

# RF AMPLIFIER

## MODEL BXMP1027

Available as: BXMP1027, SMA Connectorized Housing  
3.9" X 3.0" (H-91)

www.DataSheet4U.com

### Features

- n Medium Gain: 10.5 dB Typical
- n High Output Power: 4 Watts Typical
- n High Third Order Intercept: +61 dBm Typical
- n High Second Order Intercept: +95 dBm Typical
- n Operating Temp. - 40 °C to +85 °C
- n Environmental Screening Available

### Specifications

CHARACTERISTIC		TYPICAL Ta= 25 °C	MIN/MAX Ta = -40 °C to +85 °C
Frequency		50 - 500 MHz	50 - 500 MHz
Gain (dB)		10.5	10.0 Min.
Power @ 1 dB Comp. (dBm)		+37.0	+33.5 Min.
Reverse Isolation (dB)		-17.0	-15.0 Max.
VSWR	In	1.5:1	2.0:1 Max.
	Out	1.5:1	2.0:1 Max.
Noise Figure (dB)		4.0	5.5 Max.
Power	Vdc	+15	+15
	m A	2200	2500 Max.

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

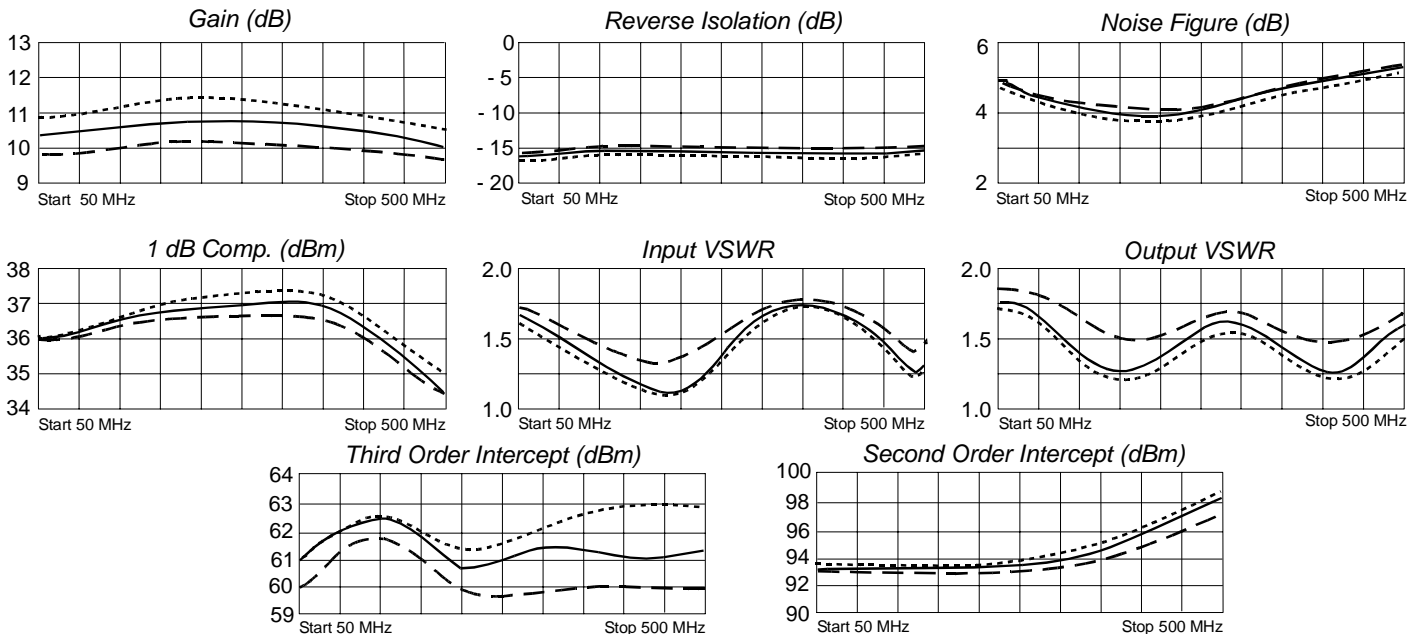
### Typical Intermodulation Performance at 25 ° C

- Second Order Harmonic Intercept Point.....+100 dBm (Typ.)
- Second Order Two Tone Intercept Point.....+95 dBm (Typ.)
- Third Order Two Tone Intercept Point.....+61 dBm (Typ.)

### Maximum Ratings

- Ambient Operating Temperature ..... -45°C to +100 °C
- Storage Temperature ..... -50°C to +125 °C
- Case Temperature ..... +125 °C
- DC Voltage ..... +17 Volts
- Continuous RF Input Power ..... +24 dBm
- Short Term RF Input Power . 400 Milliwatts (1 Minute Max.)
- Maximum Peak Power ..... 0.5 Watt (3 µsec Max.)

### Typical Performance Data



Legend ——— + 25 °C    - - - + 85 °C    ····· -40 °C



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Rev.  
11/9/07