LNA, 2.7 to 3.1GHz  
Model: BZ-02700310-061037-071816

**Specifications (23 °C)**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>2.7</td>
<td>-</td>
<td>3.1</td>
<td>GHz</td>
</tr>
<tr>
<td>Noise Figure*</td>
<td>-</td>
<td>0.5</td>
<td>0.6</td>
<td>dB</td>
</tr>
<tr>
<td>Gain</td>
<td>37</td>
<td>40</td>
<td>-</td>
<td>dB</td>
</tr>
<tr>
<td>Gain Flatness (+/-)</td>
<td>-</td>
<td>± 0.5</td>
<td>± 0.75</td>
<td>dB</td>
</tr>
<tr>
<td>P1 Output Power</td>
<td>+10</td>
<td>+12</td>
<td>-</td>
<td>dBm</td>
</tr>
<tr>
<td>Input VSWR</td>
<td>-</td>
<td>1.5:1</td>
<td>1.8:1</td>
<td></td>
</tr>
<tr>
<td>Output VSWR</td>
<td>-</td>
<td>1.4:1</td>
<td>1.6:1</td>
<td></td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-55</td>
<td>-</td>
<td>+85</td>
<td>°C</td>
</tr>
<tr>
<td>Non-Operating Temp Range</td>
<td>-65</td>
<td>-</td>
<td>+85</td>
<td>°C</td>
</tr>
<tr>
<td>RF Input Power (no-damage)</td>
<td>-</td>
<td>-</td>
<td>+13</td>
<td>dBm</td>
</tr>
<tr>
<td>Humidity (non-condensing)</td>
<td>-</td>
<td>-</td>
<td>95</td>
<td>%</td>
</tr>
<tr>
<td>Voltage</td>
<td>+8</td>
<td>+12</td>
<td>+15</td>
<td>VDC</td>
</tr>
<tr>
<td>Current</td>
<td>-</td>
<td>125</td>
<td>mA</td>
<td></td>
</tr>
<tr>
<td>Input Impedance</td>
<td>50</td>
<td></td>
<td></td>
<td>Ohms</td>
</tr>
<tr>
<td>RF Connector</td>
<td>3.5mm SMA - Female</td>
<td></td>
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<tr>
<td>Dimensions</td>
<td>29.9 x 18.7 x 7.6 mm</td>
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</tr>
</tbody>
</table>

* Noise Source used for measurement from 0.01 to 26.5 GHz is HP346C.  
  NF Uncertainty (approx. 0.1dB). 0.05 dB due to ENR of HP 346C; and 0.05 dB, due to the gain modulation of the unit, caused by the HP 346C source impedance change in the ON and OFF state.

**Features**

- Noise Figure ≤ 0.6 dB  
- Unconditionally Stable at all temperatures  
- Internally Regulated DC Voltage  
- Field Replaceable 3.5mm SMA connectors  
- Excellent Group Delay and Phase Linearity  
- 0.009 inches diameter RF In/Out feed through  
- Operating Temp. -55 C to +85 C  
- 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

**Typical Data**

- **S21**
  - Gain (dB) vs Frequency (MHz)
  - Minimum: 34, Maximum: 44

- **Noise Figure**
  - Noise Figure vs Frequency (MHz)
  - Minimum: 0, Maximum: 1.0

- **Power Out @ 1dB Compression**
  - Power (dBm) vs Frequency (MHz)
  - Minimum: 5, Maximum: 15

- **S21 Group Delay**
  - Group Delay vs Frequency (MHz)
  - Minimum: -200 ns, Maximum: 200 ns

- **S11**
  - Return Loss (dB) vs Frequency (MHz)
  - Minimum: -45 dB, Maximum: -5 dB

- **S22**
  - Return Loss (dB) vs Frequency (MHz)
  - Minimum: -50 dB, Maximum: -20 dB
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Approx. Actual Size

Mounting Drawing

Drop In

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