RF AMPLIFIER
MODEL  TM7203

Features
- Low Noise Figure: 3 dB Typical
- High Gain: 32 dB 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></td>
<td>Ta = 25 ºC</td>
<td>Ta = -55 ºC to +85 ºC</td>
</tr>
<tr>
<td>Frequency</td>
<td>5-250 MHz</td>
<td>5-250 MHz</td>
</tr>
<tr>
<td>Gain (dB)</td>
<td>32</td>
<td>30.0 Min.</td>
</tr>
<tr>
<td>Power @ 1 dB Comp. (dBm)</td>
<td>+8</td>
<td>+6.5 Min.</td>
</tr>
<tr>
<td>Reverse Isolation (dB)</td>
<td>-40</td>
<td>-37 Max.</td>
</tr>
<tr>
<td>VSWR In</td>
<td>&lt;1.75:1</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>3</td>
<td>4.0 Max.</td>
</tr>
<tr>
<td>Power Vdc</td>
<td>+15</td>
<td>+15 Min.</td>
</tr>
<tr>
<td>mA</td>
<td>35</td>
<td>38 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........ +36 dBm (Typ.)
- Second Order Two Tone Intercept Point........ +30 dBm (Typ.)
- Third Order Two Tone Intercept Point........... +18 dBm (Typ.)

Maximum Ratings
- Ambient Operating Temperature .............. -55ºC to + 100 ºC
- Storage Temperature ..................... -62ºC 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.)