Features: (typical values)
- Super Linearity
- Medium Noise Figure ....................... 3.0 dB.
- High Output Power ......................... +22.0 dBm.
- High Reliability
- ASC662F for Hermetic Package (Surface Mount available)
- ASC662C for SMA-F

Maximum Ratings
Storage Temperature ....................... -62°C to +125°C
DC Voltage ...................................... +7 volts
RF Input Power .................................... +15.0 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>250</td>
<td>3000</td>
<td>MHz.</td>
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<tr>
<td>Gain</td>
<td>12</td>
<td>11.0</td>
<td></td>
<td>dB.</td>
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<tr>
<td>Gain Flatness</td>
<td>±0.25</td>
<td>±0.5</td>
<td></td>
<td>dB.</td>
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<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>+22.0</td>
<td>+20.0</td>
<td></td>
<td>dBm.</td>
</tr>
<tr>
<td>Noise Figure</td>
<td>3.0</td>
<td></td>
<td>4.5</td>
<td>dB.</td>
</tr>
<tr>
<td>Reverse Isolation</td>
<td>16</td>
<td></td>
<td></td>
<td>dB.</td>
</tr>
<tr>
<td>IP3/IP2 (two-tone)*</td>
<td>37/44</td>
<td>35/40</td>
<td></td>
<td>dBm.</td>
</tr>
<tr>
<td>HIP2 (2nd harm.)</td>
<td>50.0</td>
<td></td>
<td></td>
<td>dBm.</td>
</tr>
<tr>
<td>VSWR In/Out</td>
<td>1.7:1</td>
<td>2.0:1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supply Required</td>
<td>+5/150</td>
<td>+5/170</td>
<td></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

Min. and max. values are from 0˚C to +85˚C
2950-K Advance Ln, Colmar, PA 18915 Phone: 215.997.7856 Fax: 215.997.7857
www.amplifiersolutions.com
Typical Performance Curves

-55˚C  -  +25˚C  -  +85˚C

Gain vs. Frequency

Gain (dB.)

NF vs. Frequency

NF (dB.)

Pout vs. Frequency

Pout (dBm.)

VSWR vs. Frequency

VSWR

IP 3/IP2 & HIP2 vs. Frequency

IP 3  IP 2  HIP 2

Intercepts (dBm.)