

DIRECTIONAL COUPLER

C10-0226

The C10-0226 is a broadband 2-26.5 GHz, 10 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

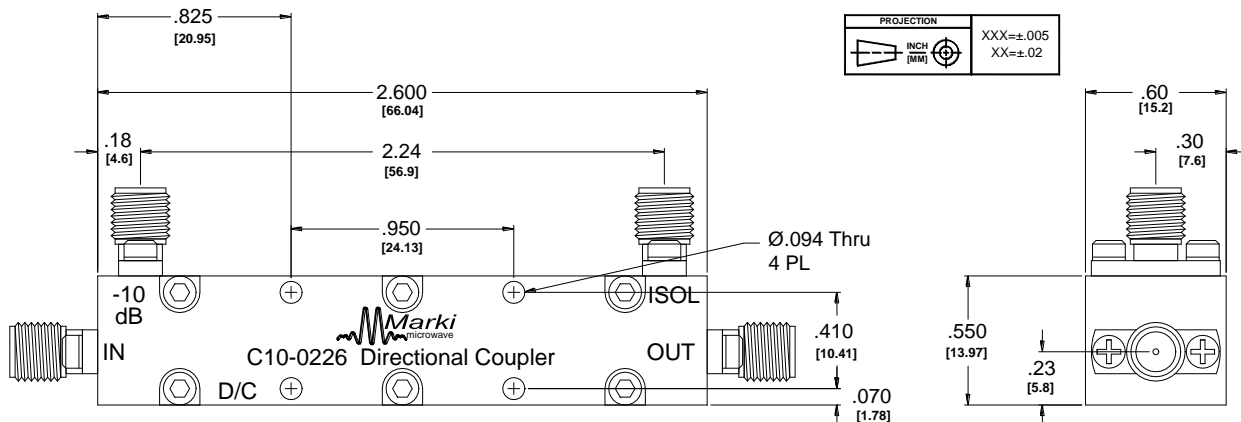
- Broadband Performance
- Excellent Coupling Flatness
- High Directivity
- Low VSWR
- [Microwave Power Dividers & Couplers App Note](#)

Electrical Specifications

Parameter ¹	Frequency Range (GHz)	Min	Typ	Max
Mean Coupling (dB)			10	
Amplitude Flatness (dB) ²			±0.6	±1.2
Direct Line Insertion Loss (dB)				2
VSWR	2 to 20		1.15	1.35
	20 to 26.5			1.5
Directivity (dB)	2 to 20	15	22	
	20 to 26.5	12	18	
Weight (g)			45	

¹Specifications guaranteed when operated in a 50Ω system.

²Deviation from average coupling.



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Typical Performance

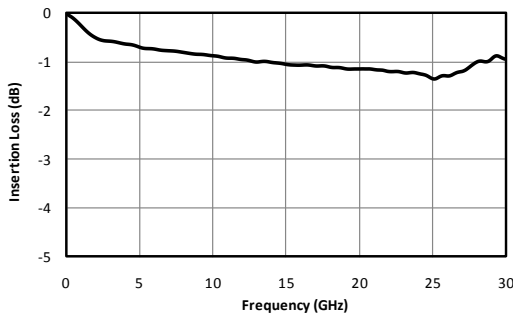


Fig. 1. Direct line insertion loss.

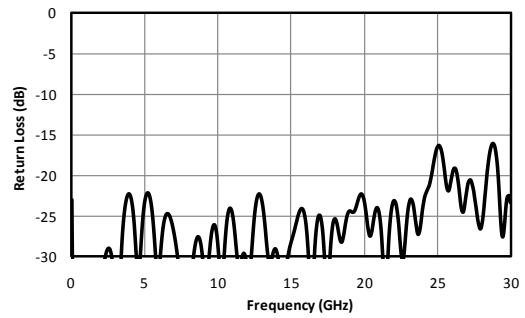


Fig. 2. Typical port return loss.

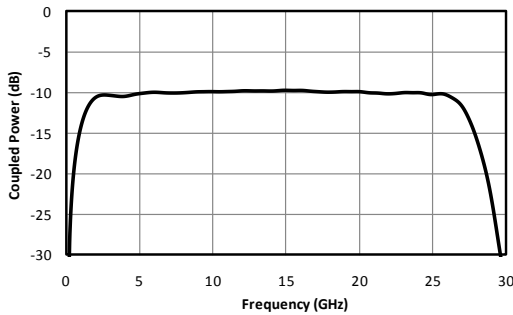


Fig. 3. Coupled port power.

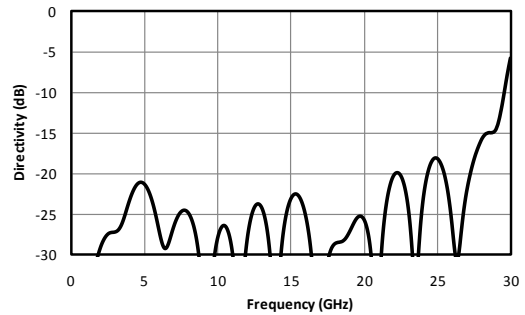


Fig. 4. Typical directivity.

Model Number	Description
C10-0226	2-26.5 GHz 10 dB Directional Coupler with SMA connectors ¹

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

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