

## 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](#)



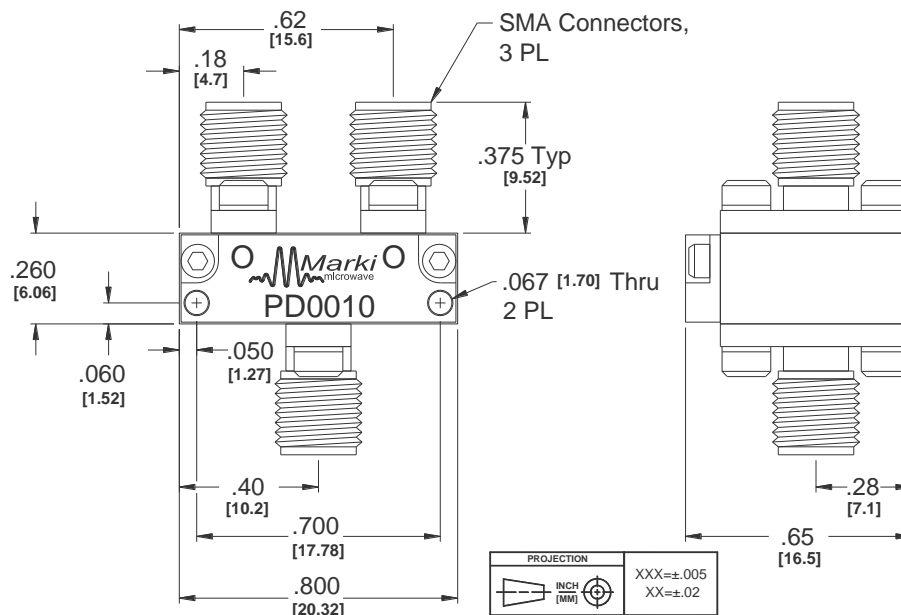
**Electrical Specifications** – Specifications guaranteed from -55 to +100°C, measured in a 50Ω system.

Parameter	Frequency Range	Min	Typ	Max
Nominal Power Splitting (dB)	DC to 10 GHz		6	
Excess Insertion Loss (dB) <sup>1</sup>			0.25	1
Nominal Phase Shift (Degrees)			0	
Amplitude Balance (dB)			±0.1	±0.5
Phase Balance (Degrees)			±1	±5
VSWR			1.2	1.45
Input Power (Watt)				1
Weight (g)				10.5

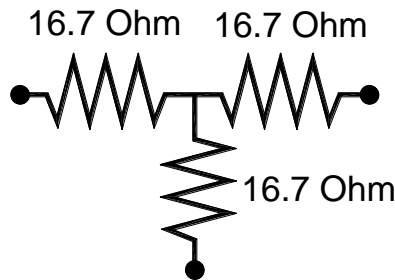
<sup>1</sup>Excess Insertion Loss = (Common Port to Output Port Insertion Loss) – 6 dB.

Model Number	Description
PD-0010	DC to 10 GHz Power Divider with SMA connectors <sup>1</sup>

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



**Circuit Schematic**



**Typical Performance**

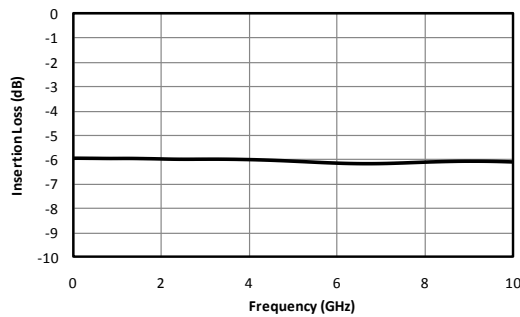


Fig. 1. Common port to output port insertion loss.

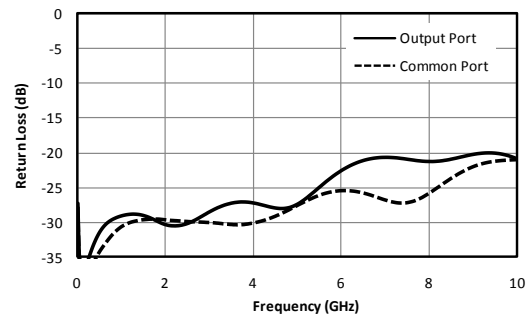


Fig. 2. Return loss for output and common ports.

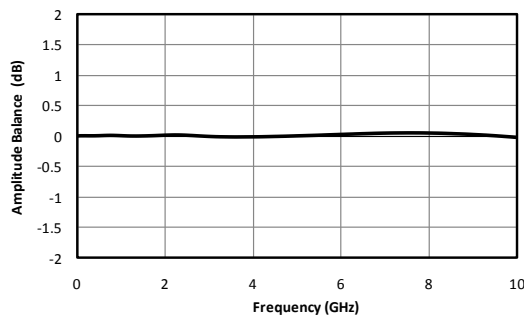


Fig. 3. Amplitude balance between output ports.

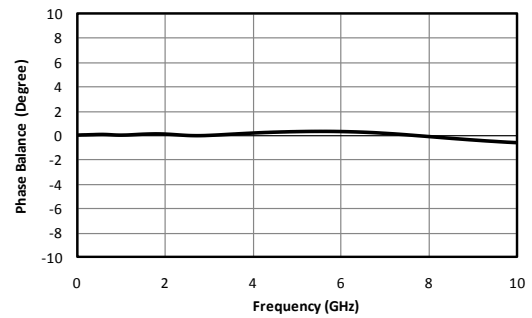


Fig. 4. Phase balance between output ports.

**NOTE:**

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

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