RF AMPLIFIER
MODEL TM3050

Features
- High Third Order Intercept: +43 dBm Typical.
- High Output Power: +28 dBm Typical
- Operating Temp. -55 ºC to +85 ºC
- Environmental Screening Available

Specifications

<table>
<thead>
<tr>
<th>CHARACTERISTIC</th>
<th>TYPICAL</th>
<th>MIN/MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>10 - 250 MHz</td>
<td>10 - 250 MHz</td>
</tr>
<tr>
<td>Gain (dB)</td>
<td>10.5</td>
<td>9.5 Min.</td>
</tr>
<tr>
<td>Power @ 1 dB Comp. (dBm)</td>
<td>+28</td>
<td>+26.0 Min.</td>
</tr>
<tr>
<td>Reverse Isolation (dB)</td>
<td>-17</td>
<td>-15 Max.</td>
</tr>
<tr>
<td>VSWR In</td>
<td>&lt;1.5:1</td>
<td>2.0:1 Max.</td>
</tr>
<tr>
<td>VSWR Out</td>
<td>&lt;1.75:1</td>
<td>2.0:1 Max.</td>
</tr>
<tr>
<td>Noise Figure (dB)</td>
<td>4.5</td>
<td>6.0 Max.</td>
</tr>
<tr>
<td>Power Vdc</td>
<td>+15</td>
<td>+15 Min.</td>
</tr>
<tr>
<td>mA</td>
<td>210</td>
<td>230 Max.</td>
</tr>
</tbody>
</table>

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

Typical Performance Data

- Gain (dB)
- Reverse Isolation (dB)
- Noise Figure (dB)
- 1 dB Comp. (dBm)
- Input VSWR
- Output VSWR

Legend
- +25 ºC
- +85 ºC
- -55 ºC

Typical Intermodulation Performance at 25 ºC
- Second Order Harmonic Intercept Point ..... +73 dBm (Typ.)
- Second Order Two Tone Intercept Point ..... +68 dBm (Typ.)
- Third Order Two Tone Intercept Point .......... +43 dBm (Typ.)

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

Available as: TM3050, 4 Pin TO-8 (T4)
              TN3050, 4 Pin Surface Mount (SM3)
              BX3050, Connectorized Housing (H1)