

## **LEAD-FREE / RoHS-COMPLIANT**

## **4-WAY WILKINSON POWER DIVIDER**

### PD4-0126

#### **Features**

- 1 to 26.5 GHz In-phase Power Splitting
- Outstanding Output to Output Isolation
- Outstanding Phase and Amplitude Balance
- Microwave Power Dividers & Couplers App Note



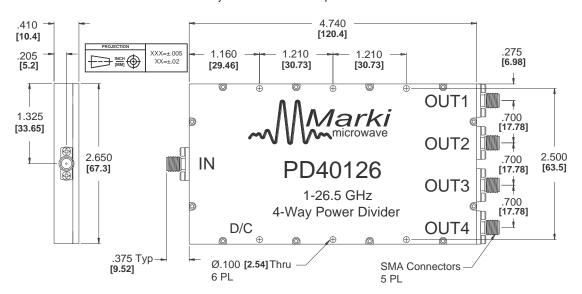
**Electrical Specifications -** Specifications guaranteed from -55 to +100°C, measured in a  $50\Omega$  system.

Parameter	Frequency Range (GHz)	Min	Тур	Max
Nominal Power Splitting (dB)	1 to 26.5		6	
Nominal Phase Balance (Degrees)	1 to 26.5		0	
Amplitude Balance (dB)	1 to 26.5		±0.3	±0.9
Phase Balance (Degrees)	1 to 26.5		±3	±10
Excess Insertion Loss (dB) <sup>1</sup>	1 to 26.5		1.5	
VSWR	1.8 to 26.5		1.5	
Isolation (dB)	1.6 to 26.5	15	See Plot	
	1 to 1.6	10		
Power As Divider (W)				10
Power As Combiner (W)				1
Weight (g)			220	

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

Model Number	Description
PD4-0126	1 – 26.5 GHz Power Divider with SMA connectors <sup>1</sup> , LEAD-FREE/RoHS COMPLIANT

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



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## **Typical Performance**

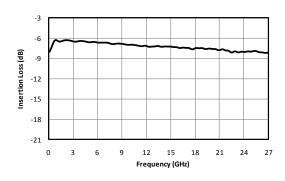


Fig. 1. Common port to output port insertion loss.

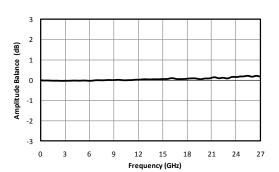


Fig. 3. Amplitude balance between output ports.

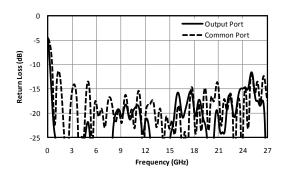


Fig. 2. Return loss for output and common ports.

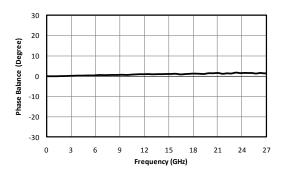


Fig. 4. Phase balance between output ports.

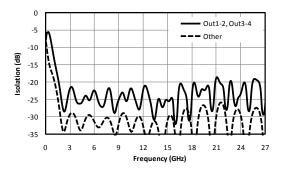


Fig. 5. Isolation between output ports.



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## **Revision History**

Revision code	Revision Date	Comment
Е	10/2020	RoHS Assembly

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