

# 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

