<table>
<thead>
<tr>
<th>Low Noise Amplifiers</th>
<th>PmT-LNA Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 12 GHz</td>
<td>Model: PmTA-112-30-4</td>
</tr>
<tr>
<td>NF 4dB Mid Band</td>
<td></td>
</tr>
</tbody>
</table>

**FEATURES:**
- 1 to 12 GHz Frequency Range
- 30 dB Small Signal Gain
- Low Noise Figure
- 50 Ohm Input and Output Matched
- Internal Voltage Regulation and Bias Sequencing
- Unconditionally Stable
- Sealed Module
- -50°C to 100°C Standard

**Electrical Specifications (TA=25°C)**

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>1 to 12 GHz</td>
</tr>
<tr>
<td>Small Signal Gain</td>
<td>30 dB minimum</td>
</tr>
<tr>
<td>Gain Flatness</td>
<td>±1.25 dB</td>
</tr>
<tr>
<td>Noise Figure</td>
<td>4 dB at mid band</td>
</tr>
<tr>
<td>Input Return Loss</td>
<td>-10 dB</td>
</tr>
<tr>
<td>Output Return Loss</td>
<td>-10 dB</td>
</tr>
<tr>
<td>Pout</td>
<td>17 dB minimum</td>
</tr>
<tr>
<td>Operating DC Voltage</td>
<td>12 Volts</td>
</tr>
<tr>
<td>Operating DC Current</td>
<td>100 mA</td>
</tr>
<tr>
<td>Connectors</td>
<td>SMA Female</td>
</tr>
<tr>
<td>DC Connector</td>
<td>Solder in Filter</td>
</tr>
</tbody>
</table>

**Absolute Maximum Rating**

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC Voltage</td>
<td>20 Volts</td>
</tr>
<tr>
<td>RF Input Power</td>
<td>5 dBm</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40 °C to 85 °C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-55 °C to 150 °C</td>
</tr>
</tbody>
</table>
Gain, Input Return Loss and Output Return Loss

Gain vs Temperature and Frequency

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