

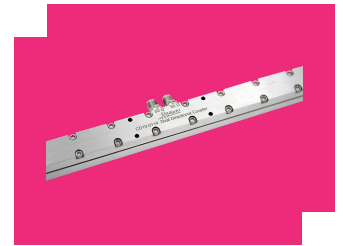
CD10-0114

DUAL DIRECTIONAL COUPLER

DEVICE OVERVIEW

General Description

The CD10-0114 is a broadband, high directivity 0.8-14.7 GHz, 10 dB dual directional coupler. The multisection tri-plate stripline design exhibits excellent coupling flatness and VSWR at all ports. Applications include reflectometry (return loss) measurements, level monitoring, etc. Custom designs are also available, contact the factory for details.



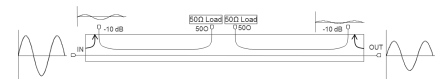
Features

- Dual Directional
- 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
CD10-0114	DUAL DIRECTIONAL COUPLER	<u>Standard</u>	Non-RoHS	Released	EAR99

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Specifications

Absolute Maximum Ratings

Parameter	Maximum Rating	Unit
RF Power Handling	50	W

Package Information

Parameter	Details	Rating
Weight	-	132g
Dimensions	-	212.3 × 13.97 mm

Electrical Specifications

Specifications guaranteed when operated in a 50Ω system.

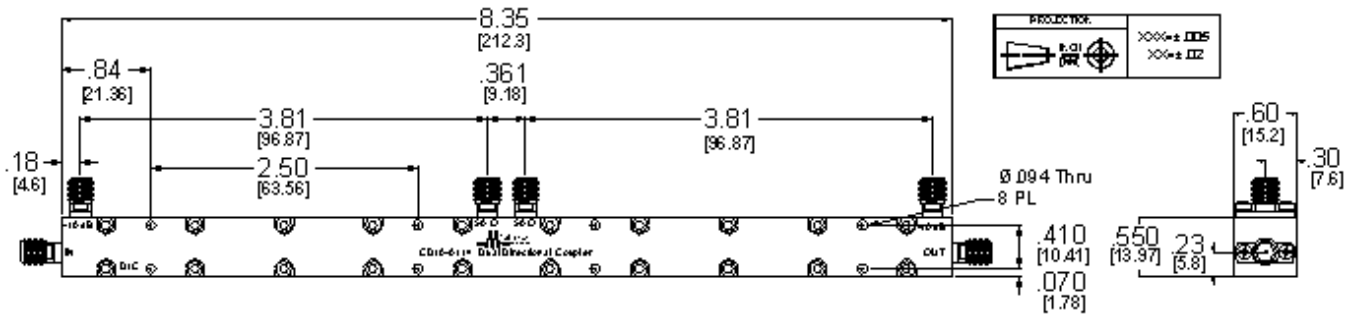
Parameter	Test Conditions	Minimum Frequency (GHz)	Maximum Frequency (GHz)	Min	Typ	Max	Unit
Amplitude Flatness ¹	-	0.8	14.7	-	0.6	1.75	dB
Directivity	-	0.8	12	20	23	-	dB
Directivity	-	12	14.7	15	18	-	dB
Direct Line Insertion Loss	DC-14.7	-	-	-	-	3	dB
Mean Coupling	-	0.8	14.7	-	10	-	dB
VSWR	-	0.8	14.7	-	1.17	1.34	

^[1] Deviation from average coupling.

Mechanical Data

Outline Drawing

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



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