Standard RF/Microwave Amplifier

Features

- Low Noise Figure: 1.9 dB
- Wide 900 – 2500 MHz Bandwidth
- Environmental Screening Available
- Unconditionally Stable

Technical Specifications

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>TYPICAL Ta = +25 °C</th>
<th>MIN/MAX Ta = -55°C to +85 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>900 – 2500 MHz</td>
<td>1000 – 2500 MHz</td>
</tr>
<tr>
<td>Gain (dB)</td>
<td>25</td>
<td>23.5 Min.</td>
</tr>
<tr>
<td>Power @ 1 dB Comp. (dBm)</td>
<td>+15.5</td>
<td>+14 Min.</td>
</tr>
<tr>
<td>Reverse Isolation (dB)</td>
<td>-28</td>
<td>--</td>
</tr>
<tr>
<td>VSWR In</td>
<td>1.75:1</td>
<td>2.0:1 Max.</td>
</tr>
<tr>
<td></td>
<td>Out</td>
<td>1.5:1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.8:1 Max.</td>
</tr>
<tr>
<td>Noise Figure (dB)</td>
<td>1.9</td>
<td>2.6 Max.</td>
</tr>
<tr>
<td>Power Vdc</td>
<td>+5</td>
<td>+5</td>
</tr>
<tr>
<td>mA</td>
<td>75</td>
<td>80 Max.</td>
</tr>
</tbody>
</table>

1) Care should always be taken to effectively ground the case of each unit
2) Typical values are measured at 25°C, but not guaranteed.
3) Package drawings below are for reference only.

Typical Intermodulation Performance at 25 °C

- Second Order Harmonic Intercept Point: +51 dBm (Typ.)
- Second Order Two Tone Intercept Point: +45 dBm (Typ.)
- Third Order Two Tone Intercept Point: +26 dBm (Typ.)

Note: Measured at 1500 MHz at 25C.

Absolute Maximum (No Damage) Ratings

- Operating Temperature: -55°C to +100 °C
- Storage Temperature: -62°C to +125°C
- Case Temperature: +125 °C
- DC Voltage: +8 Volts
- Continuous RF Input Power: +7 dBm
Model # TM9754

Technical Performance

Gain

Noise Figure

Output Power (1 dB Compression)

Reverse Isolation

Input VSWR

Output VSWR
Instructions

Grounding Instructions | Care should be taken to effectively ground each unit.
Revisions | API reserves the right to make revisions to both product and/or the information contained within their datasheets without advanced notice.
Min./Max. Values | Specifications are guaranteed when tested in a 50 Ω (ohm) system.

Typical performance graphs and values are measured at 25°C, but not guaranteed.

1) Outlines drawings below are for reference only.

**NOTES:**
1. HOUSING: ALUMINUM
2. FINISH: NICKEL