19K	15K	39.2K	90.9K	*475K	
43.2	249	1.0K	2.94K	6.34K	17.4K	40.2K	97.6K	*499K	
45.3	274	1.05K	3.01K	6.81K	17.8K	41.2K	100K	*511K	
47.5	301	1.1K	3.09K	7.5K	18.2K	42.2K	105K	*562K	
49.9	316	1.21K	3.16K	7.68K	19.6K	43.2K	110K	*750K	
51.1	332	1.24K	3.24K	7.87K	20K	46.4K	121K	*806K	
56.2	348	1.27K	3.32K	8.06K	22.1K	47.5K	124K	*909K	
61.9	392	1.4K	3.48K	8.25K	22.6K	49.9K	150K	*1.0M	

VISHAY DALE 1% THICK FILM CHIP RESISTORS 0805 SIZE

0805 Case Style Specifications:

- Rated power: 1/10 watt
- Resistance tolerance: ±1%
- Max working voltage: 100V
- Operating temperature: -55°C to +150°C
- Temperature coefficient: ±100ppm

DIMENSIONS (IN.)

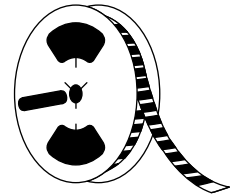
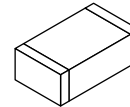
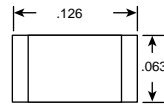


VISHAY DALE 1% THICK FILM CHIP RESISTORS 1206 SIZE

1206 Case Style Specifications:

- Rated power: 1/8 watt
- Resistance tolerance: ±1%
- Max working voltage: 200V
- Operating temperature: -55°C to +150°C
- Temperature coefficient: ±100ppm

DIMENSIONS (IN.)



Bulk Packs, Parts Packed on SMD Tape

MOUSER STOCK NO.	Price Per Value		
	1	50	100
71-CRCW0805-Value	.12	.044	.034

Tape and Reel

MOUSER STOCK NO.	Price Per Reel of 5000			
	1	2	5	10
71-CRCW0805-Value/R	90.00	85.00	80.00	65.00



Bulk Packs, Parts Packed on SMD Tape

MOUSER STOCK NO.	Price Per Value		
	1	50	100
71-CRCW1206-Value	.10	.039	.029

Tape and Reel

MOUSER STOCK NO.	Price Per Reel of 5000			
	1	2	5	10
71-CRCW1206-Value/R	75.00	70.00	65.00	60.00



Table of Values in Ω for 1% Thick Film Chip Resistors 0805

0	80.6	274	787	2.74K	6.49K	16.2K	43.2K	200K	
10	82.5	280	825	2.8K	6.65K	16.5K	46.4K	215K	
12.1	90.9	294	866	2.87K	6.81K	16.9K	47.5K	221K	
15	100	301	909	3.01K	6.98K	17.8K	49.9K	226K	
18.2	107	316	1.0K	3.09K	7.15K	18.2K	51.1K	237K	
20	110	324	1.1K	3.16K	7.5K	18.7K	60.4K	243K	
21.5	115	332	1.13K	3.32K	7.68K	20K	61.9K	249K	
22.1	118	348	1.18K	3.4K	7.87K	20.5K	63.4K	301K	
23.7	121	357	1.21K	3.48K	8.06K	21K	64.9K	316K	
24.9	124	365	1.24K	3.57K	8.25K	22.1K	66.5K	324K	
28	133	374	1.3K	3.65K	8.45K	22.6K	68.1K	332K	
30.1	137	383	1.4K	3.74K	8.66K	23.2K	75K	357K	
33.2	140	392	1.47K	3.83K	9.09K	23.7K	80.6K	365K	
37.4	143	402	1.5K	3.92K	9.31K	24.3K	82.5K	383K	
39.2	147	422	1.62K	4.02K	9.53K	24.9K	84.5K	392K	
40.2	150	432	1.65K	4.12K	9.76K	26.14K	90.9K	464K	
42.2	158	453	1.69K	4.22K	10K	26.7K	95.3K	475K	
43.2	169	464	1.78K	4.32K	10.2K	27.4K	100K	511K	
46.4	174	475	1.82K	4.42K	10.7K	28K	105K	562K	
47.5	178	487	2.0K	4.64K	11K	28.7K	110K	604K	
48.7	182	499	2.05K	4.75K	11.3K	30.1K	121K	681K	
49.9	196	511	2.1K	4.87K	11.5K	31.6K	127K	750K	
51.1	200	523	2.15K	4.99K	12.1K	32.4K	133K	806K	
56.2	215	549	2.21K	5.11K	12.4K	33.2K	140K	825K	
60.4	221	562	2.32K	5.23K	12.7K	34K	147K	1.0M	
61.9	232	619	2.37K	5.49K	13K	35.7K	150K		
64.9	237	649	2.43K	5.62K	13.3K	36.5K	162K		
68.1	243	681	2.49K	5.76K	13.7K	39.2K	178K		
71.5	255	698	2.55K	6.04K	14K	40.2K	182K		
75	261	750	2.61K	6.19K	14.7K	41.2K	187K		
78.7	267	768	2.67K	6.34K	15K	42.2K	196K		

Table of Values in Ω for 1% Thick Film Chip Resistors 1206

0	80.6	274	787	2.74K	6.49K	16.2K	43.2K	200K	
10	82.5	280	825	2.8K	6.65K	16.5K	46.4K	215K	
12.1	90.9	294	866	2.87K	6.81K	16.9K	47.5K	221K	
15	100	301	909	3.01K	6.98K	17.8K	49.9K	226K	
18.2	107	316	1.0K	3.09K	7.15K	18.2K	51.1K	237K	
20	110	324	1.1K	3.16K	7.5K	18.7K	60.4K	243K	
21.5	115	332	1.13K	3.32K	7.68K	20K	61.9K	249K	
22.1	118	348	1.18K	3.4K	7.87K	20.5K	63.4K	301K	
23.7	121	357	1.21K	3.48K	8.06K	21K	64.9K	316K	
24.9	124	365	1.24K	3.57K	8.25K	22.1K	66.5K	324K	
28	133	374	1.3K	3.65K	8.45K	22.6K	68.1K	332K	
30.1	137	383	1.4K	3.74K	8.66K	23.2K	75K	357K	
33.2	140	392	1.47K	3.83K	9.09K	23.7K	80.6K	365K	
37.4	143	402	1.5K	3.92K	9.31K	24.3K	82.5K	383K	
39.2	147	422	1.62K	4.02K	9.53K	24.9K	84.5K	392K	
40.2	150	432	1.65K	4.12K	9.76K	26.14K	90.9K	464K	
42.2	158	453	1.69K	4.22K	10K	26.7K	95.3K	475K	
43.2	169	464	1.78K	4.32K	10.2K	27.4K	100K	511K	
46.4	174	475	1.82K	4.42K	10.7K	28K	105K	562K	
47.5	178	487	2.0K	4.64K	11K	28.7K	110K	604K	
48.7	182	499	2.05K	4.75K	11.3K	30.1K	121K	681K	
49.9	196	511	2.1K	4.87K	11.5K	31.6K	127K	750K	
51.1	200	523	2.15K	4.99K	12.1K	32.4K	133K	806K	
56.2	215	549	2.21K	5.11K	12.4K	33.2K	140K	825K	
60.4	221	562	2.32K	5.23K	12.7K	34K	147K	1.0M	
61.9	232	619	2.37K	5.49K	13K	35.7K	150K		
64.9	237	649	2.43K	5.62K	13.3K	36.5K	162K		
68.1	243	681	2.49K	5.76K	13.7K	39.2K	178K		
71.5	255	698	2.55K	6.04K	14K	40.2K	182K		
75	261	750	2.61K	6.19K	14.7K	41.2K	187K		
78.7	267	768	2.67K	6.34K	15K	42.2K	196K		

Carbon Composition and Precision Metal Film Resistors



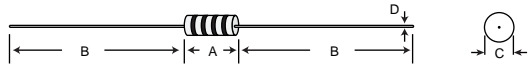
CARBON COMPOSITION RESISTORS 1/4 WATT AND 1/2 WATT ±5% TOLERANCE

Features:

- ±5% tolerance
- Predictable performance
- Low inductance
- Low capacitance

Resistor Discounts

Different values of resistors within the same series, ordered in lots of 1000 pieces per value, may be combined to obtain lower pricing. Annual price agreements are also available. Call any Mouser Service Representative.



For quantities greater than listed, call for quote.

Watts (W)	MOUSER STOCK NO.	Values (Ω) See Table	Dimensions (mm)				Price Each Per Value			
			A	B	C	D ±.02 -.005	1	100	1000	5000
1/4	30BJ250-Value	2.2 - 910K	6.4	27	2.5	0.6	.22	.12	.11	.10
1/4	30BJ250-Value	1M - 8.2M	6.4	27	2.5	0.6	.30	.18	.16	.15
1/2	30BJ500-Value	2.2 - 910K	9.5	25	3.5	0.74	.22	.13	.12	.11
1/2	30BJ500-Value	1M - 8.2M	9.5	25	3.5	0.74	.32	.19	.17	.15

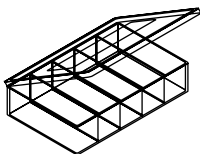
Table of Values in Ω

2.2	9.1	39	160	680	3.0K	12K	51K	220K	910K
2.4	10	43	180	750	3.3K	13K	56K	240K	1.0M
2.7	11	47	200	820	3.6K	15K	62K	270K	1.2M
3.0	12	51	220	910	3.9K	16K	68K	300K	1.5M
3.3	13	56	240	1.0K	4.3K	18K	75K	330K	1.8M
3.6	15	62	270	1.1K	4.7K	20K	82K	360K	2.2M
3.9	16	68	300	1.2K	5.1K	22K	91K	390K	2.4M
4.3	18	75	330	1.3K	5.6K	24K	100K	430K	2.7M
4.7	20	82	360	1.5K	6.2K	27K	110K	470K	3.3M
5.1	22	91	390	1.6K	6.8K	30K	120K	510K	3.9M
5.6	24	100	430	1.8K	7.5K	33K	130K	560K	4.7M
6.2	27	110	470	2.0K	8.2K	36K	150K	620K	5.6M
6.8	30	120	510	2.2K	9.1K	39K	160K	680K	6.8M
7.5	33	130	560	2.4K	10K	43K	180K	750K	8.2M
8.2	36	150	620	2.7K	11K	47K	200K	820K	



1/4 WATT CARBON COMPOSITION RESISTOR KITS

The 240 piece kits contain 10 each of 24 different values packaged in plastic bags with one value per bag. There are 4 values stored in each of the 6 compartments in the compact storage case.

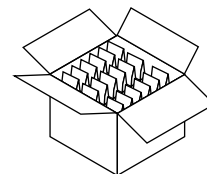


MOUSER STOCK NO.	Range of Values Per Kit (Ω)	Price
370-BJ250-1	2.2, 2.7, 3.3, 4.7, 5.6, 6.8, 8.2, 10, 13, 15, 20, 27, 47, 68, 75, 100, 200, 300, 430, 560, 680, 750, 820, 1.0K	17.95
370-BJ250-2	1.1K, 1.5K, 1.8K, 2.0K, 2.7K, 3.0K, 3.3K, 3.9K, 4.7K, 5.6K, 6.8K, 8.2K, 10K, 15K, 20K, 27K, 30K, 33K, 47K, 56K, 68K, 75K, 82K, 100K	17.95
370-BJ250-3	100K, 110K, 120K, 130K, 150K, 160K, 180K, 200K, 220K, 240K, 270K, 300K, 330K, 360K, 390K, 430K, 470K, 510K, 560K, 620K, 680K, 750K, 820K, 910K	17.95



1/4 WATT CARBON COMPOSITION "C-PAC" RESISTOR ASSORTMENT

Kits 370-BJ250-1C, 370-BJ250-2C, and 370-BJ250-3C have 2400 pieces. The 2400 piece kits contain 100 each of 24 different values packaged in plastic bags with one value per bag.



Kit 370-BJ250-C has 7200 pieces, 100 each of all values listed for kits 370-BJ250-1C, 370-BJ250-2C, and 370-BJ250-3C.

MOUSER STOCK NO.	Range of Values Per Kit (Ω)	Price
370-BJ250-1C	2.2, 2.7, 3.3, 4.7, 5.6, 6.8, 8.2, 10, 13, 15, 20, 27, 47, 68, 75, 100, 200, 300, 430, 560, 680, 750, 820, 1.0K	139.95
370-BJ250-2C	1.1K, 1.5K, 1.8K, 2.0K, 2.7K, 3.0K, 3.3K, 3.9K, 4.7K, 5.6K, 6.8K, 8.2K, 10K, 15K, 20K, 27K, 30K, 33K, 47K, 56K, 68K, 75K, 82K, 100K	139.95
370-BJ250-3C	100K, 110K, 120K, 130K, 150K, 160K, 180K, 200K, 220K, 240K, 270K, 300K, 330K, 360K, 390K, 430K, 470K, 510K, 560K, 620K, 680K, 750K, 820K, 910K	139.95
370-BJ250-C	100 each of all values listed for kits 370-BJ250-1C, 370-BJ250-2C, and 370-BJ250-3C. (7200 pieces)	249.95

HOLSWORTHY "HOLCO" PRECISION METAL FILM RESISTORS 1/4 WATT 0.1% 25PPM/°C

Meets the requirement for economically priced components for industrial and military applications.

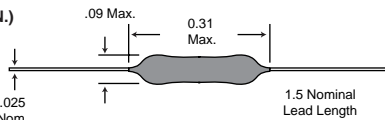
Table of Values in Ω

10	17.4	30.1	52.3	90.9	158	274	475	825	1.43K	2.49K	4.32K	7.5K	13K	22.6K	39.2K	68.1K	118K	205K	357K	619K
10.2	17.8	30.9	53.6	93.1	162	280	487	845	1.47K	2.55K	4.42K	7.68K	13.3K	23.2K	40.2K	69.8K	121K	210K	365K	634K
10.5	18.2	31.6	54.9	95.3	165	287	499	866	1.5K	2.61K	4.53K	7.87K	13.7K	23.7K	41.2K	71.5K	124K	215K	374K	649K
10.7	18.7	32.4	56.2	97.6	169	294	511	887	1.54K	2.67K	4.64K	8.06K	14.0K	24.3K	42.2K	73.2K	127K	221K	383K	665K
11	19.1	33.2	57.6	100	174	301	523	909	1.58K	2.74K	4.75K	8.25K	14.3K	24.9K	43.2K	75K	130K	226K	392K	681K
11.3	19.6	34	59	102	178	309	536	931	1.62K	2.8K	4.87K	8.45K	14.7K	25.5K	44.2K	76.8K	133K	232K	402K	698K
11.5	20	34.8	60.4	105	182	316	549	953	1.65K	2.87K	4.99K	8.66K	15K	26.1K	45.3K	78.7K	137K	237K	412K	715K
11.8	20.5	35.7	61.9	107	187	324	562	976	1.69K	2.94K	5.11K	8.87K	15.4K	26.7K	46.4K	80.6K	140K	243K	422K	732K
12.1	21	36.5	63.4	110	191	332	576	1.0K	1.74K	3.01K	5.23K	9.09K	15.8K	27.4K	47.5K	82.5K	143K	249K	432K	750K
12.4	21.5	37.4	64.9	113	196	340	590	1.02K	1.78K	3.09K	5.36K	9.31K	16.2K	28K	48.7K	84.5K	147K	255K	442K	768K
12.7	22.1	38.3	66.5	115	200	348	604	1.05K	1.82K	3.16K	5.49K	9.53K	16.5K	28.7K	49.9K	86.6K	150K	261K	453K	787K
13	22.6	39.2	68.1	118	205	357	619	1.07K	1.87K	3.24K	5.62K	9.76K	16.9K	29.4K	51.1K	88.7K	154K	267K	464K	806K
13.3	23.2	40.2	69.8	121	210	365	634	1.1K	1.91K	3.32K	5.76K	10K	17.4K	30.1K	52.3K	90.9K	158K	274K	475K	825K
13.7	23.7	41.2	71.5	124	215	374	649	1.13K	1.96K	3.4K	5.9K	10.2K	17.8K	30.9K	53.6K	93.1K	162K	280K	487K	845K
14	24.3	42.2	73.2	127	221	383	665	1.15K	2.0K	3.48K	6.04K	10.5K	18.2K	31.6K	54.9K	95.3K	165K	287K	499K	866K
14.3	24.9	43.2	75	130	226	392	681	1.18K	2.05K	3.57K	6.19K	10.7K	18.7K	32.4K	56.2K	97.6K	169K	294K	511K	887K
14.7	25.5	44.2	76.8	133	232	402	698	1.21K	2.1K	3.65K	6.34K	11K	19.1K	33.2K	57.6K	100K	174K	301K	523K	909K
15	26.1	45.3	78.7	137	237	412	715	1.24K	2.15K	3.74K	6.49K	11.3K	19.6K	34K	59K	102K	178K	309K	536K	931K
15.4	26.7	46.4	80.6	140	243	422	732	1.27K	2.21K	3.83K	6.65K	11.5K	20K	34.8K	60.4K	105K	182K	316K	549K	953K
15.8	27.4	47.5	82.5	143	249	432	750	1.3K	2.26K	3.92K	6.81K	11.8K	20.5K	35.7K	61.9K	107K	187K	324K	562K	976K
16.2	28	48.7	84.5	147	255	442	768	1.33K	2.32K	4.02K	6.98K	12.1K	21K	36.5K	63.4K	110K	191K	332K	576K	1.0M
16.5	28.7	49.9	86.6	150	261	453	787	1.37K	2.37K	4.12K	7.15K	12.4K	21.5K	37.4K	64.9K	113K	196K	340K	590K	
16.9	29.4	51.1	88.7	154	267	464	806	1.4K	2.43K	4.22K	7.32K	12.7K	22.1K	38.3K	66.5K	115K	200K	348K	604K	

Specifications:

- Style: H8-J
- Tolerance: 0.1%
- Max operating voltage: 200V
- Temperature coefficient: 25PPM/°C
- Power rating @ 70°C: 1/4W
- Also available in 1/10W, 1/2W, and 1 W; may be subject to min. order requirement

DIMENSIONS (IN.)



MOUSER STOCK NO.	Price Each			
	1	50	100	500
279-Value	1.08	.90	.72	.54

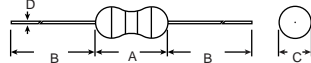
Table of Values in Ω

4.02	18	31.6	54.9	95.3	180	324	549	953	1.8K	3.24K	5.62K	10K	18.7K	33.2K	56.2K	102K	191K	332K	590K
4.75	18.2	32.4	56	97.6	182	330	560	976	1.82K	3.3K	5.76K	10.2K	19.1K	33.6K	57.6K	105K	192K	340K	604K
10	18.7	33	56.2	100	187	332	562	1K	1.87K	3.32K	5.9K	10.5K	19.6K	34K	59K	107K	196K	348K	619K
10.2	19.1	33.2	57.6	102	191	340	565	1.02K	1.91K	3.4K	6.04K	10.7K	20K	34.8K	60.4K	110K	200K	357K	620K
10.5	19.6	34	59	105	196	348	576	1.05K	1.96K	3.48K	6.19K	11K	20.5K	35.7K	61.9K	113K	205K	360K	634K
10.7	20	34.8	60.4	107	200	350	590	1.07K	2K	3.57K	6.2K	11.3K	21K	36K	62K	115K	210K	365K	649K
11	20.5	35.7	61.9	110	205	357	604	1.1K	2.05K	3.6K	6.34K	11.5K	21.5K	36.5K	63.4K	118K	215K	374K	665K
11.3	21	36	62	113	210	360	619	1.13K	2.1K	3.65K	6.49K	11.8K	22K	37.4K	64.9K	120K	220K	383K	680K
11.5	21.5	36.5	63.4	115	215	365	620	1.15K	2.15K	3.74K	6.65K	12K	22.1K	38.3K	66.5K	121K	221K	390K	681K
11.8	22	37.4	64.9	118	220	374	634	1.18K	2.2K	3.83K	6.8K	12.1K	22.6K	39K	68K	124K	226K	392K	698K
12	22.1	38.3	66.5	120	221	383	649	1.2K	2.21K	3.9K	6.81K	12.4K	23.2K	39.2K	68.1K	127K	232K	402K	715K
12.1	22.6	39	68	121	226	390	665	1.21K	2.26K	3.92K	6.98K	12.7K	23.7K	40.2K	69.8K	130K	237K	412K	732K
12.4	23.2	39.2	68.1	124	232	392	680	1.24K	2.32K	4.02K	7.15K	13K	24K	41.2K	71.5K	133K	240K	422K	750K
12.7	23.7	40.2	69.8	127	237	402	681	1.27K	2.37K	4.12K	7.32K	13.3K	24.3K	42.2K	73.2K	137K	243K	430K	768K
13	24	41.2	71.5	130	240	412	698	1.3K	2.4K	4.22K	7.5K	13.7K	24.9K	43K	75K	140K	249K	432K	787K
13.3	24.3	42.2	73.2	133	243	422	715	1.33K	2.43K	4.32K	7.68K	14K	25.5K	43.2K	76.8K	143K	255K	442K	806K
13.7	24.7	43	75	137	249	430	732	1.37K	2.49K	4.42K	7.87K	14.3K	26.1K	44.2K	78.7K	147K	261K	453K	820K
14	24.9	43.2	75.5	140	255	432	750	1.4K	2.55K	4.53K	8.06K	14.7K	26.7K	45.3K	80.6K	150K	267K	464K	825K
14.3	25.5	44.2	76.8	143	261	442	768	1.43K	2.61K	4.64K	8.2K	15K	27K	46.4K	82K	154K	270K	470K	845K
14.7	26.1	45.3	78.7	147	267	453	787	1.47K	2.67K	4.7K	8.25K	15.4K	27.4K	47K	82.5K	158K	274K	475K	866K
15	26.7	46.4	80.6	150	270	464	806	1.5K	2.7K	4.75K	8.45K	15.8K	28K	47.5K	84.5K	160K	280K	487K	887K
15.4	27	47	82	154	274	470	820	1.54K	2.74K	4.87K	8.66K	16K	28.7K	48.7K	86.6K	162K	287K	499K	909K
15.8	27.4	47.5	82.5	158	280	475	825	1.58K	2.8K	4.99K	8.8K	16.2K	29.4K	49.9K	88.7K	165K	294K	511K	910K
16	28	48.7	84.5	160	287	487	845	1.6K	2.87K	5.1K	8.87K	16.5K	30K	51K	90.9K	169K	300K	523K	931K
16.2	28.7	49.9	86.6	162	294	499	866	1.62K	2.94K	5.11K	9.09K	16.9K	30.1K	51.1K	91K	174K	301K	536K	953K
16.5	29.4	51	88.7	165	300	510	887	1.65K	3.0K	5.23K	9.1K	17.4K	30.9K	52.3K	93.1K	178K	309K	549K	976K
16.9	30	51.1	90.9	169	301	511	909	1.69K	3.01K	5.36K	9.31K	17.8K	31.6K	53.6K	95.3K	180K	316K	560K	1.0M
17.4	30.1	52.3	91	174	309	523	910	1.74K	3.09K	5.49K	9.53K	18K	32.4K	54.9K	97.6K	182K	324K	562K	1.5M
17.8	30.9	53.6	93.1	178	316	536	931	1.78K	3.16K	5.6K	9.76K	18.2K	33K	56K	100K	187K	330K	576K	2.2M

Requirements	Operating Temp. Range	Temperature Coefficient	Temp. Cycling	Short Time Overload	Terminal Strength	Dielectric Withstanding	Insulation Resistance	Effect of Soldering	Load Life, (70°C)	Moisture Resistance, (40°C)
Characteristics JIS-C-5202	-55°C to 155°C ---	±50PPM, ±100PPM 5.2	±1% 7.4	±0.5% 5.5	2.5kg 6.1	±0.5% 5.7A	10 ⁹ Ω 5.6A	±0.5% 6.4	±1% 7.10	±1% 7.9

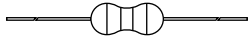
Features multiple epoxy coating on a Nichrome resistor element.
Not MIL rated but comparable to MIL STD MIL-R-22684 for RL20 and MIL-R-10509F for RN60D.

Select packaging method when ordering.
See package methods below.



Series	Dimensions (mm)			
	A	B	C	D +0.02 -0.05
278	4.2	28	2	0.5
271	6.8	28	2.5	0.6
29MF250	6.8	28	2.5	0.6
29MF500	10	28	3.5	0.6
273	10	28	3.5	0.6

LOOSE PACK



Stock No.	Standard Pack
278 - Value	200
29MF250 - Value	200
271 - Value	200
29MF500 - Value	100

1/8 and 1/4 Watt

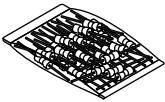
MOUSER STOCK NO.	Watt Size	T. C.	Max W.V.	Price Each	
				1	200
278 - Value	1/8	100ppm	200	.11	.05
29MF250 - Value	1/4	100ppm	250	.09	.02
271 - Value	1/4	50ppm	250	.09	.02

1/2Watt

MOUSER STOCK NO.	Watt Size	T. C.	Max W.V.	Price Each	
				1	100
29MF500 - Value	1/2	100ppm	350	.12	.055

BULK PACKAGING

Packaged in bags of 100 or 200, 1000 per box.



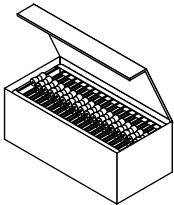
Bulk Pack Stock No.	Quantity Per Box
278 - Value / 1000	5 bags of 200
271 - Value / 1000	5 bags of 200
29MF250 - Value / 1000	5 bags of 200
29MF500 - Value / 1000	10 bags of 100

RESISTOR DISCOUNTS

1000 packs of different resistance values, within the same series, may be combined to obtain lower cost. Annual price agreements are also available. Call any Mouser Service Representative.

MOUSER STOCK NO.	Watt Size	T. C.	Max W.V.	Price Per 1,000 Piece Package				
				1	5	10	50	100
278 - Value / 1000	1/8	100ppm	200	30.75	26.25	22.50	17.99	Call For Quote
29MF250 - Value / 1000	1/4	100ppm	250	19.00	16.50	13.99	10.99	
271 - Value / 1000	1/4	50ppm	250	19.00	16.50	13.99	10.99	
29MF500 - Value / 1000	1/2	100ppm	350	38.00	29.50	28.50	26.75	

AMMO PACKAGING



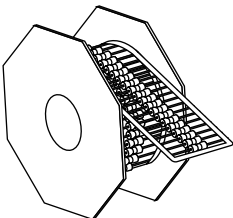
Ammo Pack Stock No.	Quantity Per Box
278 - Value / AP	2,000
271 - Value / AP	1,000
273 - Value / AP	1,000

RESISTOR DISCOUNTS

Ammo packs of different resistance values, within the same series, may be combined to obtain lower cost. Annual price agreements are also available. Call any Mouser Service Representative.

MOUSER STOCK NO.	Watt Size	T. C.	Max W.V.	Price Per Box of 2,000				
				1	2	5	25	50
278 - Value / AP	1/8	100ppm	200	61.50	52.50	45.00	35.98	Call
				Price Per Box of 1,000				
				1	5	10	50	100
271 - Value / AP	1/4	50ppm	250	19.00	16.50	13.99	10.99	Call
273 - Value / AP	1/2	50ppm	350	38.00	36.00	34.00	32.00	

TAPE AND REEL PACKAGING



Tape and Reel Stock No.	Quantity Per Reel
278 - Value / REEL	5,000
271 - Value / REEL	5,000
29MF250 - Value / REEL	5,000
29MF500 - Value / REEL	3,000

RESISTOR DISCOUNTS

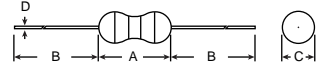
Reels of different resistance values, within the same series, may be combined to obtain lower cost. Annual price agreements are also available. Call any Mouser Service Representative.

MOUSER STOCK NO.	Watt Size	T. C.	Max W.V.	Price Per Reel of 5,000				
				1	2	10	20	100
278 - Value / REEL	1/8	100ppm	200	140.00	119.92	95.92	87.92	Call For Quote
29MF250 - Value / REEL	1/4	100ppm	250	82.50	69.95	54.95	49.95	
271 - Value / REEL	1/4	50ppm	250	82.50	69.95	54.95	49.95	
				Price Per Reel of 3,000				
				1	3	16	33	166
29MF500 - Value / REEL	1/2	100ppm	350	114.00	88.50	85.50	80.25	Call

Table of Values in Ω

0	2.4	6.8	20	56	160	470	1.3K	3.6K	10K	30K	82K	240K	680K	2M	5.6M
0.5	2.7	7.5	22	62	180	510	1.5K	3.9K	11K	33K	91K	270K	750K	2.2M	6.2M
1.0	3.0	8.2	24	68	200	560	1.6K	4.3K	12K	36K	100K	300K	820K	2.4M	6.8M
1.1	3.3	9.1	27	75	220	620	1.8K	4.7K	13K	39K	110K	330K	910K	2.7M	7.5M
1.2	3.6	10	30	82	240	680	2K	5.1K	15K	43K	120K	360K	1M	3M	8.2M
1.3	3.9	11	33	91	270	750	2.2K	5.6K	16K	47K	130K	390K	1.1M	3.3M	9.1M
1.5	4.3	12	36	100	300	820	2.4K	6.2K	18K	51K	150K	430K	1.2M	3.6M	10M
1.6	4.7	13	39	110	330	910	2.7K	6.8K	20K	56K	160K	470K	1.3M	3.9M	15M
1.8	5.1	15	43	120	360	1K	3K	7.5K	22K	62K	180K	510K	1.5M	4.3M	22M
2.0	5.6	16	47	130	390	1.1K	3.2K	8.2K	24K	68K	200K	560K	1.6M	4.7M	
2.2	6.2	18	51	150	430	1.2K	3.3K	9.1K	27K	75K	220K	620K	1.8M	5.1M	

Select packaging method when ordering.
See package methods below.

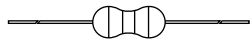


- Features:**
- Excellent reliability
 - Excellent solderability
 - Low noise
 - Moisture stable
 - Standard EIA color code
 - Heat stable
 - Operating temperature: -55°C to 155°C

Available in Bulk, Ammo, or Tape and Reel

Series	Rated Power @ 70°C (W)	Max Working Voltage (V)	Max Overload Voltage (V)	Dimensions (mm) max.			
				A	B	C	D ±.02 -.005
299	1/8	200	400	4.2	28±3	2	0.5
291/29SJ250/29AB250	1/4	250	500	6.8	28±3	2.5	0.6
293/29SJ500/29AB500	1/2	350	700	10	28±3	3.5	0.6
29SJ901	1	500	1000	12	28±3	5.0	0.8

LOOSE PACKAGING



Stock No.	Standard Pack
299-Value	200
291-0	200
29SJ250-Value	200
29SJ500-Value	100
29SJ901-Value	100

1/8 and 1/4 Watt

*: See Table of Values

MOUSER STOCK NO.	Watt Size	* Range of Values	Price Each	
			1	200
299-Value	1/8	0Ω - 10MΩ	.08	.014
291-0	1/4	0Ω	.07	.009
29SJ250-Value	1/4	.5Ω - 10MΩ	.07	.009
29SJ250-Value	1/4	15MΩ or 22MΩ	.09	.03

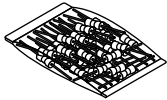
1/2 and 1 Watt

*: See Table of Values

MOUSER STOCK NO.	Watt Size	* Range of Values	Price Each	
			1	100
29SJ500-Value	1/2	.5Ω - 10MΩ	.08	.014
29SJ901-Value	1	.5Ω - 10MΩ	.14	.05

BULK PACKAGING (1,000 Per Pack)

Packaged in bags of 100, 200, or 1000 per box.



Bulk Pack Stock No.	Quantity Per Box
299-Value / 1000	5 bags of 200
291-0 / 1000	5 bags of 200
29SJ250-Value / 1000	5 bags of 200
29SJ500-Value / 1000	10 bags of 100
29SJ901-Value / 1000	10 bags of 100

RESISTOR DISCOUNTS

1000 packs of different resistance values, within the same series, may be combined to obtain lower cost. Annual price agreements are also available. Call any Mouser Service Representative.

*: See Table of Values

MOUSER STOCK NO.	Watt Size	* Range of Values	Price Per 1,000 Piece Package				
			1	5	10	50	100
299-Value / 1000	1/8	0Ω - 10MΩ	12.50	11.50	10.50	9.50	Call For Quote
291-0 / 1000	1/4	0Ω	8.00	7.75	7.25	5.75	
29SJ250-Value / 1000	1/4	.5Ω - 10MΩ	8.00	7.75	7.25	5.75	
29SJ250-Value / 1000	1/4	15MΩ or 22MΩ	14.50	14.00	13.10	10.40	
29SJ500-Value / 1000	1/2	.5Ω - 10MΩ	12.50	11.50	10.50	9.50	
29SJ901-Value / 1000	1	.5Ω - 10MΩ	48.00	46.00	44.00	42.00	

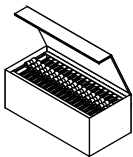
AMMO PACKAGING

RESISTOR DISCOUNTS

Ammo packs of different resistance values, within the same series, may be combined to obtain lower cost. Annual price agreements are also available. Call any Mouser Service Representative.

*: See Table of Values

Taped & Boxed

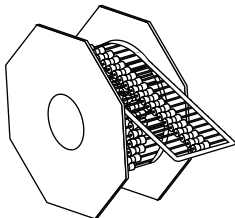


Ammo Pack Stock No.	Quantity Per Box
299-Value / AP	2,000
291-Value / AP	1,000
293-Value / AP	1,000

MOUSER STOCK NO.	Watt Size	* Range of Values	Price Per Box of 2000							
			1	2	5	25	50			
299-Value / AP	1/8	0Ω - 10MΩ	25.00	23.00	21.00	19.00	Call			
			Price Per Box of 1000							
			1	5	10	50	100			
			291-Value / AP	1/4	0Ω - 10MΩ	8.00	7.75	7.25	5.75	Call
			293-Value / AP	1/4	15MΩ or 22MΩ	14.50	14.00	13.10	10.40	Call
			291-Value / AP	1/2	.5Ω - 10MΩ	12.50	11.50	10.50	9.50	Call

TAPE AND REEL PACKAGING

These high quality carbon film resistors, are now available in tape and reel form. The added benefit of tape and reel form promotes rapid, cost effective automatic insertion.



