

# RF AMPLIFIER

Available as: BXMP1044, SMA Connectorized Housing

## MODEL *BXMP1044*

### Features

- High Gain: 30 dB Typical
- High Second Order Harmonics: +50 dBm Typical
- Unconditionally Stable

### Typical Intermodulation Performance at 25 °C

- Second Order Harmonic Intercept Point ..... +55 dBm (Typ.)
- Second Order Two Tone Intercept Point ..... +50 dBm (Typ.)
- Third Order Two Tone Intercept Point ..... +38 dBm (Typ.)

### Specifications

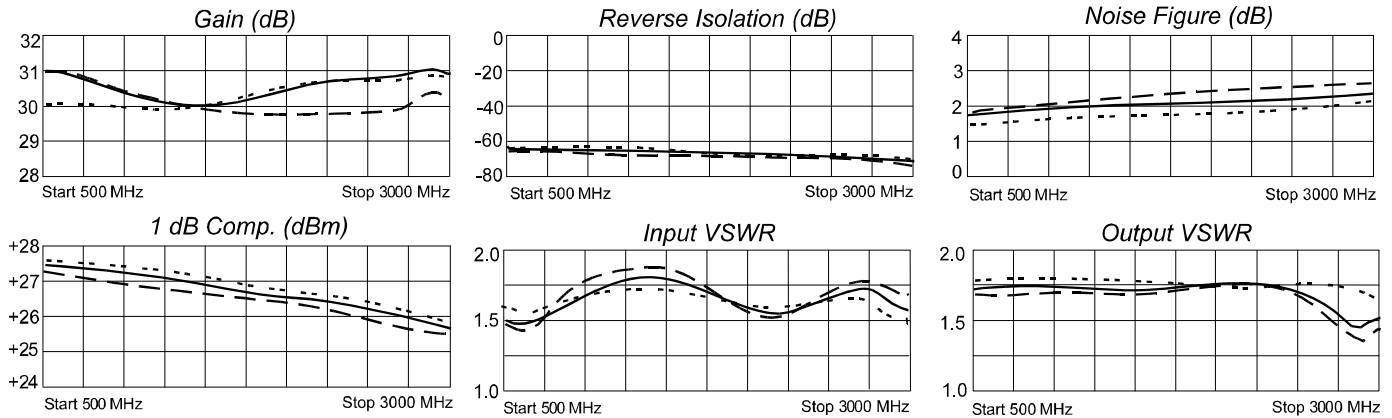
CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = -35 °C to +55 °C
Frequency	500 - 3000 MHz	500 - 3000 MHz
Gain (dB)	30	28.5 Min.
Power @ 1 dB Comp. (dBm)	26	24 Min.
Reverse Isolation (dB)	-60	-40 Max.
VSWR In	1.8:1	2.0:1 Max.
VSWR Out	1.8:1	2.0:1 Max.
Noise Figure (dB)	3.0	3.5 Max.
Power Vdc	+15	+15
mA	370	400 Max.

### Absolute Maximum (No Damage) Ratings

- Ambient Operating Temperature ..... -55°C to +100 °C
- Storage Temperature ..... -62°C to +125 °C
- Maximum Operating Case Temperature ..... +125 °C
- DC Voltage.....+18 Volts
- RF Input Power (No Damage).....+17 dBm
- Short Term RF Input Power.....50 Milliwatts (1 Minute Max.)
- Maximum Peak Power.....0.5 Watt (3 µsec Max.)

Note: Care should always be taken to effectively ground the case of each unit.  
Revision 12/12/2011

### Typical Performance Data



Legend ——— +25 °C    - - - - +55 °C    ······ -35 °C



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