

## LEAD-FREE / RoHS-COMPLIANT

### DIRECTIONAL COUPLER

**C20-0667**

The C20-0667 is a broadband 6-67 GHz, 20 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](#)

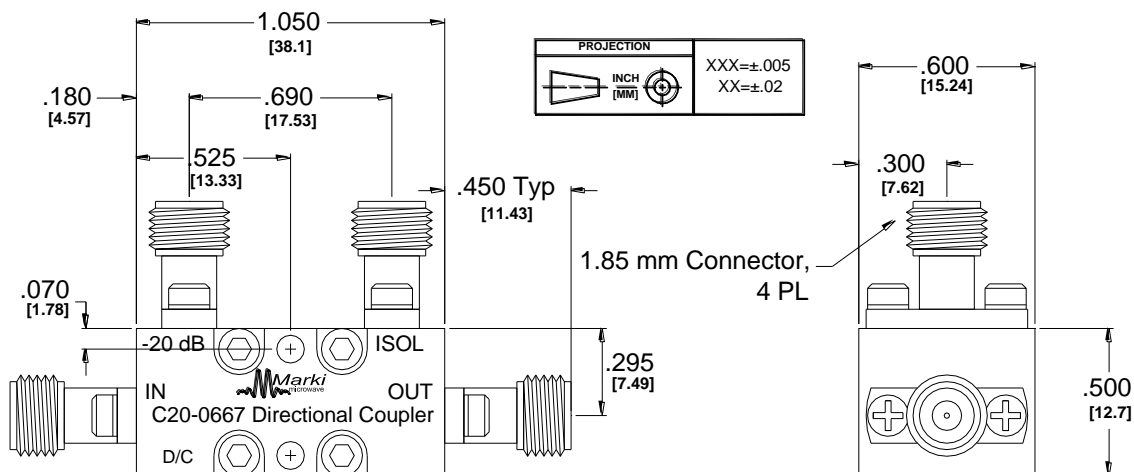


#### Electrical Specifications

Parameter <sup>1</sup>	Frequency Range (GHz)	Min	Typ	Max
Mean Coupling (dB)	6-67		20	
Amplitude Flatness (dB) <sup>2</sup>			±0.8	
Direct Line Insertion Loss (dB)	DC-67			1.6
VSWR	6-30		1.25	1.55
	30-67		1.55	
Directivity (dB)	6-30	13	17	
	30-67	8	13	
Weight (g)			25	

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

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



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## Typical Performance

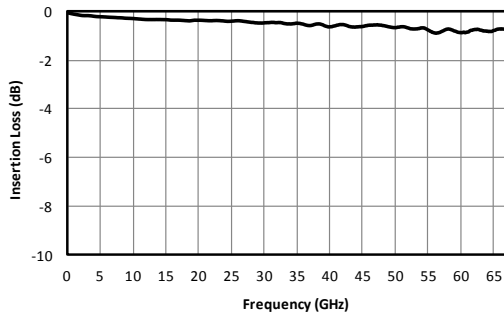


Fig. 1. Direct line insertion loss.

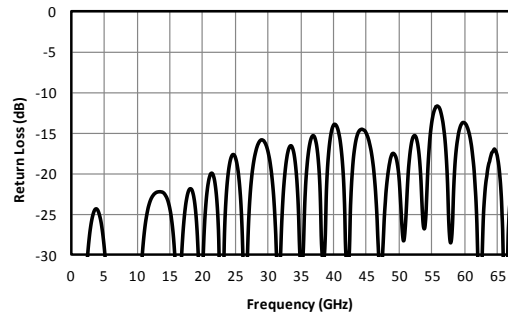


Fig. 2. Typical port return loss.

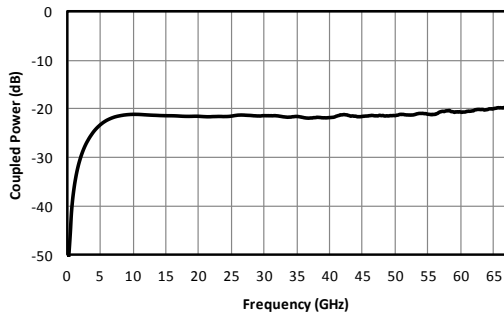


Fig. 3. Coupled port power.

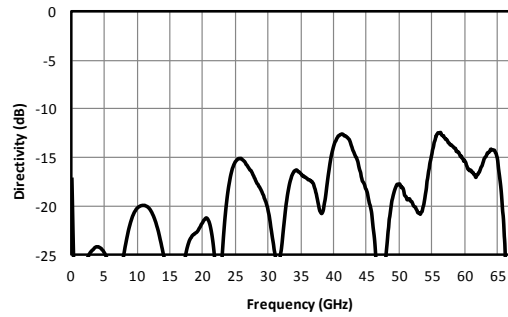


Fig. 4. Typical directivity.

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Model Number	Description
C20-0667	6-67 GHz 20 dB Directional Coupler with 1.85 mm connectors <sup>1</sup> , <b>LEAD-FREE/RoHS COMPLIANT</b>

<sup>1</sup>Default 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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