

C-0265

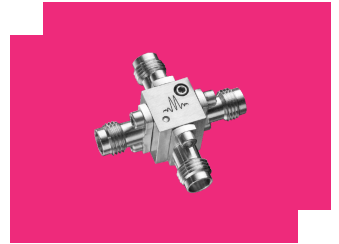
DIRECTIONAL COUPLER

DEVICE OVERVIEW

General Description

The C-0265 is a 2 to 65 GHz ultra-broadband coupler featuring low insertion loss and excellent return losses in a compact connectorized package.

[Download s-parameters here](#)



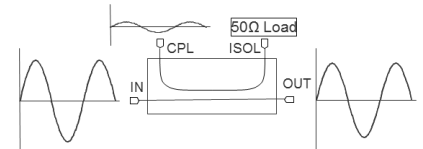
Features

- Low Insertion Loss
- Broadband Performance
- Compact Size and Lightweight

Applications

N/A

Functional Block Diagram



Part Ordering Options

Part Number	Description	Connectors	Green Status	Product Lifecycle	Export Classification
C-0265	DIRECTIONAL COUPLER	<u>Standard</u>	REACH RoHS	Released	EAR99

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Revision History

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

Specifications

Absolute Maximum Ratings

Parameter	Maximum Rating	Unit
RF Power Handling	3	W
Minimum Operating Temperature	-55	°C
Maximum Operating Temperature	100	°C
Minimum Storage Temperature	-65	°C
Maximum Storage Temperature	125	°C

Package Information

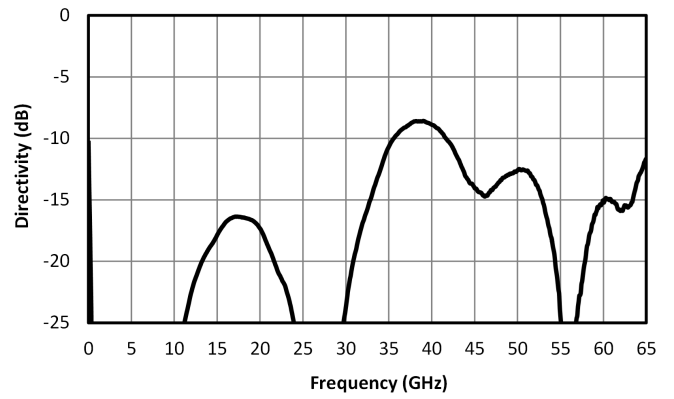
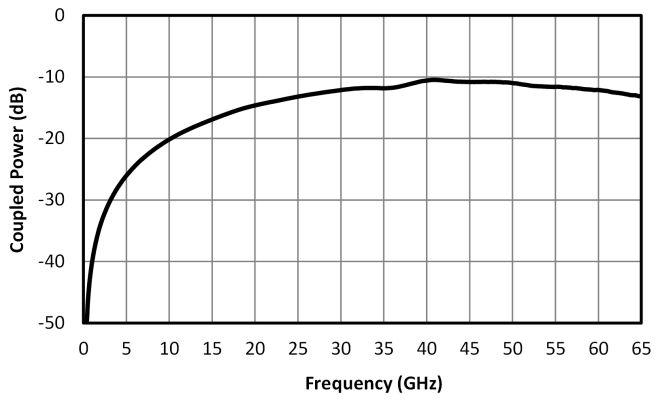
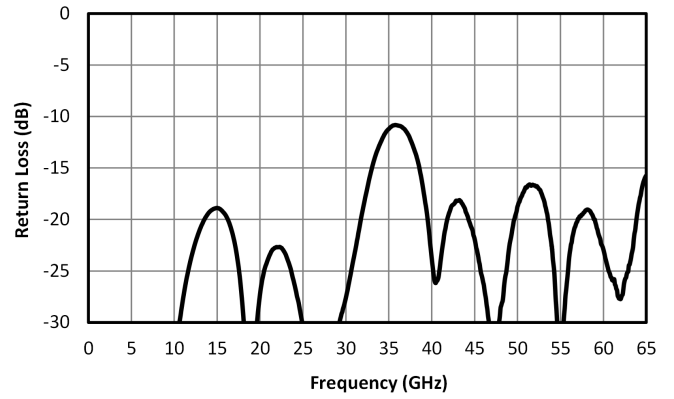
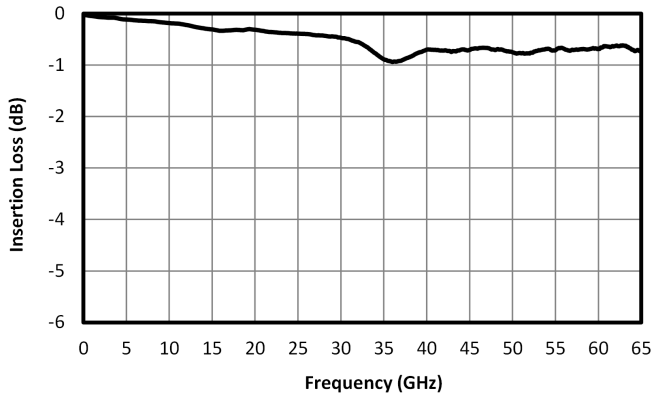
Parameter	Details	Rating
Weight	-	15g
Dimensions	-	7.87 x 7.87 mm

