RF AMPLIFIER
MODEL TR9757

Features
- Low Noise Figure: 1.5 dB Typical
- Low 5 Volt Operation
- 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>1700 - 2400 MHz</td>
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<tr>
<td>Gain (dB)</td>
<td>23</td>
<td>22 Min.</td>
</tr>
<tr>
<td>Power @ 1 dB Comp. (dBm)</td>
<td>+15</td>
<td>+14 Min.</td>
</tr>
<tr>
<td>Reverse Isolation (dB)</td>
<td>-33</td>
<td>-32 Max.</td>
</tr>
<tr>
<td>VSWR In/Out</td>
<td>1.5:1/1.5:1</td>
<td>2.0:1 Max./2.0:1 Max.</td>
</tr>
<tr>
<td>Noise Figure (dB)</td>
<td>1.5</td>
<td>2.2 Max.</td>
</tr>
<tr>
<td>Power Vdc/mA</td>
<td>+5/70</td>
<td>+5/75 Max.</td>
</tr>
</tbody>
</table>

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

Typical Intermodulation Performance at 25 ºC
Second Order Harmonic Intercept Point........... +46 dBm (Typ.)
Second Order Two Tone Intercept Point........... +40 dBm (Typ.)
Third Order Two Tone Intercept Point............ +26 dBm (Typ.)

Absolute Maximum (No Damage) Ratings
Ambient Operating Temperature ........... -55ºC to +100 ºC
Storage Temperature.............................. -62ºC to +125 ºC
Case Temperature.................................. +125 ºC
DC Voltage ........................................... +8 Volts
Continuous RF Input Power ...................... +13 dBm
Short Term RF Input Power... 200 Milliwatts (1 Minute Max.)
Maximum Peak Power......................... 0.5 Watt (3 µsec Max.)

Available as: TR9757, 4 Pin TO-8B (T8)
              RN9757, 4 Pin Surface Mount (SM19)
              BR9757, Connectorized Housing (H2)