RESISTIVE POWER DIVIDER

Features

- DC to 30 GHz In-phase Power Splitting
- 1 dB Typical Insertion Loss
- Miniature Surface Mount Package
- Reflow Solderable
- Microwave Power Dividers & Couplers App Note

Electrical Specifications – Specifications guaranteed from -55 to +100°C, measured in a 50Ω system.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Frequency Range</th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
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</thead>
<tbody>
<tr>
<td>Nominal Power Splitting (dB)</td>
<td>DC to 30 GHz</td>
<td>6</td>
<td></td>
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<tr>
<td>Excess Insertion Loss (dB)</td>
<td></td>
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<td>1</td>
<td>3</td>
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<tr>
<td>Nominal Phase Shift (Degrees)</td>
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<tr>
<td>Amplitude Balance (dB)</td>
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<td>±0.25</td>
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<tr>
<td>Phase Balance (Degrees)</td>
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<td>±3</td>
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<tr>
<td>VSWR</td>
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<tr>
<td>Input Power (Watt)</td>
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</table>

Excess Insertion Loss = (Common Port to Output Port Insertion Loss) – 6 dB.

Model Number | Description

| PD-0030SMG | DC to 30 GHz Power Divider, Surface Mount, RoHS Complaint

Connectorized test fixtures available. Consult factory.

Shaded Areas are Metalized

Substrate material is 10-mil thick Rogers 5880 or Taconic TLY-5, ½ Oz Electrodeposited Cu.
Lead and Ground Plane Finish is 100-300 μ-inches 60/40 Pb/Sn Solder Plate over Cu.
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PD-0030SMG

Circuit Schematic

Typical Performance

Fig. 1. Common port to output port insertion loss.

Fig. 2. Return loss for output and common ports.

Fig. 3. Amplitude balance between output ports.

Fig. 4. Phase balance between output ports.

NOTE:
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