RF LIMITING AMPLIFIER
MODEL BXL9653

HousingStyle: SMA Connectorized Housing (H2L)
Dimensions: 1.36" x 0.66" x 0.33" (Hermetic Laser Welded)

Features
- Compression Range: 40 dB Typical
- Low Phase Shift Variation
- Operating Temperature: -55 °C to +85 °C
- Environmental Screening Available

Specifications

<table>
<thead>
<tr>
<th>CHARACTERISTIC</th>
<th>TYPICAL Ta = 25 ºC</th>
<th>MIN/ MAX Ta = -55 ºC to +85 ºC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>5 - 500 MHz</td>
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</tr>
<tr>
<td>Small Signal Gain (dB)</td>
<td>&gt;38</td>
<td>30 Min.</td>
</tr>
<tr>
<td>Saturated Power @ P_in = 0 dBm (dBm)</td>
<td>-0.5</td>
<td>-4.0 Min.</td>
</tr>
<tr>
<td>Saturated Flatness @ P_in = 0 dB</td>
<td>+/-0.8</td>
<td>+/-1.5 Max.</td>
</tr>
<tr>
<td>VSWR In</td>
<td>&lt;1.25:1</td>
<td>2:1 Max.</td>
</tr>
<tr>
<td>VSWR Out</td>
<td>&lt;1.25:1</td>
<td>2:1 Max.</td>
</tr>
<tr>
<td>Phase Shift per dB of Comp. per MHz (deg)</td>
<td>0.0035</td>
<td>___ Min.</td>
</tr>
<tr>
<td>Even Harmonic Suppression @ P_in = -33 to +10 dBm (dBc)</td>
<td>20</td>
<td>15 Max.</td>
</tr>
<tr>
<td>Noise figure (dB)</td>
<td>&lt;8</td>
<td>11 Max.</td>
</tr>
<tr>
<td>Power Vdc</td>
<td>+15</td>
<td>+15</td>
</tr>
<tr>
<td>mA</td>
<td>60</td>
<td>70 Max.</td>
</tr>
</tbody>
</table>

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

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................................+17 Volts
Continuous RF Input Power.............. +15 dBm

Revision: 4/7/2015: ENL .400” x .800” 20 Pin Surface-mount
Package is no longer available

Typical Performance Data

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

1. HOUSING: 70/30 CN/NI ELECTRONIC GRADE

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FIELD REPLACEABLE SMA CONNECTORS

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GROUND LUG

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DC INPUT

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MTG SURFACE

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GND + Vdc

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WITHOUT SMA CONNECTOR

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CAUTION

THIS ASSEMBLY CONTAINS PARTS SENSITIVE TO DAMAGE BY ELECTROSTATIC DISCHARGE (ESD). USE ESD PRECAUTIONARY PROCEDURES WHEN TOUCHING, REMOVING OR INSERTING

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SEE SEPARATE PARTS LIST IN ELECTRONIC STORAGE