

# RF AMPLIFIER

## MODEL *BXMP1002*

# Medium Power Amplifier

Available as: FPMP1002, 4 Pin .5" Sq. Flatpack  
 WPMP1002, 8 Pin .5" Sq. Surface Mount - Gullwing  
 BXMP1002, SMA Connectorized Housing

### Features

- High Output Power: +30.5 dBm Typical
- High Third Order Intercept: +45 dBm Typical
- Operating Temp. - 55 °C to +85 °C
- Environmental Screening Available

### Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point ..... +60 dBm (Typ.)  
 Second Order Two Tone Intercept Point ..... +54 dBm (Typ.)  
 Third Order Two Tone Intercept Point ..... +45 dBm (Typ.)

### Specifications

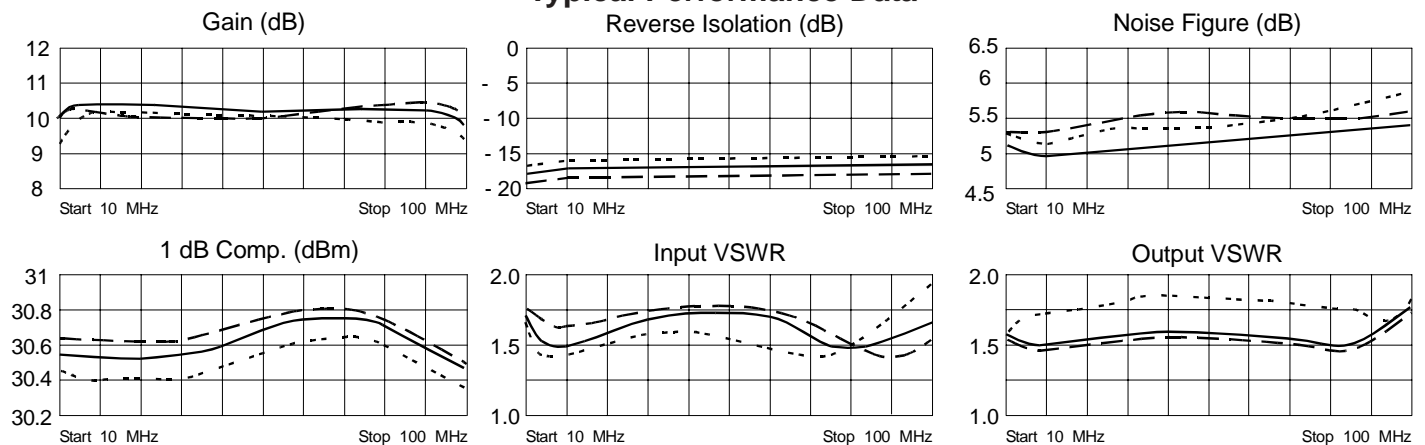
CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	10 - 100 MHz	10 - 100 MHz
Gain (dB)	10	8.5
Power @ 1 dB Comp. (dBm)	+30.5	+30 Min.
Reverse Isolation (dB)	-17	-16 Max.
VSWR In	1.8:1	2.0:1 Max.
Out	1.8:1	2.0:1 Max.
Noise figure (dB)	5.5	6.0 Max.
Power Vdc	+15	+15
mA	320	365

### Maximum (No Damage) Ratings

Ambient Operating Temperature ..... -55°C to + 100 °C  
 Storage Temperature ..... -62°C to + 125 °C  
 Case Temperature ..... + 125 °C  
 DC Voltage ..... + 18 Volts  
 Continuous RF Input Power ..... + 20 dBm  
 Short Term RF Input Power .... 500 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.

### Typical Performance Data



Legend ——— + 25 °C    - - - - + 85 °C    ······ -55 °C



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