

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 www.DataSheet4U.com

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

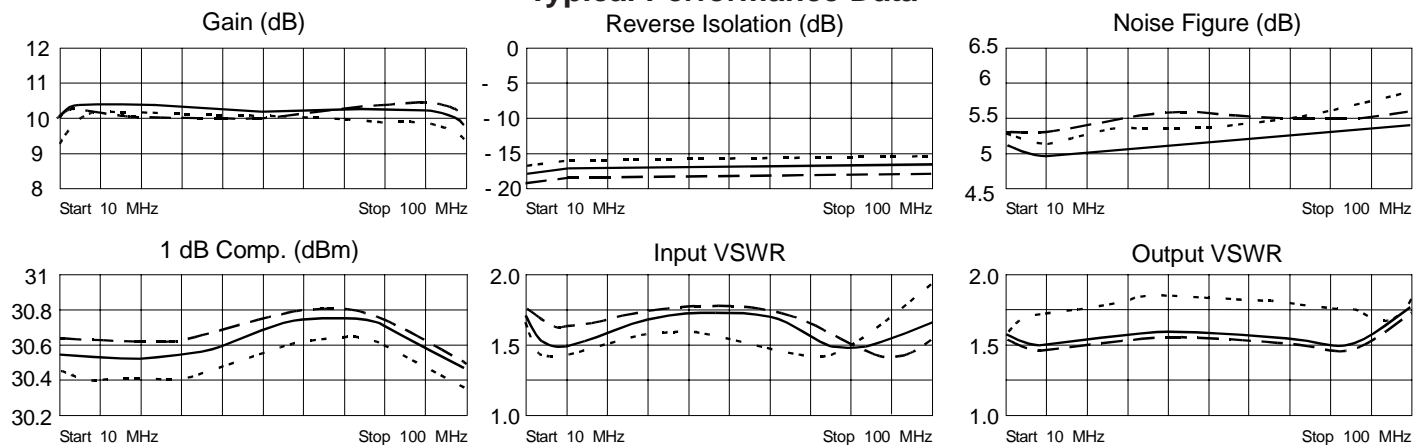
CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	10 - 100 MHz	10 - 100 MHz
Gain (dB)	10	8.5
Power @ 1 dB Comp. (dBm)	+30.5	+30 Min.
Reverse Isolation (dB)	-17	-16 Max.
VSWR In	1.8:1	2.0:1 Max.
Out	1.8:1	2.0:1 Max.
Noise figure (dB)	5.5	6.0 Max.
Power Vdc	+15	+15
mA	320	365

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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