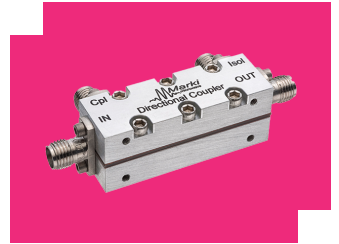


# C20-0667 DIRECTIONAL COUPLER

## DEVICE OVERVIEW

### General Description

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.



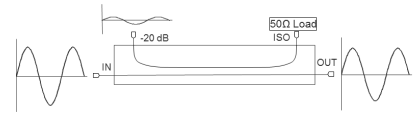
### Features

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

### Applications

N/A

### Functional Block Diagram



### Part Ordering Options

Part Number	Description	Connectors	Green Status	Product Lifecycle	Export Classification
C20-0667	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

## Port Configuration and Functions

### Port Functions

Port	Function	Connector Type	Description	DC Equivalent Circuit
-20dB	-20 Coupled Output	1.85F	-20dB Coupled Output Port	-
IN	RF Input	1.85F	RF Input Port	-
ISOL	Isolated	1.85F	Isolated Port	-
OUT	RF Output	1.85F	RF Output Port	-

**Specifications**

**Absolute Maximum Ratings**

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

**Package Information**

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

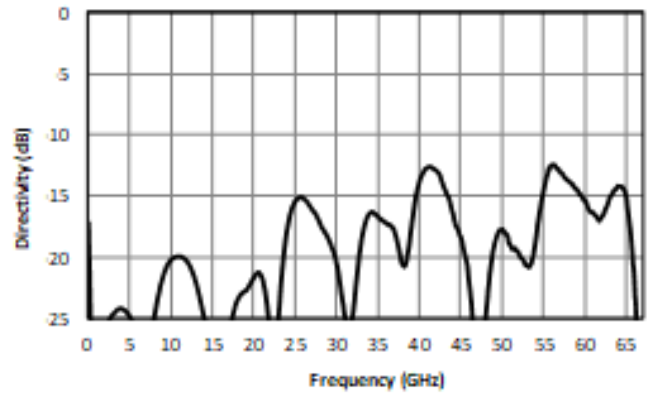
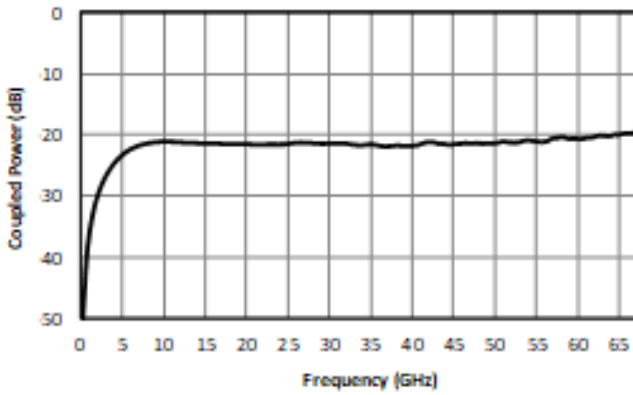
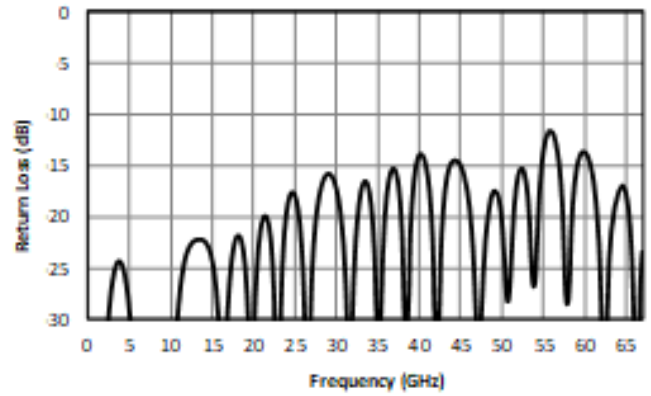
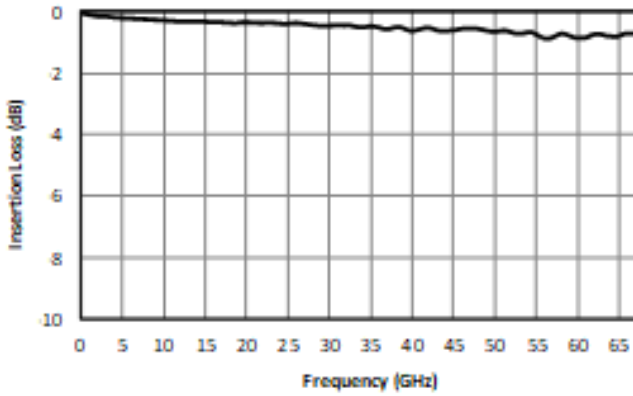
### Electrical Specifications

