**RF AMPLIFIER**

**MODEL**  **BXMP1037**

### Features
- High Third Intercept: +45 dBm Typical
- High Output Power: +31 dBm Typical
- Operating Temp. -20 ºC to +70 ºC
- Environmental Screening Available

### Specifications

<table>
<thead>
<tr>
<th>CHARACTERISTIC</th>
<th>TYPICAL</th>
<th>MIN/MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ta = 25 ºC</td>
<td>Ta = -20 ºC to +70 ºC</td>
</tr>
<tr>
<td>Frequency</td>
<td>1000 - 2000 MHz</td>
<td>1000 - 2000 MHz</td>
</tr>
<tr>
<td>Gain (dB)</td>
<td>19.0</td>
<td>17.0</td>
</tr>
<tr>
<td>Power @ 1 dB Comp. (dBm)</td>
<td>+31</td>
<td>+30 Min.</td>
</tr>
<tr>
<td>Reverse Isolation (dB)</td>
<td>-24</td>
<td>-23 Max.</td>
</tr>
<tr>
<td>VSWR In</td>
<td>1.5:1</td>
<td>2.0:1 Max.</td>
</tr>
<tr>
<td>VSWR Out</td>
<td>1.5:1</td>
<td>2.0:1 Max.</td>
</tr>
<tr>
<td>Noise Figure (dB)</td>
<td>5.0</td>
<td>6.0 Max.</td>
</tr>
<tr>
<td>Power Vdc mA</td>
<td>+15</td>
<td>+15</td>
</tr>
</tbody>
</table>

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

Revision 12/12/2012

### Typical Performance Data

**Gain (dB)**

**Reverse Isolation (dB)**

**Noise Figure (dB)**

**1 dB Comp. (dBm)**

**Input VSWR**

**Output VSWR**

Legend: ——— +25 ºC  — +70 ºC  ———— -20 ºC

### Typical Intermodulation Performance at 25 ºC
- 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.)

### Maximum Ratings
- Ambient Operating Temperature: -55 ºC to +100 ºC
- Storage Temperature: -62 ºC to +125 ºC
- Case Temperature: +125 ºC
- DC Voltage: +18 Volts
- Continuous RF Input Power: +20 dBm
- Short Term RF Input Power: 50 Milliwatts (1 Minute Max.)
- Maximum Peak Power: 0.5 Watt (3 μsec Max.)

### Available as:
- BXMP1037, SMA Connectorized Housing
- WNMP1037, 10 Pin 0.625” Sq Surface Mount (SG4)

**Legend**

---

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
Instructions

<table>
<thead>
<tr>
<th>Grounding Instructions</th>
<th>Care should be taken to effectively ground each unit.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revisions</td>
<td>API reserves the right to make revisions to both product and/or the information contained within their datasheets without advanced notice.</td>
</tr>
<tr>
<td>Min./Max. Values</td>
<td>Specifications are guaranteed when tested in a 50 Ω (ohm) system.</td>
</tr>
<tr>
<td>Typical performance graphs and values are measured at 25°C, but not guaranteed.</td>
<td></td>
</tr>
</tbody>
</table>

Outline Drawing

(For Reference Only)