

RF Transistors for Broadcast Applications

SGS-Thomson

55-108MHz Class C for FM Transmitters and Class AB for VHF-TV Band I

Type	Package	Config.	V _{cc} (V)	P _{out} (W)	f _o (MHz)	P _{in} (W)	G _p (dB)	nc (%)
SD1476**	2X.450 SQ 4LFL	CE	28	240	55-88	20	11	50
SD1476	2X.450 SQ 4LFL	CE	32	240	55-88	15	12	50
SD1457	.500 4LFL	CE	28	75	108	7.5	10	75
SD1460	.500 4LFL	CE	28	160	108	20	9	75
SD1483	2X.450 SQ 4LFL	CE	28	250	108	25	10	55

** In development, Class AB Icq = 2 X 400 mA

Linear Transistors for TV Applications, Band III

Type	Package	Config.	Bias V _i /I ₁ (V)(mA)	P _{out} min (W)	f _o (MHz)	P _{in} (W)	G _p min (dB)	IMD (3 tones) (dB)
SD1455	.500 4L STUD	CE	28/2500	14	225	1.75	9	-55
SD1458*	.500 6LFL	CE	28/2500	14	225	0.6	14	-53
SD1459	.550 4L STUD	CE	28/3500	30	225	5.3	7.5	-53
TCC3100	.400BAL FL	CE	28/2x100	100	225	10	11	-
SD1485**	2X.450 SQ 4LFL	CE	28/2x250	200	230	25	9	-

* Internally input matched ** Class AB

Linear Transistors for TV Applications, Bands IV and V

Type	Package	Config.	Bias V _i /I ₁ (V)(mA)	P _{out} min (W)	f _o (MHz)	P _{in} (W)	G _p min (dB)	IMD (3 tones) (dB)
TCC598	.280 4L STUD (C)	CE	25/850	4	860	0.8	7	-58
SD1490	.438 4L BAL FLG	CE	28/2x1500	15	860	1.9	9.0	-58
SD1489*	.438 4L BAL FLG	CE	28/2x150	50	860	10.5	6.5	-
SD1492	2X.450 SQ 4LFL	CE	28/2x250	150	860	30	7.0	-

*Class AB (in development)

Additional Popular RF Transistors

10AM05	47001	BLV31	C12-28	CD2212	CM80-28
10AM11	47003	BLV32F	C2M100-28	CD2315	CM80-28R
10AM20	47008	BLV33	C2M100-28A	CD2336	D1-12B
2N5016	47026	BLV33F	C2M60-28	CD2337	D1-28
2N5070	47027	BLV36	C40-28A	CD2434	D1-28Z
2N5071	47028	BLV57	C50-28	CD2435	D10-28
2N5641	47046	BLW31	CA2666	CD2711	D2-12B
2N5642	8M0B5	BLW32	CA2810	CD2713	D20-28
2N5643	8M0B15	BLW33	CA2818	CD2810	D2B0
2N5919/2N5919A	A5919	BLW34	CA2820	CD2811	D3-28
2N6166	BAM40SR	BLW64C3	CA2830	CD2812	DHP10-14-15
2N6197	BAM80	BLW75	CA2832	CD2813	DHP10-32-08
2N6198	BFR34A	BLW76	CA2840	CD3100	DM15-12BA
2N6199	BFR65	BLW78	CA2842	CD3262	DM20-12BA
2N6439	BFR90	BLW95	CA2842B	CD3400	DM5-12B
2N6572	BFR91	BLW95M	CA2870	CD3401	DM5-12BA
3729685-2	BFR94	BLW98	CA4418	CD3403	DMB10-12
3729784-1	BFR96	BLX15CF	CA4800	CD3745	DMB5-12
44075	BFR96S	BLX95	CA4812	CD3849MP	E1E5
44085	BFW16A	BLX96	CA5501	CD4633	H100-50
44088	BFX89	BLX97	CA5700	CD4785	H175-50
443766	BFY90	BLX98	CA5800	CD5919	IT1001A
46100	BGY32	BLY94	CD1144	CD5919A	MHW1222
46101	BGY33	BM100-28	CD1193	CHE/CHEO	MHW1224
46104	BGY41B	BYI-1	CD1752	CM10-12A	MHW1341
46110	BGY47A	C1-12	CD1752MP	CM45-12A	MHW1342
46120	BLV25	C1-12Z	CD1979	CM60-12A	MHW252