B&Z Technologies • 25 Health Sciences Drive • Stony Brook • New York 11790
Phone: (631) 331-0101 • Fax: (631) 331-0117 • info@bnztech.com • www.bnztech.com

B&Z TECHNOLOGIES
Innovating to Excel

BZ0510MD1
WIDEBAND MEDIUM POWER AMPLIFIER, 5 - 10 GHz

Features
- Power Out 1 dB comp. ≥ 25 dBm
- 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
- 3 Year Warranty

Options
- Optimized Performance over Selected Bandwidth
- Internally DC Block Input (Output DC Block Standard)
- Hermetically Sealed Package
- Gain and Phase matching
- Extended bandwidth to 100 MHz.
- Internal D.C. Voltage regulation

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>5</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Noise Figure</td>
<td></td>
<td></td>
<td>3.6</td>
</tr>
<tr>
<td>Gain</td>
<td></td>
<td>32</td>
<td>33</td>
</tr>
<tr>
<td>Gain Flatness</td>
<td></td>
<td></td>
<td>±1.5</td>
</tr>
<tr>
<td>P1dB Output Power</td>
<td>25</td>
<td></td>
<td>-</td>
</tr>
<tr>
<td>Input VSWR</td>
<td></td>
<td>2.0</td>
<td>1</td>
</tr>
<tr>
<td>Output VSWR</td>
<td></td>
<td>2.0</td>
<td>1</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-55</td>
<td></td>
<td>+85</td>
</tr>
<tr>
<td>**Voltage</td>
<td>15.5</td>
<td></td>
<td>+15.5</td>
</tr>
<tr>
<td>Current</td>
<td>390</td>
<td></td>
<td>430</td>
</tr>
</tbody>
</table>

**Voltage +15V with Internal D.C. voltage Regulation available

Outline Drawing

Mounting Drawing

Performance Graphs

S11
Noise Figure (FdB)
Power 1dB Compression

Delay
S21
S11
S22

Outline Drawing

Mounting Drawing

Drop In Module

B&Z Technologies • 25 Health Sciences Drive • Stony Brook • New York 11790
Phone: (631) 331-0101 • Fax: (631) 331-0117 • info@bnztech.com • www.bnztech.com