RF AMPLIFIER
MODEL   TM9708

Features
- Low Noise Figure: 3.0 dB Typical
- Operating Temp. - 55 ºC to +85 ºC
- 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>10 - 2100 MHz</td>
<td>10 - 2000 MHz</td>
</tr>
<tr>
<td>Gain (dB)</td>
<td>11.5</td>
<td>10.5 Min.</td>
</tr>
<tr>
<td>Power @ 1 dB Reverse Comp. (dBm)</td>
<td>+24.5</td>
<td>+23.0 Min.</td>
</tr>
<tr>
<td>VSWR In</td>
<td>&lt;1.2:1*</td>
<td></td>
</tr>
<tr>
<td>VSWR Out</td>
<td>&lt;1.5:1*</td>
<td></td>
</tr>
<tr>
<td>Noise Figure(dB) 10-200 MHz</td>
<td>3.6 dB</td>
<td>4.7 Max.</td>
</tr>
<tr>
<td>Noise Figure(dB) 200-2000 MHz</td>
<td>3.0 dB</td>
<td>4.0 Max.</td>
</tr>
<tr>
<td>Power Vdc</td>
<td>+15</td>
<td>+15</td>
</tr>
<tr>
<td>Power mA</td>
<td>155</td>
<td>185 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
- Noise Figure (dB)
- 1 dB Comp. (dBm)
- Input VSWR
- Output VSWR

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

Available as: TM9708, 4 Pin TO-8 (T4)
TN9708, 4 Pin Surface Mount (SM3)
BX9708, Connectorized Housing (H1)

Typical Intermodulation Performance at 25 ºC
- Second Order Harmonic Intercept Point ...... +66 dBm (Typ.)
- Second Order Two Tone Intercept Point ...... +60 dBm (Typ.)
- Third Order Two Tone Intercept Point ........ +40 dBm (Typ.)

Maximum Ratings
- Ambient Operating Temperature .............. -55ºC to + 100 ºC
- Storage Temperature .......................... -62ºC to + 125 ºC
- Case Temperature .............................. + 125 ºC
- DC Voltage ..................................... +17 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.)