

LEAD-FREE / RoHS-COMPLIANT

ULTRA-WIDEBAND WILKINSON POWER DIVIDER

PD-0R413

Features

- 0.4 to 13.2 GHz In-phase Power Splitting
- 24 dB Typical Output to Output Isolation
- Outstanding Phase and Amplitude Balance
- Microwave Power Dividers & Couplers App Note

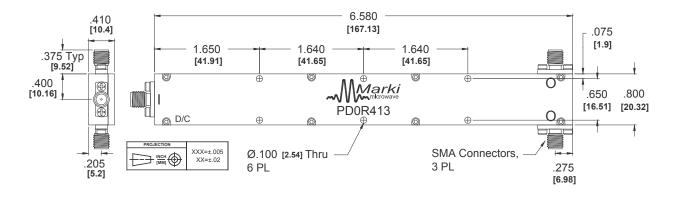
Electrical Specifications - Specifications guaranteed from -55 to +100 $^{\circ}$ C, measured in a 50 Ω system.

Parameter	Frequency Range (GHz)	Min	Тур	Max
Nominal Power Splitting (dB)	0.4 to 13.2		3	
Nominal Phase Shift (Degrees)	0.4 to 13.2		0	
Amplitude Balance (dB)	0.4 to 13.2		±0.05	±0.5
Phase Balance (Degrees)	0.4 to 13.2		±1	±5
Excess Insertion Loss (dB) ¹	0.4 to 13.2		1	2
VSWR	0.6 to 12.8		1.2	1.5
	0.4 to 0.6 & 12.8 to 13.2		1.5	1.8
Isolation (dB)	0.6 to 13.2	15	24	
	0.4 to 0.6	10	15	
Power As Divider(W)				10
Power As Combiner (W)				1
Weight (g)			84	

¹Excess Insertion Loss = (Common Port to Output Port Insertion Loss) – 3 dB.

Model Number	Description
PD-0R413	0.4 – 13.2 GHz Power Divider with SMA connectors ¹ LEAD-FREE/RoHS COMPLIANT

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



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Page 2

Typical Performance

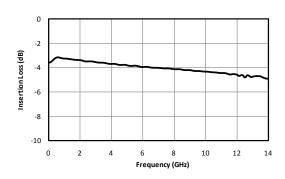


Fig. 1. Common port to output port insertion loss.

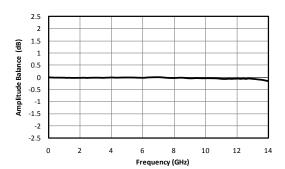


Fig. 3. Amplitude balance between output ports.

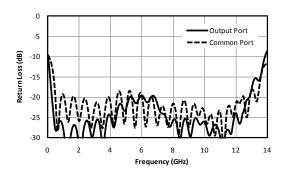


Fig. 2. Return loss for output and common ports.

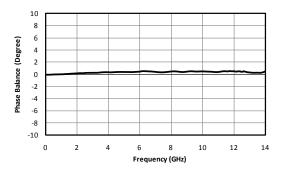


Fig. 4. Phase balance between output ports.

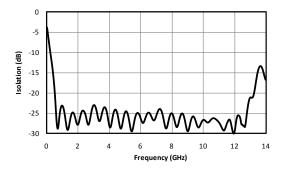


Fig. 5. Isolation between output ports.

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