Features
• Noise Figure ≤ 2.3 dB
• Unconditionally Stable at all temperatures
• Internally Regulated DC Voltage
• 50 Ohm Matched Input/Output
• Field Replaceable 2.92mm K 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

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>20</td>
<td>-</td>
<td>30</td>
<td>GHz</td>
</tr>
<tr>
<td>Noise Figure*</td>
<td>-</td>
<td>-</td>
<td>2.3</td>
<td>dB</td>
</tr>
<tr>
<td>Gain</td>
<td>25</td>
<td>-</td>
<td>-</td>
<td>dB</td>
</tr>
<tr>
<td>Gain Flatness (+/-)</td>
<td>-</td>
<td>-</td>
<td>±1.5</td>
<td>dB</td>
</tr>
<tr>
<td>P1 Output Power</td>
<td>+10</td>
<td>-</td>
<td>-</td>
<td>dBm</td>
</tr>
<tr>
<td>Input VSWR</td>
<td>-</td>
<td>-</td>
<td>2.0:1</td>
<td></td>
</tr>
<tr>
<td>Output VSWR</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>dB</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>+125</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>+8</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>Ohms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RF Connector</td>
<td>2.92mm - Female</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>29.9 x 18.7 x 7.6</td>
<td>mm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Typical Data

- Noise Figure
- Gain
- P1 Output Power
- Input VSWR
- Operating Temperature
- Non-Operating Temp Range
- RF Input Power (no-damage)
- Humidity (non-condensing)
- Voltage
- Current
- Input Impedance
- RF Connector
- Dimensions

* Noise Source used for measurement from 18GHz to 42 GHz is HP346C-K01.
NF Uncertainty (approx. 0.3 dB). 0.2 dB due to ENR of HP 346C-K01, and 0.1 dB due to the gain modulation of the unit caused by the HP 346C-K01 source impedance change in the ON and OFF state.
LNA, 20 to 30GHz

Model: BZT-20003000-231025-152020

Approx. Actual Size

Mounting Drawing

Drop In

B&Z Technologies • 25 Health Sciences Drive • Stony Brook • New York 11790
Phone: (631) 444-8827 • Fax: (631) 444-8825 • info@bnztech.com • www.bnztech.com

Rev: 3/18/2015