

# RF AMPLIFIER

## MODEL *BXMP1023*

# Medium Power Amplifier

Available as: BXMP1023, Connectorized Housing

## Preliminary

### Features

- High IP<sub>2</sub>: +52 dBm Typical
- Excellent Reverse Isolation
- Environmental Screening Available

### Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	5000 - 6000 MHz	5200 - 5800 MHz
Gain (dB)	18.0	17.0 Min.
Power @ 1 dB Comp. (dBm)	+13.5	+12.0 Min.
Reverse Isolation (dB)	-30	-25 Max.
VSWR In	1.35	2.0:1 Max.
Out	1.35	2.0:1 Max.
Noise Figure (dB)	1.25	2.0 Max.
Power Vdc	+15	+15 Min.
mA	45	60 Max.

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

### Typical Intermodulation Performance at 25 ° C

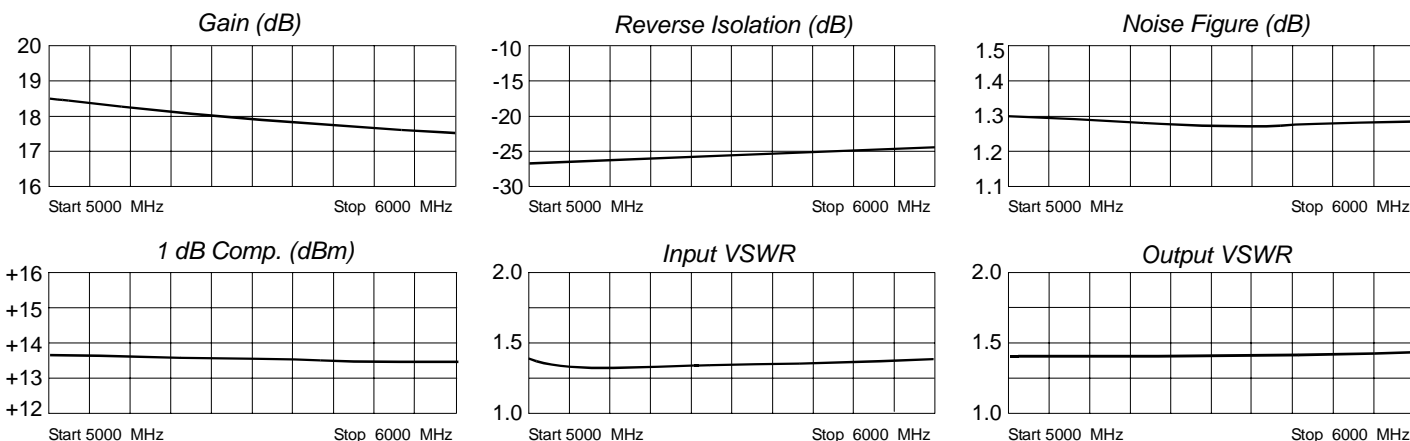
Second Order Harmonic Intercept Point ..... + dBm (Typ.)  
 Second Order Two Tone Intercept Point ..... + dBm (Typ.)  
 Third Order Two Tone Intercept Point ..... +24 dBm (Typ.)

### Maximum 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 ..... + 18 dBm  
 Short Term RF Input Power ..... 50 Milliwatts (1 Minute Max.)  
 Maximum Peak Power ..... 0.5 Watt (3 μsec Max.)

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

### Typical Performance Data



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