

RF AMPLIFIER

MODEL *BXMP1029*

Medium Power Amplifier

Available as: BXMP1029, SMA Connectorized Housing

Features

- Ultra High Second Order Intercept: +91 dBm Typical
- High Output Power: +31.5 dBm Typical
- Environmental Screening Available

Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point +93 dBm (Typ.)

Second Order Two Tone Intercept Point +91 dBm (Typ.)

Third Order Two Tone Intercept Point +48 dBm (Typ.)

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = 0 °C to +70 °C
Frequency	1 - 35 MHz	1 - 35 MHz
Gain (dB)	12	11 Min.
Power @ 1 dB Comp. (dBm)	31.5	30 Min.
Reverse Isolation (dB)	-15	-14 Max.
VSWR In	1.8:1	2:0:1 Max.
Out	1.8:1	2:0:1 Max.
Noise figure (dB)	4	5.0 Max.
Power Vdc	+15	+15
mA	400	425 Max.

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

Maximum Ratings

Ambient Operating Temperature -55°C to + 100 °C

Storage Temperature -62°C to + 125 °C

Case Temperature + 125 °C

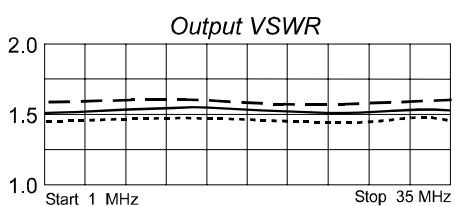
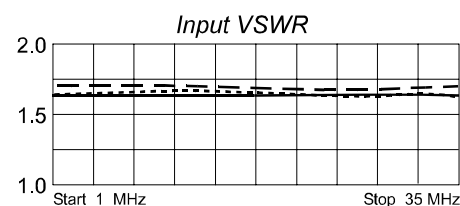
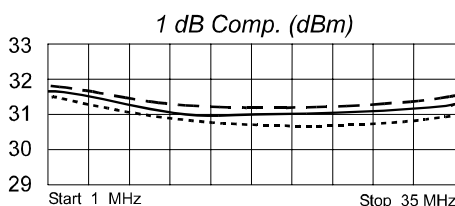
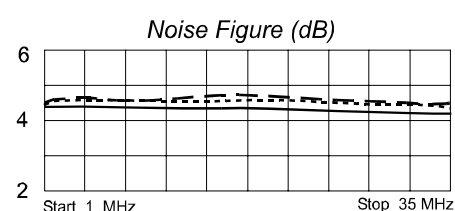
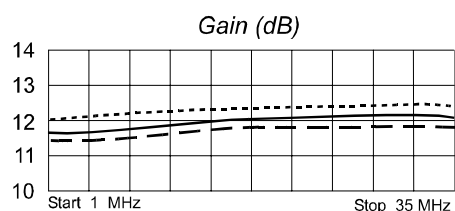
DC Voltage + 18 Volts

Continuous RF Input Power + 13 dBm

Short Term RF Input Power 100 Milliwatts (1 Minute Max.)

Maximum Peak Power 0.5 Watt (3 µsec Max.)

Typical Performance Data



Legend ——— + 25 °C - - - - + 70°C ······ 0 °C



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