

## DIRECTIONAL COUPLER

## C13-0150

The C13-0150 is an ultra broadband 1-50 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

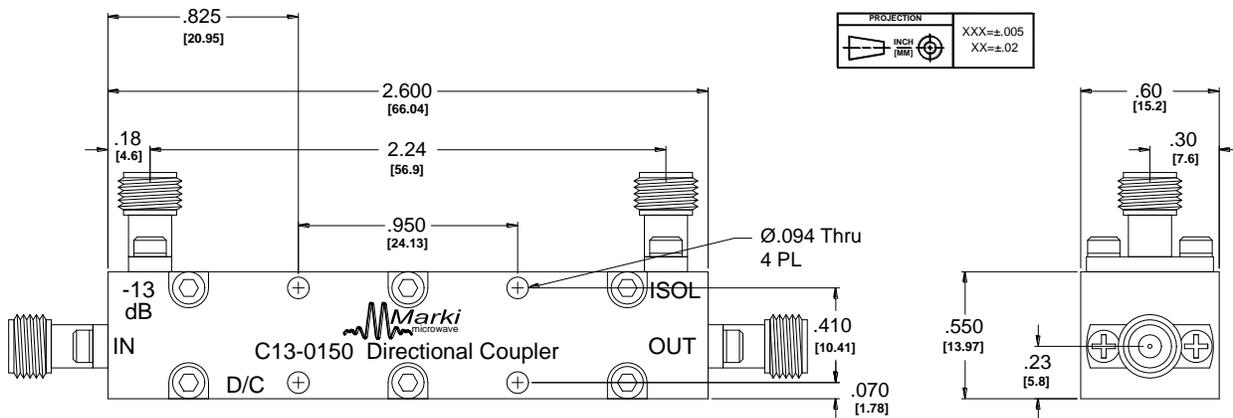
- Ultra Broadband Performance
- Excellent Coupling Flatness
- High Directivity
- Low VSWR
- [Microwave Power Dividers & Couplers App Note](#)

### Electrical Specifications

Parameter <sup>1</sup>	Frequency Range (GHz)	Min	Typ	Max
Mean Coupling (dB)	1-50		13	
Amplitude Flatness (dB) <sup>2</sup>	1-50		±0.75	±1.75
Direct Line Insertion Loss (dB)	1-50			2.2
VSWR	1-20		1.25	1.4
	20-50			1.65
Directivity (dB)	1-30	13	16	
	30-50	9	12	
Weight (g)			45	

<sup>1</sup>Specifications guaranteed when operated in a 50Ω system.

<sup>2</sup>Deviation from average coupling.



Typical Performance

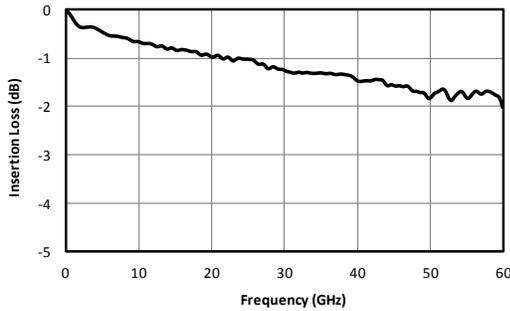


Fig. 1. Direct line insertion loss.

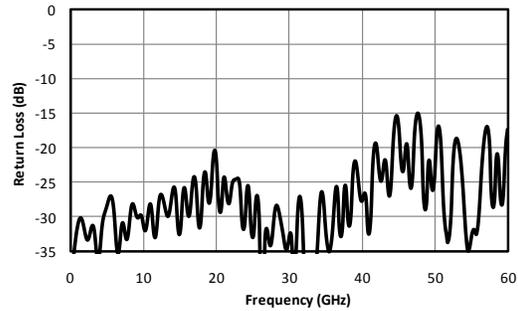


Fig. 2. Typical port return loss.

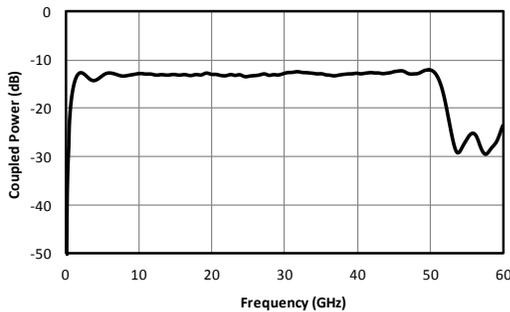


Fig. 3. Coupled port power.

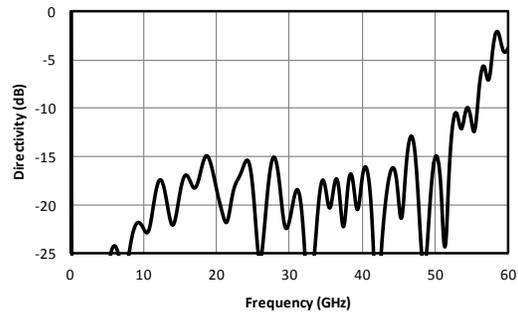


Fig. 4. Typical directivity.

Model Number	Description
C13-0150	1-50 GHz 13 dB Directional Coupler with 2.4 mm connectors

<sup>1</sup>Default is 2.4 mm female connectors. Consult factory for other connector options.

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