

RF AMPLIFIER

MODEL BXMP1026

Medium Power Amplifier

Available As: BXMP1026, Connectorized Housing

Features

- High Power Output: Greater Than 2 Watts
- High Third Order Intercept: +43 dBm Typical
- High Gain: 31 dB Typical

Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point +66 dBm (Typ.)
 Second Order Two Tone Intercept Point +63 dBm (Typ.)
 Third Order Two Tone Intercept Point. +43 dBm (Typ.)

Specifications

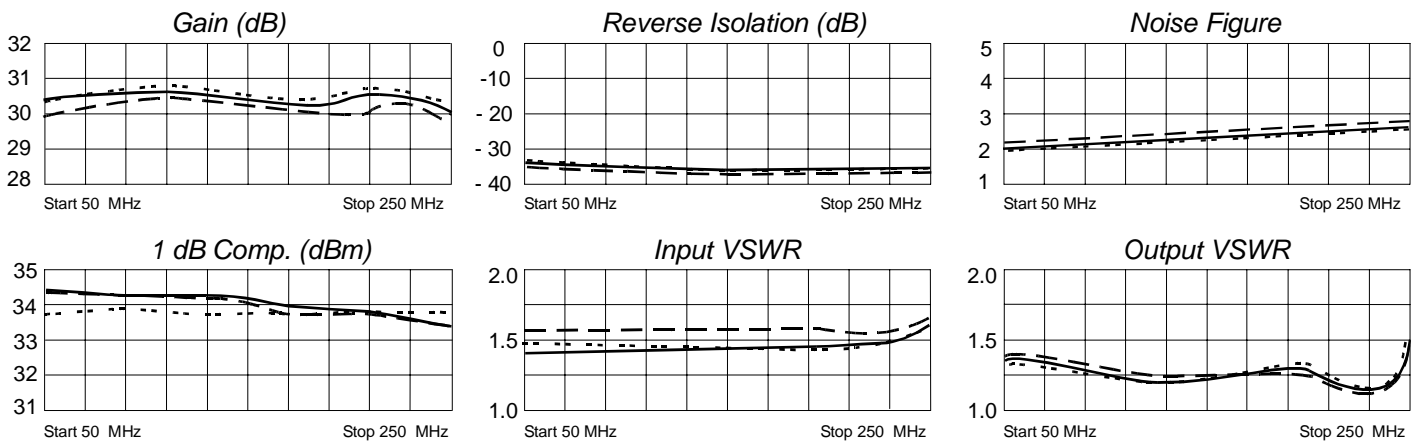
CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = 0 °C to +60 °C
Frequency (MHz)	50 - 250 MHz	50 - 250 MHz
Gain (dB)	31.0	29.0 Min.
Power @ 1 dB Comp. (dBm)	33.5	33 Min.
Reverse Isolation (dB)	-38	-35 Max.
VSWR In	1.8:1	2:0:1 Max.
Out	1.8:1	2:0:1 Max.
Noise figure (dB)	3.5	4.5 Max.
Power Vdc	+15	+15
mA	660	700 Max.

Maximum (No Damage) Ratings

Ambient Operating Temperature -30°C to + 85 °C
 Storage Temperature -62°C to + 125 °C
 Case Temperature + 150 °C
 DC Voltage + 18 Volts
 Continuous RF Input Power + 18 dBm
 Short Term RF Input Power ... 200 Milliwatts (1 Minute Max.)
 Maximum Peak Power 0.2 Watt (3 μsec Max.)

Note: Care should always be taken to effectively ground the case of each unit.

Typical Performance Data



Legend ——— + 25 °C - - - - + 60°C ······ 0 °C

Linear S-Parameters

Freq. MHz	---S11---		---S21---		---S12---		---S22---	
	Mag	Deg	Mag	Deg	Mag	Deg	Mag	Deg
50	.21	30	31.97	-43	.0098	147	.13	129
70	.20	-38	31.53	-65	.0092	134	.09	116
90	.20	-47	31.30	-85	.0094	113	.04	94
110	.20	-58	31.19	-106	.0100	92	.02	-51
130	.19	-68	30.95	-216	.0095	81	.07	-91
150	.18	-77	30.85	-147	.0097	59	.12	-109
170	.17	-85	30.80	-167	.0097	40	.16	-125
190	.16	-90	30.84	173	.0108	36	.19	-142
210	.16	-94	31.07	153	.0100	4	.20	-160
230	.18	-98	31.39	132	.0113	-4	.20	179
250	.21	-106	31.94	110	.0105	-28	.17	152



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