Bi-Directional Coupler

ZFBDC20-13HP+

50Ω Up to 20W 40 to 1000 MHz

Maximum Ratings
- Operating Temperature: -55°C to 100°C
- Storage Temperature: -55°C to 100°C

Permanent damage may occur if any of these limits are exceeded.

Coaxial Connections
- INPUT 1
- OUTPUT 2
- COUPLED (forward) 4
- COUPLED (reverse) 3

Outline Drawing

Outline Dimensions (inch mm)

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2.00</td>
<td>2.00</td>
<td>.88</td>
<td>1.00</td>
<td>0.13</td>
<td>1.750</td>
</tr>
<tr>
<td></td>
<td>50.80</td>
<td>50.80</td>
<td>22.35</td>
<td>25.40</td>
<td>3.30</td>
<td>44.45</td>
</tr>
<tr>
<td>H</td>
<td>.38</td>
<td>--</td>
<td>0.50</td>
<td>1.00</td>
<td>0.50</td>
<td>grams</td>
</tr>
<tr>
<td>J</td>
<td>.65</td>
<td>--</td>
<td>12.70</td>
<td>25.40</td>
<td>12.70</td>
<td>250.0</td>
</tr>
</tbody>
</table>

Features
- excellent mainline loss, 0.4 dB typ.
- excellent directivity, 23 dB typ.
- high power, up to 20W
- rugged shielded case

Applications
- power leveling & monitoring
- GPS
- cellular/PCS

Bi-Directional Coupler Electrical Specifications

<table>
<thead>
<tr>
<th>FREQ. (MHz)</th>
<th>COUPLING (dB)</th>
<th>MAINLINE LOSS (dB)</th>
<th>DIRECTIVITY (dB)</th>
<th>VSWR (-1)</th>
<th>POWER1 INPUT (W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-100</td>
<td>19.5±0.5</td>
<td>20.5±0.7</td>
<td>23.5</td>
<td>25.1</td>
<td>1.1</td>
</tr>
<tr>
<td>50-1000</td>
<td>19.5±0.7</td>
<td>20.5±0.5</td>
<td>23.5</td>
<td>25.1</td>
<td>1.1</td>
</tr>
<tr>
<td>400-800</td>
<td>19.5±0.7</td>
<td>20.5±0.5</td>
<td>23.5</td>
<td>25.1</td>
<td>1.1</td>
</tr>
</tbody>
</table>

Notes
A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit’s applicable established test performance criteria and measurement instructions.
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