



DIRECTIONAL COUPLER

C13-0126

The C13-0126 is a broadband 1-26.5 GHz, 13 dB directional coupler. The multisection tri-plate stripline design exhibits excellent coupling flatness and VSWR at all ports. Custom designs are also available, contact the factory for details.



Features

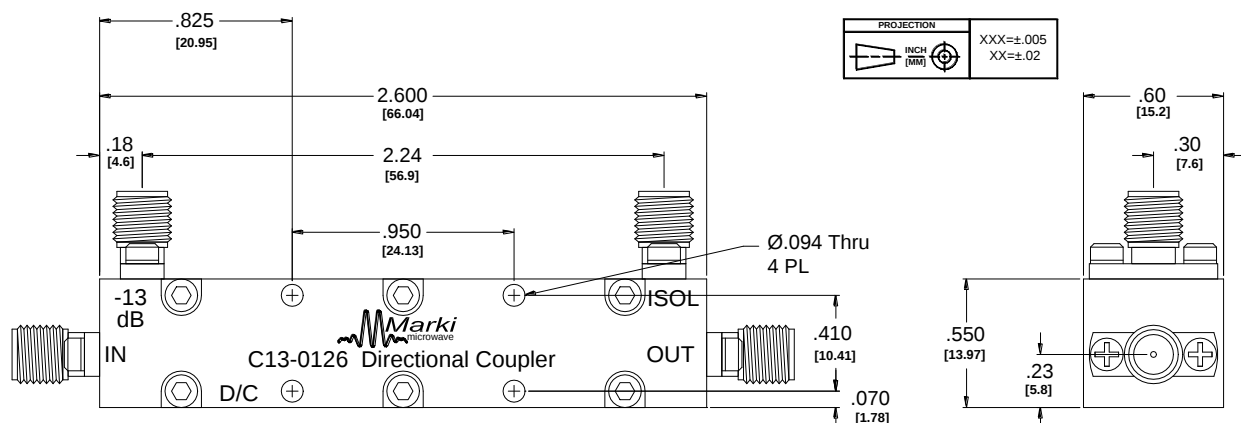
- Broadband Performance
- Excellent Coupling Flatness
- High Directivity
- Low VSWR
- [Microwave Power Dividers & Couplers App Note](#)

Electrical Specifications

Parameter ¹	Frequency Range (GHz)	Min	Typ	Max
Mean Coupling (dB)	1-26.5		13	
Amplitude Flatness (dB) ²			±0.6	±1.6
Direct Line Insertion Loss (dB)				1.4
VSWR			1.15	1.35
Directivity (dB)	1-20	15	20	
	20-26.5	13	16	
Weight (g)			45	

¹Specifications guaranteed when operated in a 50Ω system.

²Deviation from average coupling.



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Typical Performance

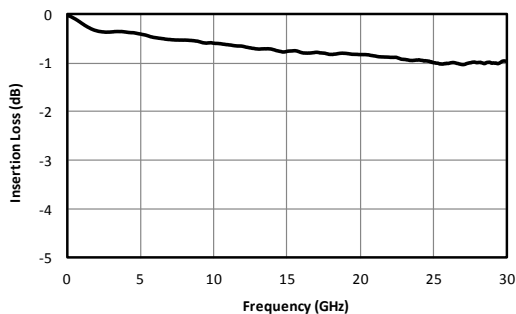


Fig. 1. Direct line insertion loss.

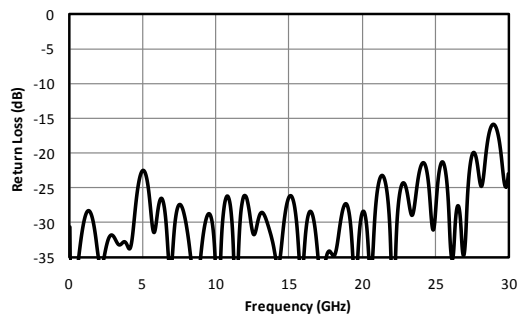


Fig. 2. Typical port return loss.

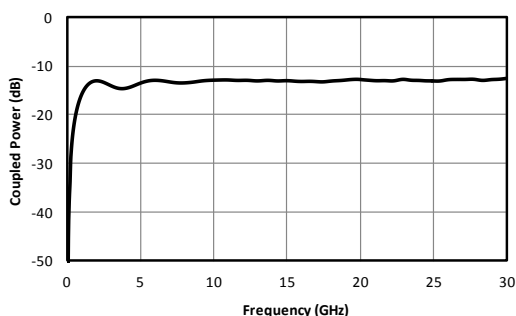


Fig. 3. Coupled port power.

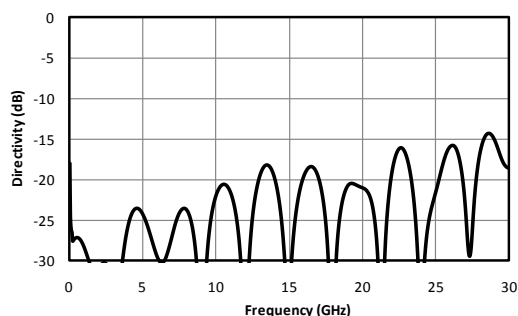


Fig. 4. Typical directivity.

Model Number	Description
C13-0126	1-26.5 GHz 13 dB Directional Coupler with SMA connectors

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

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