

LEAD-FREE / RoHS-COMPLIANT

DIRECTIONAL COUPLER

C10-0667

The C10-0667 is a broadband 6-67 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

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

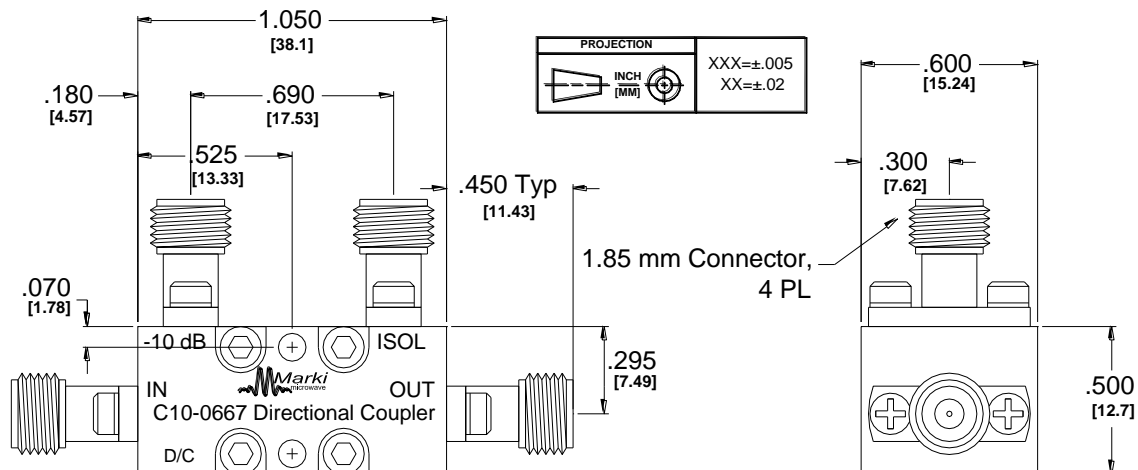


Electrical Specifications

Parameter ¹	Frequency Range (GHz)	Min	Typ	Max
Mean Coupling (dB)	6-67		10	
Amplitude Flatness (dB) ²			±0.8	
Direct Line Insertion Loss (dB)	DC-67			2.5
VSWR	6-30		1.2	1.45
	30-67		1.5	
Directivity (dB)	6-30	13	17	
	30-67	8	13	
Weight (g)			25	

¹Specifications guaranteed when operated in a 50Ω system.

²Deviation from average coupling.



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Typical Performance

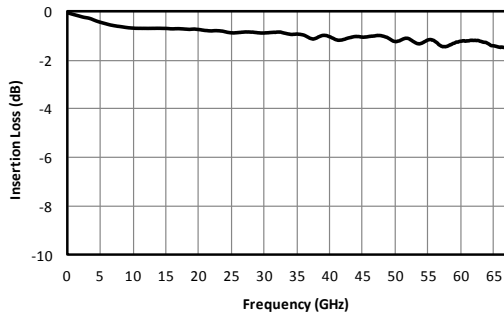


Fig. 1. Direct line insertion loss.

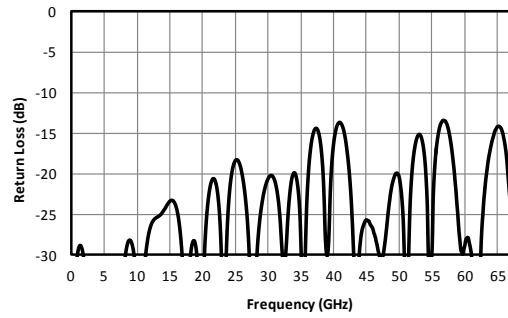


Fig. 2. Typical port return loss.

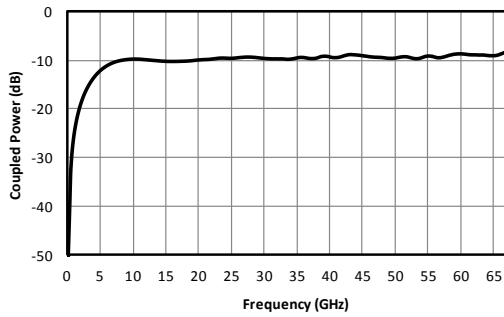


Fig. 3. Coupled port power.

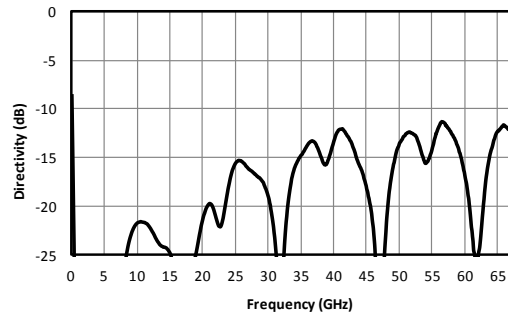


Fig. 4. Typical directivity.

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Model Number	Description
C10-0667	6-67 GHz 10 dB Directional Coupler with 1.85 mm connectors ¹ , LEAD-FREE/ROHS COMPLIANT

¹Default is 1.85 mm female connectors. Consult factory for other connector options.

Revision History

Revision code	Revision Date	Comment
B	4/2020	Updated Direct Line IL specs

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