ASC668C

Features: (typical values)
- High Gain ........................................... 20 dB
- Super Low Noise Figure ....................... 0.5 dB.
- Output Power ..................................... +20 dBm.
- No External Components Required.
- Available in TO-8, SMT, Connectorize housing or per customer Requested package

Available in +3V/5V/10V/12V/15V

10-4000 MHz
Wideband Amplifier
Gain Block
Super Low Cost
Super Low Noise

Maximum Ratings
Storage Temperature .......................... -62°C to +125°C
DC Voltage ........................................ +6 volts
RF Input Power ................................. +10.0 dBm.
Case Temperature .............................. +100°C

Specifications (Referenced to 50 ohms)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Typical Conditions</th>
<th>Min Value</th>
<th>Max Value</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td></td>
<td></td>
<td></td>
<td>MHz.</td>
</tr>
<tr>
<td>Gain @ 2 GHz</td>
<td>19.1</td>
<td>10</td>
<td>4000</td>
<td>dB.</td>
</tr>
<tr>
<td>Gain Var. over temp</td>
<td>0.6</td>
<td></td>
<td></td>
<td>dB.</td>
</tr>
<tr>
<td>Pout @ 1dB Comp</td>
<td>+20</td>
<td>+10</td>
<td></td>
<td>dBm.</td>
</tr>
<tr>
<td>Noise Figure 20-4000MHz</td>
<td>0.8</td>
<td></td>
<td>2.0</td>
<td>dB.</td>
</tr>
<tr>
<td>Reverse Isolation</td>
<td>25</td>
<td></td>
<td></td>
<td>dB.</td>
</tr>
<tr>
<td>IP3/IP2 (two-tone)*</td>
<td>35/45</td>
<td></td>
<td></td>
<td>dBm.</td>
</tr>
<tr>
<td>VSWR In/Out 100-3000 MHz</td>
<td>1.8:1</td>
<td></td>
<td>2.0:1</td>
<td></td>
</tr>
<tr>
<td>Supply Required</td>
<td>+5/70</td>
<td></td>
<td>+5/75</td>
<td>V/mA.</td>
</tr>
</tbody>
</table>

Min. and max. values are from 0°C to +85°C
*IP3 and IP2 are in band output intercept points

3009 Old State Road, Telford PA, 18969 Phone: 215.799.2561 Fax: 215.799.2563
www.amplifiersolutions.com
Typical Performance Curves @ +25c

Gain vs. Frequency

NF vs. Frequency

Pout vs. Frequency

VSWR vs. Frequency

IP 3/IP2 & HIP2 vs. Frequency