Features

- 2 Way
- 90 Degree
- Surface Mount

Description

M/A-COM’s ELPD-290 is a 2 Way 90° Power Divider in a low cost, surface mount package. Ideally suited for high volume cellular, wireless and CATV applications.

Electrical Specifications @25°C

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Units</th>
<th>Typical</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>MHz</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Insertion Loss</td>
<td>dB</td>
<td>0.7</td>
<td>—</td>
<td>1.2</td>
</tr>
<tr>
<td>Isolation</td>
<td>dB</td>
<td>20</td>
<td>18</td>
<td>—</td>
</tr>
<tr>
<td>Amplitude Unbalance</td>
<td>dB</td>
<td>—</td>
<td>—</td>
<td>1.2</td>
</tr>
<tr>
<td>Phase Unbalance</td>
<td>°</td>
<td>—</td>
<td>—</td>
<td>7.0°</td>
</tr>
<tr>
<td>Return Loss</td>
<td>dB</td>
<td>20</td>
<td>18</td>
<td>—</td>
</tr>
</tbody>
</table>

Please Note that the photograph above indicates package shape only, unit may be wired differently.

ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed.

PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce in volume is not guaranteed.
Absolute Maximum Ratings

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Absolute Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Power Rating</td>
<td>1 Watt</td>
</tr>
<tr>
<td>Internal Load Dissipation</td>
<td>0.125 Watt</td>
</tr>
<tr>
<td>Pin Temp (10 Sec)</td>
<td>260°C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-55°C to 100°C</td>
</tr>
</tbody>
</table>

Functional Configuration

<table>
<thead>
<tr>
<th>Function</th>
<th>Pin No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Connected</td>
<td>—</td>
</tr>
<tr>
<td>External 50 Ohms</td>
<td>3</td>
</tr>
<tr>
<td>Ground</td>
<td>—</td>
</tr>
<tr>
<td>Case Ground</td>
<td>—</td>
</tr>
<tr>
<td>Input</td>
<td>1</td>
</tr>
<tr>
<td>Port 1</td>
<td>2</td>
</tr>
<tr>
<td>Port 2</td>
<td>4</td>
</tr>
</tbody>
</table>

Typical Performance @ +25°C

Insertion Loss

Amplitude Unbalance

Isolation

Phase Unbalance

Output Return Loss

Input Return Loss