RESISTIVE POWER DIVIDER

PD-0010

Features
- DC to 10 GHz In-phase Power Splitting
- 0.25 dB Typical Insertion Loss
- Outstanding Phase and Amplitude Balance
- 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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<tbody>
<tr>
<td>Nominal Power Splitting (dB)</td>
<td>DC to 10 GHz</td>
<td>6</td>
<td></td>
<td></td>
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<tr>
<td>Excess Insertion Loss (dB)¹</td>
<td></td>
<td>0.25</td>
<td>1</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>±0.1</td>
<td>±0.5</td>
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<tr>
<td>Phase Balance (Degrees)</td>
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<td>±1</td>
<td>±5</td>
<td></td>
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<td>VSWR</td>
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<td>Input Power (Watt)</td>
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<td>Weight (g)</td>
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</table>

¹Excess Insertion Loss = (Common Port to Output Port Insertion Loss) – 6 dB.

Model Number | Description
--------------|-----------------!
PD-0010       | DC to 10 GHz Power Divider with SMA connectors¹

¹Default is SMA female connectors. Consult factory for other connector options.

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### Circuit Schematic

16.7 Ohm  

![Circuit Schematic Diagram]

### 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:**
Specifications are subject to change without notice. Contact Marki Microwave for the most recent specifications and data sheets.

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