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
Directivity	-	2	25	-	15	-	dB
Directivity	-	25	65	-	10	-	dB
Direct Line Insertion Loss	-	0	25	-	0.3	0.6	dB
Direct Line Insertion Loss	-	25	65	-	0.7	1.4	dB
Mean Coupling	2 GHz	-	-	-	35	-	dB
Mean Coupling	65 GHz	-	-	-	12	-	dB
VSWR	-	25	65	-	1.65	-	
VSWR	-	2	25	-	1.25	1.55	

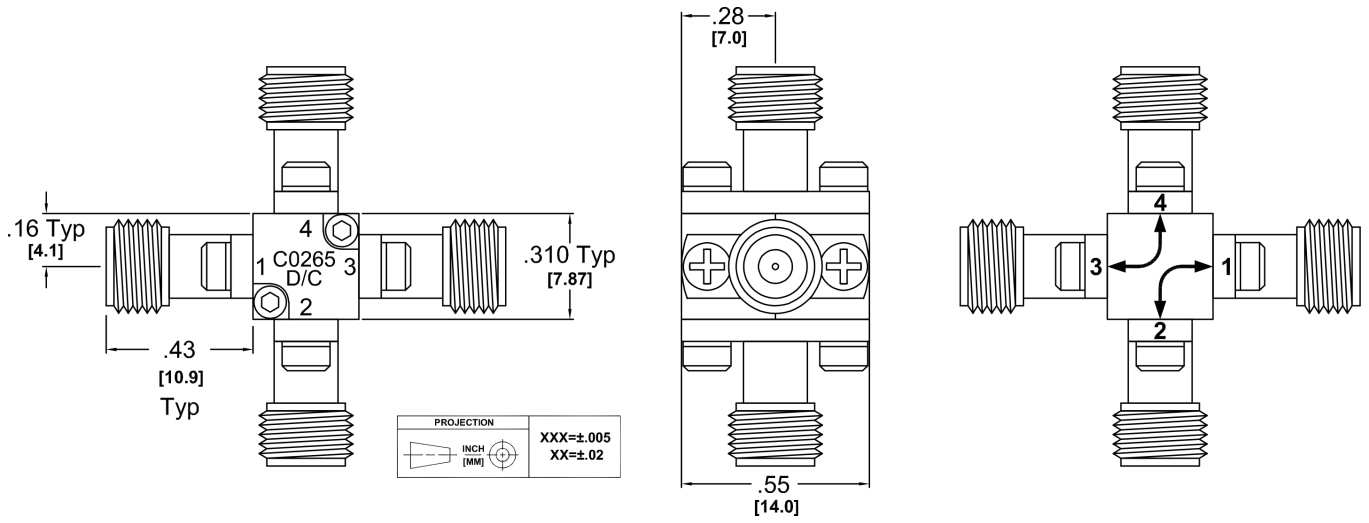
Typical Performance



Mechanical Data

Outline Drawing

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



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