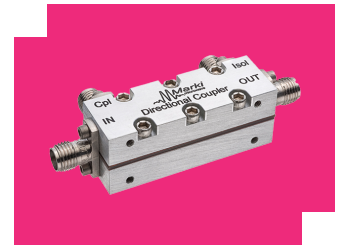


C16-0667 DIRECTIONAL COUPLER

DEVICE OVERVIEW

General Description

The C16-0667 is a broadband 6-67 GHz, 16 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

Applications

N/A

Functional Block Diagram



Directional Coupler

Part Ordering Options

Part Number	Description	Connectors	Green Status	Product Lifecycle	Export Classification
C16-0667	DIRECTIONAL COUPLER	<u>Standard</u>	REACH RoHS	Released	EAR99

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Revision History

Revision Code	Revision Date	Comment
B	2020-04-01	Updated Direct Line IL specs

Specifications

Absolute Maximum Ratings

Parameter	Maximum Rating	Unit
RF Power Handling	10	W
Minimum Operating Temperature	-55	°C
Minimum Storage Temperature	-65	°C
Maximum Storage Temperature	125	°C
Maximum Operating Temperature	100	°C
Minimum Operating Temperature	-55	°C
Maximum Operating Temperature	100	°C
Minimum Storage Temperature	-65	°C
Maximum Operating Temperature	125	°C

Package Information

Parameter	Details	Rating
Weight	-	25g
Dimensions	-	38.1 x 12.7 mm

Electrical Specifications

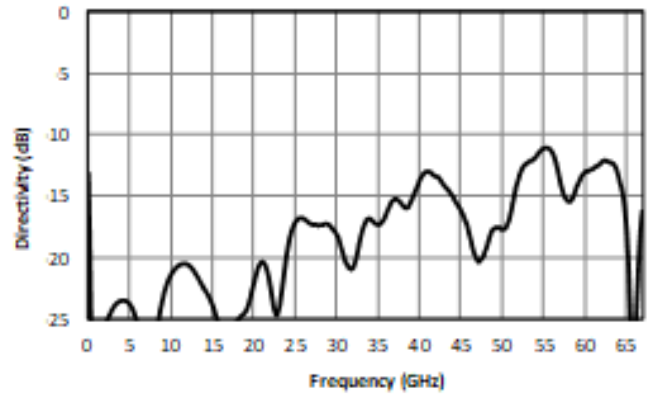
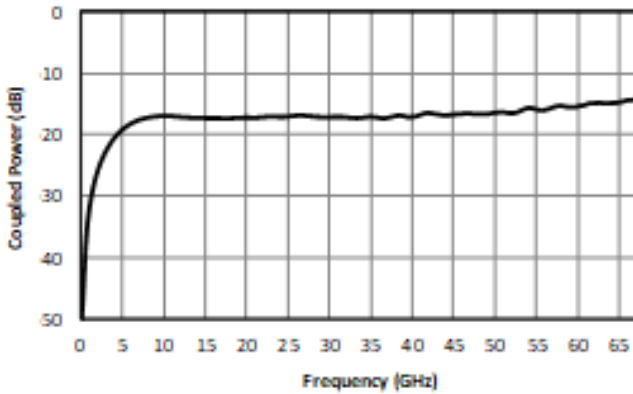
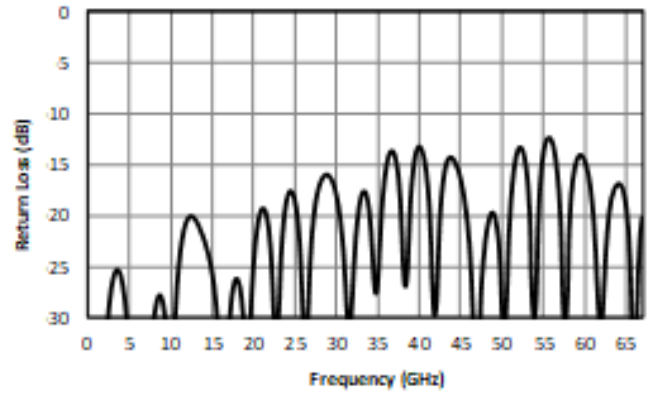
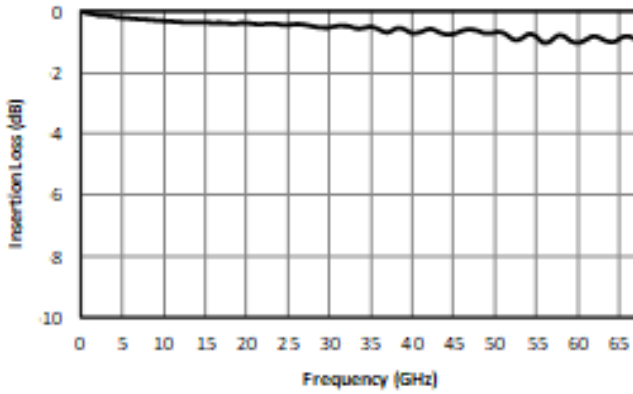
Specifications guaranteed when operated in a 50Ω system.

