

# RF AMPLIFIER

Available as: BXMP1032, SMA Connectorized Housing

## MODEL BXMP1032

### Features

- High Third Order Intercept: +45 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 ..... +45 dBm (Typ.)

### Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	500 - 1000 MHz	500 - 1000 MHz
Gain (dB)	13.0	12.5 Min.
Power @ 1 dB Comp. (dBm)	+32	+31 Min.
Reverse Isolation (dB)	-17.0	-16.0 Max.
VSWR In	1.5:1	2.0:1 Max.
Out	1.5:1	2.0:1 Max.
Noise Figure (dB)	6.0	7.5 Max.
Power Vdc	+15	+15
mA	400	500 Max.

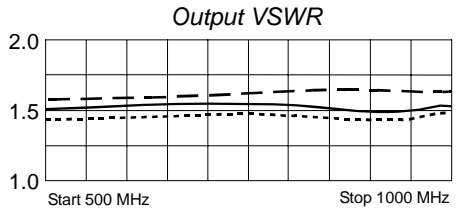
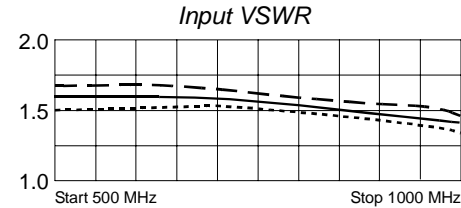
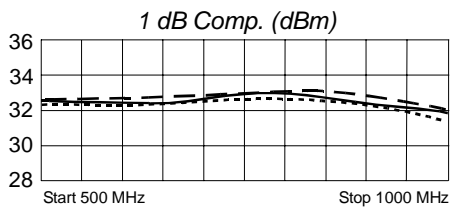
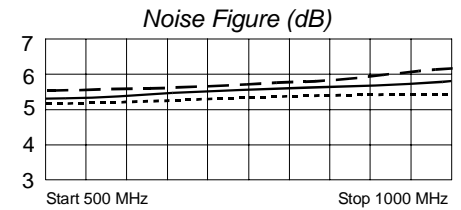
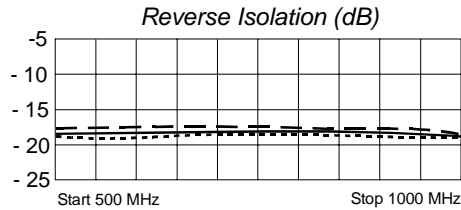
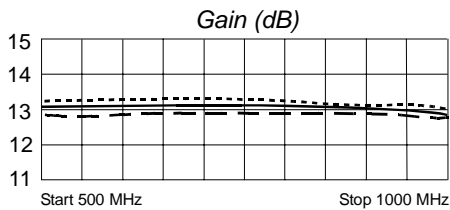
### Maximum (No Damage) Ratings

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

\*Package MUST be securely grounded with attention to heat sinking and heat relief.

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

### Typical Performance Data



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