Tape and Reel Stock No.	Quantity Per Reel
299-Value / REEL	5,000
29AB250-Value	5,000
29AB500-Value	3,000

RESISTOR DISCOUNTS

Reels of different resistance values, within the same series, may be combined to obtain lower cost. Annual price agreements are also available. Call any Mouser Service Representative.

*: See Table of Values

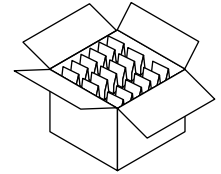
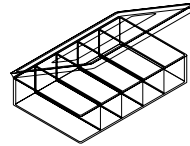
MOUSER STOCK NO.	Watt Size	* Range of Values	Price Per Reel of 5,000			
			1	2	10	20
299-Value / REEL	1/8	0Ω - 10MΩ	57.50	52.50	47.50	Call
29AB250-Value	1/4	0.5Ω - 10MΩ	38.75	36.25	28.75	For
291-0/REEL	1/4	0Ω	38.75	36.25	28.75	Quote
29AB500-Value	1/2	.5Ω - 10MΩ	Price Per Reel of 3,000			
			1	3	16	33
			37.50	34.50	31.50	Call

CARBON FILM RESISTOR KITS

The 240 piece kits contain 10 each of 24 different values packaged in plastic bags with one value per bag. There are 4 values stored in each of the 6 compartments in the compact storage case.

Features:

- Fully assembled and keyed for easy use
- Resistors color code chart included



Prototype Kits

MOUSER STOCK NO.	Fig.	Type	Range of Values Ω	Pieces in Each Kit	Description	Price
370-299-1	A	1/8 watt carbon film 5%	1.0 - 82	240	10 each: 1.0, 1.2, 1.5, 1.8, 2.2, 2.7, 3.3, 3.9, 4.7, 5.6, 6.8, 8.2, 10, 12, 15, 18, 22, 27, 33, 39, 47, 56, 68, 82	19.95
370-299-2	A	1/8 watt carbon film 5%	100 - 8.2K	240	10 each: 100, 120, 150, 180, 220, 270, 330, 390, 470, 560, 680, 820, 1K, 1.2K, 1.5K, 1.8K, 2.2K, 2.7K, 3.3K, 3.9K, 4.7K, 5.6K, 6.8K, 8.2K	19.95
370-299-3	A	1/8 watt carbon film 5%	10K - 820K	240	10 each: 10K, 12K, 15K, 18K, 22K, 27K, 33K, 39K, 47K, 56K, 68K, 82K, 100K, 120K, 150K, 180K, 220K, 270K, 330K, 390K, 470K, 560K, 680K, 820K	19.95
370-SJ250-1	A	1/4 watt carbon film 5%	1.0 - 1K	240	10 each: 1.0, 2.0, 3.0, 4.7, 5.6, 7.5, 8.2, 10, 12, 15, 20, 27, 47, 68, 75, 100, 200, 300, 430, 560, 680, 750, 820, 1K	18.95
370-SJ250-2	A	1/4 watt carbon film 5%	1.1K - 100K	240	10 each: 1.1K, 1.5K, 1.8K, 2K, 2.7K, 3K, 3.3K, 3.9K, 4.7K, 5.6K, 6.8K, 8.2K, 10K, 15K, 20K, 27K, 30K, 33K, 47K, 56K, 68K, 75K, 82K, 100K	18.95
370-SJ250-3	A	1/4 watt carbon film 5%	110K - 10M	240	10 each: 110K, 130K, 150K, 180K, 200K, 270K, 300K, 330K, 390K, 470K, 560K, 680K, 750K, 820K, 910K, 1M, 2M, 3.3M, 3.9M, 4.7M, 5.6M, 6.8M, 8.2M, 10M	18.95
370-SJ500-1	A	1/2 watt carbon film 5%	2.2 - 1K	240	10 each: 2.2, 2.4, 3, 4.7, 5.6, 7.5, 8.2, 10, 13, 15, 20, 27, 47, 68, 75, 100, 200, 300, 430, 560, 680, 750, 820, 1K	23.95
370-SJ500-2	A	1/2 watt carbon film 5%	1.1K - 100K	240	10 each: 1.1K, 1.5K, 1.8K, 2K, 2.7K, 3K, 3.3K, 3.9K, 4.7K, 5.6K, 6.8K, 8.2K, 10K, 15K, 20K, 27K, 30K, 33K, 47K, 56K, 68K, 75K, 82K, 100K	23.95
370-SJ500-3	A	1/2 watt carbon film 5%	110K - 3.3M	240	10 each: 110K, 130K, 150K, 180K, 200K, 270K, 300K, 330K, 390K, 470K, 560K, 680K, 750K, 820K, 910K, 1M, 1.1M, 1.3M, 1.5M, 1.6M, 1.8M, 2M, 2.2M, 3.3M	23.95
370-SJ901-1	A	1 watt carbon film 5%	2.2 - 1K	240	10 each: 2.2, 3.3, 4.7, 5.6, 6.8, 8.2, 10, 15, 27, 39, 47, 56, 68, 82, 100, 150, 220, 270, 330, 470, 560, 680, 820, 1K	29.95
370-SJ901-2	A	1 watt carbon film 5%	1.2K - 100K	240	10 each: 1.2K, 1.5K, 1.8K, 2.2K, 2.7K, 3.3K, 3.9K, 4.7K, 5.6K, 6.8K, 8.2K, 10K, 12K, 15K, 18K, 22K, 27K, 33K, 39K, 47K, 56K, 68K, 82K, 100K	29.95

"C-Pac" Resistor Assortments

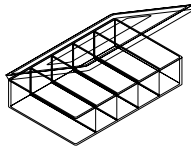
370-SJ250-1C	B	1/4 watt carbon film	1.0 - 1K	4800	200 each of all values listed for prototype kit 370-SJ250-1 shown above.	46.95
370-SJ250-2C	B	1/4 watt carbon film	1.1K - 100K	4800	200 each of all values listed for prototype kit 370-SJ250-2 shown above.	46.95
370-SJ250-3C	B	1/4 watt carbon film	110K - 10M	4800	200 each of all values listed for prototype kit 370-SJ250-3 shown above.	46.95
370-SJ250-C	B	1/4 watt carbon film	1 - 10M	14,400	200 each of all values listed for prototype kit 370-SJ250-1, 370-SJ250-2, and 370-SJ250-3 shown above.	139.95
370-SJ500-1C	B	1/2 watt carbon film	2.2 - 1K	4800	200 each of all values listed for prototype kit 370-SJ500-1 shown above.	74.95
370-SJ500-2C	B	1/2 watt carbon film	1.1K - 100K	4800	200 each of all values listed for prototype kit 370-SJ500-2 shown above.	74.95
370-SJ500-3C	B	1/2 watt carbon film	110K - 3.3M	4800	200 each of all values listed for prototype kit 370-SJ500-3 shown above.	74.95
370-SJ500-C	B	1/2 watt carbon film	2.2 - 3.3M	14,400	200 each of all values listed for prototype kit 370-SJ500-1, 370-SJ500-2, and 370-SJ500-3 shown above.	217.95
370-SJ901-1C	B	1 watt carbon film	2.2 - 1K	2400	100 each of all values listed for prototype kit 370-SJ901-1 shown above.	114.95
370-SJ901-2C	B	1 watt carbon film	1.2K - 100K	2400	100 each of all values listed for prototype kit 370-SJ901-2 shown above.	114.95
370-SJ901-C	B	1 watt carbon film	2.2 - 100K	4800	100 each of all values listed for prototype kit 370-SJ901-1 and 370-SJ901-2 shown above.	229.95

METAL FILM RESISTOR KITS

The 240 piece kits contain 10 each of 24 different values packaged in plastic bags with one value per bag. There are 4 values stored in each of the 6 compartments in the compact storage case.

Features:

- 1% tolerance
- Fully assembled and keyed for easy use
- 240 pieces
- 10 each of 24 different values per kit
- Metal film
- Epoxy coated
- Nickel chromium
- Ceramic substrate

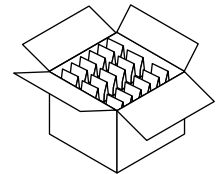


MOUSER STOCK NO.	Type	Range of Values Per Kit (Ω)	Price
370-278-1	1/8W - 50ppm	4.02, 10, 20, 30, 39, 47, 51, 68, 100,	29.95
370-271-1	1/4W - 50ppm	120, 160, 200, 220, 270, 300, 330,	29.95
370-MF500-1	1/2W - 100ppm	390, 430, 560, 620, 750, 820, 910, 1K	34.95
370-278-2	1/8W - 50ppm	1.1K, 1.5K, 1.8K, 2K, 2.7K, 3.0K,	29.95
370-271-2	1/4W - 50ppm	3.3K, 3.9K, 4.7K, 5.6K, 6.8K, 8.2K,	29.95
370-MF250-2	1/4W - 100ppm	10K, 15K, 20K, 27K, 30K, 33K, 47K,	29.95
370-MF500-2	1/2W - 100ppm	56K, 68K, 75K, 82K, 100K	34.95
370-278-3	1/8W - 50ppm	110K, 120K, 130K, 150K, 160K, 180K,	29.95
370-271-3	1/4W - 50ppm	200K, 220K, 270K, 300K, 330K, 390K,	29.95
370-MF500-3	1/2W - 100ppm	430K, 470K, 499K, 560K, 620K, 680K,	34.95
		750K, 820K, 845K, 910K, 953K, 1M	

METAL FILM "C-PAC" RESISTOR ASSORTMENT

Features:

- 1% tolerance
- 72 different values
- Individually labeled packs
- 1/4 watt
- Range: 4.02Ω to 1MΩ
- Pieces in kit: 14,400



MOUSER STOCK NO.	Type	Range of Values Per Kit (Ω)	Price
370-271-C	50ppm	200 each of: 4.02, 10, 20, 30, 39, 47, 51, 68, 100, 120, 160, 200, 220, 270, 300, 330, 390, 430, 560, 620, 750, 820, 910, 1K, 1.1K, 1.5K, 1.8K, 2K, 2.7K, 3.0K, 3.3K, 3.9K, 4.7K, 5.6K, 6.8K, 8.2K, 10K, 15K, 20K, 27K, 30K, 33K, 47K, 56K, 68K, 75K, 82K, 100K, 110K, 120K, 130K, 150K, 160K, 180K, 200K, 220K, 270K, 300K, 330K, 390K, 430K, 470K, 499K, 560K, 620K, 680K, 750K, 820K, 845K, 910K, 953K, 1M	329.95

Please see pages 351 and 352 for additional Prototype Kits.

Resistor Networks

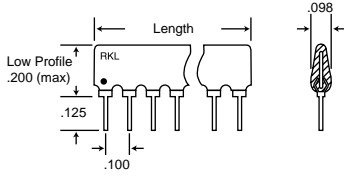
ROHM CONFORMAL COATED SIP RESISTOR NETWORKS

Specifications:

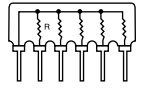
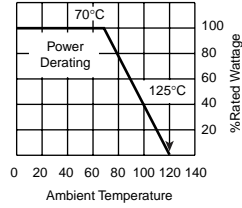
- Resistance range: 100 to 1M Ω
- Tolerance: $\pm 2\%$ or $\pm 2\Omega$, whichever is greater
- Temperature coefficient: $+200\text{ppm}/^\circ\text{C}$
- Voltage rating: 100V
- Solderability coverage: 95% (min.)
- Insulation resistance: 1000G Ω

Features:

- 96% alumina for superior thermal dissipation
- Conformal coating for maximum protection in operating environment
- Crimped, solder coated terminals for maximum electrical and mechanical integrity

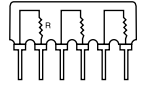


DIMENSIONS (IN.)



Common Bussed
.125W Per Element

A



Isolated Elements
.200W Per Element

B

Common Bussed Elements

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Length Max. (In.)	Package Power Rating (Watts)	Standard Pack	Standard Box	No. of Pins (N)	No. of Res.	Price Each		
								1	100	500
592-6S-1M	A	.59	0.625	100	1000	6	5	.15	.09	.08
592-8S-470	A	.79	.875	100	1000	8	7	.20	.13	.12
592-10S-220	A	.99	1.125	100	1000	10	9	.25	.17	.15

Isolated Elements

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Length Max. (In.)	Package Power Rating (Watts)	Standard Pack	Standard Box	No. of Pins	No. of Res.	Price Each		
								1	100	500
592-6A-Value	B	.59	0.6	100	1000	6	3	.15	.09	.08
592-8A-Value	B	.79	0.8	100	1000	8	4	.20	.13	.12
592-10A-Value	B	.99	1.0	100	1000	10	5	.25	.17	.15

Table of Values (Ω)

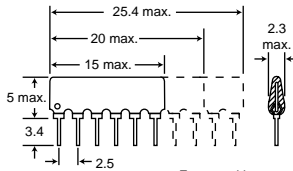
100	470	22K
220	3.3K	47K
330	4.7K	1M



LOW PROFILE THICK FILM SIP RESISTOR NETWORKS 2%; 100ppm / $^\circ\text{C}$

Specifications:

- Resistance range: 22 Ω to 1M Ω
- Resistance tolerance: $\pm 2\%$
- Temperature coefficient: 100ppm / $^\circ\text{C}$
- Power rating: 1/8 watt per resistor
- Operating temperature range: -55°C to $+150^\circ\text{C}$
- Solderability: Per MIL-R-83401



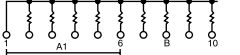
DIMENSIONS (mm)



MIL-R-83401

Other Values Available Upon Request

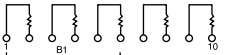
Common Bus Configuration



Pin 1 Common, 5, 7, or 9 Resistors
6, 8, or 10 Pin Single-In-Line Package

A

Isolated Configuration



3, 4, or 5 Isolated Resistors
6, 8, or 10 Pin Single-In-Line Package

B

MOUSER STOCK NO.	Fig.	Cross Reference					No. of Pins (N)	No. of Res.	Price Each		
		Sprague	Dale	Bourns	Allen-Bradley	1			100	500	
264-Value	A1	256CF-PD	CSC06A-01-G	4606-101	106A	6	5	.15	.09	.08	
265-Value	A2	256CH-PD	CSC08A-01-G	4608-101	108A	8	7	.20	.13	.12	
266-Value	A3	256CK-PD	CSC10A-01-G	4610-101	110A	10	9	.25	.17	.15	
267-Value	B1	256-CF-SR	CSC06A-03-G	4606-102	106B	6	3	.15	.09	.08	
268-Value	B2	256-CH-SR	CSC08A-03-G	4608-102	108B	8	4	.20	.13	.12	
269-Value	B3	256-CK-SR	CSC10A-03-G	4610-102	110B	10	5	.25	.17	.15	

Table of Values (Ω)

22	560	5.6K	47K	470K
47	680	6.8K	56K	560K
100	820	8.2K	68K	680K
150	1K	10K	82K	1M
220	1.5K	15K	100K	
270	2.2K	22K	150K	
330	3.3K	27K	220K	
470	4.7K	33K	330K	

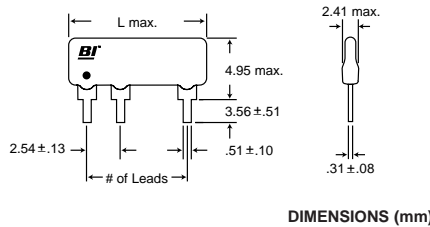
BJ technologies CONFORMAL COATED SIP RESISTOR NETWORKS

Specifications:

- Standard resistance range: 22 Ω to 1M Ω
- Standard resistance tolerance @ 25 $^\circ\text{C}$: $\pm 2\%$
- Operating temperature range: -55°C to $+125^\circ\text{C}$
- Temperature coefficient of resistance: $\pm 100\text{ppm}/^\circ\text{C}$ ($<100\Omega = \pm 250\text{ppm}/^\circ\text{C}$)
- Operating voltage: 100VDC max.
- Insulation resistance: 10,000M Ω min.

Features:

- Lead material: copper alloy, 60/40 tin-lead plating
- Substrate material: alumina
- Resistor material: cermet
- Body material: conformal epoxy resin



DIMENSIONS (mm)

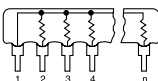


MIL-R 83401

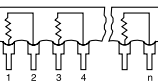
No. of Leads	6	8	10
"L" Max. (mm)	15.24	20.32	25.40

Table of Values (Ω)

22	820	33K
27	1K	39K
33	1.2K	47K
39	1.5K	51K
47	1.8K	56K
51	2K	68K
56	2.2K	82K
68	2.7K	100K
82	3.3K	120K
100	3.9K	150K
120	4.7K	180K
150	5.1K	200K
180	5.6K	220K
200	6.8K	270K
220	8.2K	330K
270	10K	390K
330	12K	470K
390	15K	510K
470	18K	560K
510	20K	680K
560	22K	820K
680	27K	1M



A



B

Bussed Configuration

MOUSER STOCK NO.	Fig.	Mfg. Series	Power Dissipation (W @ 70 $^\circ\text{C}$)		No. of Pins (N)	No. of Res.	Price Each				
			Per Circuit	Total Pkg. Max.			1	100	200	500	1000
569-L61-Value	A	L06-1	.125	.6	6	5	.19	.17	.15	.14	Call
569-L81-Value	A	L08-1	.125	.8	8	7	.25	.23	.20	.19	For
569-L101-Value	A	L10-1	.125	1.0	10	9	.32	.29	.25	.23	Quote

Isolated Configuration

MOUSER STOCK NO.	Fig.	Mfg. Series	Power Dissipation (W @ 70 $^\circ\text{C}$)		No. of Pins (N)	No. of Res.	Price Each				
			Per Circuit	Total Pkg. Max.			1	100	200	500	1000
569-L63-Value	B	L06-3	.200	.6	6	3	.19	.17	.15	.14	Call
569-L83-Value	B	L08-3	.200	.8	8	4	.25	.23	.20	.19	For
569-L103-Value	B	L10-3	.200	1.0	10	5	.32	.29	.25	.23	Quote

THICK FILM NETWORK CHIP ARRAYS

Type BCN 16 4A

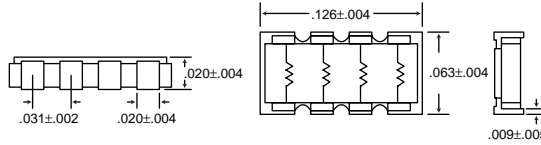
NEW!

Features:

- Reliable monolithic construction
- Nickel barrier terminations
- Pull up/pull down resistors for digital IC's
- Series termination on high speed data busses
- Current limit for LED displays

Specifications:

- Standard resistance tolerance: $\pm 5\%$
- Operating voltage (max.): 50VDC
- Operating temperature range: -55°C to $+125^{\circ}\text{C}$
- Temperature coefficient of resistance: $\pm 250\text{ppm}^{\circ}\text{C}$

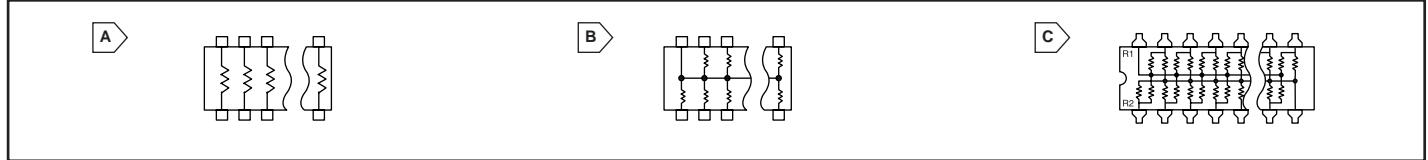


DIMENSIONS (IN.)

10	150	2.2K	27K
22	180	2.7K	47K
33	220	3.3K	68K
39	270	4.7K	100K
47	330	6.8K	150K
56	390	8.2K	220K
68	470	10K	1M
82	1K	15K	
100	1.2K	22K	

MOUSER STOCK NO.	Power Rating (W @ 70°C)		No. of Pins (N)	No. of Res.	Price Each				MOUSER STOCK NO.	Price Per Reel of 5000			
	Per Resistor	Per Package			1	100	500	1000		1	2	5	10
569-16-Value	63mW	250mW	8	4	.13	.11	.08	.07	569-16-Value/REEL	225.00	210.00	195.00	181.00

DUAL-IN-LINE THICK FILM RESISTOR NETWORKS



Features:

- Standard DIP packaging
- Solder plated leads
- Applicable standards: MIL-R-83401, MIL-STD-105, and MIL-STD-202

Specifications:

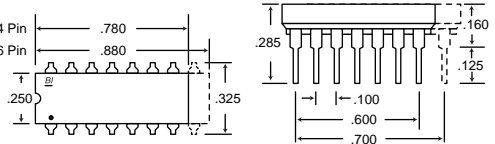
- Tolerance: isolated and common bus = $\pm 2\%$;
- dual terminal = $\pm 5\%$ (or $\pm 2\%$ if $<100\Omega$)
- Temp. coefficient: $\pm 100\text{ppm}^{\circ}\text{C}$ ($<100\Omega = \pm 250\text{ppm}^{\circ}\text{C}$)
- Operating voltage: lesser of 100 VDC or $\sqrt{\text{PR}}$
- Flammability: UL94V-0 rated
- Operating temp. range: -55°C to $+125^{\circ}\text{C}$

Isolated Configuration

For stock values (Ω) see Table of Values.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Mfg. Series	Power Dissipation (W @ 70°C)		No. of Pins (N)	No. of Res.	Price Each			
			Per Circuit	Total Pkg. Max.			1	100	200	500
569-8993-Value	A	899-3	.250	1.8	14	7	.56	.48	.43	.38
569-8983-Value	A	898-3	.250	2.0	16	8	.56	.48	.43	.38



DIMENSIONS (IN.)

Bussed Configuration

For stock values (Ω) see Table of Values.

For quantities greater than listed, call for quote.

569-8991-Value	B	899-1	.125	1.8	14	13	.56	.48	.43	.38
569-8981-Value	B	898-1	.125	2.0	16	15	.56	.48	.43	.38

Table of Values (Ω) for Isolated Configuration and Bussed Configuration

22	150	820	5.1K	33K	200K
27	180	1.1K	5.6K	39K	220K
33	200	1.2K	6.8K	47K	270K
39	220	1.5K	8.2K	51K	330K
47	270	1.8K	10K	56K	390K
51	330	2.0K	12K	68K	470K
56	390	2.2K	15K	82K	510K
68	470	2.7K	18K	100K	560K
82	510	3.3K	20K	120K	680K
100	560	3.9K	22K	150K	820K
120	680	4.7K	27K	180K	1M

Dual Termination Configuration

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Stock Values (Ω) (Other Values Available Upon Request)	Mfg. Series	Power Dissipation (W @ 70°C)		No. of Pins (N)	No. of Res.	Price Each			
				Per Circuit	Total Pkg. Max.			1	100	200	500
569-8995-Value	C	(R1) (R2), (R1) (R2) 180/390, 220/330	899-5	.125	1.8	14	24	.87	.68	.64	.59
569-8985-Value	C	180/390, 220/330	898-5	.125	2.0	16	28	.87	.68	.64	.59

SURFACE MOUNT SMALL OUTLINE THICK FILM RESISTOR NETWORKS

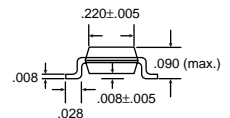
DIMENSIONS (IN.)

Specifications:

- Tolerance: 2%, (or $\pm 1\%$ if $<33\Omega$)
- Operating temperature range: -55°C to $+125^{\circ}\text{C}$
- Temperature coefficient: $\pm 100\text{ppm}^{\circ}\text{C}$ ($<100\Omega = \pm 250\text{ppm}^{\circ}\text{C}$)
- Operating voltage: lesser of 50V or $\sqrt{\text{PR}}$
- Flammability: UL94V-0 rated
- Lead coplanarity: $\pm 0.002\text{in.}$ (0.057mm)

Features:

- Small outline packaging
- Applicable standards: MIL-R-83401, MIL-STD-105, MIL-STD-202, RS-481-A, and EIA-PDP-100
- Solder (dipped) leads



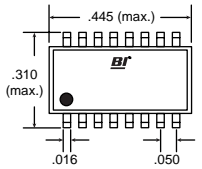
Isolated Configuration

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Stock Values (Ω) (Other Values Available Upon Request)	Mfg. Series	Power Dissipation (W @ 70°C)		No. of Pins (N)	No. of Res.	Price Each			
				Per Circuit	Total Pkg. Max.			1	100	200	500
569-628A-Value	A	22, 33, 10K, 100K	628A	0.32	1.28	16	8	1.50	.75	.45	.34

Bussed Configuration

569-628B-Value	B	1K, 4.7K, 6.8K, 10K	628B	0.16	1.28	16	15	1.50	.75	.45	.34
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SURFACE MOUNT THIN FILM PRECISION RESISTOR NETWORKS

DIMENSIONS (IN.)

Specifications:

- Tolerance: 1%
- Operating temp. range: -55°C to $+125^{\circ}\text{C}$
- Temp. coefficient: $\pm 25\text{ppm}^{\circ}\text{C}$
- Operating voltage, maximum: 100 VDC or $\sqrt{\text{PR}}$
- Flammability: UL94V-0
- Lead coplanarity: 0.004° (0.102mm)

Features:

- Solder plated leads
- Gull wing configuration
- Applicable standards: MIL-STD-202



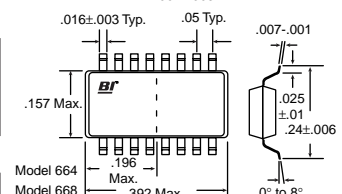
Isolated Configuration

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Stock Values (Ω)	Mfg. Series	Power Dissipation (W @ 70°C)		No. of Pins (N)	No. of Res.	Price Each			
				Per Circuit	Total Pkg. Max.			1	100	200	500
569-664A-Value	A	1K, 2K, 5K, 10K, 20K, 47K, 50K, 100K	664A	.1	.4	8	4	2.50	1.85	1.70	1.55
569-668A-Value	A	1K, 2K, 5K, 10K, 20K, 47K, 50K, 100K	668A	.1	.4	16	8	3.10	2.30	2.15	2.00

Bussed Configuration

569-668B-Value	B	10K, 20K	668B	.1	.5	16	15	3.30	2.45	2.30	2.15
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Power Resistors



SMALL SIZE METAL OXIDE POWER RESISTORS

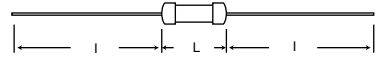
Specifications:

- Operating temperature: -55°C to +155°C
- Temperature coefficient: ±350ppm
- Resistance tolerance: ±5%
- Max working voltage: 1W, 2W, 3W: 350V
5W: 500V

Features:

- Smaller size
- Excellent flame retardant coating
- Stable performance in diverse environments

* Not stocked in 5 watt



MOUSER STOCK NO.	Rated Power (Watts)	Value Range (Ω)	Dimensions (mm)			Price Per Piece Per Value						
			L	D	l (Min)	1	100	1000	5000	10,000	25,000	
281-Value	1	0.47-1.0M	10	4	28	.13	.09	.05	.045	.040		
282-Value	2	0.47-1.0M	12	5	28	.19	.10	.06	.056	.049		Call For Quote
283-Value	3	0.47-1.0M	16	5.5	28	.39	.25	.15	.123	.103		
286-Value	5	5.1-150K	25	8	28	.49	.33	.30	.27	.194		

Table of Values in (Ω) for 281, 282, 283, and 286

* 0.47	* 0.91	* 2.0	* 4.3	9.1	20	43	91	200	430	910	2.0K	4.3K	9.1K	20K	39K	75K	150K	* 300K	* 560K
* 0.5	* 1.0	* 2.2	* 4.7	10	22	47	100	220	470	1.0K	2.2K	4.7K	10K	22K	43K	82K	* 160K	* 330K	* 620K
* 0.51	* 1.1	* 2.4	5.1	11	24	51	110	240	510	1.1K	2.4K	5.1K	11K	24K	47K	91K	* 180K	* 360K	* 680K
* 0.56	* 1.2	* 2.7	5.6	12	27	56	120	270	560	1.2K	2.7K	5.6K	12K	27K	51K	100K	* 200K	* 390K	* 750K
* 0.62	* 1.3	3.0	6.2	13	30	62	130	300	620	1.3K	3.0K	6.2K	13K	30K	56K	110K	* 220K	* 430K	* 820K
* 0.68	* 1.5	* 3.3	6.8	15	33	68	150	330	680	1.5K	3.3K	6.8K	15K	33K	62K	120K	* 240K	* 470K	* 910K
* 0.75	* 1.6	* 3.6	7.5	16	36	75	160	360	750	1.6K	3.6K	7.5K	16K	36K	68K	130K	* 270K	* 510K	* 1.0M
* 0.82	* 1.8	* 3.9	8.2	18	39	82	180	390	820	1.8K	3.9K	8.2K	18K						



METAL OXIDE POWER RESISTORS Flame-Proof Metal Oxide Power Resistors

Specifications:

- Temp. range: -55°C to +200°C
- Temp. coefficient: ±350 ppm/°C
- 1 and 2-watt: 5% tolerance



MOUSER STOCK NO.	Rated Power (Watts)	Value Range (Ω)	Dimensions (mm)			Price Per Piece Per Value							
			L	D	l (Min)	1	100	1000	5000	10,000	25,000	50,000	100,000
261-Value	1	0.47-1.0M	12	4.5	27	.13	.09	.05	.045	.042	.035	.032	
262-Value	2	0.47-1.0M	16	5.5	27	.19	.10	.06	.056	.052	.045	.04	Call

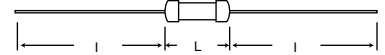


Table of Values in (Ω) for 261 and 262

0.47	0.91	2.0	4.3	9.1	20	43	91	200	430	910	2.0K	4.3K	9.1K	20K	39K	75K	160K	330K	620K
0.5	1.0	2.2	4.7	10	22	47	100	220	470	1.0K	2.2K	4.7K	10K	22K	43K	91K	180K	360K	680K
0.51	1.1	2.4	5.1	11	24	51	110	240	510	1.1K	2.4K	5.1K	11K	24K	47K	100K	200K	390K	750K
0.56	1.2	2.7	5.6	12	27	56	120	270	560	1.2K	2.7K	5.6K	12K	27K	51K	110K	220K	430K	820K
0.62	1.3	3.0	6.2	13	30	62	130	300	620	1.3K	3.0K	6.2K	13K	30K	56K	120K	240K	470K	910K
0.68	1.5	3.3	6.8	15	33	68	150	330	680	1.5K	3.3K	6.8K	15K	33K	62K	130K	270K	510K	1.0M
0.75	1.6	3.6	7.5	16	36	75	160	360	750	1.6K	3.6K	7.5K	16K	36K	68K	150K	300K	560K	
0.82	1.8	3.9	8.2	18	39	82	180	390	820	1.8K	3.9K	8.2K	18K						

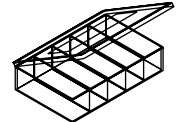


METAL OXIDE POWER RESISTOR KITS

These 240 piece kits contain 10 each of 24 different values packaged in plastic bags with one value per bag. There are 4 values stored in each of the 6 compartments in the compact storage case.

