DISCRETE AMPLIFIERS

TYPE NUMBER	FREQUENCY (MHz)	SUPPLY VOLTAGE (V)	LOAD POWER (W)	POWER GAIN (dB) MIN.	EFFICIENCY (%)		THERMAL RESISTANCE[3] (K/W)	PACKAGE
					MIN.	TYP.		
ANALOG CELLULAR								
BLT80	900	7.5	0.8	6	60	67	22[4]	SOT223
BLT81	900	7.5	1.2	6	60	70	32[5]	SOT223
BLT80	900	6.0	0.8	7 (typ.)		70	22[4]	SOT223
BLT81	900	6.0	1.2	6.5 (typ.)		70	32[5]	SOT223
BLT70	900	4.8	0.6	6	60		39[6]	SOT223
BLT71	900	4.8	1.2	6	60		24[7]	SOT223
BLT71/8	900	4.8	1.2	11	55	63	50	SOT96
BLT61[2]	900	3.6	1.2	10	50	63	35[8]	SOT96 (SO8pl)
DIGITAL CELLULAR/CORDLESS								
BFG540W	900	6	18 dBm	18				SOT343
BFG540W	1900	3.6	14 dBm	11				SOT343
BFG10W/x	900	6	28 dBm	10				SOT343
BFG10W/x	1900	3.6	20 dBm	6				SOT343
BFG11W/x	1900	3.6	26 dBm	6				SOT343
BFG21W	1900	3.6	0.4	11	50			SOT343
BLT82	900	6.0	3.5	8	50	65	32[9]	SOT96 (SO8pl)

APPLICATION	SUPPLY VOLTAGE (V)	LOAD POWER (W)	1st STAGE	2nd STAGE	3rd STAGE
Analog	6.0	1.2	BFG540W/x	BLT80	BLT81*
	4.8	1.2	BFG540W/x	BLT70	BLT71
	3.6	1.2	BFG520W/x	BFG10W/x	BLT61
	4.8	1.2	BFG10W/x	BLT71/8	
GSM	6.0	3.5	BFG520W/x	BFG10W/x	BLT82
DECT, PHS	3.6	0.4	BFG540/x BFG540W/x BFG425W	BFG10/x BFG10W/x BFG21W	BFG11/x BFG11W/x

Notes

1. Objective specification
2. Preliminary specification
3. Junction to soldering joint
4. P_{tot} = 2 W, T_g = 131 °C
5. P_{tot} = 2 W, T_g = 110 °C
6. P_{tot} = 2 W, T_g = 95 °C
7. P_{tot} = 3.5 W, T_g = 90 °C
8. P_{tot} = 2 W, T_g = 115 °C
9. P_{tot} = 1.9 W, T_g = 115 °C
10. P_{tot} = 1.9 W, T_g = 115 °C
11. P_{tot} = 1 W, T_g = 130 °C.