

# 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 <sub>OUT</sub> MIN (W)	P <sub>IN</sub> (W)	GAIN MIN (dB)	BIAS		IMD 3 TONES (dBC)	R <sub>TH(j-c)</sub> MAX (°C/W)	C <sub>OB</sub> MAX (pF)	PACKAGE STYLE
					V <sub>CE</sub> (V)	I <sub>C</sub> (mA)				
<a href="#">SD1439</a>	860	.5	0.56	9.5	20	220	-58	5.5	5	M122
<a href="#">SD1449</a>	860	1	0.1	10	20	440	-58	9.0	7	M122
<a href="#">SD1437</a>	860	2	0.3	8.5	25	450	-60	11	10	M122
<a href="#">SD1448</a>	860	4	0.8	7	25	850	-60	5.5	20	M122
<a href="#">SD4011</a>	860	4	0.63	8.0	25	850	-60	5.5	20	M122
<a href="#">SD1732</a>	860	14	1.2	8.5	25	2 x 850	-45	2.5	17.5*	M156
<a href="#">SD4010</a>	860	20	2.2	9.5	26.5	2 x 1350	-48	1.9	36	M119
<a href="#">SD1490</a>	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	<a href="#">SD1439</a>
TCC597	<a href="#">SD1449</a>
TCC593	<a href="#">SD1437</a>

P/N CROSS REFERENCE	
INDUSTRY P/N	SD P/N
<a href="#">TCC598</a>	<a href="#">SD1448</a>
TDS595	<a href="#">SD1732</a>

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

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

\*Typical Value

<sup>‡</sup> In Development