



## WILKINSON POWER DIVIDER

**PD-0R510**

### Features

- 0.5 to 10 GHz In-phase Power Splitting
- 22 dB Typical Output to Output Isolation
- 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.

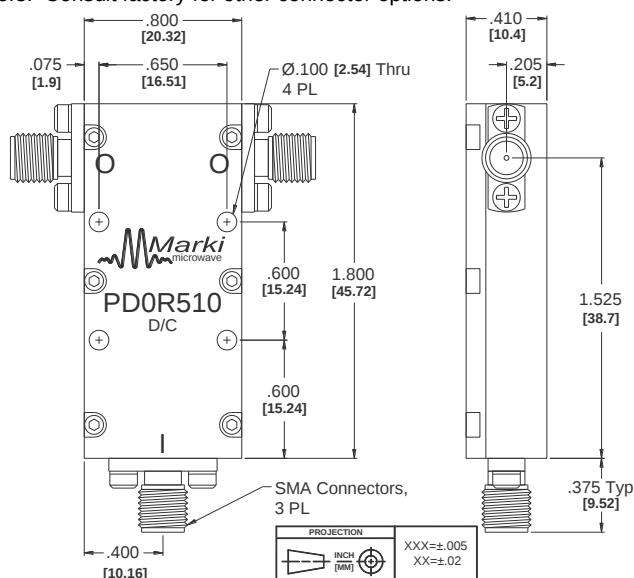
| Parameter <sup>1</sup>                  | Frequency Range (GHz)        | Min      | Typ        | Max  |
|-----------------------------------------|------------------------------|----------|------------|------|
| Nominal Power Splitting (dB)            | 0.5 to 10                    |          | 3          |      |
| Nominal Phase Shift (Degrees)           | 0.5 to 10                    |          | 0          |      |
| Amplitude Balance (dB)                  | 0.5 to 10                    |          | ±0.1       | ±0.5 |
| Phase Balance (Degrees)                 | 0.5 to 10                    |          | ±1         | ±5   |
| Excess Insertion Loss (dB) <sup>2</sup> | 0.5 to 10                    |          | 0.9        | 1.8  |
| VSWR                                    | 1 to 9<br>0.5 to 1 & 9 to 10 |          | 1.2<br>1.6 | 1.5  |
| Isolation (dB)                          | 1 to 10<br>0.5 to 1          | 15<br>10 | 22<br>15   |      |
| Power (W)                               |                              |          |            | 1    |
| Weight (g)                              |                              |          | 60         |      |

<sup>1</sup>Specifications guaranteed when operated in a 50Ω system.

<sup>2</sup>Excess Insertion Loss = (Common Port to Output Port Insertion Loss) – 3 dB.

| Model Number | Description                                                 |
|--------------|-------------------------------------------------------------|
| PD-0R510     | 0.5 - 10 GHz Power Divider with SMA connectors <sup>1</sup> |

<sup>1</sup>Default is SMA female connectors. Consult factory for other connector options.





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### Typical Performance

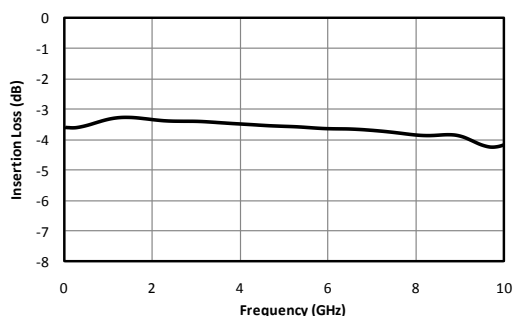


Fig. 1. Common port to output port insertion loss.

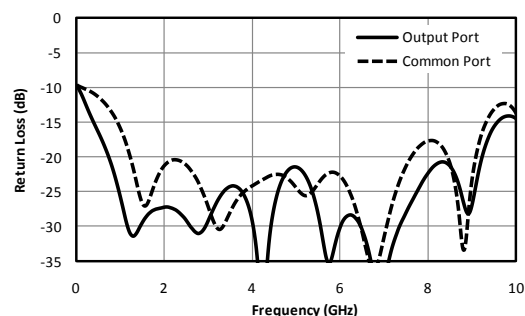


Fig. 2. Return loss for output and common ports.

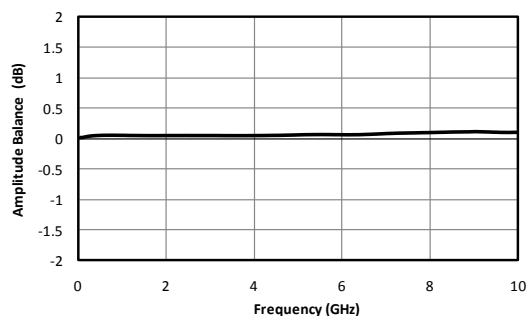


Fig. 3. Amplitude balance between output ports.

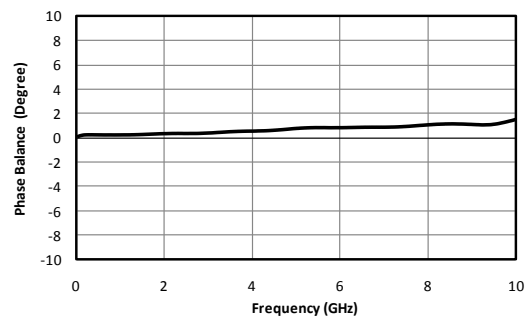


Fig. 4. Phase balance between output ports.

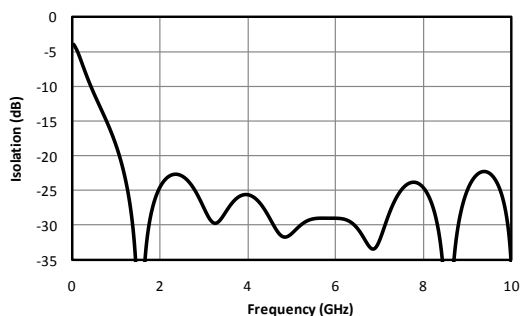


Fig. 5. Isolation between output ports.

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