RF AMPLIFIER
MODEL WRMP1052

Available as:
WRMP1052, 14 Pin 0.750" Sq. Gullwing Package (SG-15)
BXMP1052, SMA Connectorized Housing

Features
- High Output Power: +31.5 dBm Typical
- Wide Bandwidth 50 to 1100 MHz
- High Gain: 37 dB Typical
- Environmental Screening Available

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</td>
<td>50 - 1100 MHz</td>
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</tr>
<tr>
<td>Gain (dB)</td>
<td>37</td>
<td>35 Min.</td>
</tr>
<tr>
<td>Power @ 1 dB Comp. (dBm)</td>
<td>31.5</td>
<td>31 Min.</td>
</tr>
<tr>
<td>Reverse Isolation (dB)</td>
<td>-45</td>
<td>_</td>
</tr>
<tr>
<td>VSWR In</td>
<td>1.8:1</td>
<td>2.0:1 Max.</td>
</tr>
<tr>
<td>VSWR Out</td>
<td>1.8:1</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, 500</td>
<td>+15 Min., 500 Max.</td>
</tr>
</tbody>
</table>

Note: Care should always be taken to effectively ground the case of each unit.
Revision 4/11/2013

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............. +40 dBm (Typ.)
(Intercept Measurements Taken at Midband)

Maximum (No Damage) 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 ........................... +13 dBm
Short Term RF Input Power ...... 50 Milliwatts (1 Minute Max.)
Maximum Peak Power ...................... 0.5 Watt (3 µsec Max.)

Typical Performance Data

Gain (dB)

Reverse Isolation (dB)

Noise Figure (dB)

Input VSWR

Output VSWR