

RF AMPLIFIER

Medium Power Amplifier

MODEL **BXMP1009**

Available as: BXMP1009, SMA Connectorized Housing (H-98)
WNMP1009, 10 Pin .625" Sq. Surface Mount (SG4)

Features

- High Second Order Intercept: +70 dBm Typical
- Higher Gain: +18 dB Typical
- Operating Temp. - 55°C to + 85°C

Typical Intermodulation Performance at 25 ° C

Second Order Harmonic Intercept Point +73 dBm (Typ.)
Second Order Two Tone Intercept Point +70 dBm (Typ.)
Third Order Two Tone Intercept Point +36 dBm (Typ.)

Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	5-500 MHz	5-500 MHz
Gain (dB)	18	17 Min.
Power @ 1 dB Comp. (dBm)	22	20 Min.
Reverse Isolation (dB)	-26	-24 Max.
VSWR In	1.5:1	2:0:1 Max.
Out	1.5:1	2:0:1 Max.
Noise Figure (dB)	4.5	5.5 Max.
Power Vdc	+15 V	+15 V
mA	160	165 Max.

Maximum (No Damage) Ratings

Ambient Operating Temperature -55°C to + 85 °C
Storage Temperature -62°C to + 125 °C
Case Temperature + 25 °C
DC Voltage + 18 Volts
Continuous RF Input Power + 13 dBm
Short Term RF Input Power ... 200 Milliwatts (1 Minute Max.)
Maximum Peak Power 0.2 Watt (3 μsec Max.)

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

Typical Performance Data