Specifications:

- 240 pieces
- 24 different values
- Fully assembled and keyed for easy use
- ±5%
- Flame proof
- -55°C to 200°C ±350 ppm/°C



MOUSER STOCK NO.	Watts	Value Range (Ω)	Price Each
370-261-1	1	10 each: .5, .68, .82, 1.0, 1.5, 2.0, 3.0, 4.7, 5.6, 6.8, 8.2, 9.1, 10, 15, 20, 30, 39, 47, 51, 68, 75, 82, 91, 100	34.95
370-262-1	2	10 each: .5, .68, .82, 1.0, 1.5, 2.0, 3.0, 4.7, 5.6, 6.8, 8.2, 9.1, 10, 15, 20, 30, 39, 47, 51, 68, 75, 82, 91, 100	39.95
370-261-2	1	10 each: 110, 120, 130, 150, 160, 180, 200, 220, 240, 270, 300, 330, 360, 390, 430, 470, 510, 560, 620, 680, 750, 820, 910, 1K	34.95
370-262-2	2	10 each: 110, 120, 130, 150, 160, 180, 200, 220, 240, 270, 300, 330, 360, 390, 430, 470, 510, 560, 620, 680, 750, 820, 910, 1K	39.95
370-261-3	1	10 each: 1.1K, 1.5K, 2K, 2.7K, 3K, 3.9K, 4.7K, 5.1K, 6.2K, 7.5K, 8.2K, 9.1K, 10K, 15K, 20K, 27K, 30K, 33K, 39K, 47K, 51K, 56K, 62K, 68K	34.95
370-262-3	2	10 each: 1.1K, 1.5K, 2K, 2.7K, 3K, 3.9K, 4.7K, 5.1K, 6.2K, 7.5K, 8.2K, 9.1K, 10K, 15K, 20K, 27K, 30K, 33K, 39K, 47K, 51K, 56K, 62K, 68K	39.95

MEC VITREOUS-ENAMEL COATED

Features:

- High stability
- Excellent insulation resistance
- High reliability
- All welded construction for high reliability

Specifications:

- Tolerance: ±5%
- Lead length: 1.37" min.
- Wirewound
- Conformal coated

MOUSER STOCK NO.	Cross Reference	
	Ohmite	Clarostat
289-C3A-Value	23J Series	VC3D Series
289-C7-Value	25J Series	VC5E Series

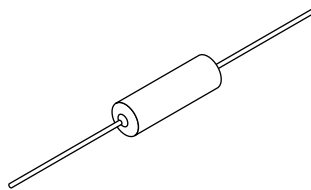


Table of Values in Ω				
0.1	1.0	10	50	500
0.15	1.5	15	56	1K
0.22	2.0	20	75	1.5K
0.27	2.2	22	100	2K
0.33	3.0	25	120	3K
0.47	3.3	27	150	3.3K
0.5	4.0	30	200	5K
0.56	4.7	33	220	
0.68	5.0	40	250	
0.82	7.5	47	470	

3 Watt

- Packaged on Bandolier tape packed 500 per box
- Dim: .23" Dia x .52" Length

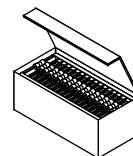
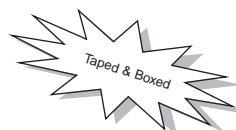
MOUSER STOCK NO.	Values (Ω)	Price Each	Price Per Box
289-C3A-Value	0.1-0.68	.425	212.50
	0.82-1K	.340	170.00
	1.5K-5K	.476	238.00

7 Watt

- Packaged on Bandolier tape packed 250 per box
- Dim: .34" Dia x .88" Length

MOUSER STOCK NO.	Values (Ω)	Price Each	Price Per Box
289-C7-Value	0.1-0.68	.425	106.25
	0.82-1K	.340	85.00
	1.5K-5K	.476	119.00

Ammo Packaging



Ammo Pack Stock No.	Quantity Per Box
289-C3A-Value / AP	500
289-C7-Value / AP	250

Power Wirewound Resistors



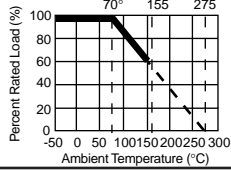
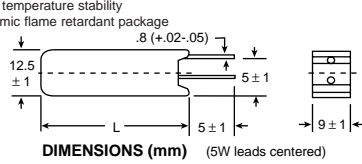
PRM VERTICAL MOUNT CEMENT POWER RESISTORS

Features:

- Exceptionally small, sturdy, and reliable
- Sealed with a special cement
- Excellent moisture resistance
- High temperature stability
- Ceramic flame retardant package

Specifications:

- Tolerance: $\pm 5\%$
- Temperature coefficient: $\pm 350\text{ppm}/^\circ\text{C}$ max;
- $< 200 \pm 400\text{ppm}/^\circ\text{C}$



0.1	0.47	1.0	4.7	15	47	75	200	470	2K
0.22	0.51	2.2	6.8	20	56	100	300	680	4.7K
0.3	0.68	3.0	10	33	68	150	330	1K	10K

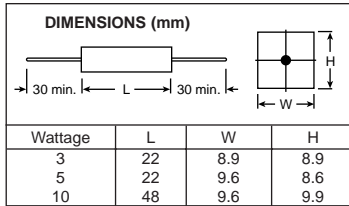
MOUSER STOCK NO.	Length (mm) $L \pm 1$	Resistance Range		Price Each			
		Wirewound	Power Film	1	10	100	500
280-PRM5-Value	25	0.1 Ω -47 Ω	48 Ω -100K Ω	.36	.31	.23	.19
280-PRM7-Value	38	0.1 Ω -680 Ω	681 Ω -200K Ω	.51	.41	.31	.28
280-PRM10-Value	50	0.1 Ω -910 Ω	911 Ω -200K Ω	.68	.54	.42	.37



CEMENT POWER RESISTORS

Features:

- Sealed with a special cement
- Excellent flame and moisture resistance
- High temperature stability
- Ceramic flame retardant package
- Temperature coefficient ± 250
- Welded internal connections

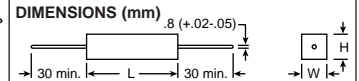


Features:

- Extremely small and sturdy
- Mechanically safe
- Self-extinguishing
- Excellent flame and moisture resistance

Specifications:

- Temperature coefficient: ± 350
- Tolerance: $\pm 5\%$
- Operating temperature: -40°C to $+200^\circ\text{C}$



Wattage	L	W	H
5	22	10	9
10	49	10	9
15	49	12.5	11.5
25	64	14.5	13.5

0.1	0.56	1.5	4.0	10	27	62	160	390	800	2.2K
0.15	0.58	1.6	4.3	11	30	68	180	400	820	2.4K
0.22	0.62	1.8	4.7	12	33	75	200	430	910	2.7K
0.27	0.68	2.0	5.0	13	36	82	220	470	1K	3K
0.3	0.75	2.2	5.1	15	39	91	240	500	1.1K	3.3K
0.33	0.82	2.4	5.6	16	40	100	250	510	1.2K	3.9K
0.39	0.91	2.7	6.2	18	43	110	270	560	1.3K	4.7K
0.43	1.0	3.0	6.8	20	47	120	300	600	1.5K	5K
0.47	1.1	3.3	7.5	22	50	125	330	620	1.6K	10K
0.5	1.2	3.6	8.2	24	51	130	350	680	1.8K	20K
0.51	1.3	3.9	9.1	25	56	150	360	750	2K	25K

MOUSER STOCK NO.	Cross Reference		Watts	Price Each						
	Dale	TRW/IRC		1	10	100	500	1000	5000	10,000
28PR002-Value	CP-3	PW-3	3 watt 5%	.37	.30	.22	.20	.15	.13	Call For Quote
28PR003-Value	CP-3	PW-3	3 watt 10%	.36	.28	.20	.18	.14	.12	
28PR004-Value	CP-5	PW-5	5 watt 5%	.39	.32	.24	.21	.16	.14	
28PR005-Value	CP-5	PW-5	5 watt 10%	.37	.37	.21	.19	.15	.13	
28PR009-Value	CP-10	PW-10	10 watt 5%	.55	.55	.35	.27	.23	.21	
28PR010-Value	CP-10	PW-10	10 watt 10%	.50	.50	.32	.26	.21	.19	

0.1	0.56	1.8	5.0	15	43	120	360	1.0K	3.3K
0.15	0.62	2.0	5.1	16	47	130	390	1.1K	3.9K
0.2	0.68	2.2	5.6	18	50	150	430	1.2K	4.7K
0.22	0.75	2.4	6.2	20	51	160	470	1.3K	5.0K
0.27	0.82	2.7	6.8	22	56	180	500	1.5K	10K
0.3	0.91	3.0	7.5	24	62	200	510	1.6K	20K
0.33	1.0	3.3	8.2	25	68	220	560	1.8K	25K
0.39	1.1	3.6	9.1	27	75	240	620	2.0K	
0.43	1.2	3.9	10	30	82	250	680	2.2K	
0.47	1.3	4.0	11	33	91	270	750	2.4K	
0.5	1.5	4.3	12	36	100	300	820	2.7K	
0.51	1.6	4.7	13	39	110	330	910	3.0K	

MOUSER STOCK NO.	Watts	Range of Values (Ω)	Price Each						
			1	10	100	500	1000	5000	10,000
280-CR5-Value	5	.1 to 25K	.39	.32	.24	.21	.176	.147	
280-CR10-Value	10	.1 to 25K	.55	.47	.35	.27	.24	.213	Call

MOUSER STOCK NO.	Watts	Range of Values (Ω)	Price Each						
			1	10	50	100	200	500	1000
280-CR15-Value	15	1.0 to 1.0K	.63	.57	.52	.47	.414	.362	
280-CR25-Value	25	2.0 to 1.0K	1.09	.99	.90	.82	.705	.599	Call



ALUMINUM HOUSED WIREWOUND POWER RESISTORS

Features:

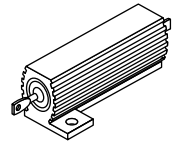
- Anodized aluminum housing ensures good humidity seal
- Designed for chassis or heat-sink mounted for maximum heat dissipation

- Terminations are silver plated
- High level voltage protection
- Available in 75, 150, 250, and 300 watt sizes

Specifications:

- Insulation resistance: 10 G Ω
- Dielectric strength: 1000VAC peak (10-15W); 2500VAC (25-50W); 5000VAC (100W)

- Resistant element: copper-nickel alloy or nickel chrome alloy
- Housing: anodized aluminum
- Core material: ceramic



++ These values are available from stock in 100 watt. Other values are available in 100 watt by special order.

For quantities greater than listed, call for quote.

0.1++	0.56	3.0	20	50	220++	2K++
0.15	0.68	3.3	22++	56	250	3K++
0.22++	0.82	4.0	25	68	330	3.3K
0.27	1.0++	4.7++	27	75	470++	5K
0.33	1.5	5.0	30	100++	500	10K++
0.47++	2.0++	7.5++	33++	120	680	20K++
0.5++	2.2++	10++	40	150++	1K++	25K
0.51	2.7++	15++	47++	200	1.5K	50K

MOUSER STOCK NO.	Wattage Rating (Heat Sink Mounted)	Dimensions (mm)					Mounting Holes (Dia.)	Values (Ω)	Price Each			
		Body Length	Lead Length	Width	Height	1			10	50	100	
284-HS10-Value	10 watt 5%	17	6.5	17	9	2.4	0.1-5K	2.49	2.08	1.89	1.72	
284-HS15-Value	15 watt 5%	21	7.75	21	11	2.4	0.1-2K 3K-5K	2.57	2.14	1.94	1.77	
284-HS25-Value	25 watt 5%	29	11	28	15	3.2	0.1-2K 3K-25K	2.79	2.42	2.07	1.92	
284-HS50-Value	50 watt 5%	51	10.75	30	17	3.2	0.1-5K 10K-50K	3.49	3.03	2.59	2.40	
284-HS100-Value	100 watt 5%	65.5	11.25	48	26	4.4	++ (see table)	3.97	3.31	3.01	2.74	
								4.30	3.60	3.26	2.96	
								14.50	13.21	12.01	10.92	

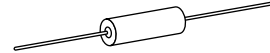
MOUSER/BIOHM RESISTORS

Features:

- High stability
- High reliability
- Excellent insulation resistance
- All welded construction for high reliability

Specifications:

- Tolerance: $\pm 5\%$
- Wirewound
- Lead length: 1.50"
- Conformal coated



Silicone-Coated 3 Watt, 4 Watt Rating Dim: .2" Dia x .56" L \pm .03

MOUSER STOCK NO.	Max Volt.	Values (Ω)	Price Each
285-KNA412-Value	125	0.47, 0.51, 0.56, 0.82, 4.0, 25, 33, 50, 75 3K, 3.3K	.40 .47

Silicone-Coated 5 Watt, 6 Watt Rating Dim: .28" Dia x .83" L \pm .03

MOUSER STOCK NO.	Max Volt.	Values (Ω)	Price Each
285-KNA620-Value	340	0.1, 0.27 0.51, 150	.77 .58

Silicone-Coated 10 Watt, 12 Watt Rating Dim: .375" Dia x 1.37" L \pm .03

MOUSER STOCK NO.	Max Volt.	Values (Ω)	Price Each
285-KNA833-Value	700	0.15 0.47, 0.51, 0.56, 0.68, 0.82 1.5, 3.3, 20, 47, 56, 2K	1.36 .91 .93

Vitreous-Enamel 3 Watt, 4 Watt Rating Dim: .21" Dia x .49" L \pm .03

MOUSER STOCK NO.	Max Volt.	Values (Ω)	Price Each
285-VNA412-Value	125	0.51, 0.82, 4.7, 27, 30, 47 3K, 5K	.72 .78

Vitreous-Enamel 5 Watt, 7 Watt Rating Dim: .295" Dia x .836" L \pm .03

MOUSER STOCK NO.	Max Volt.	Values (Ω)	Price Each
285-VNA620-Value	350	0.15, 0.27, 0.33, 0.47, 0.51 56, 120, 500	1.24 .90

Vitreous-Enamel 10 Watt, 15 Watt Rating Dim: .385" Dia x 1.80" L \pm .03

MOUSER STOCK NO.	Max Volt.	Values (Ω)	Price Each
285-VNA844-Value	550	0.15 0.47, 0.51, 0.56, 0.68, 0.82 2, 2.2, 3.3, 20, 27, 30, 75, 150, 500	2.52 1.68 1.34

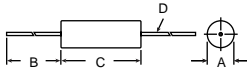
AXIAL LEAD VITREOUS ENAMEL COATED RESISTORS

Specifications:

- Resistance tolerance: ±5%
- Temperature coefficient: ±150PPM

Features:

- Enamel coating
- Welded terminations
- Low temperature coefficient



DIMENSIONS (IN.)

Series	A	B	C	D
VL3	7/32	1 1/2	17/32	.032
VL5	5/16	1 1/2	1 1/16	.036
VL10	3/8	1 1/2	1 13/16	.036

* Available in VL5 and VL10 only

Cross Reference Chart

Memcor Truohm	Ohmite	Clarostat
VL3	23J	VC3D
VL5	25J	VC5E
VL10	20J	VC10F

Table of Values in (Ω)

0.1	2.0	25	75	270	680	1.8K	4.7K	* 11K
0.13	3.0	27	82	300	700	2K	5K	* 12K
0.15	4.0	30	100	330	750	2.2K	5.6K	* 12.5K
0.2	5.0	33	120	350	800	2.5K	6K	* 15K
0.25	7.5	35	125	390	820	2.7K	6.8K	* 16K
0.3	10	39	150	400	900	3K	7K	* 18K
0.33	12	40	180	450	1K	3.3K	7.5K	* 20K
0.5	15	47	200	470	1.1K	3.5K	8K	* 22K
0.75	18	50	220	500	1.2K	3.9K	8.2K	* 22.5K
1.0	20	56	225	560	1.25K	4K	9K	* 25K
1.5	22	68	250	600	1.5K	4.5K	10K	

VL-3, 3 Watts

MOUSER STOCK NO.	Range of Values (Ω)	Price Each			
		1	50	100	250
588-VL3-Value	0.1 - 7.5	.90	.83	.69	.64
588-VL3-Value	10 - 82	.80	.74	.62	.57
588-VL3-Value	100 - 450	.74	.69	.57	.53
588-VL3-Value	470 - 900	.80	.74	.62	.57
588-VL3-Value	1K - 4.7K	1.08	1.00	.84	.78
588-VL3-Value	5K - 7K	1.41	1.31	1.09	1.01
588-VL3-Value	7.5K - 10K	1.62	1.51	1.26	1.17

VL-5, 5 Watts

588-VL5-Value	0.1 - 7.5	1.09	1.01	.84	.78
588-VL5-Value	10 - 82	1.05	.98	.81	.75
588-VL5-Value	100 - 470	.87	.81	.67	.62
588-VL5-Value	500 - 900	1.01	.94	.77	.72
588-VL5-Value	1K - 4.7K	1.20	1.12	.92	.86
588-VL5-Value	5K - 9K	1.54	1.43	1.19	1.11
588-VL5-Value	10K - 18K	1.69	1.57	1.30	1.21
588-VL5-Value	20K - 25K	2.00	1.86	1.54	1.43

VL-10, 10 Watts

588-VL10-Value	0.1 - 7.5	1.44	1.34	1.12	1.04
588-VL10-Value	10 - 82	1.34	1.25	1.04	.96
588-VL10-Value	100 - 900	1.23	1.14	.95	.88
588-VL10-Value	1K - 2.7K	1.47	1.37	1.13	1.05
588-VL10-Value	3K - 4.7K	1.68	1.56	1.29	1.20
588-VL10-Value	5K - 9K	1.93	1.79	1.48	1.38
588-VL10-Value	10K - 22.5K	2.18	2.03	1.68	1.56
588-VL10-Value	25K	2.46	2.29	1.89	1.76

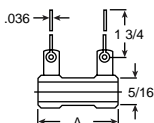
LUG AND LEAD FIXED RESISTORS

Specifications:

- Resistance tolerance: ±5%
- Temperature coefficient: ±100PPM

Features:

- Welded terminals
- Excellent heat dissipation
- Vitreous enamel coated



DIMENSIONS (IN.)

Series	A
FRL5	1
FRL10	1 3/4

Cross Reference Chart

Memcor Truohm	Ohmite	Clarostat	Dale †
FRL5	B8J	VPR5F	HLW6
FRL10	B12J	VPR10F	HLW12

† All Dale part numbers are silicone coated.

* Available in FRL10 only

Table of Values in (Ω)

1.0	10	50	200	500	1.5K	4K	15K
2.0	15	75	250	750	2K	5K	20K
3.0	20	100	300	1K	2.5K	6K	25K
5.0	25	125	400	1.2K	3K	8K	* 40K
7.5	35	150	450	1.25K	3.5K	10K	* 50K

FRL-5, 8 Watts

Uses Bracket 588-1441-003

MOUSER STOCK NO.	Range of Values (Ω)	Price Each			
		1	25	100	250
588-FRL5-Value	1.0 - 7.5	1.96	1.82	1.68	1.40
588-FRL5-Value	10 - 500	1.74	1.61	1.48	1.24
588-FRL5-Value	750 - 1.5K	1.78	1.65	1.53	1.27
588-FRL5-Value	2K - 8K	1.82	1.69	1.56	1.30
588-FRL5-Value	10K	1.92	1.78	1.64	1.37
588-FRL5-Value	15K	2.00	1.86	1.72	1.43
588-FRL5-Value	20K - 25K	2.55	2.37	2.18	1.82

FRL-10, 12 Watts

Uses Bracket 588-1441-003

MOUSER STOCK NO.	Range of Values (Ω)	Price Each			
		1	25	100	250
588-FRL10-Value	1.0 - 7.5	2.24	2.08	1.92	1.60
588-FRL10-Value	10 - 750	1.97	1.83	1.69	1.42
588-FRL10-Value	1K - 1.5K	2.14	1.99	1.83	1.53
588-FRL10-Value	2K - 4K	2.20	2.04	1.89	1.57
588-FRL10-Value	5K - 8K	2.32	2.16	1.99	1.66
588-FRL10-Value	10K - 15K	2.37	2.20	2.03	1.69
588-FRL10-Value	20K - 40K	2.46	2.29	2.11	1.76
588-FRL10-Value	50K	3.09	2.87	2.65	2.21

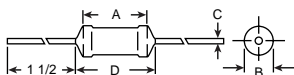
AXIAL LEAD SILICONE COATED WIREWOUND - 1%

Specifications:

- Resistance tolerance: ±1%
- Dielectric strength: 1000V
- Insulation resistance: 1000MΩ

Features:

- Welded construction
- Silicone coating and molding
- Meets MIL-R-26 requirements



DIMENSIONS (IN.)

Series	A	B	C	D
SL1	.363	.100	.020	.450
SL3	.457	.205	.032	.500
SL5	.895	.305	.040	.950

Cross Reference Chart

Memcor Truohm	Ohmite	Clarostat	Dale †
SL1	41F	SC1A	RS1A
SL3	43F	SC3D	RS2B
SL5	45F	SC5E	RS5

† All Dale part numbers are silicone coated.

* Available in SL3 and SL5 only

** Available in SL5 only

Table of Values in (Ω)

0.1	1.0	15	40	150	400	1.5K	* 5.6K	** 25K
0.13	1.5	18	47	180	470	2K	* 6.8K	
0.15	2.0	20	50	200	500	2.2K	* 7.5K	
0.2	3.0	22	56	220	560	2.5K	* 8K	
0.25	4.0	25	68	250	600	3K	* 8.2K	
0.3	5.0	27	75	270	680	* 3.9K	* 10K	
0.33	7.5	30	82	300	750	* 4K	** 12.5K	
0.5	10	33	100	330	1K	* 4.7K	** 15K	
0.75	12	39	120	350	1.2K	* 5K	** 20K	

SL-1, 1 Watt

MOUSER STOCK NO.	Range of Values (Ω)	Price Each			
		1	25	100	250
588-SL1-Value	0.1 - 7.5	1.83	1.70	1.41	1.31
588-SL1-Value	10 - 82	1.58	1.47	1.22	1.13
588-SL1-Value	100 - 470	1.78	1.65	1.37	1.27
588-SL1-Value	500 - 750	1.96	1.82	1.51	1.40
588-SL1-Value	1K - 1.5K	2.24	2.08	1.72	1.60
588-SL1-Value	2K - 3K	2.69	2.50	2.07	1.92

SL-3, 3 Watts

588-SL3-Value	0.1 - 0.75	1.47	1.37	1.13	1.05
588-SL3-Value	1.0 - 7.5	1.16	1.08	.90	.83
588-SL3-Value	10 - 82	.95	.88	.73	.68
588-SL3-Value	100 - 750	.81	.75	.62	.57
588-SL3-Value	1K - 1.5K	.99	.92	.77	.72
588-SL3-Value	2K - 2.5K	1.32	1.22	1.01	.94
588-SL3-Value	3K - 4.7K	1.60	1.48	1.23	1.14
588-SL3-Value	5K - 6.8K	1.92	1.78	1.47	1.37
588-SL3-Value	7.5K - 10K	1.97	1.83	1.53	1.42

SL-5, 5 Watts

588-SL5-Value	0.1 - 0.75	1.64	1.52	1.26	1.17
588-SL5-Value	1.0 - 7.5	1.13	1.05	.88	.82
588-SL5-Value	10 - 82	1.01	.94	.77	.72
588-SL5-Value	100 - 750	.95	.88	.73	.68
588-SL5-Value	1K - 2.5K	1.09	1.01	.84	.78
588-SL5-Value	3K - 6.8K	1.29	1.20	.99	.92
588-SL5-Value	7.5K - 8K	1.68	1.56	1.30	1.21
588-SL5-Value	10K - 15K	1.78	1.65	1.37	1.27
588-SL5-Value	20K - 25K	2.20	2.04	1.69	1.57

FIXED POWER RESISTORS

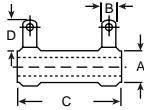
For quantities greater than listed, call for quote.

Specifications:

- Resistance tolerance: ±5%
- Temperature coefficient: ±100PPM

Features:

- Welded terminals
- Excellent heat dissipation
- Vitreous enamel coated



DIMENSIONS (IN.)

Series	A	B	C	D
FR25	9/16	1/4	2	9/16
FR50	9/16	1/4	4	9/16
FR100	3/4	1/4	6 1/2	9/16
FR200	1 1/8	5/16	10 1/2	5/8

Cross Reference Chart

Memcor Truohm	Ohmite	Clarostat	Dale †
FR25	L25J	VP25K	HL25
FR50	L50J	VP50K	HL50
FR100	L100J	VK100N	HL100
FR200	L225J	VK200W	HL225

† All Dale part numbers are silicone coated.

Table of Values in (Ω)

1.0	4.0	15	75	200	500	1.5K	3K	10K	25K
2.0	5.0	25	100	250	750	2K	5K	15K	50K
3.0	10	50	150	300	1K	2.5K	7.5K	20K	100K

MOUSER STOCK NO.	Range of Values (Ω)	Price Each		
		1	25	100
FR-25, 25 Watts Uses Bracket 588-1441-005				
588-FR25-Value	1.0 - 5.0	3.34	3.09	2.57
588-FR25-Value	10 - 800	3.29	3.03	2.54
588-FR25-Value	1K - 3.5K	3.45	3.17	2.65
588-FR25-Value	4K - 7.5K	3.48	3.22	2.69
588-FR25-Value	10K - 20K	4.16	3.85	3.21
588-FR25-Value	25K	4.32	3.99	3.33
588-FR25-Value	50K	4.49	4.13	3.45
588-FR25-Value	100K	4.77	4.41	3.68

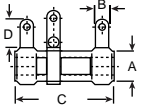
MOUSER STOCK NO.	Range of Values (Ω)	Price Each		
		1	25	100
FR-50, 50 Watts Uses Bracket 588-1441-005				
588-FR50-Value	1.0	5.16	4.77	3.98
588-FR50-Value	2.0 - 5.0	4.84	4.47	3.73
588-FR50-Value	10 - 800	4.75	4.38	3.65
588-FR50-Value	1K - 8K	4.69	4.34	3.61
588-FR50-Value	10K - 20K	5.16	4.77	3.98
588-FR50-Value	25K - 50K	7.33	6.76	5.64
588-FR50-Value	100K	7.51	6.93	5.79
FR-100, 100 Watts Uses Bracket 588-1441-006				
588-FR100-Value	1.0 - 2.0	7.31	6.73	6.18
588-FR100-Value	3.0 - 5.0	7.02	6.47	5.94
588-FR100-Value	10 - 75	6.60	6.10	5.59
588-FR100-Value	100 - 750	6.51	6.02	5.51
588-FR100-Value	1K - 7.5K	6.21	5.75	5.27
588-FR100-Value	10K - 25K	6.40	5.90	5.41
588-FR100-Value	50K	7.71	7.11	6.53
588-FR100-Value	100K	9.59	8.87	8.13
FR-200, 225 Watts Uses Bracket 588-1441-007				
588-FR200-Value	1.0	22.40	20.80	19.20
588-FR200-Value	2.0	16.16	15.00	13.85
588-FR200-Value	3.0 - 5.0	12.96	12.04	11.10
588-FR200-Value	10 - 100	11.30	10.49	9.69
588-FR200-Value	150 - 750	10.76	10.00	9.23
588-FR200-Value	1K - 7.5K	10.17	9.44	8.71
588-FR200-Value	10K - 25K	10.47	9.72	8.97
588-FR200-Value	50K	11.75	10.92	10.08
588-FR200-Value	100K	12.29	11.41	10.53

ADJUSTABLE POWER RESISTORS

For quantities greater than listed, call for quote.

Specifications:

- Resistance tolerance: ±10%
- Temperature coefficient: ±100PPM
- Vitreous enamel coated



DIMENSIONS (IN.)

Series	A	B	C	D
AR10	5/16	3/16	1 3/4	7/16
AR25	9/16	1/4	2	9/16
AR50	9/16	1/4	4	9/16
AR100	3/4	1/4	6 1/2	9/16
AR200	1 1/8	5/16	10 1/2	5/8

Cross Reference Chart

Memcor Truohm	Ohmite	Clarostat	Dale †
AR10	D12K	VP10FA	HLA12
AR25	D25K	VP25KA	HLA25
AR50	D50K	VP50KA	HLA50
AR100	D100K	VK100NA	HLA100
AR200	D225K	VK200WA	HLA225

† All Dale part numbers are silicone coated.

Table of Values in (Ω)

1.0	5.0	20	75	200	750	2K	5K	* Not available in AR10
2.0	10	25	100	250	1K	2.5K	10K	
3.0	15	50	150	500	1.5K	3.5K	*25K	

MOUSER STOCK NO.	Range of Values (Ω)	Price Each		
		1	25	50
AR-10, 12 Watts Uses Bracket 588-1441-003				
588-AR10-Value	1.0 - 5.0	5.41	4.99	4.16
588-AR10-Value	10 - 200	5.34	4.94	4.12
588-AR10-Value	250 - 750	5.54	5.12	4.26
588-AR10-Value	1K - 3.5K	5.79	5.33	4.45
588-AR10-Value	5K - 10K	5.88	5.43	4.52

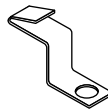
MOUSER STOCK NO.	Range of Values (Ω)	Price Each		
		1	25	100
AR-25, 25 Watts Uses Bracket 588-1441-005				
588-AR25-Value	1.0 - 2.0	6.34	5.86	4.89
588-AR25-Value	3.0 - 500	5.25	4.85	4.04
588-AR25-Value	750 - 3.5K	5.54	5.12	4.26
588-AR25-Value	5K - 10K	5.82	5.37	4.49
588-AR25-Value	25K	6.10	5.63	4.69
AR-50, 50 Watts Uses Bracket 588-1441-005				
588-AR50-Value	1.0 - 3.0	9.02	8.32	6.94
588-AR50-Value	5.0	8.83	8.14	6.79
588-AR50-Value	10 - 75	7.70	7.11	5.93
588-AR50-Value	100 - 750	7.51	6.93	5.79
588-AR50-Value	1K - 3.5K	8.07	7.46	6.21
588-AR50-Value	5K	8.22	7.59	6.33
588-AR50-Value	10K - 25K	8.36	7.71	6.44
AR-100, 100 Watts Uses Bracket 588-1441-006				
588-AR100-Value	1.0	11.26	10.40	9.53
588-AR100-Value	2.0 - 10	10.95	10.11	9.27
588-AR100-Value	25 - 500	9.84	9.07	8.32
588-AR100-Value	1K - 5K	9.45	8.72	8.00
588-AR100-Value	10K - 25K	9.06	8.37	7.67
AR-200, 225 Watts Uses Bracket 588-1441-007				
588-AR200-Value	1.0	25.03	23.24	21.45
588-AR200-Value	2.0 - 3.0	21.23	19.71	18.20
588-AR200-Value	4.0 - 5.0	19.16	17.78	16.42
588-AR200-Value	10 - 50	17.07	15.85	14.63
588-AR200-Value	100 - 25K	14.40	13.38	12.35

RESISTOR MOUNTING BRACKETS

For quantities greater than listed, call for quote

MOUSER STOCK NO.	May Be Used With These Resistors	Price Each	
		1	10
588-1441-003	FRL5, FRL10, AR10	.24	.20
588-1441-005	FR25, FR50, AR25, AR50	.26	.22

Requires 2 brackets per resistor.



For quantities greater than listed, call for quote

MOUSER STOCK NO.	May Be Used With These Resistors	Price Each	
		1	10
588-1441-006	FR100, AR100	.27	.23
588-1441-007	FR200, AR200	.28	.24

POWER WIREWOUND RHEOSTATS

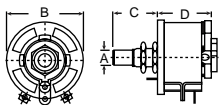
For quantities greater than listed, call for quote.

Specifications:

- Resistance tolerance: ±10%
- Rotation 300° ±5%

DIMENSIONS (IN.)

Series	A	B	C	D
RH12	1/8	7/8	5/8	1 1/16
RH25	1/4	1 9/16	7/8	1 5/16
RH50	1/4	2 5/16	7/8	1 7/16



* Available in RH12 and RH25 only
 ** Available in RH50 only
 † Available in RH25 only

Table of Values in (Ω)

** 0.5	6.0	* 25	* 100	** 225	* 750	* 3.5K
1.0	* 8.0	** 35	125	* 250	1K	5K
* 2.0	* 10	50	** 150	* 350	* 1.5K	10K
* 3.0	* 15	* 75	* 175	500	2.5K	† 25K

MOUSER STOCK NO.	Range of Values (Ω)	Price Each		
		1	10	50
RH-12, 12.5 Watts				
588-RH12-Value	1.0 - 8.0	17.12	14.68	13.46
588-RH12-Value	10 - 350	14.98	13.83	12.68
588-RH12-Value	500 - 1.5K	15.52	14.33	13.13
588-RH12-Value	2.5K - 5K	16.07	14.83	13.60
588-RH12-Value	10K	17.06	15.74	14.43
RH-25, 25 Watts				
588-RH25-Value	1.0 - 8.0	19.85	17.02	15.60
588-RH25-Value	10 - 750	18.98	16.26	14.91
588-RH25-Value	1K - 5K	19.62	16.82	15.42
588-RH25-Value	10K	21.29	18.25	16.73
588-RH25-Value	25K	22.67	19.44	17.81
RH-50, 50 Watts				
588-RH50-Value	0.5	28.47	24.40	22.36
588-RH50-Value	1.0 - 6.0	25.43	21.79	19.98
588-RH50-Value	35 - 150	22.26	19.07	17.49
588-RH50-Value	225 - 500	21.37	18.32	16.80
588-RH50-Value	1K - 10K	23.37	20.03	18.37

Slide, Thumbwheel, and Motorized Potentiometers

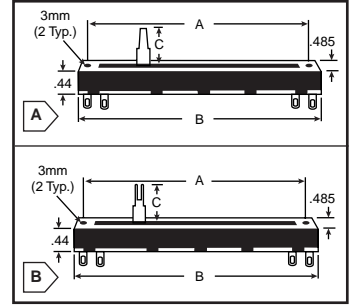


SLIDE POTENTIOMETERS

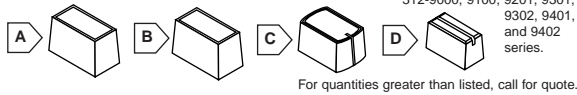
All slide potentiometers contain quality carbon composition elements for long life and noise-free operation.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Stock Values (Ω) Other Values Available on Request	Watts	Insulation Resistance @ 500VDC	Withstanding Voltage For 1 Minute	Dimensions (In.)			Price Each		
						A	B	C	1	10	100
Audio Taper											
312-9000-Value	A	1K, 5K, 10K, 50K, 100K	0.1	50MΩ	300VAC	1.77	1.98	.8	1.18	.91	.83
312-9402-Value	B	10K, 50K, 100K	0.25	100MΩ	300VAC	4.72	5.04	.59	5.04	3.78	3.47
Linear Taper											
312-9100-Value	A	500, 1K, 5K, 10K, 25K, 50K, 100K	0.25	50MΩ	300VAC	1.77	1.98	.8	1.18	.91	.83
	A	1K, 5K, 10K, 20K, 50K, 100K, 500K, 1M	0.25	100MΩ	500VAC	2.56	2.88	.8	1.39	1.16	1.06
312-9302-Value	A	1K, 2K, 5K, 10K, 25K, 50K, 100K, 250K, 500K, 1M	0.5	100MΩ	500VAC	3.15	3.475	.8	1.83	1.52	1.39
312-9301-Value	B	1K, 2K, 5K, 10K, 50K, 100K	0.5	100MΩ	500VAC	3.15	3.475	.59	1.83	1.53	1.40
312-9401-Value	B	1K, 100K	0.5	100MΩ	500VAC	4.72	5.04	.59	5.04	3.78	3.47



SLIDE POTENTIOMETER KNOBS



Fits slide potentiometers 312-9000, 9100, 9201, 9301, 9302, 9401, and 9402 series.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Dimensions (In.)			Price Each		
		H	W	L	1	10	100
45KN151	A	.45	.36	.60	.87	.69	.62
45KN152	A	.45	.36	.60	1.40	1.16	1.06
45KN153	B	.54	.50	.75	1.52	1.26	1.15
450-0154	D	.36	.24	.47	.39	.24	.22

SLIDEPOT SCREW

Used for mounting Mouser slide potentiometers

48SM026: use with series 9000 and 9100
48SM003: use with series 9201, 9301, 9302, 9401, 9402, 9600, and 9700



Length: 6mm

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Dia. (mm)	Pitch	Price Each		
			1	100	1000
48SM026	2.6	.45	.04	.012	.011
48SM003	3	.5	.04	.012	.011

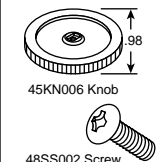
REPLACEMENT KNOB AND SCREW

For miniature thumbwheel potentiometers.

Specifications:

- Molded plastic black knob
- Fits our 31TV, 31TS, 31XT, 311-1201, 311-1202, 311-1204, 311-1205, 311-1206

DIMENSIONS (IN.)



