RF AMPLIFIER
MODEL TRMP1039

Features
- High Second Order Two Tone Intercept: +55 dBm
- High Third Order Two Tone Intercept: +42 dBm
- Operating Temp. -55 ºC to +85 ºC
- Environmental Screening Available

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Typical Intermodulation Performance at 25 ºC
Second Order Harmonic Intercept Point .......... +60 dBm (Typ.)
Second Order Two Tone Intercept Point ........... +55 dBm (Typ.)
Third Order Two Tone Intercept Point .......... +42 dBm (Typ.)

Specifications

<table>
<thead>
<tr>
<th>CHARACTERISTIC</th>
<th>TYPICAL Ta= 25 ºC</th>
<th>MIN/MAX Ta = -55 ºC to +85 ºC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency (MHz)</td>
<td>500 - 3000 MHz</td>
<td>500 - 3000 MHz</td>
</tr>
<tr>
<td>Gain (dB)</td>
<td>12</td>
<td>11 Min.</td>
</tr>
<tr>
<td>Power @ 1 dB Comp. (dBm)</td>
<td>+26.5</td>
<td>+24.5 Min.</td>
</tr>
<tr>
<td>Reverse Isolation (dB)</td>
<td>-25</td>
<td>-20 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>3.5</td>
<td>4.5 Max.</td>
</tr>
<tr>
<td>Power Vdc</td>
<td>+15</td>
<td>+15 Min.</td>
</tr>
<tr>
<td>Power mA</td>
<td>180</td>
<td>200 Max.</td>
</tr>
</tbody>
</table>

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

Maximum Ratings
- Ambient Operating Temperature .............. -55ºC to +90 ºC
- Storage Temperature .......................... -62ºC to +125 ºC
- Case Temperature ........................................... +125 ºC
- DC Voltage ..................................................... +15 Volts
- Continuous RF Input Power ...................... +17 dBm
- Short Term RF Input Power ...... 50 Milliwatts (1 Minute Max.)
- Maximum Peak Power ................................. 0.5 Watt (3 μsec Max.)

Revision 10-27-2014

Typical Performance Data

Legend ——— +25 ºC ——— ——— +85 ºC ——— ——— ——— -55 ºC