

# RF AMPLIFIER

## MODEL WRMP1052

**Available as:**  
 WRMP1052, 14 Pin 0.750" Sq. Gullwing Package (SG-15)  
 BXMP1052, SMA Connectorized Housing

### Features

- High Output Power: +31.5 dBm Typical
- Wide Bandwidth 50 to 1100 MHz
- High Gain: 37 dB Typical
- Environmental Screening Available

### Specifications

CHARACTERISTIC	TYPICAL Ta= 25 °C	MIN/MAX Ta = -55 °C to +85 °C
Frequency	50 - 1100 MHz	50 - 1100 MHz
Gain (dB)	37	35 Min.
Power @ 1 dB Comp. (dBm)	31.5	31 Min.
Reverse Isolation (dB)	-45	-
VSWR In Out	1.8:1 1.8:1	2.0:1 Max. 2.0:1 Max.
Noise Figure (dB)	5.0	6.0 Max.
Power Vdc mA	+15 500	+15 Min. 550 Max.

Note: Care should always be taken to effectively ground the case of each unit.  
 Revision 4/11/2013

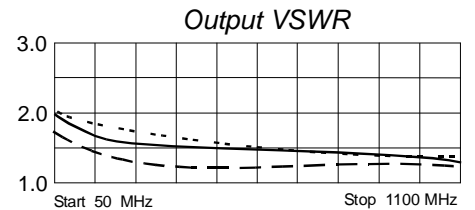
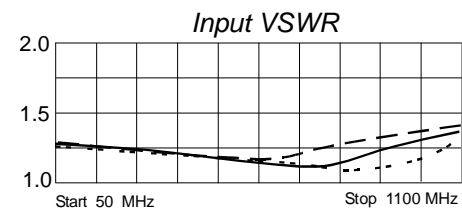
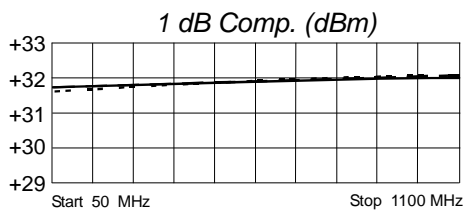
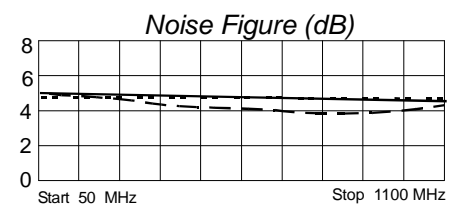
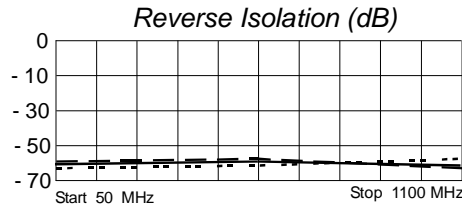
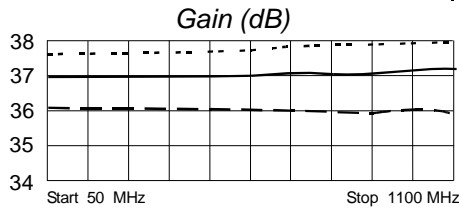
### Typical Intermodulation Performance at 25 °C

Second Order Harmonic Intercept Point..... +60 dBm (Typ.)  
 Second Order Two Tone Intercept Point..... +55 dBm (Typ.)  
 Third Order Two Tone Intercept Point..... +40 dBm (Typ.)  
 (Intercept Measurements Taken at Midband)

### 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 ..... +13 dBm  
 Short Term RF Input Power ..... 50 Milliwatts (1 Minute Max.)  
 Maximum Peak Power ..... 0.5 Watt (3 µsec Max.)

### Typical Performance Data



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