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

Parameter	Test Conditions	Minimum Frequency (GHz)	Maximum Frequency (GHz)	Min	Typ	Max	Unit
Amplitude Flatness <sup>1</sup>	-	6	67	-	0.8	-	dB
Directivity	-	6	30	13	17	-	dB
Directivity	-	30	67	8	13	-	dB
Direct Line Insertion Loss	DC-67GHz	-	-	-	-	1.6	dB
Mean Coupling	-	6	67	-	20	-	dB
VSWR	-	6	30	-	1.25	1.55	
VSWR	-	30	67	-	1.55	-	

<sup>[1]</sup> Deviation from average coupling.

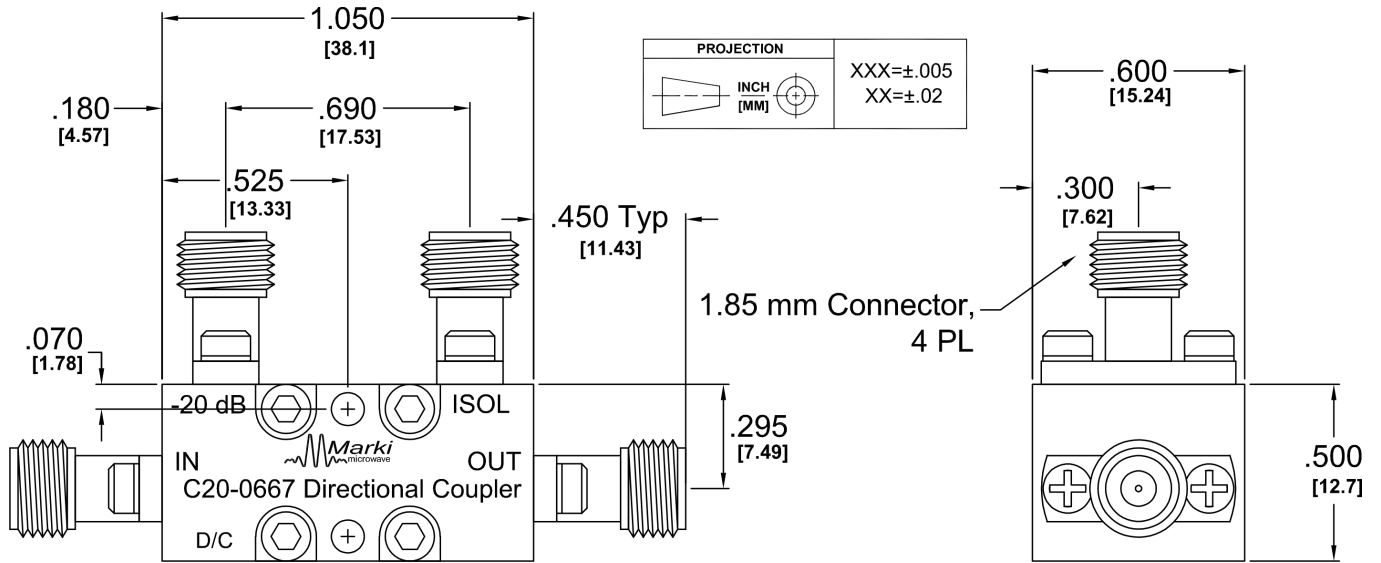
**Typical Performance Plots**



**Mechanical Data**

**Outline Drawing**

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



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