DESCRIPTION

DLI introduces a wide band surface mountable catalog directional coupler. This coupler incorporates DLI’s high dielectric ceramic materials which provide small size and minimal performance variation over temperature.

FEATURES

- Small Size
- Solder Surface Mount Package
- Moisture Sensitivity Level: MSL1
- Frequency Stable over Temperature
- Operating & Storage Temp: -55˚C to +125˚C
- Characteristic Impedance: 50Ω

SPECIFICATIONS*

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Frequency (GHz)</th>
<th>Min</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Passband Excess Insertion Loss* (dB)</td>
<td>2-18</td>
<td></td>
<td>1.2</td>
</tr>
<tr>
<td>Passband Return Loss (dB)</td>
<td></td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Coupling (dB)</td>
<td></td>
<td>10</td>
<td>± 1.5</td>
</tr>
<tr>
<td>Directivity (dB)</td>
<td></td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Input Power (W)</td>
<td></td>
<td>TBD</td>
<td></td>
</tr>
<tr>
<td>Size (LxWxH)</td>
<td></td>
<td>0.500 x 0.150 x .030 in</td>
<td>12.7 x 3.81 x 0.76 mm</td>
</tr>
</tbody>
</table>

*Electrical specifications based on typical mounted performance at room temperature. Insertion loss shall vary ±0.5dB over temperature.

Typical Measured Performance

*Typical measured performance mounted on RO4350B test board at 25°C.

2777 Route 20 East, Cazenovia, NY 13035| Ph.: (315)655-8710 | KCCSales@knowles.com
Physical Dimensions = inches [mm]

- 0.500 [12.70]
- 0.030 [0.76]
- 0.150 [3.81]

Recommended PCB Layout

- 50Ω trace dimensions are application specific.
- Ensure adequate grounding beneath the part.
- Trace feed locations can be horizontal, vertical, or angled.