**LNA, 15.3 to 18.3GHz**  
*Model: BZ-15301830-501518-102020*

### Features
- Noise Figure: 3.0 dB (typ)  
- P1 Output Power: > +16dBm (typ)  
- 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  
- Operating Temp. -40°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

### Specifications (23 °C)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
<th>Units</th>
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<tbody>
<tr>
<td>Frequency Range</td>
<td>15.3</td>
<td>-</td>
<td>18.3</td>
<td>GHz</td>
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<tr>
<td>Noise Figure*</td>
<td>-</td>
<td>3</td>
<td>5</td>
<td>dB</td>
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<tr>
<td>Gain</td>
<td>18</td>
<td>20</td>
<td>-</td>
<td>dB</td>
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<td>Gain Flatness</td>
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<td>0.5</td>
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<td>dB</td>
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<tr>
<td>P1 Output Power</td>
<td>15</td>
<td>16</td>
<td>-</td>
<td>dBm</td>
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<tr>
<td>Input VSWR</td>
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<td>-</td>
<td>2.0:1</td>
<td></td>
</tr>
<tr>
<td>Output VSWR</td>
<td>-</td>
<td>-</td>
<td>2.0:1</td>
<td></td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40</td>
<td>-</td>
<td>+85</td>
<td>°C</td>
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<tr>
<td>Non-Operating Temp Range</td>
<td>-85</td>
<td>-</td>
<td>+65</td>
<td>°C</td>
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<tr>
<td>RF Input Power (no-damage)</td>
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<td>+13</td>
<td>dBm</td>
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<tr>
<td>Humidity (non-condensing)</td>
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<td>95</td>
<td>%</td>
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<td>Voltage</td>
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<td>+12</td>
<td>+15</td>
<td>VDC</td>
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<tr>
<td>Current</td>
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<td>-</td>
<td>mA</td>
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<td>Input Impedance</td>
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<td>Ohms</td>
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<td>RF Connector</td>
<td>SMA - Female</td>
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<td>Dimensions</td>
<td>29.9 x 18.7 x 7.6 mm</td>
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</tbody>
</table>

* Noise Source used for measurement from 0.01 to 26.5 GHz is HP346C.  
* NF Uncertainty (approx. 0.1 dB). 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.

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**Typical Data**

**S21**

![Graph of S21](image1)

**Noise Figure**

![Graph of Noise Figure](image2)

**Power Out @ 1dB Compression**

![Graph of Power Out](image3)

**S12**

![Graph of S12](image4)

**S11**

![Graph of S11](image5)

**S22**

![Graph of S22](image6)
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Approx. Actual Size

Mounting Drawing

Drop In

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