

# RF AMPLIFIER

Available as: BXMP1043, SMA Connectorized Housing (H-7)  
 WNMP1043, 10 Pin 0.625" Sq. Gullwing Surface  
 Mount (SG4)

## MODEL BXMP1043

### Features

- High Output Power: +30 dBm Typical
- High Gain: 23 dB Typical
- Environmental Screening Available

### 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 ..... +43 dBm (Typ.)

### Specifications

| CHARACTERISTIC              | TYPICAL<br>Ta= 25 °C | MIN/MAX<br>Ta = -10 °C to +50 °C |
|-----------------------------|----------------------|----------------------------------|
| Frequency (MHz)             | 500 - 2000 MHz       | 500 - 2000 MHz                   |
| Gain (dB)                   | 23                   | 22 Min.                          |
| Power @ 1 dB<br>Comp. (dBm) | +30                  | +29 Min.                         |
| Reverse<br>Isolation (dB)   | -40                  | -35 Max.                         |
| VSWR In                     | 1.8:1                | 2.0:1 Max.                       |
| VSWR Out                    | 1.8:1                | 2.0:1 Max.                       |
| Noise Figure (dB)           | 4.0                  | 4.5 Max.                         |
| Power Vdc                   | +15                  | +15                              |
| mA                          | 500                  | 550 Max.                         |

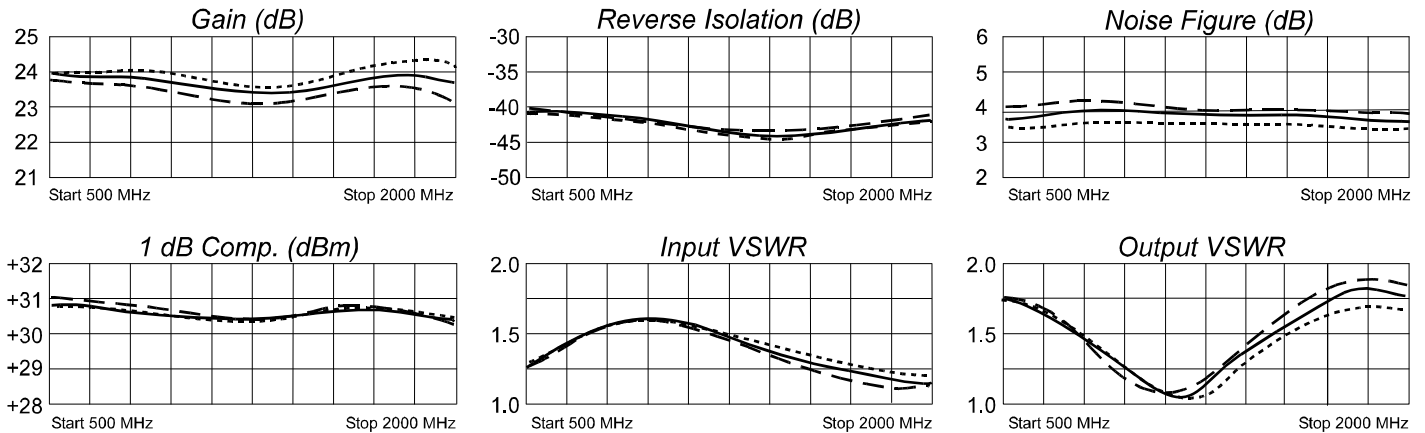
### Absolute Maximum (No Damage) Ratings

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) ..... +20 dBm  
 Maximum Peak Power.....0.5 Watt (3 µsec Max.)

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

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### Typical Performance Data



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



Spectrum Microwave · 2144 Franklin Drive N.E. · Palm Bay, Florida 32905 · PH (888) 553-7531 · Fax (888) 553-7532

www.SpectrumMicrowave.com Spectrum Microwave · 2707 Black Lake Place · Philadelphia, Pennsylvania 19154 · PH (215) 464-4000 · Fax (215) 464-4001