Model # BR9556

Available as:
BR9556, SMA Connectorized Housing (H2)

RF/Microwave Amplifier

Features

- Low Noise Figure: < 1 dB Typical
- Low +5 volt supply powered through the SMA Output Port.
- Unconditionally Stable
- Environmental Screening Available

Technical Specifications

<table>
<thead>
<tr>
<th>CHARACTERISTIC</th>
<th>TYPICAL Ta=25ºC</th>
<th>MIN/MAX Ta = -55ºC to +85ºC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency (MHz)</td>
<td>1200 - 1700</td>
<td>1200 - 1700</td>
</tr>
<tr>
<td>Gain (dB)</td>
<td>27</td>
<td>25.0 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>-38</td>
<td>-36 Max.</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>&lt;1.0</td>
<td>1.75 Max.</td>
</tr>
<tr>
<td>Power Vdc</td>
<td>+5*</td>
<td>+5*</td>
</tr>
<tr>
<td>mA</td>
<td>60</td>
<td>63 Max.</td>
</tr>
</tbody>
</table>

Notes:

- Care should always be taken to effectively ground the case of each unit.
- +5 volt operation powered through the SMA Output Port.
- The unit’s +5 volt Bias will operate off +5 volts dc supplied through the RF Output Port.
- The model BR9556 housing will retain the standard dimensions (Length, Width, and Height) found aboard the existing H2 Housing, however, there will not be a separate DC Connector for the +5 volt supply.

Typical Performance Data

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

Maximum (No Damage) Ratings

<table>
<thead>
<tr>
<th>CHARACTERISTIC</th>
<th>MIN/MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage Temperature</td>
<td>-55ºC to + 100 ºC</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-62ºC to +125 ºC</td>
</tr>
<tr>
<td>Case Temperature</td>
<td>+ 125 ºC</td>
</tr>
<tr>
<td>DC Voltage</td>
<td>+ 8 Volts</td>
</tr>
<tr>
<td>Continuous RF Input Power</td>
<td>+ 13 dBm</td>
</tr>
<tr>
<td>Short Term RF Input Power</td>
<td>50 Milliwatts (1 Minute Max.)</td>
</tr>
<tr>
<td>Maximum Peak Power</td>
<td>0.5 Watt (3 μsec Max.)</td>
</tr>
</tbody>
</table>

Typical Intermodulation Performance at 25ºC

- Second Order Harmonic Intercept Point: +46 dBm (Typ.)
- Second Order Two Tone Intercept Point: +46 dBm (Typ.)
- Third Order Two Tone Intercept Point: +26 dBm (Typ.)