

# RF AMPLIFIER

## MODEL BXMP1034

Available as: BXMP1034, SMA Connectorized Housing

### Features

- High Output Power: +36 dBm Typical
- High Third Order Intercept: +61 dBm Typical
- High Second Order Intercept: +90 dBm Typical
- Operating Temp. - 55 °C to +85 °C
- Environmental Screening Available

### Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point.....+95 dBm (Typ.)  
 Second Order Two Tone Intercept Point.....+90 dBm (Typ.)  
 Third Order Two Tone Intercept Point.....+61 dBm (Typ.)

### Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	50 - 450 MHz	50 - 450 MHz
Gain (dB)	11.0	10.0 Min.
Power @ 1 dB Comp. (dBm)	+36.0	+35.0 Min.
Reverse Isolation (dB)	-17.0	-15.0 Max.
VSWR In	1.9:1	2.0:1 Max.
Out	1.9:1	2.0:1 Max.
Output Intercept point: 3rd Order	+62	+59 Min.
2nd Order	+90	+85 Min.
Noise figure (dB)	5.5	7.0 Max.
Power Vdc	+15	+15
m A	2500	3000 Max.

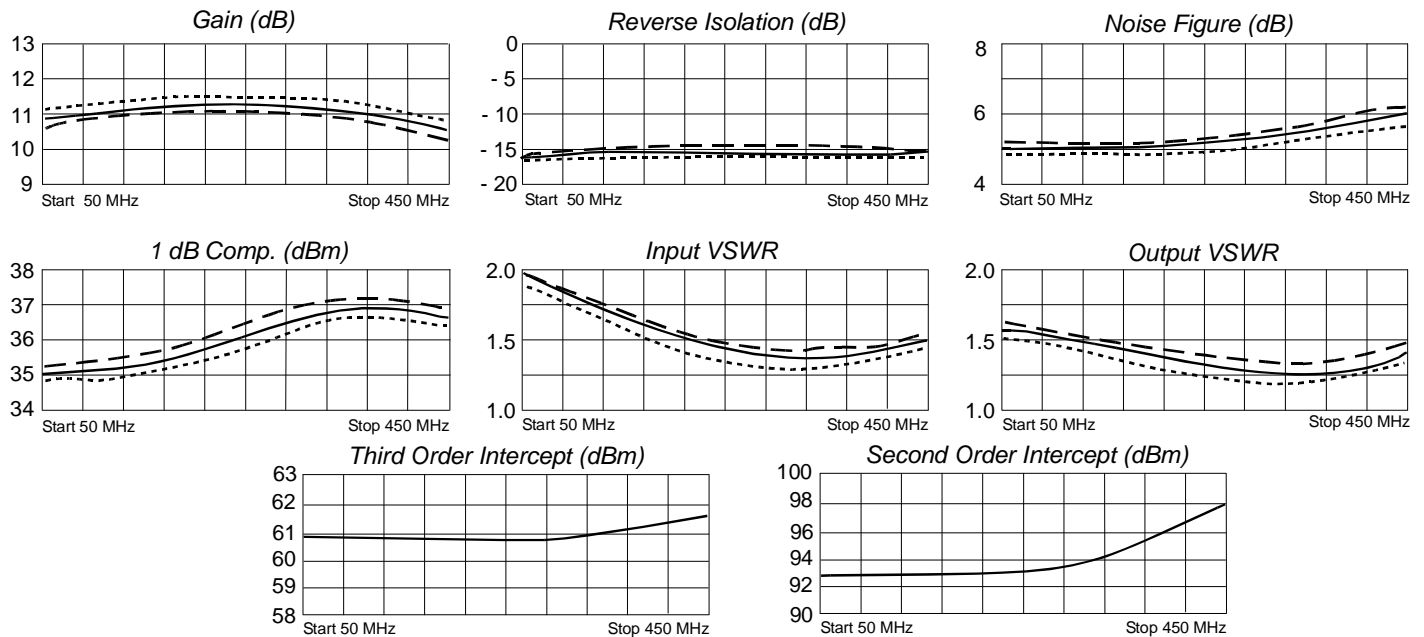
### Maximum Ratings

Ambient Operating Temperature .....-55°C to +100 °C  
 Storage Temperature .....-55°C to +125 °C  
 Case Temperature ..... +125 °C  
 DC Voltage ..... +17 Volts  
 Continuous RF Input Power ..... +24 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 the case of each unit.

Revision 3/23/2012

### Typical Performance Data



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



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