Dual Directional 50 dB N Coupler From 80 MHz to 1,000 MHz Rated To 1000 Watts

**TECHNICAL DATA SHEET PE2CP1008**

### Configuration
- Connector 1: N Female
- Connector 2: N Female
- Coupled Connectors: N Female
- Design: Dual Directional Coupler

### Electrical Specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>Minimum</th>
<th>Typical</th>
<th>Maximum</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>80</td>
<td>1,000</td>
<td></td>
<td>MHz</td>
</tr>
<tr>
<td>Directivity</td>
<td>20</td>
<td></td>
<td></td>
<td>dB</td>
</tr>
<tr>
<td>Impedance</td>
<td>50</td>
<td></td>
<td></td>
<td>Ohms</td>
</tr>
<tr>
<td>Insertion Loss</td>
<td></td>
<td>0.25</td>
<td></td>
<td>dB</td>
</tr>
<tr>
<td>Input Power</td>
<td></td>
<td>1</td>
<td></td>
<td>KWatts</td>
</tr>
<tr>
<td>Input VSWR</td>
<td></td>
<td></td>
<td>1.3:1</td>
<td></td>
</tr>
<tr>
<td>Coupling Value</td>
<td>50</td>
<td></td>
<td></td>
<td>dB</td>
</tr>
<tr>
<td>Coupling Tolerance</td>
<td></td>
<td>± 1</td>
<td></td>
<td>dB</td>
</tr>
<tr>
<td>Coupling Flatness</td>
<td></td>
<td>±0.5</td>
<td></td>
<td>dB</td>
</tr>
</tbody>
</table>

### Mechanical Specifications

**Temperature**
- Operating Range: +85 to -55 deg C

**Size**
- Length: 3 in [76.2 mm]
- Width/Dia.: 1.09 in [27.69 mm]
- Height: 3 in [76.2 mm]

**Housing Material and Plating**
- Aluminum Alloy, Chem Film

### Connectors

<table>
<thead>
<tr>
<th>Description</th>
<th>Connector 1</th>
<th>Connector 2</th>
<th>Coupled Connectors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>N Female</td>
<td>N Female</td>
<td>N Female</td>
</tr>
</tbody>
</table>

### Compliance Certifications
(visit www.Pasternack.com for current document)
- RoHS Compliant

### Plotted and Other Data
- Notes:
  - Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: Dual Directional 50 dB N Coupler From 80 MHz to 1,000 MHz Rated To 1000 Watts PE2CP1008

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TECHNICAL DATA SHEET

Dual Directional 50 dB N Coupler From 80 MHz to 1,000 MHz Rated To 1000 Watts from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: Dual Directional 50 dB N Coupler From 80 MHz to 1,000 MHz Rated To 1000 Watts PE2CP1008


The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.
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TOLERANCE .XX ± 0.02
.XXX ± 0.005
ANG. ± 1/2°

<table>
<thead>
<tr>
<th>INPUT</th>
<th>OUTPUT</th>
<th>FORWARD COUPLING</th>
<th>REFLECTED COUPLING</th>
</tr>
</thead>
<tbody>
<tr>
<td>J1</td>
<td>J2</td>
<td>J3</td>
<td>J4</td>
</tr>
<tr>
<td>J2</td>
<td>J1</td>
<td>J4</td>
<td>J3</td>
</tr>
</tbody>
</table>

* THESE DIMENSIONS AND TOLERANCES SUPERSEDE NOTE #1 ON TITLE BLOCK.

NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].