

# RF AMPLIFIER

## MODEL *BXMP1031*

# Medium Power Amplifier

Available as: BXMP1031, SMA Connectorized Housing

www.DataSheet4U.com

### Features

- Ultra High IP2: +73 dBm Typical
- High IP3: +40 dBm Typical
- High Output Power: +28.5 dBm Typical
- Unconditionally Stable

### Specifications

CHARACTERISTICS	Typical	Min/Max
	Ta= 25 °C	Ta = 0 °C to +50 °C
Frequency	50 - 100 MHz	50 - 100 MHz
Gain (dB)	13.5	12 Min.
Power @ 1 dBComp. (dBm)	28.5	26.0 Min.
Reverse Isolation (dB)	-22	-20 Max.
VSWR In	1.5:1	2.0:1 Max.
VSWR Out	1.5:1	2.0:1 Max.
Noise Figure (dB)	5.5	7.5 Max.
Power Vdc	+15	+15
Power mA	250	275 Max.

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

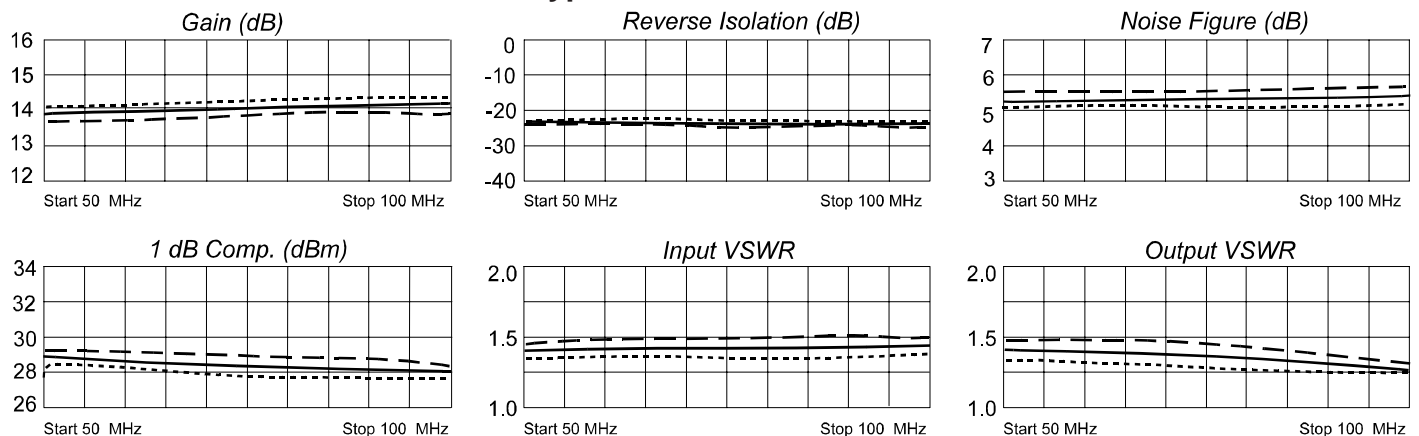
### Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point ..... +77 dBm (Typ.)  
 Second Order Two Tone Intercept Point ..... +73 dBm (Typ.)  
 Third Order Two Tone Intercept Point ..... +40 dBm (Typ.)

### Maximum Ratings

Ambient Operating Temperature ..... -55°C to +100 °C  
 Storage Temperature ..... -62°C to +125 °C  
 Case Temperature ..... +150 °C  
 DC Voltage ..... +18 Volts  
 Continuous RF Input Power ..... +13 dBm  
 Short Term RF Input Power .... 100 Milliwatts (1 Minute Max.)  
 Maximum Peak Power ..... 0.1 Watt (3 μsec Max.)

### Typical Performance Data



Legend ——— + 25 °C    - - - - + 50°C    ······ 0 °C



Spectrum Microwave · 2144 Franklin Drive N.E. · Palm Bay, Florida 32905 · PH (888) 553-7531 · Fax (888) 553-7532

Rev. 11/15/07