

## DIRECTIONAL COUPLER

C10-0450

The C10-0450 is a broadband, 4-50 GHz, 10 dB directional coupler. The multisection tri-plate stripline design exhibits excellent coupling flatness and VSWR to 50 GHz. Custom designs are also available, contact the factory for details.

### Features

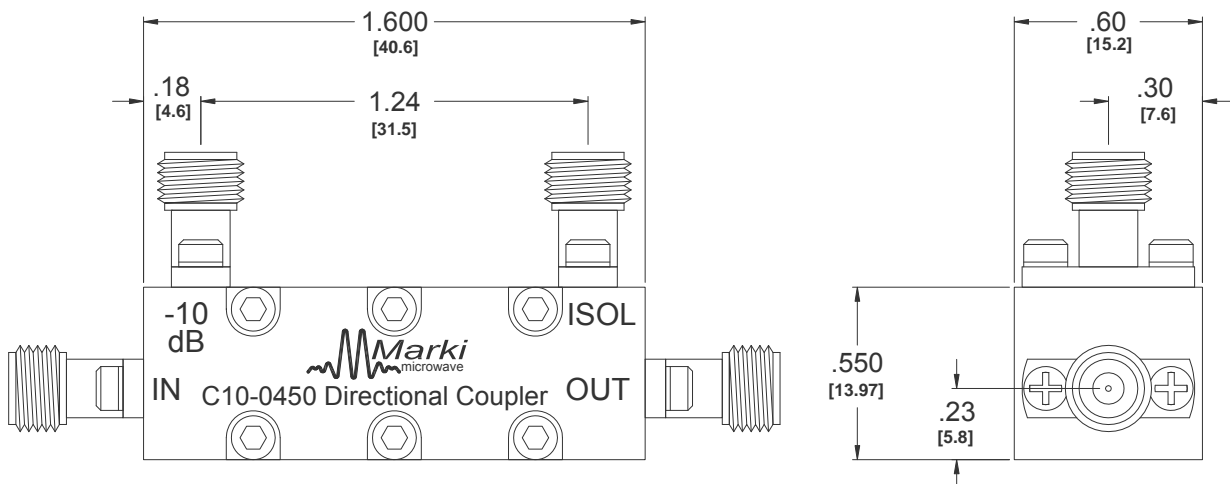
- Broadband performance
- Excellent amplitude and phase balance
- High isolation
- Outstanding VSWR



### Electrical Specifications

Parameter <sup>1</sup>	Frequency Range (GHz)	Min	Typ	Max
Mean Coupling (dB)			10	
Amplitude Flatness (dB)			±0.5	±1.5
Direct Line Insertion Loss (dB)				3
VSWR				1.4
Directivity (dB)		9	13	
Weight (g)			35	

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



Typical Performance

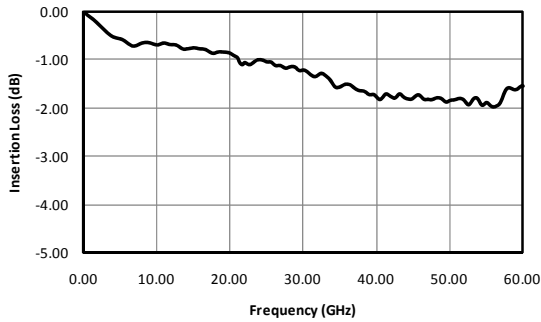


Fig. 1. Direct line insertion loss.

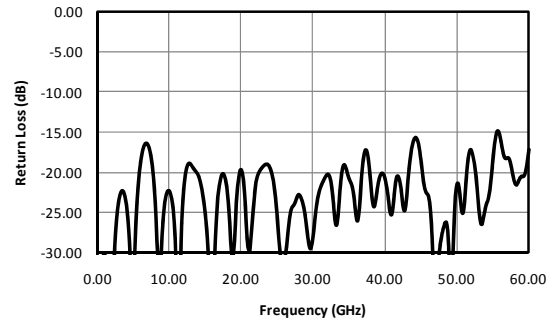


Fig. 2. Typical port return loss.

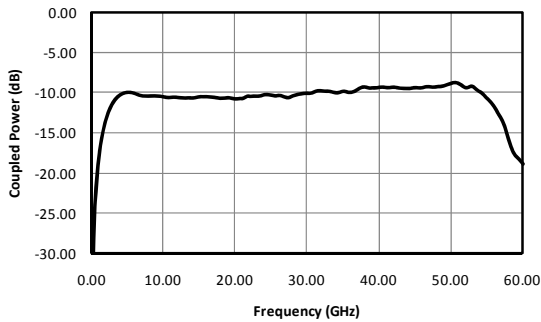


Fig. 3. Coupled port power.

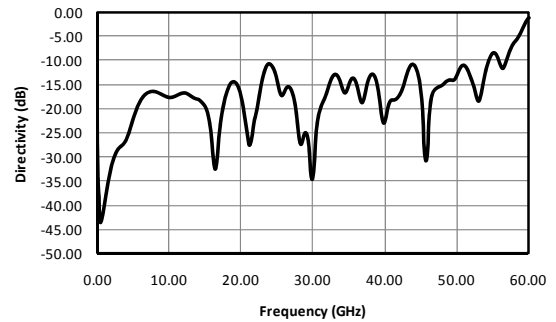


Fig. 4. Typical directivity.

Model Number	Description
C10-0450	4-50 GHz 10 dB Directional Coupler with 2.40 mm Female connectors <sup>1</sup>

<sup>1</sup>Default is 2.40 mm female connectors. Contact factory for other connector options.

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