

UHF TV/LINEAR TRANSISTORS

SGS-THOMSON UHF TV/Linear transistors are specifically designed for television broadcast transmitters requiring ultra high linearity. Refractory/gold metallization is employed for maximum device ruggedness and high efficiency microwave die geometries are utilized to achieve high gain performance.

470-860 MHz CLASS A, COMMON EMITTER, UHF TV-BANDS

PART NUMBER	FREQ. (MHz)	P _{OUT} MIN (W)	P _{IN} (W)	GAIN MIN (dB)	BIAS		IMD 3 TONES (dBC)	R _{TH(j-c)} MAX (°C/W)	C _{OB} MAX (pF)	PACKAGE STYLE
					V _{CE} (V)	I _C (mA)				
SD1439	860	.5	0.56	9.5	20	220	-58	5.5	5	M122
SD1449	860	1	0.1	10	20	440	-58	9.0	7	M122
SD1437	860	2	0.3	8.5	25	450	-60	11	10	M122
SD1448	860	4	0.8	7	25	850	-60	5.5	20	M122
SD4011	860	4	0.63	8.0	25	850	-60	5.5	20	M122
SD1732	860	14	1.2	8.5	25	2 x 850	-45	2.5	17.5*	M156
SD4010	860	20	2.2	9.5	26.5	2 x 1350	-48	1.9	36	M119
SD1490	860	25	4.0	8.0	25	2 x 1600	-45	1.3	80	M173

* Typical Value

P/N CROSS REFERENCE	
INDUSTRY P/N	SD P/N
TCC596	SD1439
TCC597	SD1449
TCC593	SD1437

P/N CROSS REFERENCE	
INDUSTRY P/N	SD P/N
TCC598	SD1448
TDS595	SD1732

470-860 MHz CLASS AB, COMMON EMITTER, UHF TV-BANDS

PART NUMBER	FREQ. (MHz)	P _{OUT} MIN (W)	P _{IN} (W)	GAIN MIN (dB)	BIAS		η _C MIN (%)	R _{TH(j-c)} MAX (°C/W)	C _{OB} MAX (pF)	PACKAGE STYLE
					V _{CE} (V)	I _C (mA)				
SD1489	860	50	10.5	6.8	28	2 x 250	45	1.0	70*	M173
SD1492	860	150	33.5	6.5	28	2 x 500	45	0.55	100	M175
SD4100	860	100	14.0	8.5	28	2 x 100	53	0.8	50*	M173
TSD4200 [‡]	860	150	21.0	8.5	28	2 x 200	—	0.6	75*	M208

*Typical Value

[‡] In Development