For quantities greater than listed, call for quote.

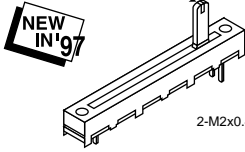
MOUSER STOCK NO.	Price Each		
	1	100	1000
45KN006	.15	.10	.094
48SS002	.03	.010	.009



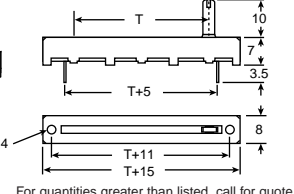
SLIDE POTENTIOMETERS WITH COLOR INDICATOR

- Watts: .2W
- Slide noise: less than 47mV
- Temperature range: -10°C to +70°C
- White indicator stocked
- PC pins

Options available subject to minimum order requirements:
Indicator mark: black, red, green, orange
Travel length: 20mm and 45mm
Lever length: 15mm and 20mm



DIMENSIONS (mm)



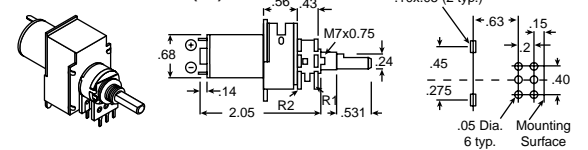
For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Values (Ω)	T (Travel)	Max. Working Voltage	Withstanding Voltage For 1 Minute	Insulation Resistance @ 500VDC	Price Each		
						1	10	100
Audio Taper								
312-319A-Value	1K, 5K, 10K, 50K, 100K	30mm	200V	300VAC	50MΩ	1.61	1.24	1.13
312-619A-Value	1K, 5K, 10K, 50K, 100K	60mm	200V	300VAC	50MΩ	1.80	1.39	1.27
Linear Taper								
312-319B-Value	1K, 5K, 10K, 50K, 100K	30mm	200V	300VAC	50MΩ	1.61	1.24	1.13
312-619B-Value	1K, 5K, 10K, 50K, 100K	60mm	200V	300VAC	50MΩ	1.80	1.39	1.27



MOTOR DRIVEN ROTARY POTENTIOMETER

DIMENSIONS (IN.)



- Rotational speed (sec/300°): 11±3 (@ 4.5VDC)
- Maximum operating current (mA): 100 @ rotation, 150 @ end slip
- Audio volume control
- Single shaft-dual unit
- Motor voltage (VDC): 3-6 (4.5 standard)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (Ω)	Tolerance	Rotational Torque	Price Each		
				1	10	100
316-1020-Value	10K, 50K, 100K	±20%	100-450gf/cm	9.98	8.98	8.25

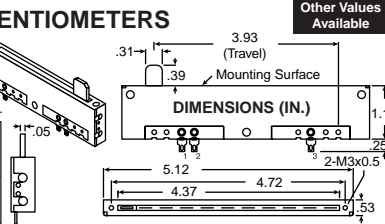


HIGH-GRADE SLIDE POTENTIOMETERS

- Tolerance: ±20%
- Watts: .25
- Withstanding voltage for 1 min. 350V
- Working voltage: 350V max.
- Insulation resistance: 100MΩ
- Slide noise: less than 47mV

For quantities greater than listed, call for quote.

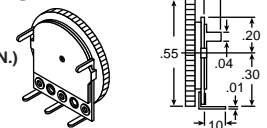
MOUSER STOCK NO.	Description	Value (Ω)	Price Each		
			1	10	100
312-9700-10K	Audio taper	10K	9.58	7.99	7.26
312-9600-100K	Linear taper	100K	9.58	7.99	7.26



10mm THUMBWHEEL PC MOUNT POTS

- Power rating: .03W
- Rotation angle: 270° ±5°
- Linear taper
- Complete with knob
- Rotation torque: 10-100gf-cm
- Rotation life: 10,000 cycles
- Resistance tolerance: <1M: ±20%, ≥1M: ±30%

DIMENSIONS (IN.)



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (Ω)	Price Each		
		1	10	100
312-1001-Value	1K, 5K, 10K, 50K, 100K, 500K, 1M	1.13	.94	.86

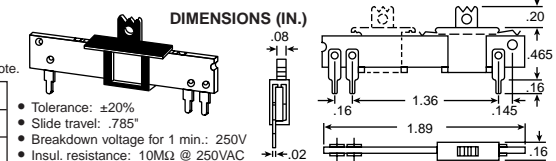


PC MOUNT MINI-SLIDE POTENTIOMETERS (Linear Taper)

Value(Ω): 1K, 5K, 10K, 50K, 100K

For quantities greater than listed, call for quote.

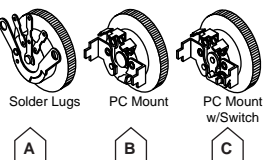
MOUSER STOCK NO.	Price Each		
	1	10	100
312-9500-Value	.97	.75	.68



12mm SUBMINIATURE POTENTIOMETERS WITH THUMBWHEEL KNOB

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Stock Values (Ω) Other Values Available on Request	Price Each		
			1	10	100
Audio Taper Voltage, max.: 100V Wattage: .04W					
311-1201-Value	A	1K, 5K, 10K, 50K, 100K, 500K	.87	.73	.66
311-1202-Value	B	1K, 5K, 10K, 50K, 100K, 500K	.87	.73	.66
311-1204-Value	C	1K, 5K, 10K, 50K, 100K, 500K	.96	.80	.73
Linear Taper Voltage, max.: 150V Wattage: .08W					
311-1205-Value	A	1K, 5K, 10K, 50K, 100K, 500K	.87	.73	.66
311-1206-Value	B	1K, 5K, 10K, 50K, 100K, 500K	.87	.73	.66



- Specifications:**
- Resistance tolerance: ±20%
 - Switch contact rating: 12VDC-1A



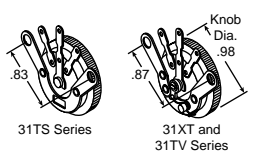
16mm MINIATURE POTENTIOMETERS WITH THUMBWHEEL KNOB

- Rotation angle: 260° ± 10°
- Rotation torque: 20-150 g-cm
- Stop strength: 2kg-cm
- Insulation resistance: 50MΩ @ 500VDC
- Resistance tolerance: <1M: ±20%, ≥1M: ±30%
- Breakdown voltage: 500V for 60 seconds
- Switch contact rating: 1 amp @ 12VDC
- Wattage: 0.1 watt-linear taper, 0.05 watt-audio taper

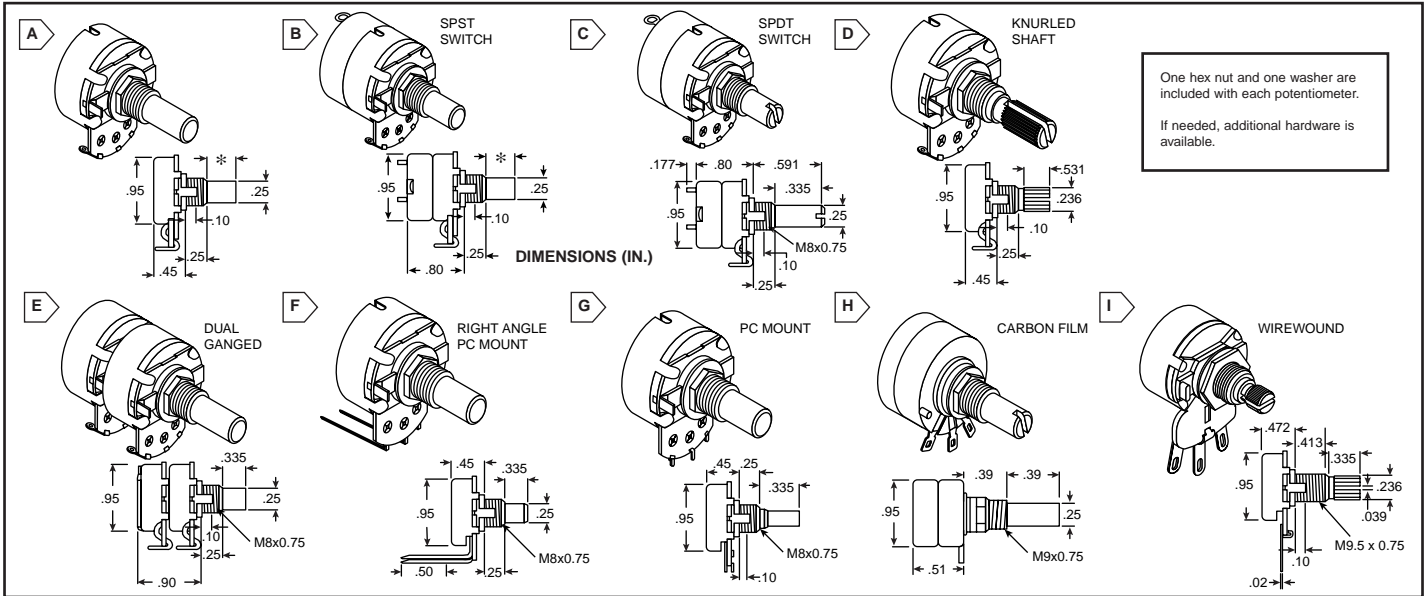
For quantities greater than listed, call for quote.

Value (Ω)	MOUSER STOCK NO.		
	Linear Taper	Linear Taper W/ Switch	Audio Taper W/ Switch
500	31TS205	31XT205	-----
1K	31TS301	31XT301	31TV301
2K	31TS302	-----	31TV302
5K	31TS305	31XT305	31TV305
10K	31TS401	31XT401	31TV401
50K	31TS405	31XT405	31TV405
100K	31TS501	31XT501	31TV501
500K	31TS505	31XT505	31TV505
1 Meg	31TS601	31XT601	31TV601

DIMENSIONS (IN.)



Series	Price Each		
	1	10	100
31TS	.94	.73	.66
31XT & 31TV	1.04	.80	.73



Mechanical Specifications:

- Total rotation angle 300°±5°
- Rotational torque: 20-200 g-cm
- Carbon composition

Electrical Specifications:

- Rated wattage: Linear taper-1/2 watt, Audio taper-1/4 watt
- Rated voltage: Linear taper-500VDC, Audio taper-250VDC
- Insulation resistance: >100MΩ (500VDC)
- Withstanding voltage: 500VAC for 1 minute
- Resistance tolerance: <1M: ±20%, ≥1M: ±30%
- 1/4" shaft diameter

For quantities greater than listed, call for quote.

SOLDER LUGS

Linear Taper, (.132") Shaft Length *

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each			
			1	10	100	500
31VC205	A	500	1.20	1.00	.91	.83
31VC301	A	1K	1.20	1.00	.91	.83
31VC302	A	2K	1.20	1.00	.91	.83
31VC303	A	2.5K	1.20	1.00	.91	.83
31VC305	A	5K	1.20	1.00	.91	.83
31VC401	A	10K	1.20	1.00	.91	.83
31VC403	A	25K	1.20	1.00	.91	.83
31VC405	A	50K	1.20	1.00	.91	.83
31VC501	A	100K	1.20	1.00	.91	.83
31VC503	A	250K	1.20	1.00	.91	.83
31VC505	A	500K	1.20	1.00	.91	.83
31VC601	A	1 Meg	1.20	1.00	.91	.83
31VC605	A	5 Meg	1.20	1.00	.91	.83

SOLDER LUGS

Dual Ganged Linear Taper, (.335") Shaft Length

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each			
			1	10	100	500
31VW205	E	500	2.35	1.96	1.78	1.62
31VW301	E	1K	2.35	1.96	1.78	1.62
31VW305	E	5K	2.35	1.96	1.78	1.62
31VW401	E	10K	2.35	1.96	1.78	1.62
31VW405	E	50K	2.35	1.96	1.78	1.62
31VW501	E	100K	2.35	1.96	1.78	1.62
31VW503	E	250K	2.35	1.96	1.78	1.62
31VW505	E	500K	2.35	1.96	1.78	1.62
31VW601	E	1 Meg	2.35	1.96	1.78	1.62

SOLDER LUGS

Audio Taper, (.335") Shaft Length *

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each			
			1	10	100	500
31VJ301	A	1K	1.25	.96	.87	.80
31VJ305	A	5K	1.25	.96	.87	.80
31VJ401	A	10K	1.25	.96	.87	.80
31VJ405	A	50K	1.25	.96	.87	.80
31VJ501	A	100K	1.25	.96	.87	.80
31VJ505	A	500K	1.25	.96	.87	.80
31VJ601	A	1Meg	1.25	.96	.87	.80

Audio Taper W/SPST Switch, (.335") Shaft Length *

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each			
			1	10	100	
31XP301	B	1K	1.72	1.43	1.30	1.19
31XP305	B	5K	1.72	1.43	1.30	1.19
31XP401	B	10K	1.72	1.43	1.30	1.19
31XP405	B	50K	1.72	1.43	1.30	1.19
31XP501	B	100K	1.72	1.43	1.30	1.19
31XP505	B	500K	1.72	1.43	1.30	1.19
31XP601	B	1Meg	1.72	1.43	1.30	1.19

Dual Ganged Audio Taper, (.335") Shaft Length

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each			
			1	10	100	500
313-2420-1K	E	1K	2.35	1.96	1.78	1.62
313-2420-5K	E	5K	2.35	1.96	1.78	1.62
313-2420-10K	E	10K	2.35	1.96	1.78	1.62
313-2420-50K	E	50K	2.35	1.96	1.78	1.62
313-2420-100K	E	100K	2.35	1.96	1.78	1.62
313-2420-250K	E	250K	2.35	1.96	1.78	1.62
313-2420-500K	E	500K	2.35	1.96	1.78	1.62
313-2420-1M	E	1Meg	2.35	1.96	1.78	1.62

Linear Taper, (.335") Shaft Length *

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each			
			1	10	100	500
31VA205	A	500	1.25	.96	.87	.80
31VA301	A	1K	1.25	.96	.87	.80
31VA302	A	2K	1.25	.96	.87	.80
31VA303	A	2.5K	1.25	.96	.87	.80
31VA305	A	5K	1.25	.96	.87	.80
31VA401	A	10K	1.25	.96	.87	.80
31VA403	A	25K	1.25	.96	.87	.80
31VA405	A	50K	1.25	.96	.87	.80
31VA501	A	100K	1.25	.96	.87	.80
31VA503	A	250K	1.25	.96	.87	.80
31VA505	A	500K	1.25	.96	.87	.80
31VA601	A	1 Meg	1.25	.96	.87	.80
31VA602	A	2 Meg	1.25	.96	.87	.80
31VA605	A	5 Meg	1.25	.96	.87	.80

Linear Taper W/Knurled Shaft, (.531") Shaft Length

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each			
			1	10	100	500
31VF205	D	500	1.25	.96	.87	.80
31VF301	D	1K	1.25	.96	.87	.80
31VF302	D	2K	1.25	.96	.87	.80
31VF305	D	5K	1.25	.96	.87	.80
31VF401	D	10K	1.25	.96	.87	.80
31VF405	D	50K	1.25	.96	.87	.80
31VF501	D	100K	1.25	.96	.87	.80
31VF503	D	250K	1.25	.96	.87	.80
31VF505	D	500K	1.25	.96	.87	.80
31VF601	D	1 Meg	1.25	.96	.87	.80
31VF602	D	2 Meg	1.25	.96	.87	.80

Linear Taper W/SPST Switch, (.335") Shaft Length *

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each			
			1	10	100	500
31VM205	B	500	1.72	1.43	1.30	1.19
31VM301	B	1K	1.72	1.43	1.30	1.19
31VM303	B	2.5K	1.72	1.43	1.30	1.19
31VM305	B	5K	1.72	1.43	1.30	1.19
31VM401	B	10K	1.72	1.43	1.30	1.19
31VM403	B	25K	1.72	1.43	1.30	1.19
31VM405	B	50K	1.72	1.43	1.30	1.19
31VM501	B	100K	1.72	1.43	1.30	1.19
31VM503	B	250K	1.72	1.43	1.30	1.19
31VM505	B	500K	1.72	1.43	1.30	1.19
31VM601	B	1 Meg	1.72	1.43	1.30	1.19

Linear Taper W/SPST Switch, (.132") Shaft Length *

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each			
			1	10	100	500
31VL205	B	500	1.76	1.47	1.34	1.22
31VL301	B	1K	1.76	1.47	1.34	1.22
31VL305	B	5K	1.76	1.47	1.34	1.22
31VL401	B	10K	1.76	1.47	1.34	1.22
31VL405	B	50K	1.76	1.47	1.34	1.22
31VL505	B	500K	1.76	1.47	1.34	1.22

Linear Taper W/SPDT Switch, (.335") Shaft Length

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each		
			1	10	100
315-2415-Value	C	1K, 5K, 10K, 25K, 50K, 100K, 250K, 500K, 1M	2.72	2.27	2.06

PCB TERMINALS

Linear Taper, (.335") Shaft Length

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each			
			1	10	100	500
31VQ205	F	500	1.27	.98	.89	.81
31VQ301	F	1K	1.27	.98	.89	.81
31VQ305	F	5K	1.27	.98	.89	.81
31VQ401	F	10K	1.27	.98	.89	.81
31VQ403	F	25K	1.27	.98	.89	.81
31VQ405	F	50K	1.27	.98	.89	.81
31VQ501	F	100K	1.27	.98	.89	.81
31VQ503	F	250K	1.27	.98	.89	.81
31VQ505	F	500K	1.27	.98	.89	.81
31VQ601	F	1 Meg	1.27	.98	.89	.81

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each		
			1	10	100
314-1410-Value	G	1K, 5K, 10K, 50K, 100K, 200K, 500K, 1M	1.25	.96	.87

SOLDER LUGS CARBON FILM

Linear Taper .25 Watt. +15 / -10% Tolerance (.393") Shaft Length

• Sealed for Long Life

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each			
			1	10	100	500
31YN205	H	500	9.04	7.53	6.85	6.22
31YN301	H	1K	9.04	7.53	6.85	6.22
31YN305	H	5K	9.04	7.53	6.85	6.22
31YN401	H	10K	9.04	7.53	6.85	6.22
31YN405	H	50K	9.04	7.53	6.85	6.22
31YN501	H	100K	9.04	7.53	6.85	6.22

SOLDER LUGS WIREWOUND

Linear Taper 3 Watt

- Rotation angle: 300° ±5°
- Rotational torque: 30-300g/cm
- Rated wattage: 3W
- End stop strength: 6Kg/cm

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each			
			1	10	100	500
313-2401-5	I	5	3.31	2.76	2.50	2.28
313-2401-10	I	10	3.31	2.76	2.50	2.28
313-2401-20	I	20	3.31	2.76	2.50	2.28
313-2401-50	I	50	3.31	2.76	2.50	2.28
313-2401-100	I	100	3.31	2.76	2.50	2.28
313-2401-500	I	500	3.31	2.76	2.50	2.28
313-2401-1K	I	1K	3.31	2.76	2.50	2.28
313-2401-2K	I	2K	3.31	2.76	2.50	2.28

Miniature Potentiometers

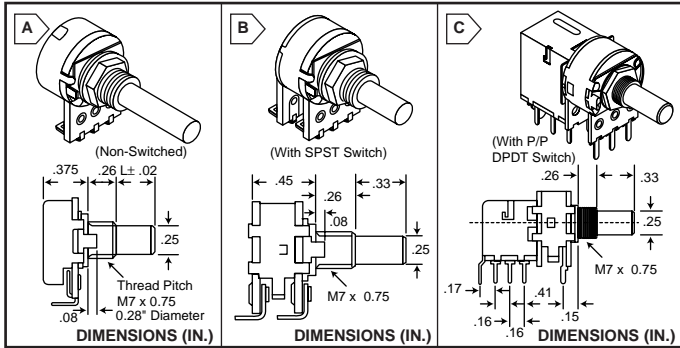
16mm MINIATURE CARBON COMPOSITION

Features:

- Solder lug terminals
- Small size
- Each supplied with one hex nut and one flat washer

Specifications:

- Rated voltage: 200V (linear) 150V (audio)
- 300° rotation angle ±5°
- Insulation resistance: >100MΩ
- Breakdown voltage: 500VAC, 1 minute
- Tolerance: <1M: ±20%, ≥1M: ±30%



Linear Taper Shaft Length (L): .53"

• Wattage: 0.2W

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each				
			1	10	100	500	1000
31JN301	A	1K	1.27	1.05	.87	.74	Call For Quote
31JN302	A	2K	1.27	1.05	.87	.74	
31JN305	A	5K	1.27	1.05	.87	.74	
31JN401	A	10K	1.27	1.05	.87	.74	
31JN405	A	50K	1.27	1.05	.87	.74	
31JN505	A	500K	1.27	1.05	.87	.74	
31JN601	A	1MEG	1.27	1.05	.87	.74	

Linear Taper Shaft Length (L): .33"

• Wattage: 0.2W

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each			
			1	10	100	500
313-1000-Value	A	1K, 2K, 5K, 10K, 25K, 50K, 100K, 250K, 500K, 1M, & 1.2M	1.21	1.05	.92	.84

Linear Taper Shaft Length (L): .33" Center Detent

• Wattage: 0.2W

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each			
			1	10	100	500
313-2000-Value	A	1K, 2K, 5K, 10K, 25K, 50K, 100K, 250K, 500K, & 1M	1.44	1.19	1.09	.99

Linear Taper Shaft Length (L): .33" 11 Detent Positions

• Wattage: 0.2W

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each			
			1	10	100	1000
313-3000-Value	A	1K, 2K, 5K, 10K, 25K, 50K, 100K, 250K, 500K, & 1M	1.74	1.45	1.32	1.19

Audio Taper Shaft Length (L): .33" 11 Detent Positions

• Wattage: 0.1W

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each			
			1	10	100	1000
313-4000-Value	A	10K, 50K, 100K, & 1M	1.74	1.45	1.32	1.19

Linear Taper Shaft Length (L): .33" With Switch

• Wattage: 0.125W

• With SPST switch rated at 12VDC, 1A

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each			
			1	10	100	1000
313-1100-Value	B	1K, 5K, 10K, 50K, 100K, 500K, & 1M	2.05	1.71	1.55	1.41

Linear Taper Shaft Length (L): .33" With Push-Pull Switch

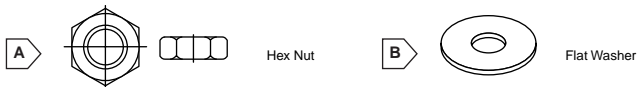
• Wattage: 0.2W

• With DPDT switch rated at 30VDC, 0.3A

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each			
			1	10	100	1000
313-1600-Value	C	1K, 5K, 10K, 50K, & 100K	3.75	3.12	2.84	2.58

REPLACEMENT NUTS AND WASHERS



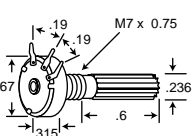
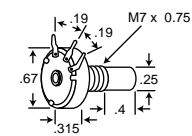
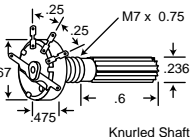
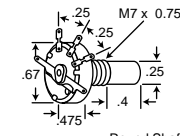
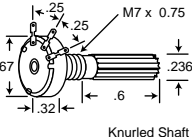
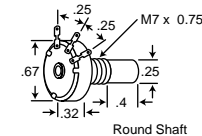
For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Fits	Price Each		
			1	100	1000
Nuts					
481-0017	A	31JN, 313-1000, 313-1100, 313-1600, 313-2000, 313-3000, 313-4000, 31CN, 31CQ, 31CW	.15	.07	.06
48AN007	A	31CR, 31CB, 31CA, 311-1901	.10	.027	.025
48AN006	A	31CX	.10	.027	.025
481-0010	A	310-1600	.16	.042	.039
Washer					
48CW007	B	31JN, 313-1100, 313-1000, 313-4000, 313-2000, 313-3000, 31CN, 31CQ, 31CW, 31CR, 31CB, 31CT	.05	.013	.011

17mm MINIATURE CARBON COMPOSITION

Miniature size potentiometers, aluminum shafts, bushings, body is plated steel, with bakelite rear plate. Contacts and terminals are silver plated brass. Each is supplied with one hex nut and one flat washer.

DIMENSIONS (IN.)



- Resistance element: carbon composition
- Tolerance: ±20%

- Switches rated at 1 amp @ 12VDC

Linear Taper

• Rated: 0.1W

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each				
			1	10	100	500	1000
* 31CN205	A	500	1.02	.79	.62	.56	Call For Quote
* 31CN301	A	1K	1.02	.79	.62	.56	
* 31CN302	A	2K	1.02	.79	.62	.56	
* 31CN305	A	5K	1.02	.79	.62	.56	
* 31CN401	A	10K	1.02	.79	.62	.56	
* 31CN405	A	50K	1.02	.79	.62	.56	
* 31CN501	A	100K	1.02	.79	.62	.56	
* 31CN505	A	500K	1.02	.79	.62	.56	
* 31CN601	A	1 MEG	1.02	.79	.62	.56	
* 31CN602	A	2 MEG	1.02	.79	.62	.56	
† 31CR205	B	500	1.12	.87	.68	.62	Call For Quote
† 31CR301	B	1K	1.12	.87	.68	.62	
† 31CR305	B	5K	1.12	.87	.68	.62	
† 31CR401	B	10K	1.12	.87	.68	.62	
† 31CR405	B	50K	1.12	.87	.68	.62	
† 31CR501	B	100K	1.12	.87	.68	.62	
† 31CR505	B	500K	1.12	.87	.68	.62	

† Use with replacement nut 48AN007
* Use with replacement nut 481-0017

Linear Taper with Switch

• Rated: 0.1W

* Use with replacement nut 481-0017

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each				
			1	10	100	500	
* 31CQ301	C	1K	1.13	.91	.71	.64	Call For Quote
* 31CQ305	C	5K	1.13	.91	.71	.64	
* 31CQ401	C	10K	1.13	.91	.71	.64	
* 31CQ405	C	50K	1.13	.91	.71	.64	
* 31CQ501	C	100K	1.13	.91	.71	.64	
* 31CQ505	C	500K	1.13	.91	.71	.64	
* 31CQ601	C	1 MEG	1.13	.91	.71	.64	

Audio Taper with Switch

• Rated: .05W

† Use with replacement nut 48AN007
* Use with replacement nut 481-0017

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each				
			1	10	100	500	
* 31CC301	C	1K	1.13	.91	.71	.64	Call For Quote
* 31CC305	C	5K	1.13	.91	.71	.64	
* 31CC401	C	10K	1.13	.91	.71	.64	
* 31CC501	C	100K	1.13	.91	.71	.64	
† 31CB301	D	1K	1.24	1.00	.78	.70	
† 31CB305	D	5K	1.24	1.00	.78	.70	
† 31CB401	D	10K	1.24	1.00	.78	.70	
† 31CB501	D	100K	1.24	1.00	.78	.70	

Linear Taper PC Mount

• Rated: 0.1W

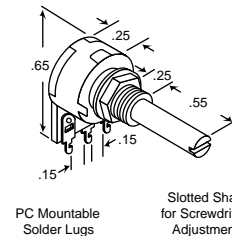
† Use with replacement nut 48AN007
* Use with replacement nut 481-0017

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each				
			1	10	100	500	
* 31CW205	E	500	1.02	.79	.62	.56	Call For Quote
* 31CW301	E	1K	1.02	.79	.62	.56	
* 31CW305	E	5K	1.02	.79	.62	.56	
* 31CW401	E	10K	1.02	.79	.62	.56	
* 31CW405	E	50K	1.02	.79	.62	.56	
* 31CW501	E	100K	1.02	.79	.62	.56	
* 31CW505	E	500K	1.02	.79	.62	.56	
* 31CW601	E	1 MEG	1.02	.79	.62	.56	
† 31CA205	F	500	1.12	.87	.68	.62	Call For Quote
† 31CA301	F	1K	1.12	.87	.68	.62	
† 31CA305	F	5K	1.12	.87	.68	.62	
† 31CA401	F	10K	1.12	.87	.68	.62	
† 31CA405	F	50K	1.12	.87	.68	.62	
† 31CA501	F	100K	1.12	.87	.68	.62	

13mm MICRO-MINIATURE CARBON COMPOSITION

Specifications:

- Resistance tolerance: ±20%
- Wattage rating: 0.1 watt
- Anti-rotational torque: 3 Kg-cm
- Operational temperature: -10°C to +70°C
- Breakdown voltage: 500V @ 60 seconds
- Rotational life: 5,000 cycles
- Linear taper



4mm Dia. Shaft

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (Ω)	Price Each			
		1	10	100	500
31CX301	1K	2.31	1.92	1.75	1.59
31CX305	5K	2.31	1.92	1.75	1.59
31CX401	10K	2.31	1.92	1.75	1.59
31CX405	50K	2.31	1.92	1.75	1.59
31CX501	100K	2.31	1.92	1.75	1.59
31CX505	500K	2.31	1.92	1.75	1.59
31CX601	1 MEG	2.31	1.92	1.75	1.59

NEW IN '97



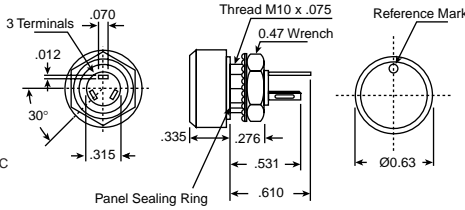
Potentiometers

VISHAY DALE CERMET POTENTIOMETER KNOBS, MODEL P16

DIMENSIONS (IN.)

Specifications:

- Electrical travel: 270° ± 10°
- Dielectric strength: 2500VRMS
- Limiting element voltage: 350V linear law
- Mechanical travel: 300° ± 5°
- Rotational life: 25,000 cycles
- Tolerance: ±10%
- Power rating: 1W @ +40°C
- Temperature range: -55°C to +125°C
- Taper: linear



For quantities greater than listed, call for quote.

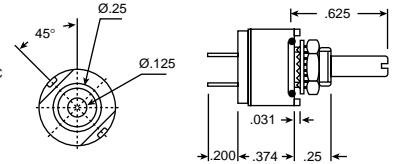
MOUSER STOCK NO.	Resistance Values	Max. Power @ +40°C	Maximum Current Through Element	Price Each			
				1	10	25	50
72-P16NP-1K	1K	1W	31.6mA	5.98	5.44	5.17	4.90
72-P16NP-5K	5K	1W	14.58mA	5.98	5.44	5.17	4.90
72-P16NP-10K	10K	1W	10mA	5.98	5.44	5.17	4.90
72-P16NP-50K	50K	1W	4.61mA	5.98	5.44	5.17	4.90
72-P16NP-1M	1M	.12W	.35mA	5.98	5.44	5.17	4.90

VISHAY DALE CERMET POTENTIOMETERS, MODEL PRV6

DIMENSIONS (IN.)

Specifications:

- Resistance tolerance: ±10%
- Power rating: 1.5W @ 70°C
- Electrical travel: 270° ± 15°
- Mechanical travel: 300° ± 5°
- Temperature range: -55°C to +125°C
- Mechanical life 50,000 cycles
- Solder life
- Taper: linear



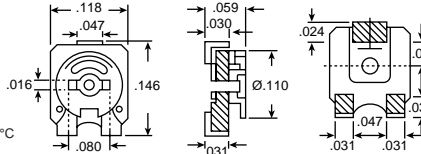
For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Resistance Values	Max. Power @ +70°C	Maximum Current Through Element	Price Each			
				1	10	25	50
72-PRV6-10K	10K	1.5W	12.2mA	11.36	9.85	9.09	7.58
72-PRV6-50K	50K	1.5W	5.65mA	11.36	9.85	9.09	7.58
72-PRV6-100K	100K	1.22W	3.5mA	11.36	9.85	9.09	7.58
72-PRV6-500K	500K	0.25W	0.7mA	11.36	9.85	9.09	7.58
72-PRV6-1M	1M	0.12W	0.35mA	11.36	9.85	9.09	7.58

VISHAY DALE 3mm SINGLE TURN SMD, SQUARE, OPEN FRAME, CERMET TRIMMER POTENTIOMETERS

Specifications:

- Tolerance: ±30%
- Operating temperature range: -40°C to +100°C
- Rated voltage: 50VDC
- Rotation: 270° ± 20°
- Power rating: .1W @ 70°C
- Temperature Coefficient: ±250ppm/°C



DIMENSIONS (IN.)

◆ Surface Mount Device

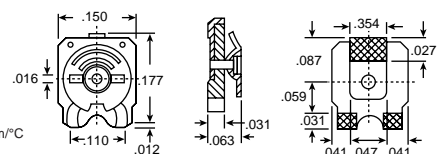
For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Tables of Values	Price Each			
		1	25	50	100
72-ST30A-Value	1K, 5K, 10K, 50K, 100K	.40	.32	.27	.26

VISHAY DALE 4mm SINGLE TURN SMD, SQUARE, OPEN FRAME, CERMET TRIMMER POTENTIOMETERS

Specifications:

- Tolerance: ±30%
- Operating temperature range: -40°C to +100°C
- Rated voltage: 100VDC
- Rotation: 270° ± 20°
- Power rating: .2W @ 70°C
- Temperature Coefficient: ±250ppm/°C



DIMENSIONS (IN.)

◆ Surface Mount Device

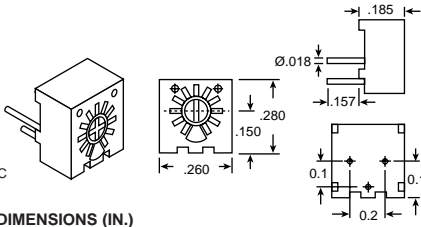
For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Tables of Values	Price Each			
		1	25	50	100
72-ST22A-Value	1K, 5K, 10K, 50K, 100K, 500K, 1M	.45	.38	.36	.35

VISHAY DALE 1/4" SINGLE TURN, SQUARE, VERTICAL ADJUST, CERMET TRIMMER POTENTIOMETERS

Specifications:

- Tolerance: ±10%
- Operating temperature range: -55°C to +125°C
- Rated voltage: 250VDC
- Rotation: 250° ± 15°
- Power rating: .5W @ 70°C
- Temperature Coefficient: ±70ppm/°C



DIMENSIONS (IN.)

