

CELLULAR BASESTATIONS

RF POWER TRANSISTORS & MODULES For All Cellular Standards

RF POWER MODULES							
Type	Package	Mode of Operation	f (MHz)	P _L (W)	G _p (dB)	η (%)	V (V)
LDMOS							
BGF802-20	SOT365C	CW CDMA	869 - 894	25 3 avg	30	50 18	28
BGF844	SOT365C	CW EDGE	869 - 894	23 2.5 avg	30	50 16	26
BGF944	SOT365C	CW EDGE	920 - 960	17 2.5 avg	30	50 16	26
BGF1801-10	SOT365C	CW EDGE	1805 - 1880	10 3.5	26	35 20	26
BGF1901-10	SOT365C	CW EDGE	1930 - 1990	10 3.5	26	35 20	26
BIPOLAR							
BGY916	SOT365A	CW	920 - 960	16	30	40	26
BGY915/5	SOT365A	CW	920 - 960	16	30	40	26
BGY925	SOT365A	CW	920 - 960	23	30	30	26
BGY925/5	SOT365A	CW	920 - 960	23	30	30	26
BGY2016	SOT365A	CW	1800 - 2000	16	30	30	26

LDMOS RF POWER TRANSISTORS							
Type	Package	Mode of Operation	f (MHz)	P _L (W)	G _p (dB)	η (%)	V (V)
BLF1043	SOT538A	CW, class AB	800 - 1000	10	18.5	55	26
BLF1046	SOT467C / B	CW, class AB	HF - 1000	50	16	60	26
BLF2043	SOT538A	CW, class AB	HF - 2000	12	12	40	26
BLF1822-10	SOT467C / B	CW, class AB	HF - 2200	12	13	40	26
BLF1820-90	SOT502A / B	2-Tone, class AB	1800 - 2000	90	12	40	26

ULTRA LINEAR LDMOS DRIVERS - IMD3 < -50 dB @ P _{obo} > 6dB							
Type	Package	Mode of Operation	f (MHz)	P _L (W)	G _p (dB)	η (%)	V (V)
BLF3G21-6	SOT538A	2-Tone, class AB PHS, class A *	HF - 2200	6	13.5	35	26
				2	16	20	
BLF3G21-30	SOT467C / B	2-Tone, class AB PHS, class A *	HF - 2200	30	13.5	35	26
				9	16	20	
BLF3G22-30	SOT608A / B	2-Tone, class AB PHS, class A * W-CDMA / UMTS	2000 - 2200	30	14	34	26
				10	16	20	
				6.5	15	21	

* ACPR < -75 dBc @ 600 kHz

HIGH EFFICIENCY LDMOS TRANSISTORS							
Type	Package	Mode of Operation	f (MHz)	P _L (W)	G _p (dB)	η (%)	V (V)
BLF4G10-120	SOT502A / B	CW, class AB EDGE	800 - 1000	120	19	57	28
				50 avg		41	
BLF4G10-160	SOT502A / B	CW, class AB EDGE	800 - 1000	210	18	57	28
				80 avg		43	
BLF4G20-110B	SOT502A / B	CW, class AB EDGE	1800 - 2000	110	12.2	47	28
				50 avg		13	
BLF4G20-130	SOT502A / B	CW, class AB EDGE	1800 - 2000	150	13	55	28
				55		14	
BLF4G22-45	SOT608A / B	W-CDMA / UMTS	2000 - 2200	10 avg	13.5	26	28
BLF4G22-100	SOT502A / B	W-CDMA / UMTS	2000 - 2200	25 avg	13.5	26	28
BLF4G22-130	SOT502A / B	W-CDMA / UMTS	2000 - 2200	33 avg	13.5	26	28
BLC5G10-120	SOT502A / B	CW, class AB EDGE	800 - 1000	135	22	60	28
				50 avg		40	
BLC5G20-75	SOT502A / B	CW, class AB EDGE	1800 - 2000	75	18	60	28
				30 avg		40	
BLC5G20-110	SOT502A / B	CW, class AB EDGE	1800 - 2000	120	18	60	28
				50 avg		40	
BLC5G20-130	SOT502A / B	CW, class AB EDGE	1800 - 2000	135	17.5	60	28
				55 avg		40	
BLC5G22-100	SOT502A / B	W-CDMA / UMTS	2000 - 2200	26 avg	18.5	30	28
BLC5G22-130	SOT502A / B	W-CDMA / UMTS	2000 - 2200	31 avg	17	30	28

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LDMOS MMIC							
Type	Package	Mode of Operation	f (MHz)	P _L (W)	G _p (dB)	η (%)	V (V)
BLM4G10-30	SOT822 / HSOP20	EDGE CDMA	800 - 1000	5 avg	29 30	18	26
BLM4G20A-18	SOT822 / HSOP20	EDGE	1800 - 2000	5 avg	24	20	26
BLM4G22-30	SOT822 / HSOP20	W-CDMA / UMTS	2100 - 2200	2 - 3 (tbd)	23 - 24	11 @ 2W	28
BLM4G22-45	ceramic tbd	W-CDMA / UMTS	2100 - 2200	4 - 5 (tbd)	23 - 24	18	28

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