

## DIRECTIONAL COUPLER

**C13-0140**

The C13-0140 is a broadband 1-40 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

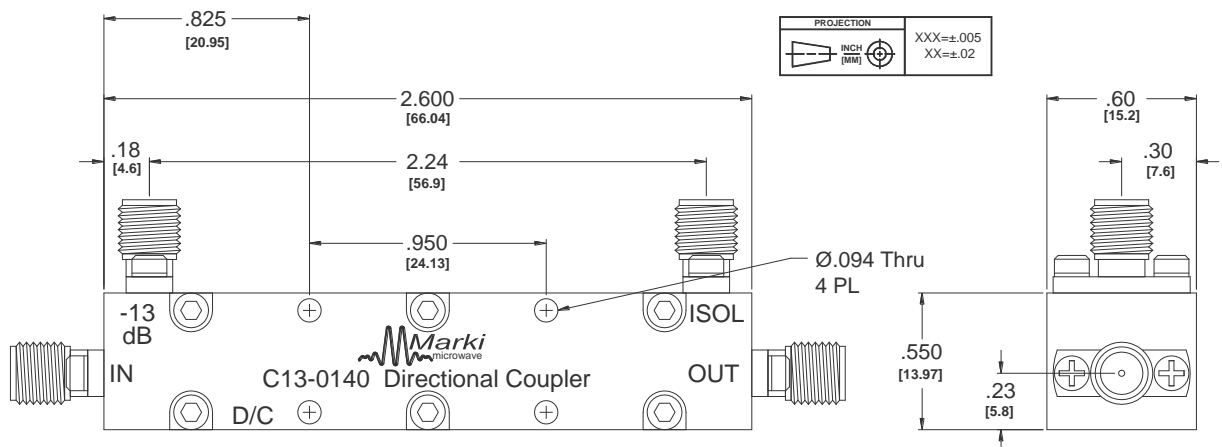
- Broadband Performance
- Excellent Coupling Flatness
- High Directivity
- Low VSWR

### Electrical Specifications

Parameter <sup>1</sup>	Frequency Range (GHz)	Min	Typ	Max
Mean Coupling (dB)			13	
Amplitude Flatness (dB) <sup>2</sup>			±1	±2.2
Direct Line Insertion Loss (dB)				3
VSWR	1 to 30			1.35
	30 to 40			1.5
Directivity (dB)	1 to 20	13	16	
	20 to 40	9	13	
Weight (g)			45	

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

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



**Typical Performance**

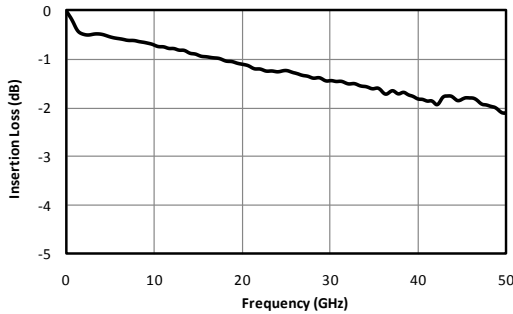


Fig. 1. Direct line insertion loss.

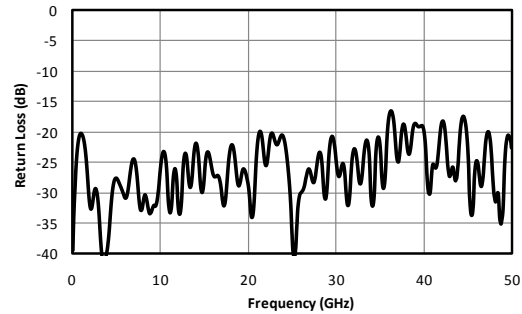


Fig. 2. Typical port return loss.

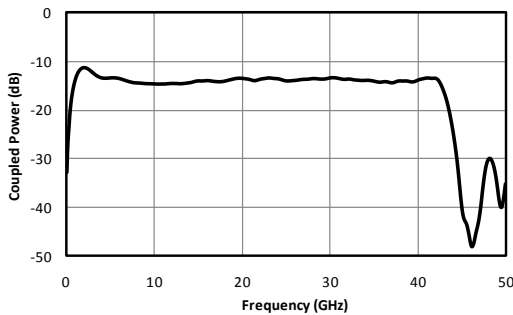


Fig. 3. Coupled port power.

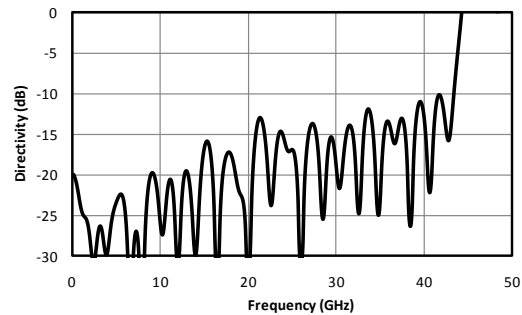


Fig. 4. Typical directivity.

Model Number	Description
C13-0140	1-40 GHz 13 dB Directional Coupler with 2.92 mm Female connectors

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