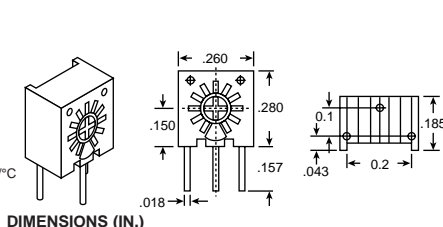
For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Tables of Values	Price Each			
		1	25	50	100
72-T73YP-Value	1K, 2K, 5K, 10K, 50K, 100K	1.12	1.05	.98	.91

VISHAY DALE 1/4" SINGLE TURN, SQUARE, HORIZONTAL ADJUST, CERMET TRIMMER POTENTIOMETERS

Specifications:

- Tolerance: ±10%
- Operating temperature range: -55°C to +125°C
- Rated voltage: 250VDC
- Rotation: 250° ± 15°
- Power rating: .5W @ 70°C
- Temperature Coefficient: ±70ppm/°C



DIMENSIONS (IN.)

For quantities greater than listed, call for quote.

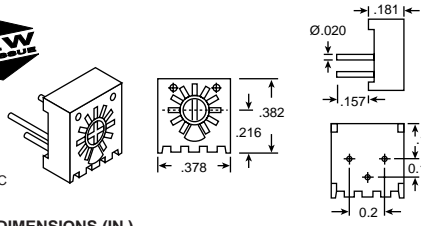
MOUSER STOCK NO.	Tables of Values	Price Each			
		1	25	50	100
72-T73XX-Value	1K, 2K, 5K, 10K, 50K, 100K	1.12	1.05	.98	.91

VISHAY DALE 3/8" SINGLE TURN, SQUARE, VERTICAL ADJUST, CERMET TRIMMER POTENTIOMETERS

Specifications:

- Tolerance: ±10%
- Operating temperature range: -55°C to +125°C
- Rated voltage: 250VDC
- Rotation: 250° ± 15°
- Power rating: .5W @ 70°C
- Temperature Coefficient: ±70ppm/°C

NEW THIS MODEL



DIMENSIONS (IN.)

For quantities greater than listed, call for quote.

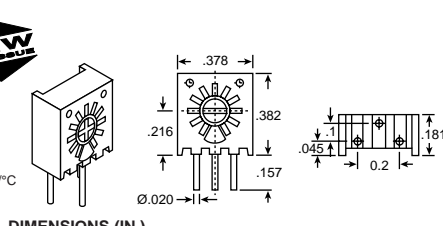
MOUSER STOCK NO.	Tables of Values	Price Each			
		1	25	50	100
72-T20YP-Value	1K, 2K, 5K, 10K, 50K, 100K	.76	.60	.58	.56

VISHAY DALE 3/8" SINGLE TURN, SQUARE, HORIZONTAL ADJUST, CERMET TRIMMER POTENTIOMETERS

Specifications:

- Tolerance: ±10%
- Operating temperature range: -55°C to +125°C
- Rated voltage: 250VDC
- Rotation: 250° ± 15°
- Power rating: .5W @ 70°C
- Temperature Coefficient: ±70ppm/°C

NEW THIS MODEL

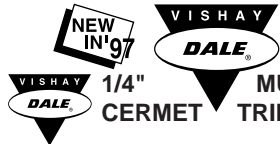


DIMENSIONS (IN.)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Tables of Values	Price Each			
		1	25	50	100
72-T20XX-Value	1K, 2K, 5K, 10K, 50K, 100K	.76	.60	.58	.56

Multi-Turn Potentiometers and Adjustable Attenuators



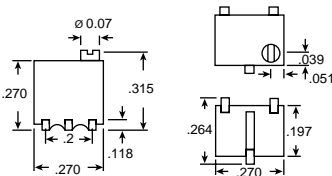
1/4" MULTI-TURN SMD, SQUARE, CERMET TRIMMER POTENTIOMETERS

◆ Surface Mount Device

Specifications:

- Tolerance: ±10%
- Oper. temp. range: -55°C to +155°C
- Rated voltage: 250VDC
- Rotation: 13 turns ±2
- Power rating: .25W @ 85°C
- Temperature coefficient: ±50ppm/°C
- Screwdriver slot: .02 x .02 in.

DIMENSIONS (IN.)



For quantities greater than listed, call for quote.

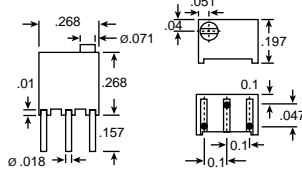
MOUSER STOCK NO.	Tables of Values	Price Each			
		1	25	50	100
72-TS63Y-Value	1K, 2K, 5K, 10K, 50K, 100K	2.89	2.35	1.88	1.72

1/4" MULTI-TURN, SQUARE, VERTICAL ADJUST, CERMET TRIMMER POTENTIOMETERS

Specifications:

- Tolerance: ±10%
- Oper. temp. range: -55°C to +155°C
- Rated voltage: 250VDC
- Rotation: 15 turns ±5
- Power rating: .25W @ 85°C
- Temperature coefficient: ±70ppm/°C
- Screwdriver slot: .02 x .02 in.

DIMENSIONS (IN.)



For quantities greater than listed, call for quote.

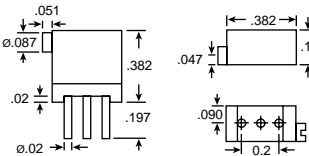
MOUSER STOCK NO.	Tables of Values	Price Each			
		1	25	50	100
72-T63YB-Value	1K, 2K, 5K, 10K, 50K, 100K	2.49	2.27	2.13	1.99

3/8" MULTI-TURN, SQUARE, HORIZONTAL ADJUST, CERMET TRIMMER POTENTIOMETERS

Specifications:

- Tolerance: ±10%
- Oper. temp. range: -55°C to +155°C
- Rated voltage: 250VDC
- Rotation: 19 turns ±2
- Power rating: .50W @ 85°C
- Temperature coefficient: ±70ppm/°C
- Screwdriver slot: .024 x .024 in.

DIMENSIONS (IN.)



For quantities greater than listed, call for quote.

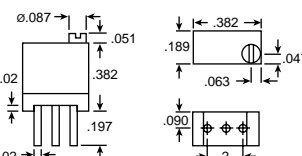
MOUSER STOCK NO.	Tables of Values	Price Each			
		1	25	50	100
72-T93XA-Value	100, 200, 500, 1K, 2K, 5K, 10K, 20K, 50K, 100K, 200K, 500K, 1M	1.76	1.67	1.61	1.54

3/8" MULTI-TURN, SQUARE, VERTICAL ADJUST, CERMET TRIMMER POTENTIOMETERS

Specifications:

- Tolerance: ±10%
- Oper. temp. range: -55°C to +155°C
- Rated voltage: 250VDC
- Rotation: 19 turns ±2
- Power rating: .50W @ 85°C
- Temperature coefficient: ±70ppm/°C
- Screwdriver slot: .024 x .024 in.

DIMENSIONS (IN.)



For quantities greater than listed, call for quote.

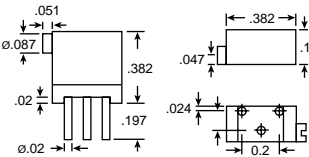
MOUSER STOCK NO.	Tables of Values	Price Each			
		1	25	50	100
72-T93YA-Value	100, 200, 500, 1K, 2K, 5K, 10K, 20K, 50K, 100K, 200K, 500K, 1M	1.76	1.67	1.61	1.54

3/8" MULTI-TURN, SQUARE, HORIZONTAL ADJUST, CERMET TRIMMER POTENTIOMETERS

Specifications:

- Tolerance: ±10%
- Oper. temp. range: -55°C to +155°C
- Rated voltage: 250VDC
- Rotation: 19 turns ±2
- Power rating: .50W @ 85°C
- Temperature coefficient: ±70ppm/°C
- Screwdriver slot: .024 x .024 in.

DIMENSIONS (IN.)



For quantities greater than listed, call for quote.

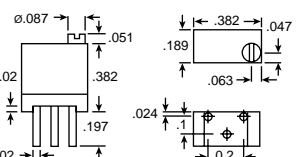
MOUSER STOCK NO.	Tables of Values	Price Each			
		1	25	50	100
72-T93XB-Value	100, 200, 500, 1K, 2K, 5K, 10K, 20K, 50K, 100K, 200K, 500K, 1M	1.76	1.67	1.61	1.54

3/8" MULTI-TURN, SQUARE, VERTICAL ADJUST, CERMET TRIMMER POTENTIOMETERS

Specifications:

- Tolerance: ±10%
- Oper. temp. range: -55°C to +155°C
- Rated voltage: 250VDC
- Rotation: 19 turns ±2
- Power rating: .50W @ 85°C
- Temperature coefficient: ±70ppm/°C
- Screwdriver slot: .024 x .024 in.

DIMENSIONS (IN.)



For quantities greater than listed, call for quote.

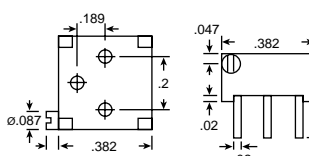
MOUSER STOCK NO.	Tables of Values	Price Each			
		1	25	50	100
72-T93YB-Value	100, 200, 500, 1K, 2K, 5K, 10K, 20K, 50K, 100K, 200K, 500K, 1M	1.76	1.67	1.61	1.54

3/8" MULTI-TURN, SQUARE, HORIZONTAL ADJUST, CERMET TRIMMER POTENTIOMETERS

Specifications:

- Tolerance: ±10%
- Oper. temp. range: -55°C to +155°C
- Rated voltage: 250VDC
- Rotation: 19 turns ±2
- Power rating: .50W @ 85°C
- Temperature coefficient: ±70ppm/°C
- Screwdriver slot: .024 x .024 in.

DIMENSIONS (IN.)



For quantities greater than listed, call for quote.

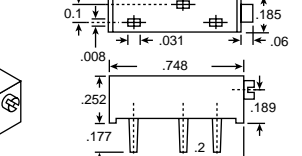
MOUSER STOCK NO.	Tables of Values	Price Each			
		1	25	50	100
72-T93Z-Value	100, 200, 500, 1K, 2K, 5K, 10K, 20K, 50K, 100K, 200K, 500K, 1M	2.48	2.36	2.26	2.17

3/4" MULTI-TURN, SQUARE, HORIZONTAL ADJUST, CERMET TRIMMER POTENTIOMETERS

Specifications:

- Tolerance: ±10%
- Oper. temp. range: -55°C to +155°C
- Rated voltage: 250VDC
- Rotation: 15 turns ±1
- Power rating: .75W @ 70°C
- Temperature coefficient: ±70ppm/°C
- Screwdriver slot: .024 x .024 in.

DIMENSIONS (IN.)



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Tables of Values	Price Each			
		1	25	50	100
72-T18-Value	500, 1K, 5K, 10K, 20K, 50K, 100K, 200K, 500K, 1M	1.24	1.19	1.15	1.05

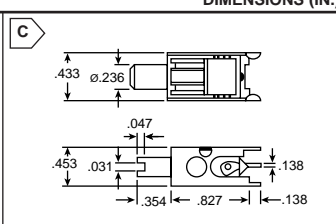
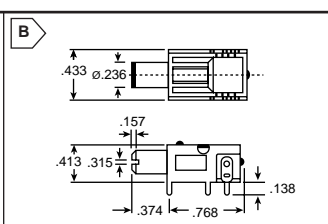
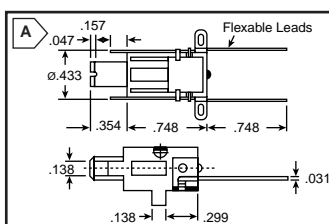
ADJUSTABLE ATTENUATORS

Specifications:

- Impedance: 75Ω
- Actuation: insul. plastic shaft w/screwdriver slot
- Terminals: silver plated lugs, tinned pins
- Nominal angle of rotation: 3 revolutions

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Price Each			
		1	5	10	25
72-M2001-HP1	A	4.58	3.66	3.20	2.75
72-M2001-HP2	B	4.58	3.66	3.20	2.75
72-M2001-HS2	C	4.58	3.66	3.20	2.75

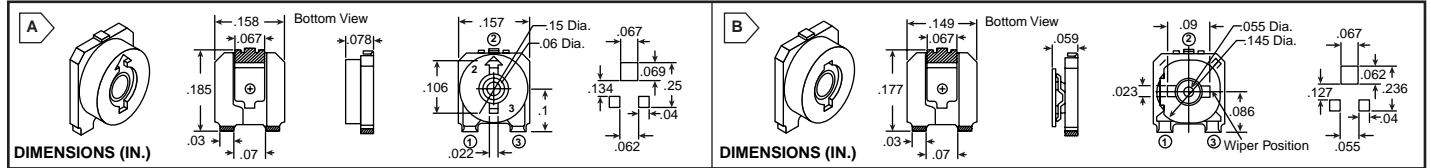


DIMENSIONS (IN.)



Single-Turn Trimmer Potentiometers

4mm SMD TRIMMER POTENTIOMETERS



Sealed Trimmer Model 4M

- Specifications:**
- Effective rotational angle: 240°±10°
 - Temperature coefficient of resistance: ±250ppm/°C
 - Power rating: 0.1 watts @ 70°C
 - Resistance tolerance: ±25%
 - Operating temperature range: -55°C to +125°C

- Features:**
- Mini, super-thin (4.7 x 4.0 x 2.0mm)
 - Suitable for flow and reflow soldering
 - High reliability
 - Sealed to withstand immersion cleaning process
 - No cleaning process is necessary after soldering

◆ Surface Mount Device

MOUSER STOCK NO.	Fig.	Values (Ω)	Price Each				MOUSER STOCK NO.	Price Per 500 Piece Reel			
			1	25	50	100		1	2	5	10
◆ 594-004M-Value	A	1K, 5K, 10K, 50K, 100K	1.40	1.23	1.18	1.08	594-004M-Value / REEL	440.00	415.00	400.00	Call

Open Frame Model 4H

- Specifications:**
- Temperature coefficient of resistance: ±250ppm/°C
 - Effective rotational angle: 270° ± 10°
 - Power rating: 0.1W @ 70°C
 - Operating temperature range: -55°C to +125°C
 - Max. working voltage: 50VDC
 - Resistance tolerance: ±25%

By The Reel

- Features:**
- Excellent solder wettability
 - Nickel barrier layer construction

◆ 594-004H-Value	B	1K, 5K, 10K, 50K, 100K	.70	.65	.62	.58	594-004H-Value / REEL	250.00	235.00	220.00	Call
------------------	---	------------------------	-----	-----	-----	-----	-----------------------	--------	--------	--------	------

1/4" SQUARE TRIMMER

- Specifications:**
- Tolerance: ±10%
 - Temperature coefficient: ±100ppm/°C
 - Rating: 0.5 W @ 70°C, derated linearly to 0 W @ 125°C
 - Contact resistance variation: 1% or 3Ω, whichever is greater

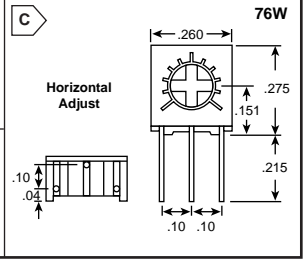
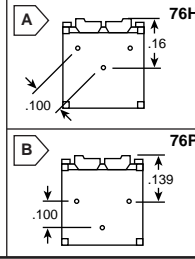
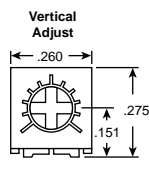
DIMENSIONS (IN.)



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Values (Ω)	Price Each			
			1	25	50	100
594-76H-Value	A	1K, 2K, 10K	1.13	1.00	.90	.82
594-76P-Value	B	1K, 2K, 5K, 10K	1.13	1.00	.90	.82
594-76V-Value	C	1K, 5K, 10K, 100K	1.13	1.00	.90	.82

Common Dimensions Figures A and B

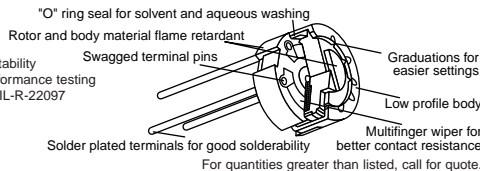


1/4" ROUND CERMET

- Specifications:**
- Tolerance: ±10%
 - Travel: 230°±5°
 - Maximum voltage: ≤ 300V
 - Operating temp.: -55°C to +125°C
 - Coefficient of res.: ±100ppm/°C, 1000 thru 2MΩ
 - Rating: 0.5 W @ 70°C, derated linearly to 0 W @ 125°C
 - Contact resistance variation: 3% or 3Ω, whichever is greater

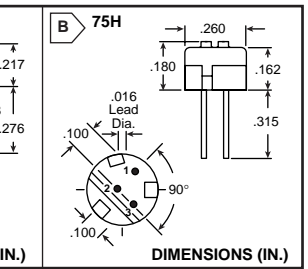
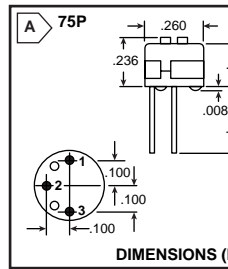
Features:

- Easy adjustment and stability
- Environmental and performance testing to MIL-STD-202 and MIL-R-22097
- Available in side adjust



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Values (Ω)	Cross-Reference			Price Each		
			Bourns	BI Technologies	Allen Bradley	1	25	50
594-75P-Value	A	100, 200, 500, 1K, 5K, 10K, 20K, 50K, 100K	3329P	62M, 82M	SVXXX1	1.13	1.00	.90
594-75H-Value	B	100, 200, 500, 1K, 5K, 10K, 20K, 50K, 100K	3329H	82P, 62P	AZAXXXU	1.13	1.00	.90



3/8" CERMET

Value (Ω)	63S Series	63X Series	63M Series	63P Series
10	---	---	---	594-63P100
20	---	---	---	594-63P200
50	---	---	---	594-63P500
100	594-63S101	594-63X101	594-63M101	594-63P101
200	594-63S201	594-63X201	594-63M201	594-63P201
500	594-63S501	594-63X501	594-63M501	594-63P501
1K	594-63S102	594-63X102	594-63M102	594-63P102
2K	---	594-63X202	---	594-63P202
5K	594-63S502	594-63X502	594-63M502	594-63P502
10K	594-63S103	594-63X103	594-63M103	594-63P103
20K	594-63S203	594-63X203	594-63M203	594-63P203
25K	594-63S253	594-63X253	---	594-63P253
50K	594-63S503	594-63X503	594-63M503	594-63P503
100K	594-63S104	594-63X104	594-63M104	594-63P104
200K	594-63S204	594-63X204	---	594-63P204
250K	594-63S254	594-63X254	---	594-63P254
500K	594-63S504	594-63X504	---	594-63P504
1M	594-63S105	594-63X105	---	594-63P105
2M	594-63S205	594-63X205	---	594-63P205

Specifications:

- Tolerance: ±10%
- Coefficient of resistance: ±100ppm/°C
- Rating: 0.5 W @ 70°C, derated linearly to 0 W @ 125°C
- Contact resistance variation: 2% or 2Ω, whichever is greater
- Electrical travel: 270°

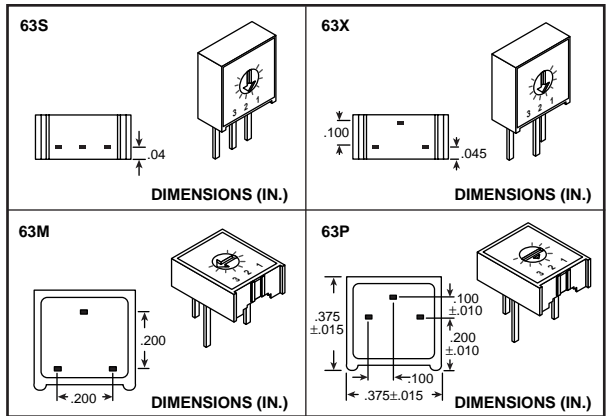
Features:

- Sealed for cleaning in common solvents
- Easy adjustment and stability

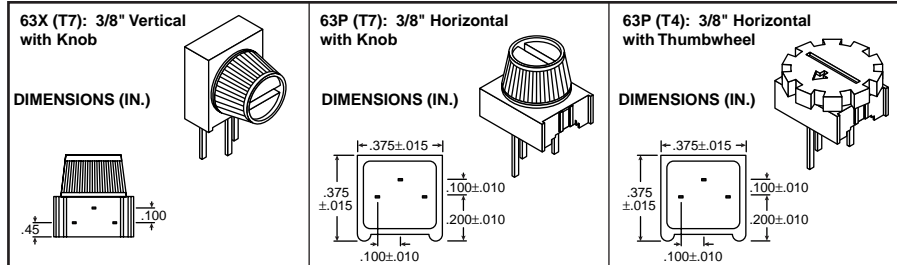
Series No.	Price Each		
	1	25	50
63S, 63M	1.07	1.05	1.03
63X, 63P	1.02	1.00	.99

Cross-Reference Chart

Spectrol	Bourns	BI Technologies	Murata
63S	3386C	72XL	3104C
63X	3386X	72X	3104X
63M	3386F	72PM	3104F
63P	3386P	72P	3104P



TRIMMERS WITH KNOB



Price Each			
1	25	50	100
2.05	1.82	1.64	Call

Value (Ω)	63X Series (T7)	63P Series (T7)	63P Series (T4)
	MOUSER STOCK NO.		
1K	594-63X102T7	594-63P102T7	594-63P102T4
2K	594-63X202T7	594-63P202T7	594-63P202T4
5K	594-63X502T7	594-63P502T7	594-63P502T4
10K	594-63X103T7	594-63P103T7	594-63P103T4
20K	594-63X203T7	594-63P203T7	594-63P203T4
50K	594-63X503T7	594-63P503T7	594-63P503T4
100K	594-63X104T7	594-63P104T7	594-63P104T4



Multi-Turn Trimmer Potentiometers and Precision Dials

1-1/4" RECTANGULAR MULTI-TURN PC MOUNT CERMET

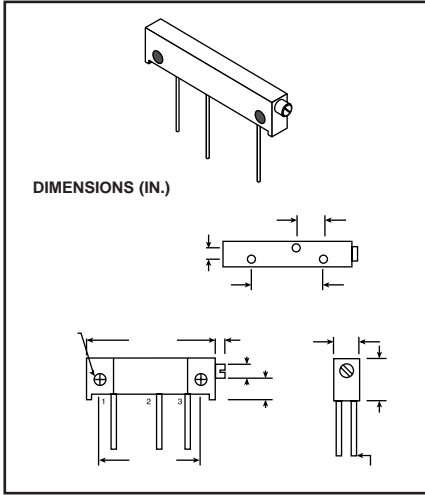
Electrical Specifications:

- Tolerance: $\pm 10\%$
- Power rating: 1W at 85°C, Derating to 0W at 150°C
- Electrical travel: 20 turns, nominal
- Dielectric withstanding: 1,000VAC
- Insulation resistance: 1,000M Ω

Mechanical Specifications:

- Stop strength: Clutch idles at stop
- Operating torque: 5.0 oz-in max
- Rotational life: 200 cycles, loaded

Value Ω	MOUSER STOCK NO.
100	594-70Y101
200	594-70Y201
500	594-70Y501
1K	594-70Y102
2K	594-70Y202
5K	594-70Y502
10K	594-70Y103
20K	594-70Y203
50K	594-70Y503
100K	594-70Y104
200K	594-70Y204
500K	594-70Y504
1M	594-70Y105
2M	594-70Y205

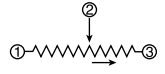


For quantities greater than listed, call for quote.

Price Each		
1	25	50
5.25	5.10	5.00

1/4" SQUARE MULTI-TURN CERMET TRIMMER

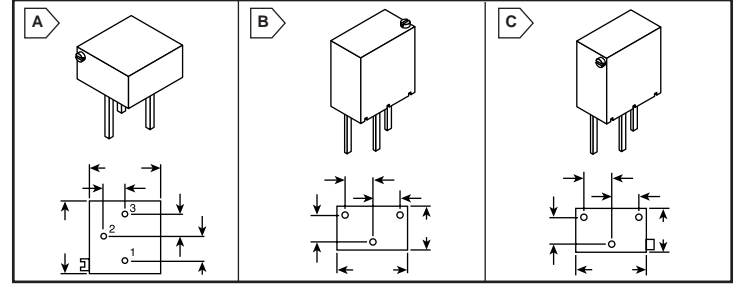
Manufactured to meet the highest reliability standards demanded by today's equipment manufacturers. Environmental and performance testing to MIL-STD-202 and MIL-R-22097. Available in 3 pin styles for top or side adjust. Excellent setting stability characteristics and case sealing to 85°C for 1 minute.



Specifications:

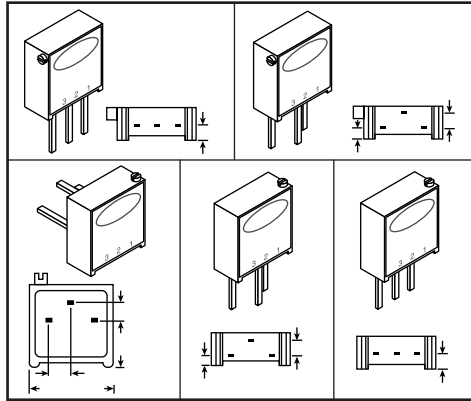
- Effective travel: 12 turns nominal
- Power rating: 0.25 watts @ 85°C
- Contact resistance variation: 3% or 3 Ω , whichever is greater
- Derated linearly to 0 at 125°C
- Resistance tolerance: $\pm 10\%$
- Maximum voltage not to exceed 300V
- Operating temperature: -55°C to +125°C
- Contact resistance variation: 3% or 3 Ω , whichever is greater
- Resistance tolerance: $\pm 10\%$
- Temperature coefficient of resistance: $\pm 100\text{ppm}/^\circ\text{C}$

DIMENSIONS (IN.)



MOUSER STOCK NO.	Fig.	Values (Ω)	Price Each			
			1	25	50	100
594-74P-Value	A	1K, 5K, 10K, 50K, 100K	2.63	2.42	2.25	Call For Quote
594-74W-Value	B	1K, 5K, 10K, 50K, 100K	2.63	2.42	2.25	For
594-74X-Value	C	1K, 5K, 10K, 50K, 100K	2.63	2.42	2.25	Quote

3/8" MULTI-TURN CERMET



Specifications:

- Tolerance: $\pm 10\%$
- Coefficient of resistance: $\pm 100\text{ppm}/^\circ\text{C}$
- Rating: 0.5 W @ 70°C, derated linearly to 0 W @ 125°C
- Contact resistance variation: 2% or 2 Ω , whichever is greater
- 25 turns nominal

Features:

- Sealed for cleaning in common solvents
- Easy adjustment and stability

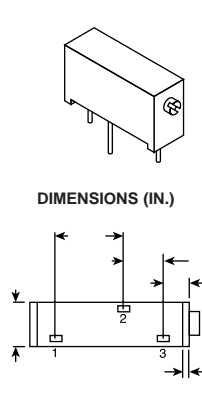
Price Each			
1	25	50	100
2.00	1.95	1.88	Call

Cross-Reference Chart

Spectrol	Bourns	BI Technologies	Murata
64X	3296X	67X	3102X
64Z	3296Z	67Z	3102Z
64P	3296P	67P	3102P
64W	3296W	67W	3102W
64Y	3296Y	67Y	3102Y

Value (Ω)	64X Series	64Z Series	64P Series	64W Series	64Y Series
10	---	---	---	---	594-64Y100
20	---	---	---	594-64W200	594-64Y200
50	---	---	594-64P500	594-64W500	594-64Y500
100	594-64X101	594-64Z101	594-64P101	594-64W101	594-64Y101
200	594-64X201	594-64Z201	594-64P201	594-64W201	594-64Y201
500	594-64X501	594-64Z501	594-64P501	594-64W501	594-64Y501
1K	594-64X102	594-64Z102	594-64P102	594-64W102	594-64Y102
2K	---	---	---	594-64W202	---
5K	594-64X502	594-64Z502	594-64P502	594-64W502	594-64Y502
10K	594-64X103	594-64Z103	594-64P103	594-64W103	594-64Y103
20K	594-64X203	594-64Z203	594-64P203	594-64W203	594-64Y203
25K	594-64X253	---	---	594-64W253	594-64Y253
50K	594-64X503	594-64Z503	594-64P503	594-64W503	594-64Y503
100K	594-64X104	594-64Z104	594-64P104	594-64W104	594-64Y104
200K	594-64X204	---	---	594-64W204	594-64Y204
250K	594-64X254	---	---	594-64W254	594-64Y254
500K	594-64X504	---	---	594-64W504	594-64Y504
1M	594-64X105	---	---	594-64W105	594-64Y105
2M	594-64X205	---	---	594-64W205	594-64Y205

3/4" RECTANGULAR 20 TURN CERMET



Specifications:

- Tolerance: $\pm 10\%$
- Coefficient of resistance: $\pm 100\text{ppm}/^\circ\text{C}$
- Rating: 0.75 W @ 25°C, derated linearly to 0 W @ 125°C
- Maximum voltage: $\leq 400\text{V}$
- Temperature range: -55°C to +125°C
- Contact resistance variation: 3% or 3 Ω , whichever is greater

Features:

- Unique "T" slider block design
- Easy adjustment and stability

Price Each			
1	25	50	100
1.38	1.28	1.20	Call

Cross-Reference Chart

Spectrol	Bourns	BI Technologies	Allen Bradley
43P	3006P	89P	RT5L

Value (Ω)	MOUSER STOCK NO.
10	594-43P100
20	594-43P200
50	594-43P500
100	594-43P101
200	594-43P201
500	594-43P501
1K	594-43P102
2K	594-43P202
2.5K	594-43P252
5K	594-43P502
10K	594-43P103
20K	594-43P203
25K	594-43P253
50K	594-43P503
100K	594-43P104
200K	594-43P204
250K	594-43P254
500K	594-43P504
1M	594-43P105
2M	594-43P205

SNAP-ON PANEL MOUNT ADAPTORS

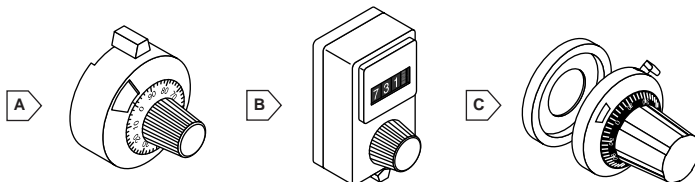
Use with Spectrol 43P Series.

These adaptors allow panel mounting of 3/4" rectangular trimmers. Designed to convert standard trimmer models into panel mounts in a quick and economical manner, accomplished by snap-in, providing for quick installation. Shaft dia. = .118"



MOUSER STOCK NO.	Fig.	Description	Price Each			
			1	25	50	100
594-610	A	without shaft	1.78	1.63	1.51	Call For Quote
594-611	B	with flush shaft	2.64	2.42	2.23	
594-612	B	with .57" shaft	2.64	2.42	2.23	
594-613	B	with .875" shaft	2.64	2.42	2.23	

PRECISION DIALS Metal Shaft



Features:

- Large, easy to read numbers
- Positive brake action
- Shaft bore is .250"

MOUSER STOCK NO.	Fig.	No. of Turns	Minor Scale	Finish Chrome	Size (In.)		Price Each			
					W	H	1	25	50	100
594-16111	A	15	1/50	Clear Anodized	.875	.875	9.68	8.64	8.07	Call For Quote
594-11111	A	11	1/50	Satin	1.0	.826	18.25	16.18	15.09	
594-21111	A	15	1/100	Satin	1.81	1.0	19.00	16.89	15.76	
594-15111	B	10	1/100	Satin	1.0	1.75	17.04	15.21	14.20	
594-17111	C	15	1/50	Clear Anodized	.875	.875	5.70	5.10	4.95	



Potentiometers and Encoder

148-149 SERIES 1/2" SQUARE SINGLE-TURN DIMENSIONS (IN.)

General Specifications:

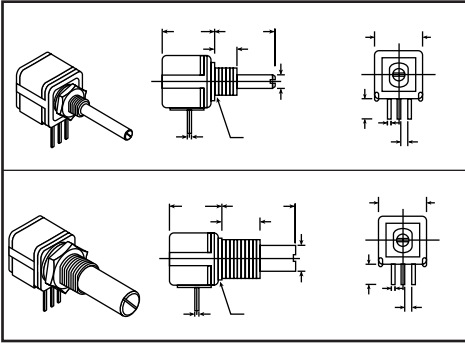
- Temperature: -20°C to +125°C
- PCB Pins
- Electrical travel: 265° ±5°

Conductive Plastic:

- Tolerance: ±20%
- Rotational Life: 100,000
- Power rating: 0.5W at 70°C derating to 0W at 125°C

Cermet:

- Tolerance: ±10%
- Rotational Life: 50,000
- Power rating 1W at 85°C derating to 0W at 150°C



Price Each		
1	10	25
5.26	5.04	4.73

For quantities greater than listed, call for quote.

Value (Ω)	MOUSER STOCK NO.			
	Conductive Plastic		Cermet	
	1/8" Shaft	1/4" Shaft	1/8" Shaft	1/4" Shaft
1K	594-148-1102	594-148-7102	594-149-1102	594-149-7102
5K	594-148-1502	594-148-7502	594-149-1502	594-149-7502
10K	594-148-1103	594-148-7103	594-149-1103	594-149-7103
50K	594-148-1503	594-148-7503	594-149-1503	594-149-7503
100K	594-148-1104	594-148-7104	594-149-1104	594-149-7104

248-249 SERIES 1/2" SQUARE SINGLE-TURN

General Specifications:

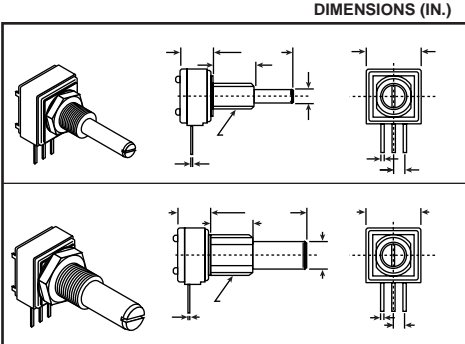
- Temperature: -55°C to +125°C
- Rotational life: 50,000
- PCB Pins
- Electrical travel: 265° ±5°

Conductive Plastic:

- Tolerance: ±20%
- Power rating: 0.5W at 70°C derating to 0W at 125°C

Cermet:

- Tolerance: ±10%
- Power rating 1W at 70°C derating to 0W at 125°C



Price Each		
1	10	25
4.44	4.17	3.92

For quantities greater than listed, call for quote.

