RF AMPLIFIER
MODEL BXMMP1044

Features
- High Gain: 30 dB Typical
- High Second Order Harmonics: +50 dBm Typical
- Unconditionally Stable

Specifications

<table>
<thead>
<tr>
<th>CHARACTERISTIC</th>
<th>TYPICAL</th>
<th>MIN/MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>500 - 3000 MHz</td>
<td>500 - 3000 MHz</td>
</tr>
<tr>
<td>Gain (dB)</td>
<td>30</td>
<td>28.5 Min.</td>
</tr>
<tr>
<td>Power Vdc</td>
<td>+15</td>
<td>+15</td>
</tr>
<tr>
<td>mA</td>
<td>370</td>
<td>400 Max.</td>
</tr>
<tr>
<td>Noise Figure</td>
<td>3.0</td>
<td>3.5 Max.</td>
</tr>
<tr>
<td>VSWR In</td>
<td>1.8:1</td>
<td>2.0:1 Max.</td>
</tr>
<tr>
<td>Out</td>
<td>1.8:1</td>
<td>2.0:1 Max.</td>
</tr>
<tr>
<td>Reverse Isolation (dB)</td>
<td>-60</td>
<td>-40 Max.</td>
</tr>
</tbody>
</table>

Typical Performance Data

- **Gain (dB)**
  - Start 500 MHz
  - Stop 3000 MHz

- **Reverse Isolation (dB)**
  - Start 500 MHz
  - Stop 3000 MHz

- **Input VSWR**
  - Start 500 MHz
  - Stop 3000 MHz

- **Output VSWR**
  - Start 500 MHz
  - Stop 3000 MHz

Typical Intermodulation Performance at 25 ºC
- Second Order Harmonic Intercept Point ...... +55 dBm (Typ.)
- Second Order Two Tone Intercept Point ...... +50 dBm (Typ.)
- Third Order Two Tone Intercept Point .......... +38 dBm (Typ.)

Absolute Maximum (No Damage) Ratings
- Ambient Operating Temperature ............... -55ºC to +100 ºC
- Storage Temperature ......................... -62ºC to +125 ºC
- Maximum Operating Case Temperature .......... +125 ºC
- DC Voltage .................................. +18 Volts
- RF Input Power (No Damage).................... +17 dBm
- Short Term RF Input Power...........50 Milliwatts (1 Minute Max.)
- Maximum Peak Power....................0.5 Watt (3 μsec Max.)

Note: Care should always be taken to effectively ground the case of each unit.
Revision 12/12/2011

Available as: BXMMP1044, SMA Connectorized Housing