WILKINSON POWER DIVIDER  PD-0535SM

Features
- 5 to 35 GHz In-phase Power Splitting
- 1.5 dB Typical Insertion Loss
- 18 dB Typical Output to Output Isolation
- Outstanding Amplitude and Phase Balance
- Surface Mount Package
- 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 (GHz)</th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Power Splitting (dB)</td>
<td></td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nominal Phase Shift (Degrees)</td>
<td></td>
<td>0</td>
<td></td>
<td></td>
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<tr>
<td>Amplitude Balance (dB)</td>
<td></td>
<td></td>
<td>±0.25</td>
<td></td>
</tr>
<tr>
<td>Phase Balance (Degrees)</td>
<td></td>
<td></td>
<td>±3</td>
<td></td>
</tr>
</tbody>
</table>
| Excess Insertion Loss (dB)
  \(^2\)                      |                       | 1.5 | 3    |     |
| VSWR                      |                       | 1.5 |      |     |
| Isolation (dB)            |                       | 18  |      |     |
| Power As Divider (W)      |                       | 10  |      |     |
| Power As Combiner (W)     |                       | 1   |      |     |

1Specifications guaranteed when operated in a 50Ω system.

2Excess Insertion Loss = (Common Port to Output Port Insertion Loss) – 3 dB.

Model Number | Description
-------------|-------------
PD-0535SM    | 5 - 35 GHz Power Divider, Surface Mount

Substrate material is 5-mil thick Rogers 5880 or Taconic TLY-5, ½ Oz Electrodeposited Cu.
I/O Pads & Ground Plane Finish is 100-300 μ-inches 60/40 Pb/Sn Solder Plate, over Cu.
Drying bake required after aqueous wash.

215 Vineyard Court, Morgan Hill, CA 95037 | Ph: 408.778.4200 | Fax 408.778.4300 | info@markimicrowave.com
WILKINSON POWER DIVIDER

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.

Fig. 5. Isolation between output ports.

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