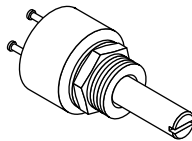
Value (Ω)	MOUSER STOCK NO.			
	Conductive Plastic		Cermet	
	1/8" Shaft	1/4" Shaft	1/8" Shaft	1/4" Shaft
1K	594-248-1102	594-248-7102	594-249-1102	594-249-7102
5K	594-248-1502	594-248-7502	594-249-1502	594-249-7502
10K	594-248-1103	594-248-7103	594-249-1103	594-249-7103
50K	594-248-1503	594-248-7503	594-249-1503	594-249-7503
100K	594-248-1104	594-248-7104	594-249-1104	594-249-7104

1/2" SINGLE TURN PRECISION WIREWOUND

Specifications:

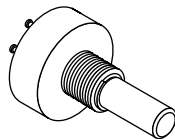
- Body (LxD): .305" x .500"
- Shaft (LxD): .70" x 0.1248"
- Power rating: 2.0 watts @ 40°C derated to zero watts @ 125°C
- Linearity: ±1.0%
- Resistance tolerance: ±5%
- Temperature coefficient: ±20ppm/°C
- Temperature range: -55°C to +125°C
- Electrical rotation: 320° ±5°

MOUSER STOCK NO.	Values (Ω)	Price Each			
		1	5	10	25
594-14000102	1K	28.85	27.05	26.15	Call For Quote
594-14000202	2K	28.85	27.05	26.15	
594-14000502	5K	28.85	27.05	26.15	
594-14000103	10K	28.85	27.05	26.15	
594-14000203	20K	28.85	27.05	26.15	



7/8" SINGLE TURN CONDUCTIVE PLASTIC

Values (Ω)	MOUSER STOCK NO.
1K	594-15711102
2K	594-15711202
5K	594-15711502
10K	594-15711103
20K	594-15711203
50K	594-15711503



- ### Specifications:
- 1/4" diameter shaft
 - Power rating: 1.0W @ 40°C derated to 0W @ 125°C
 - Linearity: ±2%
 - Resistance tolerance ±20°C
 - Temperature coefficient: ±60ppm/°C
 - Rotational life: 2,000,000 turns
 - Electrical rotation: 340° ±4°
 - Mechanical rotation: continuous
 - No mechanical stops

Price Each			
1	5	10	25
19.97	12.80	11.34	Call

THREE TURN WIREWOUND

Electrical Specifications:

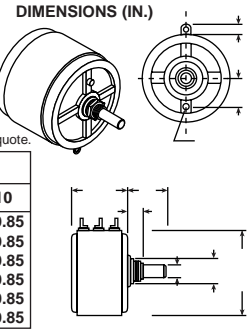
- Tolerance: ±3%, 200Ω ≤ Rt ≤ 150KΩ
- Power rating: 3W at 40°C derating to 0W at 125°C
- Electrical travel: 1,080° ±4°-0°

Physical Specifications:

- Temperature: -55°C to +125°C
- Rotational Life: 500,000 shaft revolutions
- Ganging: 2 sections (max)
- 3 turn 3 watts

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Value (Ω)	Res. %	Temp. Coef. PPM/°C	Price Each		
				1	5	10
594-830-1102	1K	0.050	110	42.39	40.86	39.85
594-830-1202	2K	0.047	20	42.39	40.86	39.85
594-830-1502	5K	0.035	20	42.39	40.86	39.85
594-830-1103	10K	0.029	20	42.39	40.86	39.85
594-830-1203	20K	0.024	20	42.39	40.86	39.85
594-830-1503	50K	0.017	20	42.39	40.86	39.85



TEN TURN WIREWOUND

Physical Specifications:

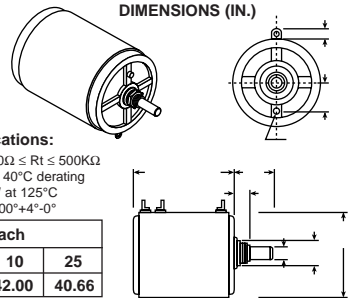
- Temperature: -55°C to +125°C
- Rotational Life: 500,000 shaft revolutions
- Ganging: 2 sections (max)

Value (Ω)	MOUSER STOCK NO.
500	594-860-1501
1K	594-860-1102
2K	594-860-1202
5K	594-860-1502
10K	594-860-1103
20K	594-860-1203
50K	594-860-1503

Electrical Specifications:

- Tolerance: ±3%, 200Ω ≤ Rt ≤ 500KΩ
- Power rating: 8W at 40°C derating to 0W at 125°C
- Electrical travel: 3,600° ±4°-0°

Price Each			
1	5	10	25
44.68	43.06	42.00	40.66

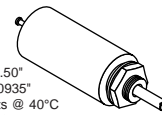


1/2" TEN TURN PRECISION WIREWOUND

For quantities greater than listed, call for quote.

Specifications:

- Body (LxD): 1.00" x 0.50"
- Shaft (LxD): .687" x .0935"
- Power rating: 2.0 watts @ 40°C derated to zero watts @ 125°C
- Linearity: ±0.3%
- Resistance tolerance: ±5%
- Temperature coefficient: ±20ppm/°C
- Temperature range: -55°C to +125°C
- Electrical rotation: 3600° ±15° - 0°



MOUSER STOCK NO.	Values (Ω)	Price Each		
		1	5	10
594-16211102	1K	120.99	86.42	67.22
594-16211202	2K	120.99	86.42	67.22
594-16211502	5K	120.99	86.42	67.22
594-16211103	10K	120.99	86.42	67.22
594-16211203	20K	120.99	86.42	67.22
594-16211503	50K	137.40	98.14	76.33
594-16211104	100K	137.40	98.14	76.33

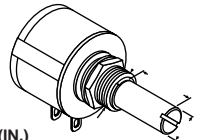
7/8" TEN TURN PRECISION WIREWOUND

Specifications:

- Power rating: 3.09 watts @ 40°C derated linearly to zero watts at 125°C
- Linearity: ±0.25%
- Tolerance: ±5%
- Temperature coefficient: ±20ppm/°C
- Temperature range: -55°C to +125°C

Features:

- High power rating
- Rugged integrated construction
- Superior stop strength



Cross Reference Chart

Spectrol	Bourns	BI Technologies
534	3540	7286

Cross Reference Chart

Spectrol	Bourns	BI Technologies
536	3590	7276

Metal Shaft

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Values (Ω)	Price Each		
		1	5	10
594-53411101	100	9.05	8.73	8.51
594-53411201	200	9.05	8.73	8.51
594-53411501	500	9.05	8.73	8.51
594-53411102	1K	9.05	8.73	8.51
594-53411202	2K	9.05	8.73	8.51
594-53411502	5K	9.05	8.73	8.51
594-53411103	10K	9.05	8.73	8.51
594-53411203	20K	9.05	8.73	8.51
594-53411104	100K	12.48	12.03	11.73

Plastic Shaft

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Values (Ω)	Price Each		
		1	5	10
594-53611101	100	9.02	8.70	8.48
594-53611201	200	9.02	8.70	8.48
594-53611501	500	9.02	8.70	8.48
594-53611102	1K	9.02	8.70	8.48
594-53611202	2K	9.02	8.70	8.48
594-53611502	5K	9.02	8.70	8.48
594-53611103	10K	9.02	8.70	8.48
594-53611203	20K	9.02	8.70	8.48
594-53611104	100K	11.38	10.97	10.70

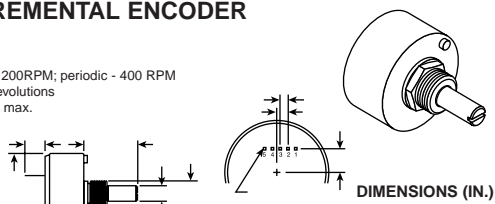
MODEL DE2 INCREMENTAL ENCODER

Specifications:

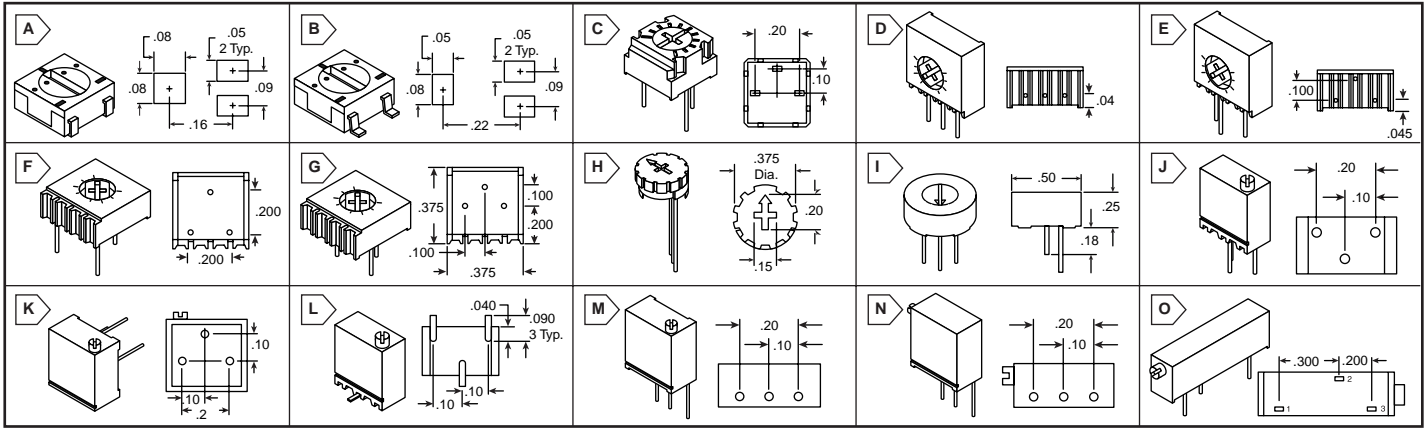
- 32 Pulses/Rev
- Rotational speed: continuous - 200RPM; periodic - 400 RPM
- Rotational life: 5 million shaft revolutions
- Supply voltage: 3.0V min, 6.0V max.
- Supply current: 4.0mA max.
- Output high voltage: 3.8V min.
- Output low voltage: 0.4V max.
- Output current: 20mA

Features:

- Patented Silver-in-Glass™ switching element technology
- Two channel quadrature output
- Internal active de-bounce circuitry provides clean, high level outputs with CMOS logic



MOUSER STOCK NO.	Price Each		
	1	10	25
594-DE2-0132	28.25	27.40	24.90



SINGLE TURN CERMET TRIMMER POTENTIOMETERS

◆ Surface Mount Device * Not Sealed

4mm Square Model 23 • Contact resistance variation, (max.) 2% or 3Ω, whichever is greater

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Tables of Values	Tolerance	Operating Temperature Range	Rotational Life	Electrical Travel	Power Rating @ 70°C derating to 0W @ 125°C	Temperature Coefficient (max.)	Price Each			
									1	100	200	500
◆ 569-23AR-Value	A	{ 100, 200, 500, 1K, 2K, 5K, 10K, 20K, 50K, 100K, 200K, 500K, 1M, 2M	±20%	-55°C to +125°C	100 cycles	200° nom.	0.25 watts	±100ppm/°C	1.53	1.24	1.11	1.05
	B		±20%	-55°C to +125°C	100 cycles	200° nom.	0.25 watts	±100ppm/°C	1.53	1.24	1.11	1.05

1/4" Square Model 25 • Contact resistance variation, (max.) 1% or 1Ω, whichever is greater

For quantities greater than listed, call for quote.

569-25PR-Value	C	{ 50, 100, 200, 500, 1K, 2K, 5K, 10K, 20K, 50K, 100K, 200K, 500K, 1M	±20%	-55°C to +125°C	100 cycles	210° nom.	0.5 watts	±100ppm/°C	.83	.64	.57	.53
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3/8" Square Model 72 • Contact resistance variation, max.: 1% or 1Ω, whichever is greater

569-72XL-Value	D	{ 50, 100, 200, 500, 1K, 2K, 5K, 10K, 20K, 25K, 50K, 100K, 200K, 250K, 500K, 1M, 2M	±10%	-55°C to +125°C	200 cycles	244° nom.	0.5 watts	±100ppm/°C	.99	.80	.72	Call For Quote
569-72X-Value	E		±10%	-55°C to +125°C	200 cycles	244° nom.	0.5 watts	±100ppm/°C	.99	.80	.72	
569-72PM-Value	F		±10%	-55°C to +125°C	200 cycles	244° nom.	0.5 watts	±100ppm/°C	.99	.80	.72	
569-72P-Value	G		±10%	-55°C to +125°C	200 cycles	244° nom.	0.5 watts	±100ppm/°C	.99	.80	.72	

3/8" Diameter Model 91 • Contact resistance variation, (max.) 2% or 3Ω, whichever is greater

For quantities greater than listed, call for quote.

* 569-91AR-Value	H	{ 50, 100, 200, 500, 1K, 2K, 5K, 10K, 20K, 25K, 50K, 100K, 200K, 250K, 500K, 1M	±20%	-55°C to +125°C	200 cycles	174° nom.	0.5 watts	±100ppm/°C	.72	.58	.52	.49
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1/2" Diameter Model 93 • Contact resistance variation, (max.) 3% or 3Ω, whichever is greater

For quantities greater than listed, call for quote.

569-93PR-Value	I	{ 500, 1K, 2K, 5K, 10K, 20K, 50K, 100K, 200K, 500K, 1M, 2M	±10%	-55°C to +125°C	200 cycles	270° nom.	1.0 watts	±100ppm/°C	3.15	2.53	2.28	2.16
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MULTI-TURN CERMET TRIMMER POTENTIOMETERS

1/4" Square Model 64 • Contact resistance variation, (max.) 3% or 3Ω, whichever is greater

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Tables of Values	Tolerance	Operating Temperature Range	Rotational Life	Electrical Travel	Power Rating @ 85°C derating to 0W @ 150°C	Temperature Coefficient (max.)	Price Each			
									1	100	200	500
569-64WR-Value	J	{ 100, 200, 500, 1K, 2K, 5K, 10K, 20K, 50K, 100K, 200K, 500K, 1M	±10%	-65°C to +150°C	200 cycles	15 turns	0.25 watts	±100ppm/°C	2.82	2.26	2.03	1.92
569-64PR-Value	K		±10%	-65°C to +150°C	200 cycles	15 turns	0.25 watts	±100ppm/°C	2.82	2.26	2.03	1.92

1/4" Square Model 84 • Contact resistance variation, (max.) 3% or 3Ω, whichever is greater

For quantities greater than listed, call for quote.

◆ 569-84WR-Value	L	{ 1K, 2K, 5K, 10K, 20K, 50K, 100K	±10%	-65°C to +150°C	100 cycles	15 turns	0.25 watts	±100ppm/°C	3.00	2.51	2.29	2.18
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3/8" Square Model 68 • Contact resistance variation, (max.) 3% or 3Ω, whichever is greater

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Tables of Values	Tolerance	Operating Temperature Range	Rotational Life	Electrical Travel	Power Rating @ 70°C derating to 0W @ 125°C	Temperature Coefficient (max.)	Price Each			
									1	100	200	500
569-68WR-Value	M	{ 500, 1K, 2K, 5K, 10K, 20K, 50K, 100K, 200K, 500K	±20%	-65°C to +150°C	200 cycles	20 turns	0.5 watts	±100ppm/°C	1.96	1.59	1.43	1.34
569-68XR-Value	N	{ 500, 1K, 2K, 5K, 10K, 20K, 50K, 100K, 200K, 500K	±20%	-65°C to +150°C	200 cycles	20 turns	0.5 watts	±100ppm/°C	1.96	1.59	1.43	1.34

3/4" Rectangular Model 89 • Contact resistance variation, max. 1% or 1Ω, whichever is greater

569-89P-Value	O	{ 100, 200, 500, 1K, 2K, 5K, 10K, 20K, 25K, 50K, 100K, 200K, 250K, 500K, 1M, 2M	±10%	-55°C to +125°C	200 cycles	20 turns	0.75 watts	±100ppm/°C	1.22	.99	.89	Call
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PRECISION POTENTIOMETERS

7/8" Continuous Rotation, Single Turn Conductive Plastic

Available with end stop, subject to minimum order requirements, call your Mouser service representative at (800) 346-6873.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Tables of Values	Tolerance	Operating Temp. (max.)	Input Voltage (max.)	Power Rating	Price Each		
							1	5	10
569-6187-Value	A	2K, 5K, 10K, 20K, 1K	±10%	125°C	400VDC	1 watt	15.75	12.50	11.50
				125°C	400VDC	1 watt	18.00	14.50	13.25

7/8" Ten-Turn Wirewound

For quantities greater than listed, call for quote.

569-7286-Value	B	1K, 2K, 5K, 10K, 20K, 100, 200, 500, 50K, 100K	±5%	125°C	1000VDC	2 watts	11.50	9.00	8.40
			±5%	125°C	1000VDC	2 watts	12.50	10.00	9.15

7/8" Ten-Turn Hybrid

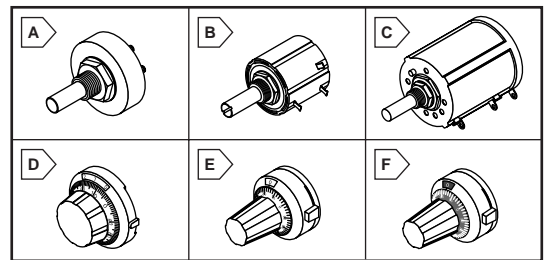
For quantities greater than listed, call for quote.

569-8146-Value	B	1K, 2K, 5K, 10K, 20K, 50K, 100K	±10%	125°C	1000VDC	2 watts	20.00	16.00	14.75
			±10%	125°C	1000VDC	2 watts	34.75	27.60	25.30

13/16" Ten-Turn Wirewound

For quantities greater than listed, call for quote.

569-A-Value	C	500, 1K, 2K, 5K, 10K, 20K, 50K, 100K, 200K	±5%	85°C	1000VDC	5 watts	46.20	36.75	33.60
			±5%	85°C	1000VDC	5 watts	49.72	39.55	36.16



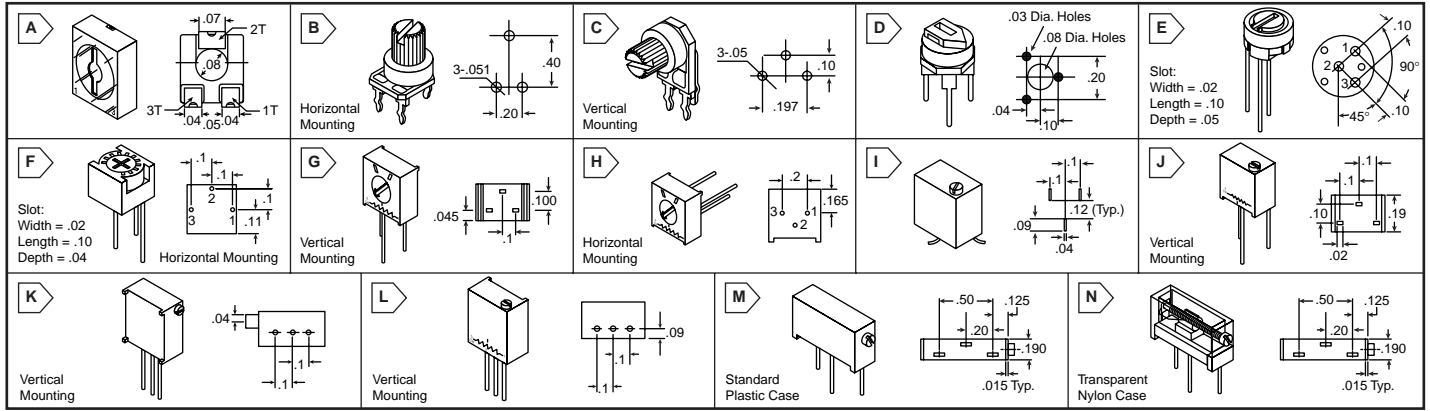
DUODIAL® PRECISION MULTI-TURN DIALS

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Color No.'s	Finish	Turns	Price Each		
					1	5	10
569-RB-15	D	Black	Satin chrome	15	26.50	22.00	19.75
569-2606-20	E	Black	Satin chrome	20	18.00	15.25	13.75
569-2646-20	F	White	Black matte	20	18.00	15.25	13.75

MEC Potentiometers

DIMENSIONS (IN.)



Single Turn Potentiometers Cross Reference

MOUSER STOCK NO.	MEC	Bourns	Murata	BI Technologies	A. Bradley	Spectrol
323-5000-Value	406P	3306P	---	---	---	---
323-4200-Value	471	3329H	---	62P	A2B	75H
323-4255P-Value	4255P	3323P	---	25P	A10	---
323-4295X-Value	4295X	3386X	3104X	72X	E4A	89P
323-4295P-Value	4295P	3386P	3104P	72P	E2A	63P

Multi-Turn Potentiometers Cross Reference

MOUSER STOCK NO.	MEC	Bourns	Murata	BI Technologies	A. Bradley	Spectrol
323-4270W-Value	4270W	3266W	---	64W	98W	74W
323-4290X-Value	4290X	3296X	3102X	67X	64X	64X
323-4290W-Value	4290W	3296W	3102Z	67W	64W	64W
323-433-Value	433	3006P	---	89P	94P	43P
323-422-Value	422	3006P-7	---	90P	95P	43P

SINGLE TURN CERMET TRIMMER POTENTIOMETERS

4mm SMD To order reels add "REEL" to Mouser stock no.

Incorporates the latest technological development and has been rigorously tested to the highest standards. Tape sealed for flow soldering or solvent washing.

• Linear taper

◆ Surface Mount Device

For quantities greater than listed, call for quote.



MOUSER STOCK NO.	Fig.	Tables of Values	Tolerance	Operating Temperature Range	Operating Voltage	Mechanical Rotation	Power Rating @ 70°C	Price Each			Price Per Reel of 750
								1	10	100	
◆ 323-3204-Value	A	500, 1K, 2K, 5K, 10K, 20K, 50K, 100K, 200K, 500K, 1M	±25%	-20°C to +85°C	20VDC	260° ±20°	.1 watts	.98	.76	.69	425.00

9mm Offering the stability of a cermet resistive element

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Tables of Values	Tolerance	Operating Temperature Range	Operating Voltage	Mechanical Rotation	Power Rating @ 70°C	Temperature Coefficient	Price Each			
									1	10	100	500
323-409H-Value	B	500, 1K, 5K, 10K, 20K, 50K, 100K, 1M	±20%	-25°C to +100°C	200VDC	-260° nominal	.3 watts	±250ppm/°C	.61	.41	.37	.34
323-409V-Value	C	500, 1K, 5K, 10K, 20K, 50K, 100K, 1M	±20%	-25°C to +100°C	200VDC	-260° nominal	.3 watts	±250ppm/°C	.61	.41	.37	.34

1/4" Round

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Tables of Values	Tolerance	Operating Temperature Range	Operating Voltage	Mechanical Rotation	Power Rating	Temperature Coefficient	Price Each			
									1	10	100	500
323-5000-Value	D	500, 1K, 2K, 5K, 10K, 22K, 50K, 100K, 220K, 500K, 1M	±20%	-25°C to +100°C	100VDC	200° nominal	.3 watts	±200ppm/°C	.87	.67	.61	.55
323-4200-Value	E	500, 1K, 5K, 10K, 20K, 50K, 100K, 200K, 500K	±20%	-55°C to +125°C	200VDC	-270° nominal	.5 watts	±100ppm/°C	1.39	1.16	1.05	.95

1/4" Square

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Tables of Values	Tolerance	Operating Temperature Range	Operating Voltage	Mechanical Rotation	Power Rating	Temperature Coefficient	Price Each			
									1	10	100	1.13
323-4255P-Value	F	500, 5K, 10K, 20K, 50K, 100K, 500K, 1M	±20%	-55°C to +120°C	200VDC	200° nominal	.5 watts	±100ppm/°C	1.63	1.36	1.24	1.13

3/8" Square

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Tables of Values	Tolerance	Operating Temperature Range	Operating Voltage	Mechanical Rotation	Power Rating	Temperature Coefficient	Price Each			
									1	10	100	1.70
323-4295X-Value	G	500, 1K, 5K, 10K, 20K, 50K, 100K, 200K, 500K, 1M	±10%	-55°C to +125°C	200VDC	300° nominal	.5 watts	±100ppm/°C	1.11	.85	.77	.70
323-4295P-Value	H	500, 1K, 5K, 10K, 20K, 50K, 100K, 200K, 500K, 1M	±10%	-55°C to +125°C	200VDC	300° nominal	.5 watts	±100ppm/°C	1.11	.85	.77	.70

MULTI-TURN CERMET TRIMMER POTENTIOMETERS

7mm SMD • Power rating: .25W @ 5°C

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Tables of Values	Tolerance	Operating Temperature Range	Operating Voltage	Mechanical Rotation	Temperature Coefficient	Price Each			
								1	10	100	500
◆ 323-3270-Value	I	1K, 5K, 10K, 20K, 50K, 100K	±10%	---	---	12 turns nom.	---	4.19	3.49	3.17	2.88

1/4" Square • Power rating: .25W @ 85°C

MOUSER STOCK NO.	Fig.	Tables of Values	Tolerance	Operating Temperature Range	Operating Voltage	Mechanical Rotation	Temperature Coefficient	Price Each			
								1	10	100	1.95
323-4270W-Value	J	1K, 5K, 10K, 20K, 50K, 100K	±10%	---	300VDC	13 turns nom.	±100ppm/°C	2.83	2.62	2.38	1.95

3/8" Square • Power rating: .5W @ 70°C

MOUSER STOCK NO.	Fig.	Tables of Values	Tolerance	Operating Temperature Range	Operating Voltage	Mechanical Rotation	Temperature Coefficient	Price Each			
								1	10	100	1.35
323-4290X-Value	K	1K, 5K, 10K, 20K, 50K, 100K, 500K	±10%	-55°C to +125°C	300VDC	25 turns nom.	±100ppm/°C	1.97	1.64	1.49	1.35
323-4290W-Value	L	1K, 2K, 5K, 10K, 20K, 50K, 100K	±10%	-55°C to +125°C	300VDC	25 turns nom.	±100ppm/°C	1.97	1.64	1.49	1.35

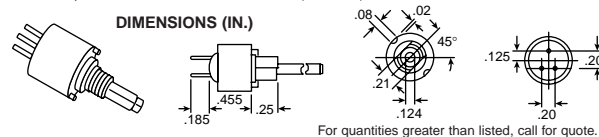
3/4" Rectangular • Power rating: .75W @ 40°C

MOUSER STOCK NO.	Fig.	Tables of Values	Tolerance	Operating Temperature Range	Operating Voltage	Mechanical Rotation	Temperature Coefficient	Price Each			
								1	10	100	.90
323-433-Value	M	500, 1K, 5K, 10K, 20K, 50K, 100K, 200K, 500K, 1M	±10%	-55°C to +125°C	300VDC	15 turns nom.	±100ppm/°C	1.31	1.09	.99	.90
323-422-Value	N	500, 1K, 5K, 10K, 20K, 50K, 100K, 200K, 500K, 1M	±10%	-55°C to +105°C	300VDC	15 turns nom.	±100ppm/°C	1.39	1.16	1.05	.95

CERMET POTENTIOMETERS

Specifications:

- Isolation voltage: 450VDC
- Linear taper
- Operating temp.: -55°C to +125°C
- Load life: 3% change of total resistance (1000 hrs.)
- Locknut included
- Tolerance: ±20%
- Slotted shaft



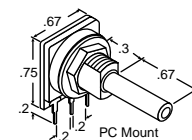
MOUSER STOCK NO.	Value (Ω)	Shaft Length (In.)	Body Dia. (In.)	Power Rating @ 70°C	Price Each		
					1	10	25
323-6000-Value	1K, 10K, 100K	.875	.5	.5W	10.85	8.99	8.19

MINIATURE NON-CONDUCTIVE BODY & SHAFT

For quantities greater than listed, call for quote.

Price Each			
1	10	100	500
2.37	1.97	1.79	1.71

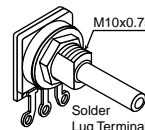
DIMENSIONS (IN.)



Specifications:

- 1/4 watt
- Linear taper
- Resistance tolerance: ±20%
- Breakdown voltage: 450VDC
- Insulation resistance: 1GΩ, min.
- Mechanical rotation: 270°
- Max. working voltage: 630VDC
- Shaft diameter: 6mm

Value (Ω)	MOUSER STOCK NO.	
	PC Mount	Solder Lugs
1K	31NN301	31NE301
50K	31NN405	31NE405
1 MEG	-----	31NE601



REPLACEMENT NUT

MOUSER STOCK NO.	Price Each		
	1	100	1000
481-0010	.16	.042	.039

Potentiometers

PIHER 6mm CARBON TRIMMER

Specifications:

- Power rating: 0.1W
- Linear taper
- Temperature range: -25°C to +70°C
- Mechanical rotation: 235°±10°
- Electrical rotation: 200°±20°
- Tolerance: ±20%

Features:

- Enclosed for protection against contaminants
- Self-extinguishing material to meet UL94V-0

Value(Ω):

500, 1K, 2K, 2.5K, 5K, 10K, 20K, 25K, 47K, 50K, 100K, 500K, 1M

Also available in vertical mount, horizontal adjust

MOUSER STOCK NO.	Fig.	Mount	Adjust	Price Each				
				1	100	1000	5000	10000
531-PT6KV-Value	A	Horizontal	Vertical	.27	.22	.21	.19	Call

PIHER 10mm CERMET TRIMMER

Specifications:

- Power rating: 0.33W
- Temperature range: -40°C to +90°C

- Mechanical rotation: 235°±5°
- Electrical rotation: 220°±20°
- Linear taper
- Tolerance: ±20%

Value(Ω):

500, 1K, 2K, 2.5K, 5K, 10K, 20K, 25K, 50K, 100K, 200K, 250K, 500K

MOUSER STOCK NO.	Fig.	Mount	Adjust	Price Each				
				1	100	1000	5000	10000
531-PTC10V-Value	B	Horizontal	Vertical	.45	.43	.41	.37	Call
531-PTC10H-Value	C	Vertical	Horizontal	.45	.43	.41	.37	

PIHER 10mm CARBON TRIMMER

- Enclosed for protection against contaminants

Specifications:

- Power rating: 0.15W
- Linear taper
- Temperature range: -25°C to +70°C

- Mechanical rotation: 235°±10°
- Electrical rotation: 220°±20°
- Tolerance: 100Ω-1mΩ ±20%
- 2mΩ-5mΩ ±30%

Value(Ω):

100, 200, 250, 500, 1K, 2K, 2.5K, 5K, 10K, 20K, 22K, 25K, 47K, 50K, 100K, 200K, 220K, 250K, 470K, 500K, 1M, 2M, 2.5M, 5M

MOUSER STOCK NO.	Fig.	Mount	Adjust	Price Each				
				1	100	1000	5000	10000
531-PT10V-Value	D	Horizontal	Vertical	.36	.34	.30	.28	Call
531-PT10H-Value	E	Vertical	Horizontal	.36	.34	.30	.28	

PIHER 15mm CARBON TRIMMER

Specifications:

- Power rating: 0.25W
- Temperature range: -25°C to +70°C
- Mechanical rotation: 265° to ±5°

- Mechanical rotation: 265° to ±5°
- Electrical rotation: 250°±20°
- Linear taper
- Tolerance: 100Ω-1mΩ ±20%
- 2mΩ-5mΩ ±30%

Value(Ω):

100, 200, 250, 500, 1K, 2K, 2.5K, 5K, 10K, 20K, 25K, 50K, 100K, 200K, 250K, 500K, 1M, 2M, 2.5M, 5M

MOUSER STOCK NO.	Fig.	Mount	Adjust	Price Each				
				1	100	1000	5000	10000
531-PT15D-Value	F	Horizontal	Vertical	.39	.35	.32	.28	Call
531-PT15B-Value	G	Vertical	Horizontal	.39	.35	.32	.28	

PIHER POTENTIOMETERS

PC16 Series

A completely insulated potentiometer. Made of autoextinguishable plastic UL94V-0. The models below are available from stock. This modular design, which allows up to four potentiometers and a switch on a common shaft, is available in custom configurations by special order. Call any Mouser service representative for details.

Specifications:

- Tolerance: ±20%
- Nominal power (40°C): 0.25W
- Nominal voltage: 500V
- Temperature range: -25°C to +70°C

- Linear taper
- Mechanical angle of rotation: 300°±5°
- Electrical angle of rotation: 280°±20°
- Switch contact rating: 1A @ 250V
- Solder lug terminals

MOUSER STOCK NO.	Fig.	Value(Ω)	Price Each				
			1	25	50	100	200
531-PC16SC-Value	H	1K, 10K, 100K, 500K	2.35	1.95	1.77	1.59	Call
531-PC16SC1A-Value	I	1K, 10K, 100K, 500K	2.99	2.49	2.27	2.06	For Quote
531-PC16DC-Value	J	1K, 10K, 100K, 500K	2.86	2.38	2.17	1.97	Quote

PC MOUNT POTENTIOMETERS

Electrical Specifications:

- Taper: linear
- Rated wattage: 0.05W
- Insulation resistance: >100MΩ @ 250VDC
- Breakdown voltage: 300VAC/1min.

