**Features**

- Noise Figure ≤ 2.5 dB
- Unconditionally Stable at all temperatures
- Internally Regulated DC Voltage
- 50 Ohm Matched Input/Output
- Field Replaceable 3.5mm 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

*** IMPORTANT: UNIT REQUIRES HEATSINK ***

**Specifications (23 °C)**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>Frequency Range</td>
<td>3</td>
<td>22</td>
<td></td>
<td>GHz</td>
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<tr>
<td>Noise Figure*</td>
<td></td>
<td></td>
<td></td>
<td>dB</td>
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<tr>
<td>Gain</td>
<td>22</td>
<td>2</td>
<td>2.5</td>
<td>dB</td>
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<tr>
<td>Gain Flatness (+/-)</td>
<td></td>
<td>± 1.5</td>
<td>± 2</td>
<td>dB</td>
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<tr>
<td>P1 Output Power</td>
<td>+21</td>
<td>+22</td>
<td></td>
<td>dBm</td>
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<tr>
<td>Input VSWR</td>
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<td></td>
<td></td>
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<tr>
<td>Output VSWR</td>
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<td>2.5:1</td>
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<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>
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<td></td>
<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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<tr>
<td>Voltage</td>
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<td>+12</td>
<td>+20</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></td>
<td>Ohms</td>
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<tr>
<td>RF Connector</td>
<td>3.5mm SMA- Female</td>
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<tr>
<td>Dimensions</td>
<td>29.9 x 18.7 x 7.6</td>
<td>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 .

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**Typical Data**

- **S11**
- **S21**
- **Noise Figure**
- **Power Out @ 1dB Compression**

- **S21 Group Delay**
- **S11**
- **S22**

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B&Z Technologies

LNA, 3 to 22GHz

Model: BZ-03002200-252122-202525

Approx. Actual Size

Mounting Drawing

Drop In

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Rev: 5/2/2013