B&Z Technologies
Innovating to Excel

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BZP520HA1
WIDE BAND HIGH DYNAMIC RANGE AMP, 0.5 - 20 GHz

Features

- Noise Figure ≤2.5 dB
- 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. -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 ±1.0 dB Max
- Improved IN and OUT VSWR
- Gain and Phase matching

Performance Graphs

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>0.5</td>
<td>20</td>
<td>20</td>
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<tr>
<td>Noise Figure *</td>
<td>2.5</td>
<td>dB</td>
<td>dB</td>
</tr>
<tr>
<td>Gain</td>
<td>9</td>
<td>dB</td>
<td>dB</td>
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<tr>
<td>Gain Flatness</td>
<td>±1.2</td>
<td>dB</td>
<td>dB</td>
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<tr>
<td>P1dB Output Power</td>
<td>10</td>
<td>dBm</td>
<td>dBm</td>
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<tr>
<td>Input VSWR</td>
<td>2.5</td>
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</tr>
<tr>
<td>Output VSWR</td>
<td>2.5</td>
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<tr>
<td>Operating Temperature</td>
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<td>°C</td>
<td>°C</td>
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<tr>
<td>Voltage</td>
<td>+12</td>
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<td>+15</td>
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<tr>
<td>Current</td>
<td>85</td>
<td>mA</td>
<td>100</td>
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</tbody>
</table>

* Noise Sources used for measurement: 0.1-18 GHz: HP346A, 18 - 20 GHz: HP346C
N.F. Uncertainty (approx. 0.2 dB). 0.1 dB due to ENR of HP 346C, and 0.1 dB, due to gain modulation of the unit, caused by the HP 346C source impedance change in the ON and OFF state.
Noise Figures and other parameters degrade below 500 MHz.

Outline Drawing

Mounting Drawing

Drop In Module

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