Mechanical Specifications:

- Rotation angle: 300°±5°
- Rotation torque: 20 to 250g/cm
- Tolerance: ±20%
- Shaft dia.: 6mm

MOUSER STOCK NO.	Fig.	Value(Ω)	Price Each				
			1	10	100	500	1000
311-1901-Value	K	1K, 5K, 10K, 50K, 100K	3.05	2.54	2.31	2.10	Call

MINIATURE SNAP-IN LINEAR TAPER

Specifications:

- Rated voltage: 50VAC
- Rated wattage: 0.05W

- Tolerance: <1M: ±20%, ≥1M: ±30%
- Rotation angle: 280°±5°
- Rotational life: 10,000 cycles

Vertical Mount

MOUSER STOCK NO.	Fig.	Value(Ω)	1	10	100	500	1000
317-2090-Value	L	1K, 2K, 5K, 10K, 50K, 100K, 500K, 1M	.98	.82	.75	.68	Call

Horizontal Mount

MOUSER STOCK NO.	Fig.	Value(Ω)	1	10	100	500	1000
317-2091-Value	M	1K, 5K, 10K, 50K, 100K, 500K, 1M	.98	.82	.75	.68	Call

16mm PC MOUNT LINEAR TAPER W/SWITCH

Specifications:

- Rated voltage: 200V
- Rated wattage: 0.2W
- Insulation resistance: >100MΩ
- Breakdown voltage: 1000VAC, 1 min.
- Switch contact resistance: >100mΩ
- Switch rating: 250VAC, 10A

- Tolerance: <1M: ±20%, ≥1M: ±30%
- Rotational life: 100,000 cycles
- Rotation angle: 270°±5°
- Switch life: 10,000 operations
- Switch circuit: SPST
- "D" shaft (nylon)

MOUSER STOCK NO.	Fig.	Value(Ω)	1	10	100	500	1000
310-1600-Value	N	5K, 10K, 50K, 500K	2.40	2.00	1.82	1.65	Call

A DIMENSIONS (IN)
 .248, .118, .197, .157, .13, .287, .2

B DIMENSIONS (IN)
 .406, .177, .393, .236, .137, .2

C DIMENSIONS (IN)
 .406, .177, .177, .13, .2, .1

D DIMENSIONS (IN)
 .406, .177, .393, .236, .137, .2

E DIMENSIONS (IN)
 .406, .177, .275, .14, .2, .1

F DIMENSIONS (IN)
 .591, .433, .346, .236, .157, .173, .346, .11

G DIMENSIONS (IN)
 .591, .236, .4, .157, .173, .346, .11

H DIMENSIONS (IN)
 See page 316 for additional hardware
 .63, .32, .32, 1.77, .24, .26, M7x0.75, .71, .63, .32, .32

Single Gang

I DIMENSIONS (IN)
 .63, .32, .32, 1.77, .24, .26, M7x0.75, .71, .63, .32, .32, 20, .54, .32, .20

Single Gang with SPST Switch

J DIMENSIONS (IN)
 .63, .32, .32, 1.77, .24, .26, M7x0.75, .71, .63, .32, .32, .60, .32, .30

Dual-ganged without Switch

K DIMENSIONS (IN)
 .04, .2, .2, .3, .2, .16, .24, M7x0.75, 3 Typ.

L DIMENSIONS (IN)
 PCB Mounting Hole Detail
 .417, .08, .275, .15, .5, .236, .08, .05 Dia., .3 Typ., .2, .145, .27

M DIMENSIONS (IN)
 .323, .071, .130, .083 (2 holes), .039, .197, .394, .079, .130, .150, .102, .268, .787, .275, .020, .236, .138

N DIMENSIONS (IN)
 .08 Dia. 2 Typ., .1, .34, .5, .09, .39, .17, .67, .63, .315, .216, M10x0.75 Shaft Dia. .25"

PCB Mounting Hole Detail

Trimmer Potentiometers

4mm SMD CERMET

Adjustable With Pocket Screw Driver

◆ Surface Mount Device

Specifications:

- Power rating: 0.2W @ 70°C
- Rotational torque: 20 to 200g/cm
- Tolerance: ±30%
- Max. operating voltage: 100VDC
- Temperature coefficient: ±250ppm/°C
- Linear taper

To order reels add "REEL" to Mouser stock no. For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each			Price Per Reel of 750
			1	10	100	
◆ 328-42-Value	A	1K, 5K, 10K, 20K, 50K, 100K, 500K	.73	.57	.51	337.50
◆ 328-43-Value	B	1K, 5K, 10K, 20K, 50K, 100K, 500K	.73	.57	.51	337.50

Specifications:

- Power rating: 0.1W
- Rotational torque: 20 to 200g/cm
- Tolerance: ±25%
- Max. operating voltage: 50VDC
- Sealed for flow soldering
- Linear taper

To order reels add "REEL" to Mouser stock no. For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each			Price Per Reel of 500
			1	10	100	
◆ 328-45-Value	C	500, 1K, 5K, 10K, 20K, 50K, 100K	1.31	1.00	.91	415.00

4mm SMD CARBON

Specifications:

- Power rating: 0.1W @ 70°C
- Rotational angle: 250°
- Tolerance: ±30%
- Rotational torque: 20 to 200g/cm
- Linear taper

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each			
			1	10	100	500
◆ 321-3100-Value	D	1K, 22K	.78	.59	.53	Call
◆ 321-3000-Value	E	500, 1K, 2K, 30K, 50K, 100K, 1M	.78	.59	.53	Call

10mm CERMET

Specifications:

- Power rating: .1W @ 70°C
- Operating temp.: -30°C to +85°C
- Tolerance: ±20%
- Max. applied voltage: 350VDC
- Mechanical rotation: 260° ±10°
- Breakdown voltage: 500VAC for 1 minute
- 500VAC for 1 minute

For quantities greater than listed, call for quote.

322-9400-Value	F	1K, 5K	.79	.62	.55	.52
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10mm CARBON

Specifications:

- Breakdown voltage: 500VAC for 1 minute
- Mechanical rotation: 260° ±10°
- Tolerance: ±20%
- Operating temperature: -30°C to 85°C
- Max. applied voltage: 350VDC
- Power rating: .3W @ 70°C

For quantities greater than listed, call for quote.

322-6800-Value	G	100, 200, 500, 1K, 100K	1.16	.89	.81	.74
322-5800-Value	H	100, 5K, 10K	1.16	.89	.81	.74

Mouser	Bourns	A Bradley
6800 / 5800	VA05V / VA05H	90V / 90H

10mm FULLY ENCLOSED CARBON

Specifications:

- Power rating: .1W @ +70°C
- Operating temp.: -10°C to +70°C
- Tolerance: ±30%
- Rotational angle: 280° ±10°
- Rotational torque: 30-300g/cm
- Linear taper

For quantities greater than listed, call for quote.

321-1000-Value	I	10K, 25K, 50K, 1M	.56	.37	.34	.31
321-1100-Value	J	1K, 5K	.56	.37	.34	.31

Mouser	Panasonic	A Bradley
1000 / 1100	EVN-K4A / EVN-KOA	90V / 90H

15mm CARBON

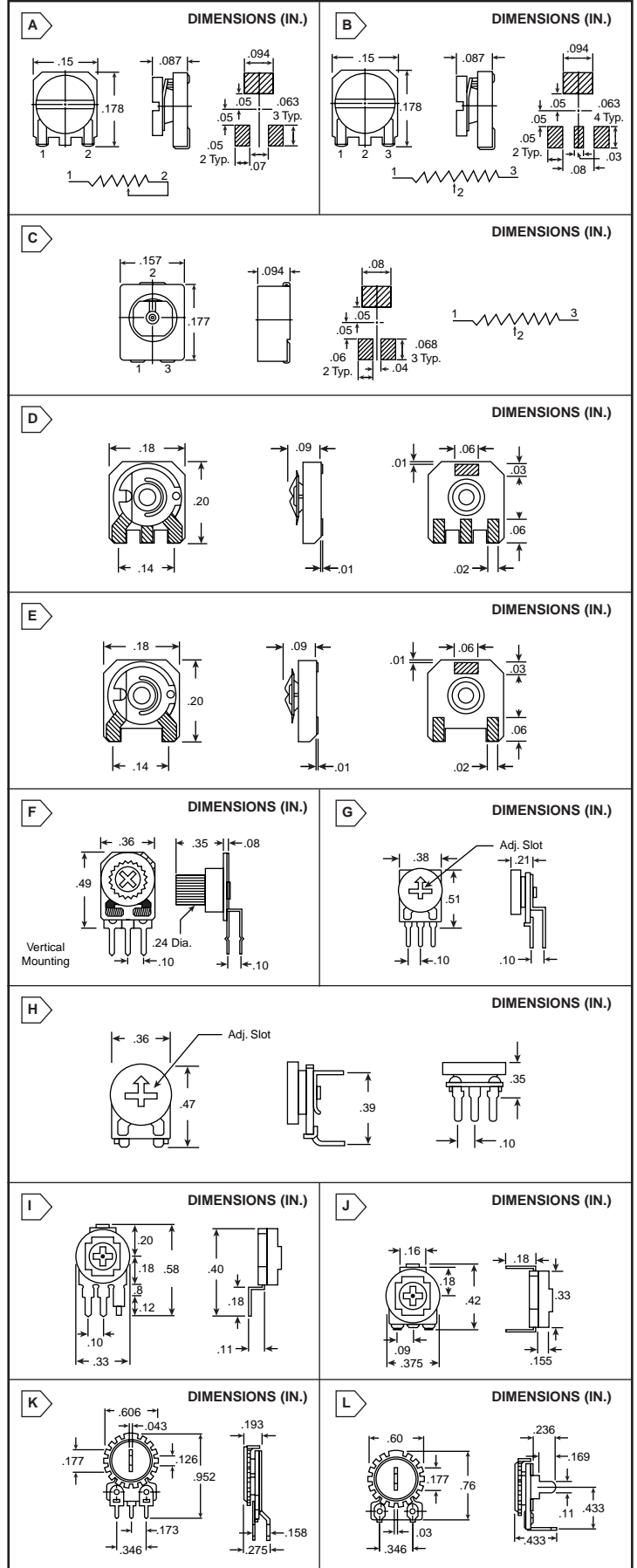
Specifications:

- Power rating: .25 watt
- Nominal temperature range: -25°C to +70°C
- Linear taper
- Voltage rating: 200VDC
- Standard tolerance: ≤500Ω±30%, >500Ω±20%, ≥500KΩ±30%
- Rotational angle: 230° ±20°

For quantities greater than listed, call for quote.

320-1510-Value	K	300, 500, 1K, 3K, 5K, 10K, 30K, 50K, 100K, 300K, 500K, 1MEG	.46	.36	.33	.30
320-1520-Value	L	1K, 3K, 5K, 10K, 30K, 50K, 100K, 300K, 500K	.46	.36	.33	.30

Mouser	CTS	Panasonic
1510 / 1520	X201 / U201	EVL-Q0A / EVL-Q1A



Single Turn Trimmer Potentiometers

.05 WATT 30% TOLERANCE

6mm Vertical - Hi-Rel

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each		
			1	10	100
32RF205	A	500	.59	.49	.45
32RF301	A	1K	.59	.49	.45
32RF302	A	2K	.59	.49	.45
32RF403	A	25K	.59	.49	.45
32RF503	A	250K	.59	.49	.45
32RF505	A	500K	.59	.49	.45

6mm Vertical

321-2100-500	B	500	.56	.47	.42
321-2100-1K	B	1K	.56	.47	.42
321-2100-5K	B	5K	.56	.47	.42
321-2100-10K	B	10K	.56	.47	.42
321-2100-25K	B	25K	.56	.47	.42
321-2100-50K	B	50K	.56	.47	.42
321-2100-100K	B	100K	.56	.47	.42
321-2100-250K	B	250K	.56	.47	.42
321-2100-500K	B	500K	.56	.47	.42
321-2100-1M	B	1Meg	.56	.47	.42

6mm Horizontal

321-2000-500	C	500	.56	.47	.42
321-2000-1K	C	1K	.56	.47	.42
321-2000-5K	C	5K	.56	.47	.42
321-2000-10K	C	10K	.56	.47	.42
321-2000-25K	C	25K	.56	.47	.42
321-2000-50K	C	50K	.56	.47	.42
321-2000-100K	C	100K	.56	.47	.42
321-2000-250K	C	250K	.56	.47	.42
321-2000-500K	C	500K	.56	.47	.42
321-2000-1M	C	1Meg	.56	.47	.42

.1 WATT 20% TOLERANCE

8mm Vertical - Standard

For quantities greater than listed, call for quote.

32AG301	D	1K	.26	.22	.20
32AG305	D	5K	.26	.22	.20
32AG401	D	10K	.26	.22	.20
32AG405	D	50K	.26	.22	.20
32AG501	D	100K	.26	.22	.20
32AG505	D	500K	.26	.22	.20

8mm Horizontal

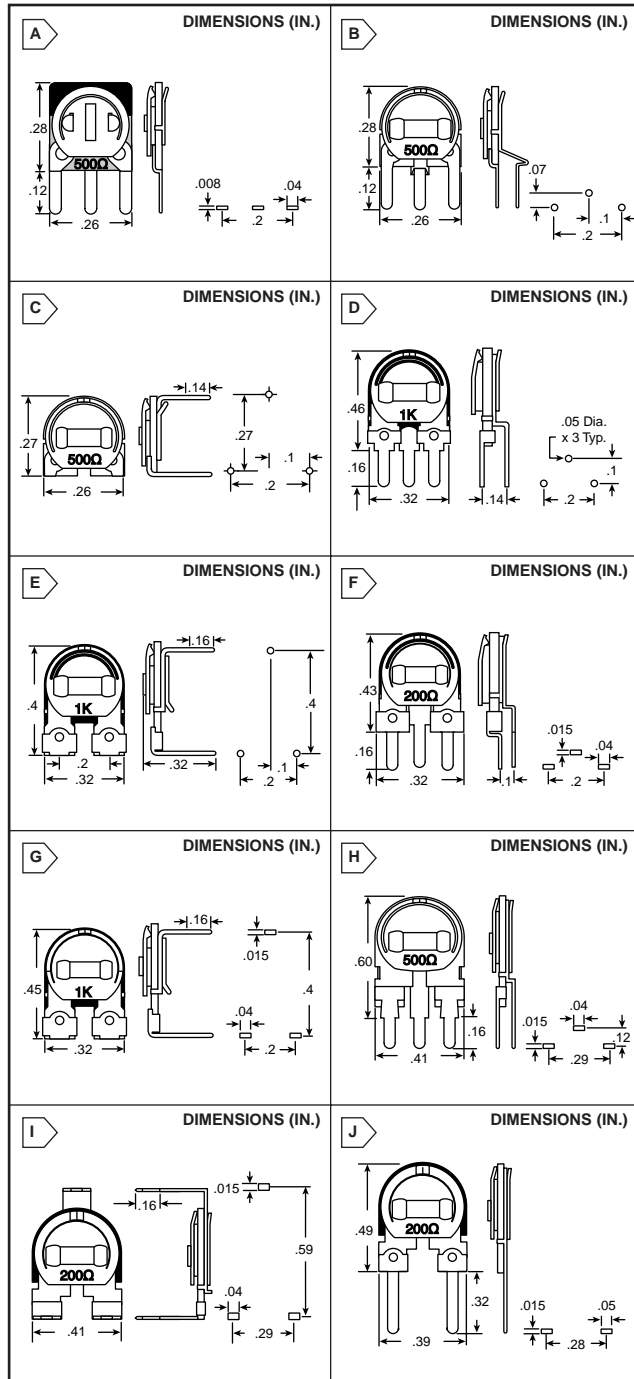
32AA301	E	1K	.26	.22	.20
32AA305	E	5K	.26	.22	.20
32AA401	E	10K	.26	.22	.20
32AA405	E	50K	.26	.22	.20
32AA501	E	100K	.26	.22	.20
32AA505	E	500K	.26	.22	.20

.1 WATT 30% TOLERANCE

8mm Vertical - Hi-Rel

For quantities greater than listed, call for quote.

32RM202	F	200	.49	.44	.37
32RM205	F	500	.49	.44	.37
32RM301	F	1K	.49	.44	.37
32RM302	F	2K	.49	.44	.37
32RM305	F	5K	.49	.44	.37
32RM401	F	10K	.49	.44	.37
32RM403	F	25K	.49	.44	.37
32RM405	F	50K	.49	.44	.37
32RM501	F	100K	.49	.44	.37
32RM503	F	250K	.49	.44	.37
32RM505	F	500K	.49	.44	.37
32RM601	F	1Meg	.49	.44	.37



.1 WATT 30% TOLERANCE

8mm Horizontal - Hi-Rel

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each		
			1	10	100
32RH202	G	200	.44	.37	.33
32RH205	G	500	.44	.37	.33
32RH301	G	1K	.44	.37	.33
32RH302	G	2K	.44	.37	.33
32RH305	G	5K	.44	.37	.33
32RH401	G	10K	.44	.37	.33
32RH403	G	25K	.44	.37	.33
32RH405	G	50K	.44	.37	.33
32RH501	G	100K	.44	.37	.33
32RH503	G	300K	.44	.37	.33
32RH505	G	500K	.44	.37	.33
32RH601	G	1Meg	.44	.37	.33

10mm Vertical - Hi-Rel

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each		
			1	10	100
32RV202	H	200	.49	.41	.37
32RV205	H	500	.49	.41	.37
32RV301	H	1K	.49	.41	.37
32RV302	H	2K	.49	.41	.37
32RV305	H	5K	.49	.41	.37
32RV401	H	10K	.49	.41	.37
32RV403	H	25K	.49	.41	.37
32RV405	H	50K	.49	.41	.37
32RV501	H	100K	.49	.41	.37
32RV503	H	300K	.49	.41	.37
32RV505	H	500K	.49	.41	.37
32RV601	H	1Meg	.49	.41	.37

10mm Horizontal

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each		
			1	10	100
32RW202	I	200	.56	.47	.42
32RW205	I	500	.56	.47	.42
32RW301	I	1K	.56	.47	.42
32RW302	I	2K	.56	.47	.42
32RW305	I	5K	.56	.47	.42
32RW401	I	10K	.56	.47	.42
32RW403	I	25K	.56	.47	.42
32RW405	I	50K	.56	.47	.42
32RW501	I	100K	.56	.47	.42
32RW503	I	250K	.56	.47	.42
32RW505	I	500K	.56	.47	.42
32RW601	I	1Meg	.56	.47	.42

10mm Vertical - Trimmer Resistor

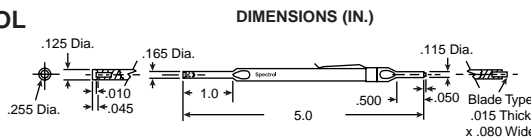
For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Fig.	Value (Ω)	Price Each		
			1	10	100
32HA202	J	200	.35	.29	.27
32HA205	J	500	.35	.29	.27
32HA301	J	1K	.35	.29	.27
32HA302	J	2K	.35	.29	.27
32HA305	J	5K	.35	.29	.27
32HA401	J	10K	.35	.29	.27
32HA405	J	50K	.35	.29	.27
32HA501	J	100K	.35	.29	.27
32HA503	J	250K	.35	.29	.27
32HA601	J	1Meg	.35	.29	.27

Spectrol TRIMMER ADJUSTMENT TOOL

Features:

- Extended as well as recessed blade for critical adjustments
- Designed to adjust trimmer potentiometers of all sizes
- Made of glass filled nylon with corrosion resistant stainless steel blades



MOUSER STOCK NO.	Price Each			
	1	25	50	100
594-8T000	1.06	.95	.86	Call

HORIZONTAL AND VERTICAL TRIMMER POT KITS

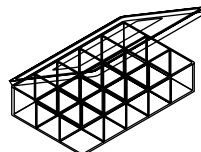
Horizontal Kit

Contains 10 of each:

- 321-2000 series
- 6mm-1K, 5K, 10K, 50K, 100K, 500K (.05W)
- 32RH series
- 8mm-1K, 5K, 10K, 50K, 100K, 500K (.1W)
- 32RW series
- 10mm-1K, 5K, 10K, 50K, 100K, 500K (.1W)

Features:

- 180 pieces
- 6 different values
- 3 sizes - 6mm, 8mm, 10mm
- Fully assembled and keyed for easy use
- Hi-reliability
- .05 - .1 watts
- ±30%
- Linear taper



Vertical Kit:

Contains 10 of each:

- 321-2100 series
- 6mm-1K, 5K, 10K, 50K, 100K, 500K (.05W)
- 32RM series
- 8mm-1K, 5K, 10K, 50K, 100K, 500K (.1W)
- 32RV series
- 10mm-1K, 5K, 10K, 100K, 500K (.1W)

MOUSER STOCK NO.	Price Each
370-TPH-1	69.95

MOUSER STOCK NO.	Price Each
370-TPV-1	69.95

MODULAR STYLE, CONDUCTIVE PLASTIC

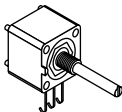
The 308 Series are high-performance, low cost potentiometers. They are provided with a 1/8" diameter screwdriver slotted shaft, 3/4" in length, and a 1/4" diameter bushing 1/4" in length with 1/4-32-NEF-2A thread. The 308N has solder terminals and the 308NPC has PC pins.

Specifications:

- Tolerance: $\pm 10\%$
- Electrical rotation: $295^\circ \pm 5^\circ$
- Effective rotation: $265^\circ \pm 5^\circ$
- Working voltage: 350 VDC, but power not to exceed rating

.5 Watt, 1/2" Square, Solder Terminals

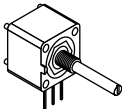
Value Ω	MOUSER STOCK NO.
1K	560-308N-1K
5K	560-308N-5K
10K	560-308N-10K
50K	560-308N-50K
100K	560-308N-100K



Price Each				
1	10	50	100	
9.44	7.41	6.29	5.08	

.5 Watt, 1/2" Square, PC Pins

Value Ω	MOUSER STOCK NO.
1K	560-308NPC-1K
5K	560-308NPC-5K
10K	560-308NPC-10K
50K	560-308NPC-50K
100K	560-308NPC-100K



Price Each				
1	10	50	100	
9.64	7.51	6.39	4.72	

MODULAR STYLE THICK-FILM CERMET

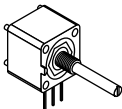
The 309 Series are high-performance, low cost potentiometers. They are provided with a 1/8" diameter screwdriver slotted shaft, 3/4" in length, and a 1/4" diameter bushing 1/4" in length with 1/4-32-NEF-2A thread. The 309NPC has PC pins.

Specifications:

- Tolerance: $\pm 10\%$
- Electrical rotation: $295^\circ \pm 5^\circ$
- Effective rotation: $265^\circ \pm 5^\circ$
- Working voltage: 350 VDC, but power not to exceed rating

1 Watt, 1/2" Square, PC Pins

Value Ω	MOUSER STOCK NO.
1K	560-309NPC-1K
5K	560-309NPC-5K
10K	560-309NPC-10K
50K	560-309NPC-50K
100K	560-309NPC-100K



Price Each				
1	10	50	100	
10.00	7.87	6.65	5.84	

MODULAR STYLE, CONDUCTIVE PLASTIC

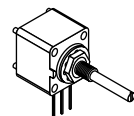
The Series 408 are high performance potentiometers, designed to meet wave soldering and board washing applications. The case and shaft are sealed.

Specifications:

- Tolerance: $\pm 10\%$
- Electrical rotation: $295^\circ \pm 5^\circ$
- Effective rotation: $265^\circ \pm 5^\circ$
- Working voltage: 350 VDC, but power not to exceed rating

.5 Watt, 1/2" Square

Value Ω	MOUSER STOCK NO.
500	560-408N-500
1K	560-408N-1K
5K	560-408N-5K
10K	560-408N-10K



Sealed

Price Each				
1	10	50	100	
36.03	19.94	16.90	10.00	

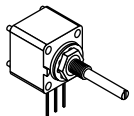
MODULAR STYLE THICK-FILM CERMET

Specifications:

- Tolerance: $\pm 10\%$
- Electrical rotation: $295^\circ \pm 5^\circ$
- Effective rotation: $250^\circ +10^\circ -5^\circ$
- Working voltage: 350 VDC, but power not to exceed rating

1.0 Watt, 1/2" Square

Value Ω	MOUSER STOCK NO.
500	560-409N-500
1K	560-409N-1K
5K	560-409N-5K
10K	560-409N-10K



Sealed

Price Each				
1	10	50	100	
36.69	21.52	18.17	10.76	

CONDUCTIVE PLASTIC

The 388N Series are 1/2" square, modular, stackable potentiometers. Suited for countless design options; over a billion configurations available. This series can be found in a wide range of sophisticated systems in a broad scope of industries. Call regarding special configurations.

Specifications:

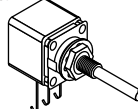
- Resistance tolerance: $\pm 10\%$
- Power rating: 0.5 watt
- Working voltage: 350 VDC, but power not to exceed rating
- Effective rotation: $265^\circ \pm 5^\circ$ without switch
- Rotational life: 50,000 cycles

.5 Watt, 1/2" Square

Value Ω	MOUSER STOCK NO.
500	560-388N-500
1K	560-388N-1K
5K	560-388N-5K
10K	560-388N-10K
100K	560-388N-100K

Special Order Options Available:

- Detents: single position or up to 15 positions
- Multi-turns: 3 1/2 and 5-turn styles
- Clutch drive
- Push drive: shaft depressed to actuate pot
- Return to center



Price Each				
1	10	50	100	
33.30	18.55	15.70	Call	

THICK-FILM CERMET

The 389N Series are 1/2" square, modular, stackable potentiometers. Suited for countless design options; over a billion configurations available. This series can be found in a wide range of sophisticated systems in a broad scope of industries. Call regarding special configurations.

Specifications:

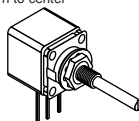
- Resistance tolerance: $\pm 10\%$
- Power rating: 1 watt
- Working voltage: 350 VDC, but power not to exceed rating
- Effective rotation: $265^\circ +10^\circ -5^\circ$ without switch
- Rotational life: 25,000 cycles

1 Watt, 1/2" Square

Value Ω	MOUSER STOCK NO.
500	560-389N-500
1K	560-389N-1K
5K	560-389N-5K
10K	560-389N-10K
100K	560-389N-100K

Special Order Options Available:

- Detents: single position or up to 15 positions
- Multi-turns: 3 1/2 and 5-turn styles
- Clutch drive
- Push drive: shaft depressed to actuate pot
- Return to center



Price Each				
1	10	50	100	
39.35	22.95	19.40	Call	

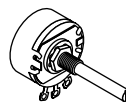
CONDUCTIVE PLASTIC

The 380C1 "Quiet One" offers superior dynamic noise and long rotation life. The 1/4" diameter shaft is 2" in length and the 3/8" long bushing has 3/8x32-NEF-2A thread.

Specifications:

- Tolerance: $\pm 10\%$
- Electrical rotation: $312^\circ \pm 3^\circ$
- Working voltage: 500 VDC across end terminals, but power not to exceed rating
- Rotational life: 100,000 cycles

- ### Features:
- 1% dynamic noise
 - Stainless steel shaft



Sealed

2 Watt, 1" Diameter

Value Ω	MOUSER STOCK NO.
1K	560-380C1-1K
5K	560-380C1-5K
10K	560-380C1-10K
50K	560-380C1-50K
100K	560-380C1-100K

Price Each				
1	10	50	100	
16.04	14.01	11.98	8.07	

THICK-FILM CONDUCTIVE PLASTIC

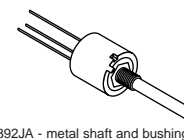
The 392 Series are designed to meet wave soldering applications for mounting to PC boards. They meet flow solderability and washability test requirements. The 1/8" diameter screwdriver slotted shaft is 7/8" in length and the 1/4" diameter, 1/4" long bushing has 1/4-32 NEF-2A thread.

Specifications:

- Tolerance: $\pm 10\%$
- Electrical rotation: $295^\circ \pm 5^\circ$
- Effective rotation: $265^\circ +0^\circ -10^\circ$
- Working voltage: 350 VDC, but power not to exceed rating

Features:

- Washable and wave solderability
- Shaft seal standard



392JA - metal shaft and bushing

.5 Watt, 1/2" Diameter

Value Ω	MOUSER STOCK NO.
1K	560-392JA-1K
5K	560-392JA-5K
10K	560-392JA-10K
50K	560-392JA-50K
100K	560-392JA-100K

Price Each				
1	10	50	100	
9.85	8.63	7.46	4.92	

.5 Watt, 1/2" Diameter

Value Ω	MOUSER STOCK NO.
1K	560-392JB-1K
5K	560-392JB-5K
10K	560-392JB-10K
50K	560-392JB-50K
100K	560-392JB-100K

392JB - plastic shaft and bushing

Price Each				
1	10	50	100	
7.51	6.50	5.63	3.70	

CONDUCTIVE PLASTIC

The RV6NAYS style is a high resolution, highly stable potentiometer for applications requiring miniaturization and reliability.

Specifications:

- Tolerance: $\pm 10\%$
- Electrical rotation: $295^\circ \pm 3^\circ$
- Effective rotation: $265^\circ +0^\circ -10^\circ$
- Rotational life: 50,000 cycles

- ### Features:
- Metal body
 - Rugged construction



.5 Watt, 1/2" Diameter

Value Ω	MOUSER STOCK NO.
1K	560-RV6-NAYSD-1K
5K	560-RV6-NAYSD-5K
10K	560-RV6-NAYSD-10K
50K	560-RV6-NAYSD-50K
100K	560-RV6-NAYSD-100K

For quantities greater than listed, call for quote.

Price Each			
1	10	50	
14.25	12.50	10.70	

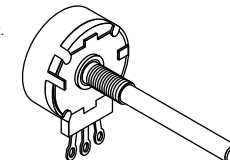
WIREWOUND

The 58C1 Series is an industrial grade potentiometer with a 2" long, 1/4" diameter round shaft. The bushing is 3/8" long with 3/8-32 NEF-2A thread.

Specifications:

- Operating temperature range: -55°C to $+105^\circ\text{C}$
- Resistance tolerance: $\pm 5\%$
- Effective rotation: $280^\circ \pm 5^\circ$
- Electrical rotation: $300^\circ \pm 5^\circ$
- Working voltage: 350 VDC max.

- ### Features:
- High wattage
 - Stainless steel shaft
 - Solder terminals



4 Watt, 1 11/16" Dia.

Value Ω	MOUSER STOCK NO.
10	560-58C1-10
50	560-58C1-50
100	560-58C1-100
500	560-58C1-500
1K	560-58C1-1K
5K	560-58C1-5K
10K	560-58C1-10K

Price Each				
1	25	50	100	
37.86	34.31	22.84	20.35	

CONDUCTIVE PLASTIC

The 53C1SW is equipped with a 1/4" diameter, 2" long shaft and the 3/8" long bushing has 3/8 x 32-NEF-2A thread. The 53C1SW can be fitted with a S.P.S.T. or D.P.S.T. 53 Series switch listed at right.

Specifications:

- Tolerance: $\pm 10\%$
- Electrical rotation: $312^\circ \pm 3^\circ$
- Rotational life: 25,000 cycles
- Working voltage: 500 VDC across end terminals, but power not to exceed rating

2 Watt, 1" Diameter

Value Ω	MOUSER STOCK NO.
1K	560-53C1SW-1K
5K	560-53C1SW-5K
10K	560-53C1SW-10K
50K	560-53C1SW-50K
100K	560-53C1SW-100K



Price Each				
1	10	50	100	
8.32	7.31	6.29	4.42	

SWITCHES

May be used the the 53C1SW Series potentiometers.



MOUSER STOCK NO.	Description	Price Each		
		1	10	50
560-53-10	SPST 3A-125 VAC	3.76	3.53	3.41
560-53-20	DPST 3A-125 VAC	4.64	4.35	4.21

CONDUCTIVE PLASTIC POTENTIOMETERS

The 1/8" diameter screwdriver slotted shaft is 3/4" long and the 1/4" diameter bushing is 1/4" in length and has 1/4-32 NEF-2A thread.

Specifications:

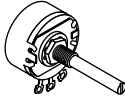
- Tolerance: ±10%
- Electrical rotation: 300° ±5° without switch; 320° ±5° with switch
- Working voltage: 350 VDC

Features:

- Long rotational life
- Small size
- Superior dynamic noise

1 Watt, 5/8" Diameter

Value Ω	MOUSER STOCK NO.
1K	560-381N-1K
5K	560-381N-5K
10K	560-381N-10K
50K	560-381N-50K
100K	560-381N100K

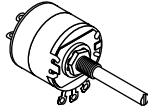


Price Each				
1	10	50	100	
10.96	9.64	8.32	5.63	

The 381NS is the same as the 381N except it has a S.P.S.T. switch included.

1 Watt, 5/8" Diameter

Value Ω	MOUSER STOCK NO.
1K	560-381NS-1K
5K	560-381NS-5K
10K	560-381NS-10K
50K	560-381NS-50K
100K	560-381NS100K



Price Each				
1	10	50	100	
20.40	17.91	15.33	10.30	

SWITCHES

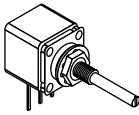
For use with A47 Pick-A-Shaft Series at the top center.

MOUSER STOCK NO.	Description	Price Each		
		1	10	50
560-SWE-10	SPST 3A-125 VAC	3.44	3.23	3.12
560-SWE-20	DPST 3A-125 VAC	3.44	3.23	3.12



MECHANICAL ENCODER

The Series 388EN is a high performance mechanical contact encoder which produces a digital 2-bit gray code. It is provided with an 1/8" diameter screwdriver slotted shaft and a 1/4" diameter bushing 1/4" in length with 1/4-32-NEF-2A thread.



Features:

- Compact: 1/2" miniature, dust-free, modular size
- High resolution: precision screen printed conductive plastic element. 2-bit gray code in 4 pulse/16 detent and 6 pulse/24 detent versions.

Specifications:

- Output: 2-bit gray code, channel L leads channel R by 90° electrically in CW direction
- Contact rating: 5 VDC @ 5 mA
- Bounce: 5 ms/cycle @ 15 RPM
- Electrical travel: continuous
- Rotational life: 100,000 shaft revolutions

1/2" Square

MOUSER STOCK NO.	Description	Price Each		
		1	10	50
560-388EN-4P	4 pulse/16 detent	15.35	12.80	10.20
560-388EN-6P	6 pulse/24 detent	16.35	13.65	10.85

OPTICAL ROTARY ENCODER

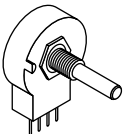
The Series 600EN controls are manually operated, rotary, optical encoders that output two square waves in quadrature at a rate of 128 pulses per channel per revolution.

Features:

- Cost effective: elimination of A/D converters
- Stainless steel shaft and nickel-plated bushing

Specifications:

- Input power: 5V DC ±5% @ 30mA max.
- Output rate: 128 pulses/rev. per channel
- Channels: 2 separate output channels in quadrature, 90° ±45°
- Rotational life: 10 million revolution min.