Parameter	Test Conditions	Minimum Frequency (GHz)	Maximum Frequency (GHz)	Min	Typ	Max	Unit
Amplitude Flatness ¹	-	6	67	-	0.9	-	dB
Directivity	-	6	30	13	17	-	dB
Directivity	-	30	67	8	13	-	dB
Direct Line Insertion Loss	DC-67	-	-	-	-	1.8	dB
Mean Coupling	-	6	67	-	16	-	dB
VSWR	-	6	30	-	1.25	1.55	
VSWR	-	30	67	-	1.55	-	

^[1] Deviation from average coupling.

The electrical specifications apply at TA=+25°C in a 50Ω system

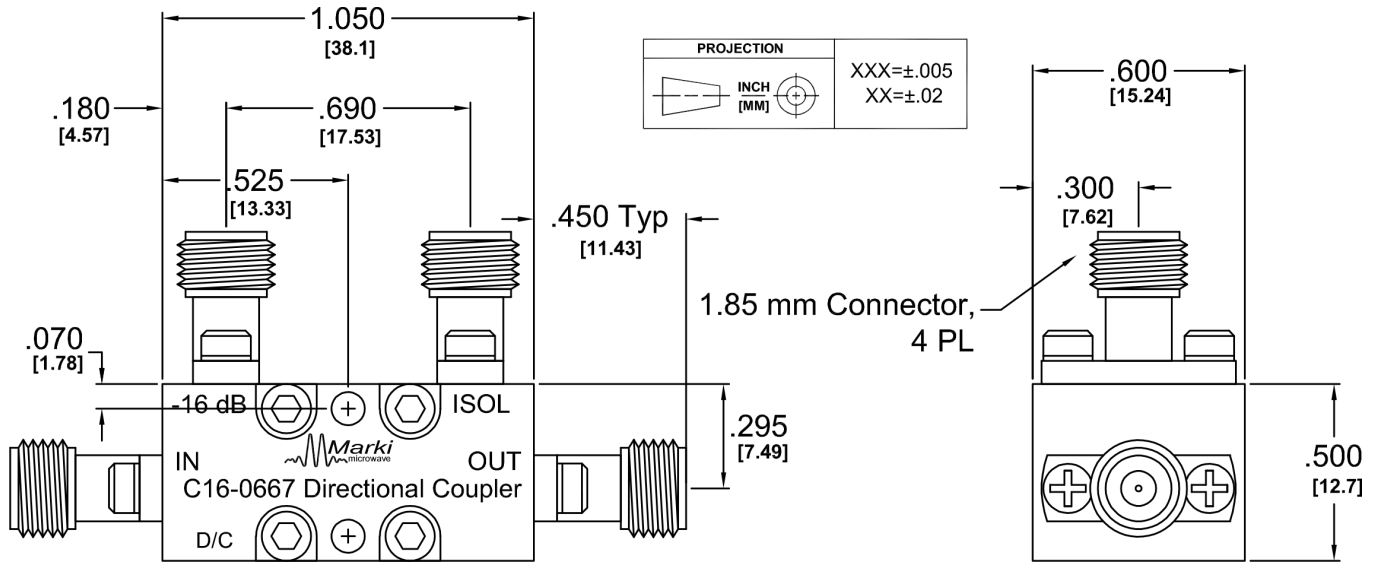
Typical Performance



Mechanical Data

Outline Drawing

Download : [Outline 2D Drawing](#) | [Outline 3D Drawing](#) | [Outline 3D STP](#)



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