

RF AMPLIFIER

Medium Power Amplifier

MODEL *BXMP1033*

Available as: WNMP1033, 10 Pin .625" Sq. Gullwing Surface-Mount (SG4)
 BXMP1033, SMA Connectorized Housing

Features

- High Output Power: +30.5 dBm Typical
- High Third Order Intercept: +47 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 +47 dBm (Typ.)

Specifications

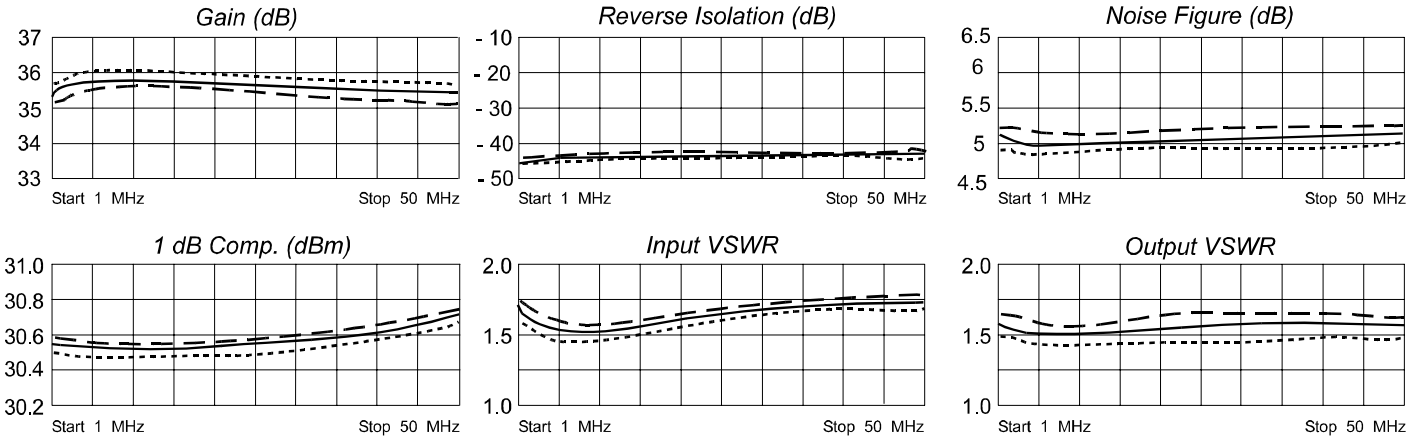
CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	1 - 50 MHz	1 - 50 MHz
Gain (dB)	35	34 Min.
Power @ 1 dB Comp. (dBm)	+30.5	+30 Min.
Reverse Isolation (dB)	-45	-40 Max.
VSWR In	1.8:1	2.0:1 Max.
Out	1.8:1	2.0:1 Max.
Noise figure (dB)	5.5	6.0 Max.
Power Vdc	+15	+15
mA	435	500 Max.

Absolute 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 50 Milliwatts (1 Minute Max.)
 Maximum Peak Power 0.5 Watt (3 μsec Max.)

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

Typical Performance Data



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



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