B66 Type Pins Shown

1 1/8" Diameter

MOUSER STOCK NO.	Mounting	Price Each		
		1	10	50
560-600EN-CBL	7 1/2" hook-up cable	42.63	35.53	28.22
560-600EN-B66	Horiz. adj., PC pins	40.90	34.10	27.10
560-600EN-C24	Vertical adj., PC pins	40.90	34.10	27.10

PICK-A-SHAFT, CONDUCTIVE PLASTIC POTENTIOMETERS

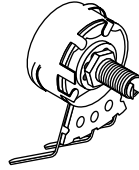
"Pick-A-Shaft" controls allow the user to select from the variety of shaft types listed below. Also a S.P.S.T. or D.P.S.T. switch, listed at the left, may be added if needed.

Specifications:

- Resistance tolerance: ±10%
- Power rating: linear - 0.5 watts @ 70°C audio - 0.25 watts @ 70°C
- Effective rotation: 270° ±10° with and without switch
- Electrical rotation: 300° ±5° with and without switch
- Working voltage: 500 VDC max., but power not to exceed rating

Features:

- 2% dynamic noise
- 25,000 cycle rotational life
- Wire wrap terminals



.5 Watt, 1" Diameter

Value Ω	MOUSER STOCK NO.
1K	560-A47-1K
5K	560-A47-5K
10K	560-A47-10K
10K	560-A47-10KZ
50K	560-A47-50K
100K	560-A47-100K

*: Audio taper

Price Each				
1	10	50	100	
5.76	5.40	5.22	Call	

PICK-A-SHAFT WIREWOUND POTENTIOMETERS

"Pick-A-Shaft" controls allow the user to select from the variety of shaft types listed below.

Specifications:

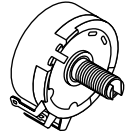
- Tolerance: ±10%
- Power rating: 2 watts
- Effective rotation: 280° ±5°
- Electrical rotation: 300° ±5° with and without switch

Features:

- Economical
- Versatile shaft configurations
- Solder terminals

2 Watt, 1 1/8" Diameter

Value Ω	MOUSER STOCK NO.
10	560-A43-10
50	560-A43-50
100	560-A43-100
500	560-A43-500
1K	560-A43-1K
5K	560-A43-5K
10K	560-A43-10K



Price Each				
1	10	50	100	
13.36	12.53	12.11	Call	

50K	560-A43-50K	19.44	18.23	17.62	Call
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SHAFTS

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Description	Price Each		
		1	10	50
560-FKS-1/2	Fine-knurled, slotted shaft, 1/2" long	1.68	1.65	1.52
560-RS-2	Round shaft, 2" long	1.68	1.65	1.52
560-RS-3	Round shaft, 3" long	1.68	1.65	1.52
560-FS-3	Flatted shaft, 3" long	1.68	1.65	1.52
560-KSS-3	Knurled, split shaft, 3" long	1.68	1.65	1.52
560-RS-3/16	Round slotted, 3/16" diameter, 3" long	1.68	1.65	1.52

Part No.	Dimensions (IN.)
FKS-1/2	Length: .50, Dia: .25
RS-2	Length: 2.00, Dia: .25
RS-3	Length: 3.00, Dia: .25
FS-3	Length: 3.00, Dia: .25
KSS-3	Length: 3.00, Dia: .25
RS-3/16	Length: 3.00, Dia: .19

MECHANICAL ROTARY ENCODER

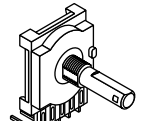
The Series 500EN Controls are manually operated, rotary, mechanical encoders. Bushing is 3/8" diameter x 1/4" long, double flat .320". The shaft is 1/4" diameter x 3/4" FMS, .216" x 3/8" long flat. It can be panel mounted by the 3/8" diameter bushing or board mounted with the use of an optional 500-BKT bracket.

Features:

- Cost effective: direct digital output, which eliminates A/D converters
- High resolution: up to 36 electrical and mechanical detented positions
- Variability: horizontal or vertical mountings relative to the PC board

Specifications:

- Output: 2-bit gray code, channel L leads channel R by 90° electrically in CW direction. 4-bit gray code, absolute electrical position output
- Bounce: 5 ms/cycle @ 15 RPM
- Electrical travel: continuous
- Rotational life: 100,000 detented cycles



C2 Type PC Pins Shown

MOUSER STOCK NO.	No. of Bits (Gray Code)	No. of Mechanical Detents/Revolution	Terminal Mounting (From Center Line)	Price Each		
				1	10	50
560-500EN-204P-B1	2-bit	4 cycles/rev., 16 detents/rev.	.615" ± .005" extending down	5.15	4.30	3.40
560-500EN-204P-C2	2-bit	4 cycles/rev., 16 detents/rev.	.625" ± .007" extending to back	5.65	4.80	3.90
560-500EN-206P-B1	2-bit	6 cycles/rev., 24 detents/rev.	.615" ± .005" extending down	5.15	4.30	3.40
560-500EN-206P-C2	2-bit	6 cycles/rev., 24 detents/rev.	.625" ± .007" extending to back	5.15	4.30	3.40
560-500EN-412P-B1	4-bit	12 elect. pos./rev., 12 detents/rev.	.615" ± .005" extending down	5.70	4.75	3.80
560-500EN-412P-C2	4-bit	12 elect. pos./rev., 12 detents/rev.	.625" ± .007" extending to back	5.70	4.75	3.80
560-500EN-209P-B1	2-bit	9 cycles/rev., 36 detents/rev.	.615" ± .005" extending down	5.15	4.30	3.40
560-500EN-209P-C2	2-bit	9 cycles/rev., 36 detents/rev.	.625" ± .007" extending to back	5.15	4.30	3.40
560-500EN-416P-B1	4-bit	16 elect. pos./rev., 16 detents/rev.	.615" ± .005" extending down	5.70	4.75	3.80
560-500EN-416P-C2	4-bit	16 elect. pos./rev., 16 detents/rev.	.625" ± .007" extending to back	5.70	4.75	3.80

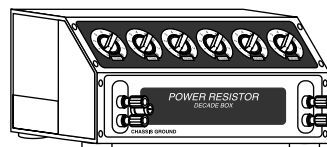
560-500BKT	PC mounting bracket for use with 500EN Series above	.75	.65	.50
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POWER RESISTOR DECADE BOX

The 240C is a must in electronic and electrical work when dealing with known or unknown resistances... selected or determined under active operational conditions.

Features:

- Provides any ohmage value, in 1Ω increments from 1 to 999,999Ω
- Power ratings to 225 watts maximum @ 1000 volts maximum



MOUSER STOCK NO.	Description	Price Each
560-240C	Decade box	1105.00

SINGLE-TURN, WIREWOUND TRIMMERS

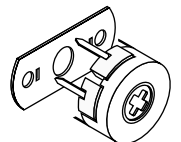
The U80 Series is a shaftless, wirewound trimmer with the contact arm grounded to the housing. The design of terminals and mounting tabs allows choice of above chassis mounting or PC mounting. An inexpensive trimmer for industrial applications as well as replacement for TV and radio requirements.

Specifications:

- Hardware: mounting plate supplied unassembled
- Effective rotation: 215°

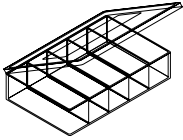
3 Watt, .77" Diameter

Value Ω	MOUSER STOCK NO.
50	560-U80-50
100	560-U80-100
500	560-U80-500
1K	560-U80-1K
5K	560-U80-5K



Price Each				
1	10	50	100	
1.92	1.80	1.74	Call	

Prototype Kits



Features:

- Designed to fill the need of design engineers, prototype, and repair benches, school labs and short-run manufacturing lines.
- No guesswork. Our kits spell out exactly what you get.
- Production quantities of all listed components are in stock at Mouser.
- All items in our kits are regularly stocked items.
- Compare Mouser kits on this page with anyone else's and you will see why quality, price, selection, and convenience point to a Mouser kit for your needs.
- Fully assembled and keyed for easy use.

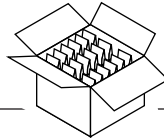
The 240 piece kits contain 10 each of 24 different values packaged in plastic bags with one value per bag. There are 4 values stored in each of the 6 compartments in the compact storage case. Color code for each item is listed on leg-end for easy identification.

Resistor Kits

MOUSER STOCK NO.	Type	Range of Values	Pieces in Each Kit	Description	Price Each
370-299-1	1/8 watt carbon film 5%	1Ω-82Ω	240	10 ea.: 1.0, 1.2, 1.5, 1.8, 2.2, 2.7, 3.3, 3.9, 4.7, 5.6, 6.8, 8.2, 10, 12, 15, 18, 22, 27, 33, 39, 47, 56, 68, 82	19.95
370-299-2	1/8 watt carbon film 5%	100Ω-8.2K	240	10 ea.: 100, 120, 150, 180, 220, 270, 330, 390, 470, 560, 680, 820, 1K, 1.2K, 1.5K, 1.8K, 2.2K, 2.7K, 3.3K, 3.9K, 4.7K, 5.6K, 6.8K, 8.2K	19.95
370-299-3	1/8 watt carbon film 5%	10K-820K	240	10 ea.: 10K, 12K, 15K, 18K, 22K, 27K, 33K, 39K, 47K, 56K, 68K, 82K, 100K, 120K, 150K, 180K, 220K, 270K, 330K, 390K, 470K, 560K, 680K, 820K	19.95
370-SJ250-1	1/4 watt carbon film 5%	1Ω-1KΩ	240	10 ea.: 1.0, 2.0, 3.0, 4.7, 5.6, 7.5, 8.2, 10, 12, 15, 20, 27, 47, 68, 75, 100, 200, 300, 430, 560, 680, 750, 820, 1K	18.95
370-SJ250-2	1/4 watt carbon film 5%	1.1KΩ-100KΩ	240	10 ea.: 1.1K, 1.5K, 1.8K, 2K, 2.7K, 3K, 3.3K, 3.9K, 4.7K, 5.6K, 6.8K, 8.2K, 10K, 15K, 20K, 27K, 30K, 33K, 47K, 56K, 68K, 75K, 82K, 100K	18.95
370-SJ250-3	1/4 watt carbon film 5%	110KΩ-10MΩ	240	10 ea.: 110K, 130K, 150K, 180K, 200K, 270K, 300K, 330K, 390K, 470K, 560K, 680K, 750K, 820K, 910K, 1M, 2M, 3.3M, 3.9M, 4.7M, 5.6M, 6.8M, 8.2M, 10M	18.95
370-SJ500-1	1/2 watt carbon film 5%	2.2Ω-1KΩ	240	10 ea.: 2.2, 2.4, 3.0, 4.7, 5.6, 7.5, 8.2, 10, 13, 15, 20, 27, 47, 68, 75, 100, 200, 300, 430, 560, 680, 750, 820, 1K	23.95
370-SJ500-2	1/2 watt carbon film 5%	1.1KΩ-100KΩ	240	10 ea.: 1.1K, 1.5K, 1.8K, 2K, 2.7K, 3K, 3.3K, 3.9K, 4.7K, 5.6K, 6.8K, 8.2K, 10K, 15K, 20K, 27K, 30K, 33K, 47K, 56K, 68K, 75K, 82K, 100K	23.95
370-SJ500-3	1/2 watt carbon film 5%	110KΩ-3.3MΩ	240	10 ea.: 110K, 130K, 150K, 180K, 200K, 270K, 300K, 330K, 390K, 470K, 560K, 680K, 750K, 820K, 910K, 1M, 1.1M, 1.3M, 1.5M, 1.6M, 1.8M, 2M, 2.2M, 3.3M	23.95
370-SJ901-1	1 watt carbon film 5%	2.2Ω-1KΩ	240	10 ea.: 2.2, 3.3, 4.7, 5.6, 6.8, 8.2, 10, 15, 27, 39, 47, 56, 68, 82, 100, 150, 220, 270, 330, 470, 560, 680, 820, 1K	29.95
370-SJ901-2	1 watt carbon film 5%	1.2KΩ-100KΩ	240	10 ea.: 1.2K, 1.5K, 1.8K, 2.2K, 2.7K, 3.3K, 3.9K, 4.7K, 5.6K, 6.8K, 8.2K, 10K, 12K, 15K, 18K, 22K, 27K, 33K, 39K, 47K, 56K, 68K, 82K, 100K	29.95
370-BJ250-1	1/4 watt carbon comp. 5%	2.2Ω-1.0KΩ	240	10 ea.: 2.2, 2.7, 3.3, 4.7, 5.6, 6.8, 8.2, 10, 13, 15, 20, 27, 47, 68, 75, 100, 200, 300, 430, 560, 680, 750, 820, 1.0K	17.95
370-BJ250-2	1/4 watt carbon comp. 5%	1.1KΩ-100KΩ	240	10 ea.: 1.1K, 1.5K, 1.8K, 2.0K, 2.7K, 3.0K, 3.3K, 3.9K, 4.7K, 5.6K, 6.8K, 8.2K, 10K, 15K, 20K, 27K, 30K, 33K, 47K, 56K, 68K, 75K, 82K, 100K	17.95
370-BJ250-3	1/4 watt carbon comp. 5%	100KΩ-910KΩ	240	10 ea.: 100K, 110K, 120K, 130K, 150K, 160K, 180K, 200K, 220K, 240K, 270K, 300K, 330K, 360K, 390K, 430K, 470K, 510K, 560K, 620K, 680K, 750K, 820K, 910K	17.95
370-278-1	1/8 watt metal film 1%, 100ppm	4.02Ω-1KΩ	240	10 ea.: 4.02, 10, 20, 30, 39, 47, 51, 68, 100, 120, 160, 200, 220, 270, 300, 330, 390, 430, 560, 620, 750, 820, 910, 1K	29.95
370-278-2	1/8 watt metal film 1%, 100ppm	1.1KΩ-100KΩ	240	10 ea.: 1.1K, 1.5K, 1.8K, 2K, 2.7K, 3K, 3.3K, 3.9K, 4.7K, 5.6K, 6.8K, 8.2K, 10K, 15K, 20K, 27K, 30K, 33K, 47K, 56K, 68K, 75K, 82K, 100K	29.95
370-278-3	1/8 watt metal film 1%, 100ppm	110KΩ-1MΩ	240	10 ea.: 110K, 120K, 130K, 150K, 160K, 180K, 200K, 220K, 270K, 300K, 330K, 390K, 430K, 470K, 499K, 560K, 620K, 680K, 750K, 820K, 845K, 910K, 953K, 1M	29.95
370-MF250-2	1/4 watt metal film 1%, 100ppm	1.1KΩ-100KΩ	240	10 ea.: 1.1K, 1.5K, 1.8K, 2K, 2.7K, 3K, 3.3K, 3.9K, 4.7K, 5.6K, 6.8K, 8.2K, 10K, 15K, 20K, 27K, 30K, 33K, 47K, 56K, 68K, 75K, 82K, 100K	29.95
370-271-1	1/4 watt metal film 1%, 50ppm	4.02Ω-1KΩ	240	10 ea.: 4.02, 10, 20, 30, 39, 47, 51, 68, 100, 120, 160, 200, 220, 270, 300, 330, 390, 430, 560, 620, 750, 820, 910, 1K	34.95
370-271-2	1/4 watt metal film 1%, 50ppm	1.1KΩ-100KΩ	240	10 ea.: 1.1K, 1.5K, 1.8K, 2K, 2.7K, 3K, 3.3K, 3.9K, 4.7K, 5.6K, 6.8K, 8.2K, 10K, 15K, 20K, 27K, 30K, 33K, 47K, 56K, 68K, 75K, 82K, 100K	34.95
370-271-3	1/4 watt metal film 1%, 50ppm	110KΩ-1MΩ	240	10 ea.: 110K, 120K, 130K, 150K, 160K, 180K, 200K, 220K, 270K, 300K, 330K, 390K, 430K, 470K, 499K, 560K, 620K, 680K, 750K, 820K, 845K, 910K, 953K, 1M	34.95
370-MF500-1	1/2 watt metal film 1%	4.02Ω-1KΩ	240	10 ea.: 4.02, 10, 20, 30, 39, 47, 51, 68, 100, 120, 160, 200, 220, 270, 300, 330, 390, 430, 560, 620, 750, 820, 910, 1K	34.95
370-MF500-2	1/2 watt metal film 1%	1.1KΩ-100KΩ	240	10 ea.: 1.1K, 1.5K, 1.8K, 2K, 2.7K, 3K, 3.3K, 3.9K, 4.7K, 5.6K, 6.8K, 8.2K, 10K, 15K, 20K, 27K, 30K, 33K, 47K, 56K, 68K, 75K, 82K, 100K	34.95
370-MF500-3	1/2 watt metal film 1%	110KΩ-1MΩ	240	10 ea.: 110K, 120K, 130K, 150K, 160K, 180K, 200K, 220K, 270K, 300K, 330K, 390K, 430K, 470K, 499K, 560K, 620K, 680K, 750K, 820K, 845K, 910K, 953K, 1M	34.95
370-261-1	1 watt metal oxide 5%	.5Ω-100Ω	240	10 ea.: .5, .68, .82, 1.0, 1.5, 2.0, 3.0, 4.7, 5.6, 6.8, 8.2, 9.1, 10, 15, 20, 30, 39, 47, 51, 68, 75, 82, 91, 100 (values for both kits)	34.95
370-262-1	2 watt metal oxide 5%	.5Ω-100Ω	240	10 ea.: .5, .68, .82, 1.0, 1.5, 2.0, 3.0, 4.7, 5.6, 6.8, 8.2, 9.1, 10, 15, 20, 30, 39, 47, 51, 68, 75, 82, 91, 100 (values for both kits)	39.95
370-261-2	1 watt metal oxide 5%	110Ω-1.0KΩ	240	10 ea.: 110, 120, 130, 150, 160, 180, 200, 220, 240, 270, 300, 330, 360, 390, 430, 470, 510, 560, 620, 680, 750, 820, 910, 1.0K (values for both kits)	34.95
370-262-2	2 watt metal oxide 5%	110Ω-1.0KΩ	240	10 ea.: 110, 120, 130, 150, 160, 180, 200, 220, 240, 270, 300, 330, 360, 390, 430, 470, 510, 560, 620, 680, 750, 820, 910, 1.0K (values for both kits)	39.95
370-261-3	1 watt metal oxide 5%	1.1KΩ-68KΩ	240	10 ea.: 1.1K, 1.5K, 2K, 2.7K, 3K, 3.9K, 4.7K, 5.1K, 6.2K, 7.5K, 8.2K, 9.1K, 10K, 15K, 20K, 27K, 30K, 33K, 39K, 47K, 51K, 62K, 68K (values for both kits)	34.95
370-262-3	2 watt metal oxide 5%	1.1KΩ-68KΩ	240	10 ea.: 1.1K, 1.5K, 2K, 2.7K, 3K, 3.9K, 4.7K, 5.1K, 6.2K, 7.5K, 8.2K, 9.1K, 10K, 15K, 20K, 27K, 30K, 33K, 39K, 47K, 51K, 62K, 68K (values for both kits)	39.95

"C-PAC" ASSORTMENT

Resistors

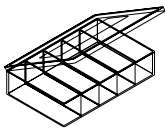


These kits feature 100 or 200 pieces of each value

MOUSER STOCK NO.	Type	Range of Values	Pieces in Each Kit	Description	Price Each
370-SJ250-1C	1/4 watt carbon film	1.0Ω-1KΩ	4800	200 ea.: of all values listed for prototype kit 370-SJ250-1 shown above	46.95
370-SJ250-2C	1/4 watt carbon film	1.1KΩ-100KΩ	4800	200 ea.: of all values listed for prototype kit 370-SJ250-2 shown above	46.95
370-SJ250-3C	1/4 watt carbon film	110KΩ-10MΩ	4800	200 ea.: of all values listed for prototype kit 370-SJ250-3 shown above	46.95
370-SJ250-C	1/4 watt carbon film	1Ω-10MΩ	14,400	200 ea.: of all values listed for prototype kits 370-SJ250-1, 370-SJ250-2 & 370-SJ250-3 shown above	139.95
370-SJ500-1C	1/2 watt carbon film	2.2Ω-1KΩ	4800	200 ea.: of all values listed for prototype kit 370-SJ500-1 shown above	74.95
370-SJ500-2C	1/2 watt carbon film	1.1KΩ-100KΩ	4800	200 ea.: of all values listed for prototype kit 370-SJ500-2 shown above	74.95
370-SJ500-3C	1/2 watt carbon film	110KΩ-3.3MΩ	4800	200 ea.: of all values listed for prototype kit 370-SJ500-3 shown above	74.95
370-SJ500-C	1/2 watt carbon film	2.2Ω-3.3MΩ	14,400	200 ea.: of all values listed for prototype kits 370-SJ500-1, 370-SJ500-2 & 370-SJ500-3 shown above	217.95
370-SJ901-1C	1 watt carbon film	2.2Ω-1KΩ	2400	100 ea.: of all values listed for prototype kit 370-SJ901-1 shown above	114.95
370-SJ901-2C	1 watt carbon film	1.2KΩ-1A00KΩ	2400	100 ea.: of all values listed for prototype kit 370-SJ901-2 shown above	114.95
370-SJ901-C	1 watt carbon film	2.2Ω-100KΩ	4800	100 ea.: of all values listed for prototype kits 370-SJ901-1 and 370-SJ901-2 shown above	229.95
370-BJ250-1C	1/4 watt carbon comp.	2.2Ω-1.0KΩ	2400	100 ea.: of all values listed for prototype kit 370-BJ250-1 shown above	139.95
370-BJ250-2C	1/4 watt carbon comp.	1.1KΩ-100KΩ	2400	100 ea.: of all values listed for prototype kit 370-BJ250-2 shown above	139.95
370-BJ250-3C	1/4 watt carbon comp.	100KΩ-910KΩ	2400	100 ea.: of all values listed for prototype kit 370-BJ250-3 shown above	139.95
370-BJ250-C	1/4 watt carbon comp.	2.2Ω-910KΩ	7200	100 ea.: of the 72 values listed for prototype kits 370-BJ250-1, 370-BJ250-2 & 370-BJ250-3 shown above	249.95
370-271-C	1/4w metal film 1% 50ppm	4.02Ω-1MΩ	14,400	200 ea.: of all values listed for prototype kits 370-271-1, 370-271-2, & 370-271-3 shown above	329.95



Prototype Kits



- Designed for engineers, prototype and repair benches, school labs, short production runs, and hobbyists.
- No guesswork. Our kits spell out exactly what you get.
- Production quantities of all listed components are in stock. Call for Quote.
- Compare kits on this page with anyone else's and you will see why quality, price, selection, and convenience are reasons to purchase component kits from Mouser.

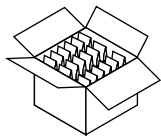
Capacitor Kits

MOUSER STOCK NO.	Type	Range of Values	Pieces in Each Kit	Description	Price Each
370-540-1	Tantalum, ±10%, 6.3-35 volt, radial	.1-100µF	120	10 each: .1, .15, .22, .33, .47, .68 (35WVDC), 5 each: 1.0 (35WVDC), 2.2, 4.7, 10, (25WVDC), 3.3, 4.7, 6.8, 22, (16WVDC), 33, (10WVDC), 15, 47, 100 (6.3WVDC)	49.95
370-140PFK-1	Polyester, ±10%, 100 volt, radial	.001-.47µF	175	10 each: .001, .0015, .002, .0022, .0033, .005, .01, .015, .02, .022, .033, .047, .05, .068, .1, .15, .22, 5 each: .47	23.95
370-140PFF-1	Polyester, ±2%, 100 volt, radial	.001-.1µF	120	10 each: .001, .0015, .0022, .0033, .0047, .01, .015, .022, .033, .047, .068, .1	49.95
370-GP50-1	Ceramic disc, 50 volt, radial	5pF-.1µF	360	20 each: 5, 10, 22, 33, 47, 68, 100, 220, 270, 330, 470, 500pF, .001, .002, .005, .01, .05, .1	29.95
370-GP500-1	Ceramic disc, 500 volt radial	5pF-.02µF	360	20 each: 5, 10, 22, 33, 47, 68, 82, 100, 220, 270, 330, 470, 500pF, .001, .002, .005, .01, .02	29.95
370-208-25	Miniature electrolytic radial	1-1,000µF	85	10 each: 1, 2.2, 3.3, 4.7, 10 (50WVDC), 5 each: 22 (50WVDC), 33, 47 (35WVDC), 100, 220, 470, 1000 (25WVDC)	33.95
370-PS-1	Polystyrene film, ±5%, 50WVDC	100-820pF	120	10 each: 100, 120, 150, 180, 220, 270, 330, 390, 470, 560, 680, 820 (axial leads)	24.95
370-PS-2	Polystyrene film, ±5%, 50WVDC	.001-.01µF	120	10 each: .001, .0012, .0015, .0018, .002, .0022, .0027, .0033, .0039, .005, .0068, .01 (axial leads)	24.95
370-140XAL-1	Miniature electrolytic axial	.47-1000µF	80	10 each: .47, 1.0 (50V), 5 each: 2.2, 3.3, 4.7, 10, 20, 220, (50V), 33, 470, (35VDC), 47, 100, 330, 1000, (25VDC)	29.95
370-140XAL-2	Miniature electrolytic axial	220-4700µF	25	5 each: 220 (50VDC), 330 (25VDC), 3 each: 470 (35VDC), 1000 (25VDC), 1000 (50VDC)	29.95
370-140XRL-1	Miniature electrolytic radial	1-1000µF	80	10 each: 1, 2.2, 4.7, 22 (50V), 10 each: 10, 47 (35V) 5 each: 100, 470, 1000 (50V), 220 (35V)	29.95
370-140MLR-1	Micro-miniature Electrolytic radial	.1-220µF	150	10 each: .1, .22, .33, .47, 1.0, 2.2, 3.3, 4.7, 10 (50V), 4.7, 22 (35V), 33 (25V), 47, 100 (16V), 220 (10V)	49.95
370-5982-1	Dipped Mica, ±5%	1-2000pF	120	5 each: 1, 2, 3 (300V), 5 each: 5, 10, 22, 33, 39, 47, 56, 75, 100, 220, 270, 330, 390, 470, 560, 680, 820, 1000, 1200, 1500, 2000, (500V)	86.25
5987-KIT3	SMT Polymer Alum., Low ESR	4.7-33µF	36	6 each: 33, 47, (6.3V), 6 each: 22, (8V), 6 each: 10, (12.5V), 6 each: 4.7, 6.8, (16V)	66.80

"C-PAC" ASSORTMENT

Capacitor Kits

"C-PAC" kits are the same as above but are packaged with 100 or 200 of each value.



MOUSER STOCK NO.	Type	Range of Values	Pieces in Each Kit	Description	Price Each
370-140PFK-C1	100V±10% polyester	.001-.005µF	600	100 each: .001, .0015, .002, .0022, .0033, .005	28.95
370-140PFK-C2	100V±10% polyester	.01-.047µF	600	100 each: .01, .015, .02, .022, .033, .047	36.95
370-140PFK-C3	100V±10% polyester	.05-.047µF	600	100 each: .05, .068, .1, .15, .22, .47	89.95
370-140PFK-C	100V±10% polyester	.001-.047µF	1800	100 each: All values listed above	134.95
370-GP50-C	50V ceramic disc	5pF-.1µF	3600	200 each: All values listed above in 370-GP50-1	89.95

Component Kits

MOUSER STOCK NO.	Type	Range of Values	Pieces in Each Kit	Description	Price Each
370-159-1	Solderless connectors	-----	180	18 types of connectors and disconnects, insulated	14.95
370-159-2	Solderless connectors	-----	180	18 types of connects and disconnects, non-insulated	14.95
370-333-1N1	Diode/rectifiers (1 amp)	50-1000PRV	140	20 each: 1N4001, 1N4002, 1N4003, 1N4004, 1N4005, 1N4006, 1N4007	29.95
370-LED-2	Light emitting diodes	-----	180	18 types T1, T 1 3/4, rectangle and square, clear and diffused lenses	33.95
370-333Z-1	Zener diodes (500mW)	5.6-24 Volt	100	5 each: of 20 values 5.6 to 24 volts, ±5%	33.95
370-332-1	Microprocessor crystals	23 types	46	2 each: 3.2768, 3.579545, 3.93216, 4.0, 4.096, 4.194304, 4.433, 4.9152, 5.0, 5.0688, 6.0, 6.144, 6.5536, 8.0, 10.0, 12.0, 12.069, 14.31818, 16.0, 18.0, 18.432, 19.2, 20.0MHz	89.95
370-44FM-1	Metric fuse kit	.5-10 amp	60	10 each: .5, 1, 2, 3, 5 and 10 amp	12.95
370-44FP-1	Standard fast acting fuses	1/4-5 amp	180	30 each: .25, .50, 1.0, 2.0, 3.0, 5.0 amp 250 volt	23.95
370-MOV-1	Metal oxide varistor kit	48-510V	25	3 each: VZA series: 48, 130, 150; VZC series: 130, 150; 2 each: VZC series: 250; VZD series: 130, 150, 275, 510	32.95
370-NTC-T2	NTC thermistors	100Ω to 50KΩ	60	5 each: 100, 200, 300, 500, 1K, 2K, 3K, 5K, 10K, 15K, 20K, 50K @ 25°C	29.95
370-RFC-1	RF choke (43LR series)	.22-1000µH	180	10 each: .22, .47, 1.0, 2.2, 3.3, 4.7, 10, 15, 22, 33, 47, 68, 100, 220, 330, 470, 680, 1000µH	49.95
370-EMCC	Epoxy miniature choke coils	.15µH to 1000µH	240	10 each: .15, .22, .33, .47, .68, 1.0, 1.5, 2.2, 3.3, 4.7, 6.8, 10, 15, 22, 33, 47, 68, 100, 150, 220, 330, 470, 680, 1000µH	89.95
370-ESCC	Epoxy small choke coils	.33 to 1000µH	240	10 each: .33, .47, .68, 1.0, 1.5, 2.2, 3.3, 4.7, 6.8, 10, 12, 15, 18, 22, 27, 33, 47, 100, 150, 220, 330, 470, 680, and 1000µH	89.95
370-TPV-1	Trim pots 6, 8, 10mm vertical	1KΩ to 500KΩ	180	10 each: 321-2100 series 6mm: 1K, 5K, 10K, 50K, 100K, 500K, (.05W) .32RM series 8mm: 1K, 5K, 10K, 100K, 500K, (.1W) 32R series 10mm: 1K, 5K, 10K, 50K, 100K, 500K, (.1W)	69.95
370-PT10	Trim pots 10mm, vert. & horiz.	500 to 500KΩ	180	10 each: 500, 1K, 5K, 10K, 25K, 50K, 100K, 250K, and 500K in both horizontal and vertical mount	69.95
370-TPH-1	Trim pots 6, 8, 10mm horizontal	1KΩ to 500KΩ	180	10 each: 321-2000 series 6mm: 1K, 5K, 10K, 50K, 100K, 500K, (.05W) 32RH series 8mm: 1K, 5K, 10K, 50K, 100K, 500K (.1W) 32R series 10mm: 1K, 5K, 10K, 50K, 100K, 500K, (.1W)	69.95
370-LIN-1	Linear IC kit	-----	76	5 each: LM311, LM324, LM339, LF353, LM358, LM393, NE555, NE556, MC1488, MC1489, ULN2003A	69.95
370-TRA-1	Transistors	-----	180	3 each: LF347, LF356, LM741, LM1458, CA3130, CA3140, CA3059	39.95
370-511-1	Transistors, power, TO-220	-----	90	5 each: MJE3055T, MJE13005, MJE13007, TIP29, TIP29C, TIP30, TIP31C, TIP32, TIP32C, TIP41C, TIP42, TIP42C, TIP48, TIP120, TIP121, TIP122, TIP125, and TIP131	89.99
370-SMD-1	Surface mount diode rectifiers	1amp, 50-800PRV	60	10 each: 1N4001, 1N4002, 1N4003, 1N4004, 1N4005, 1N4006	29.95
370-331-1	1 amp DIP silicon bridge rectifiers	50-800PRV	30	5 each: 50, 100, 200, 400, 600, 800PRV	29.95
370-VRG-1	Voltage regulator IC kit	5V-18V, variable	72	4 each: 7805, 7805A, 78M05, 78S05, 7905, 7808, 7908, 7812, 7812A, 78S12, 7912, 7815, 7915A, 7818, 7918, LM317T, LM337, LM723	59.95
370-331-2	200 PRV silicon bridge rectifiers	1-15 amp	80	10 each: 1, 1.5, 2, 3, 4, 6, 10, 15 (200PRV)	159.95
370-526-1	Semiconductor	-----	155	NTE replacements, 25 different types (replaces 63,703 devices)	249.95
370-526-2	Semiconductor	-----	125	NTE replacements, 25 different types (replaces 20,251 devices)	219.50
370-164-1	Binding post kit	-----	40	10 each: Red and black; 5 each: Blue, green, white, and yellow	49.95
561-M1991	Transistor hardware, nylon	-----	180	Assortment: 17 styles and configurations	28.33
561-M1992	Spacers/standoffs, nylon	-----	340	Assortment: 40 sizes and types	46.66
561-M1993	Shoulder washers, nylon	-----	300	Assortment: 30 sizes and types	28.33
561-M1994	PCB posts, nylon	-----	700	Assortment: 10 sizes and types	46.66
561-M1995	Cable clips, nylon	-----	140	Assortment: 15 sizes and types	28.33
561-M1996	Cable clamps, nylon	-----	290	Assortment: 18 sizes	46.66
561-M1997	Flat washers, nylon	-----	500	Assortment: over 40 sizes	28.33
561-M1998	Screws & nuts, nylon	-----	750	Assortment: over 40 sizes	46.66
561-M1999	Strain relief	-----	108	9 each: of the 12 most popular series	28.33
524-11-528	Metric hardware kit	2-4mm	108	2.0, 2.6, 3.0, and 4mm hardware	44.24
383-1425	Color coded wire jumper kit	#22 AWG	560	25 pieces of 14 lengths #22 AWG solid	12.58
538-KK-100	Modular interconnection kit	.100"	---	Designer/service kit for .100" center, K.K. series modular connectors	39.95
538-KK-156	Modular interconnection kit	.156"	---	Designer/service kit for .156" center, K.K. series modular connectors	39.95