B&Z TECHNOLOGIES
Innovating to Excel

BZ0208LB1A
WIDEBAND LNA, 2 - 8 GHz

Features
- **Noise Figure ≤1.2**
- Unconditionally Stable at all temperatures
- Internally Regulated DC Voltage
- 50 Ohm Matched Input/Output
- Field Replaceable SMA connectors
- Excellent Group Delay and Phase Linearity
- 0.009 inches diameter RF In/Out feed through
- 3 Year Warranty

Options
- Optimized Performance over Selected Bandwidth
- Internally DC Block Input (Output DC Block Standard)
- Hermetically Sealed Package
- Improved Gain Flatness
- Improved IN and OUT VSWR
- Gain and Phase matching
- Lower Noise Figure (Cryogenic Temp)

Specifications (23 °C)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>2</td>
<td>8</td>
<td>GHz</td>
</tr>
<tr>
<td>Noise Figure</td>
<td>-</td>
<td>1.2</td>
<td>dB</td>
</tr>
<tr>
<td>Gain</td>
<td>22</td>
<td></td>
<td>dB</td>
</tr>
<tr>
<td>Gain Flatness</td>
<td>-</td>
<td>±1.5</td>
<td>dB</td>
</tr>
<tr>
<td>P1dB Output Power</td>
<td>5</td>
<td></td>
<td>dBm</td>
</tr>
<tr>
<td>Input VSWR</td>
<td>-</td>
<td>2.0:</td>
<td>1</td>
</tr>
<tr>
<td>Output VSWR</td>
<td>-</td>
<td>2.0:</td>
<td>1</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-55</td>
<td></td>
<td>+85</td>
</tr>
<tr>
<td>Voltage</td>
<td>+12</td>
<td>-</td>
<td>15</td>
</tr>
<tr>
<td>Current</td>
<td>-</td>
<td>70</td>
<td>95</td>
</tr>
</tbody>
</table>

*Noise Sources used for measurement: 2- 8 GHz: HP346A, N.F Uncertainty (approx. 0.15 dB), .1 dB due to ENR of HP 346A, and .05 dB due to mismatch losses and gain modulation of the unit, caused by the HP 346A source Impedance change in the ON and OFF state. Noise Figures at Cryogenic Temp, not given due to uncertainty of measurement for very low values. Call to discuss.

Performance Graphs

![Performance Graphs](image)

Outline Drawing

Mounting Drawing

Drop In Module

B&Z Technologies • 25 Health Sciences Drive • Stony Brook • New York 11790
Phone: (631) 331-0101 • Fax: (631) 331-0117 • info@bnztech.com • www.bnztech.com