DESCRIPTION

DLI's 6-18GHz 4-way power divider / combiner offers unmatched size and performance in a wire-bond configuration. This power divider utilizes DLI's low loss temperature stable materials which offer small size and minimal performance variation over temperature.

FEATURES

- Small Size
- Frequency Stable over Temperature
- Wire bond Package
- Excellent Repeatability
- Operating & Storage Temp: -55°C to +125°C
- Characteristic Impedance: 50Ω

SPECIFICATIONS*

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Frequency Range (GHz)</th>
<th>Min</th>
<th>Typ.</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Power Splitting (dB)</td>
<td>6-18</td>
<td>6.0</td>
<td>7.2</td>
<td></td>
</tr>
<tr>
<td>Nominal Phase Shift (Deg)</td>
<td></td>
<td>0.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amplitude Balance (dB)</td>
<td></td>
<td></td>
<td>±0.5</td>
<td></td>
</tr>
<tr>
<td>Phase Balance (Deg)</td>
<td></td>
<td></td>
<td>±3.0</td>
<td></td>
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<tr>
<td>Excess Insertion Loss (dB)</td>
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<td>1.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Return Loss (dB)</td>
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<td>14</td>
<td>15</td>
<td></td>
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<tr>
<td>Isolation (dB)</td>
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<td>16</td>
<td>20</td>
<td>TBD</td>
</tr>
<tr>
<td>Input Power (W)</td>
<td></td>
<td></td>
<td></td>
<td>TBD</td>
</tr>
</tbody>
</table>

*Electrical specifications based on typical probed performance at room temperature. Insertion loss shall vary ±0.5dB over temperature.
**Operating condition: maximum Load VSWR 1.2:1; and maximum base plate temperature 85°C

Typical Measured Performance

![Typical Measured Performance Chart]
Physical Dimensions

**Bottom View**

**Top View**

**Detail A**

- 2X .0050
- 2X .0116
- .0020
- .0090
- .0130
- 4X .0050
- 2X .0220

Units = inches

Units = mils

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