RF Limiter

Model TL9010

Available as

- TL9010, 4 Pin TO-8 (T4)
- TNL9010, 4 Pin Surface Mount (SM3)
- FPL9010, 4 Pin Flatpack (FP4)
- BXL9010, Connectorized Housing (H1)

Specifications

<table>
<thead>
<tr>
<th>CHARACTERISTIC</th>
<th>TYPICAL</th>
<th>MIN/MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency (kHz)</td>
<td>5 - 1000 MHz</td>
<td>5 - 3000 MHz</td>
</tr>
<tr>
<td>Insertion Loss @ Pin ≤ -20 dBm (Max)</td>
<td>2.0</td>
<td>3.5</td>
</tr>
<tr>
<td>Pin 1-500 kHz, 1000-3000 kHz</td>
<td>3.0</td>
<td>5.5</td>
</tr>
<tr>
<td>Input VSWR (Max)</td>
<td>1.7:1</td>
<td>2.1:1</td>
</tr>
<tr>
<td>Pin &lt; -10 dBm, t&lt;10 Volts</td>
<td>1.7:1</td>
<td>2.2:1</td>
</tr>
<tr>
<td>Output VSWR (Max)</td>
<td>2.0:1</td>
<td>2.5:1</td>
</tr>
<tr>
<td>VSWR Limiting Level</td>
<td>2.5</td>
<td>4.5</td>
</tr>
<tr>
<td>@ 20 kHz</td>
<td>6.5</td>
<td>7.8</td>
</tr>
</tbody>
</table>

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

Typical Performance Data

Features

- Voltage Variable Limiting Level
- Good Even Order Harmonic Suppression
- Low Insertion Loss
- 4 Pin To-8 Metal Hermetic Package
- Operating Temp. -55°C to +85°C

Absolute Maximum (No Damage) Ratings

- Ambient Operating Temperature: -55°C to +100°C
- Storage Temperature: -62°C to +125°C
- Case Temperature: + 125°C
- DC Voltage: + 25 Volts
- Continuous RF Input Power: + 20 dBm
- Short Term RF Input Power: 200 Milliwatts (1 Minute Max.)
- Maximum Peak Power: 0.5 Watt (3 µsec Max.)