

# RF AMPLIFIER

Available as: BXMP1042, SMA Connectorized Housing (H-7)  
 WNMP1042, 10 Pin 0.625" Sq. Gullwing Surface Mount (SG4)

## MODEL BXMP1042

### Features

- High Output Power: +29 dBm Typical
- High Gain: 22 dB Typical
- Environmental Screening Available

### Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point ..... +55 dBm (Typ.)  
 Second Order Two Tone Intercept Point ..... +50 dBm (Typ.)  
 Third Order Two Tone Intercept Point ..... +40 dBm (Typ.)

### Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -10 °C to +50 °C
Frequency (MHz)	30 - 2000 MHz	30 - 2000 MHz
Gain (dB)	22	20 Min.
Power @ 1 dB Comp. (dBm)	+29	+28 Min.
Reverse Isolation (dB)	-40	-35 Max.
VSWR In	1.5:1	2.0:1 Max.
Out	1.8:1	2.0:1 Max.
Noise Figure (dB)	4.0	6.0 Max.
Power Vdc	+15	+15
mA	350	370 Max.

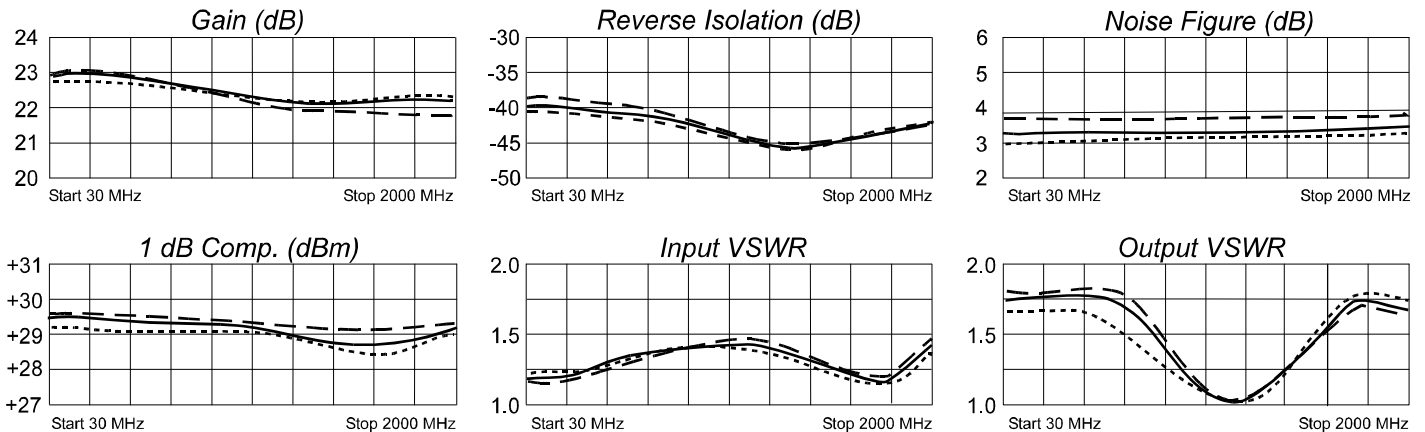
### Absolute Maximum (No Damage) Ratings

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 (CW) ..... +30 dBm  
 Maximum Peak Power..... 2 Watts (3 µsec Max.)

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

Revision 4/12/2012

### Typical Performance Data



Legend ——— +25 °C - - - +50 °C ····· -10 °C



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