

C10-0116

DIRECTIONAL COUPLER

DEVICE OVERVIEW

General Description

The C10-0116 is a broadband 1-16 GHz, 10 dB directional coupler. The multisection triplate stripline design exhibits excellent coupling flatness and VSWR at all ports. Custom designs are also available, contact the factory for details.

[Download s-parameters here](#)

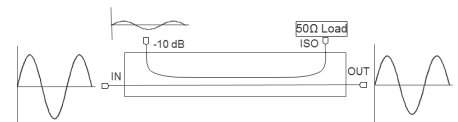
Features

- Broadband performance
- Excellent Coupling Flatness
- High Directivity
- Low VSWR

Applications

N/A

Functional Block Diagram



Part Ordering Options

Part Number	Description	Package	Packing Size	Green Status	Product Lifecycle	Export Classification
C10-0116	DIRECTIONAL COUPLER	-	-	RoHS	Released	EAR99

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Revision History

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

Specifications

Absolute Maximum Ratings

Parameter	Maximum Rating	Unit
RF Power Handling	50	W

Package Information

Parameter	Details	Rating
Weight	-	60g
Dimensions	-	93.98 × 13.97 mm

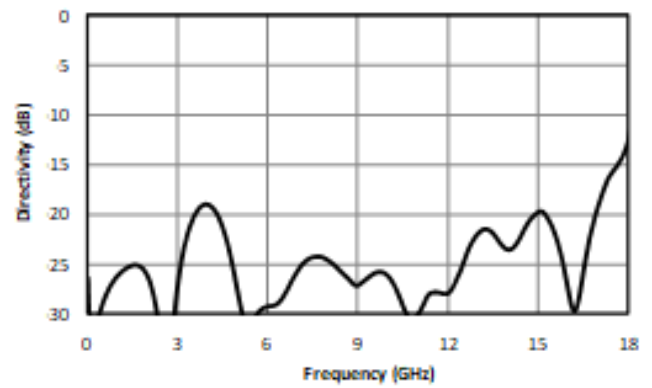
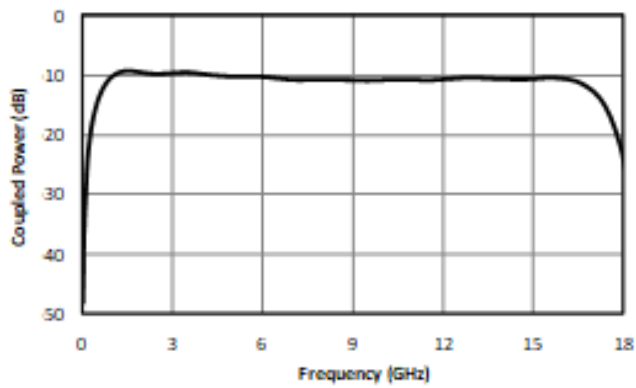
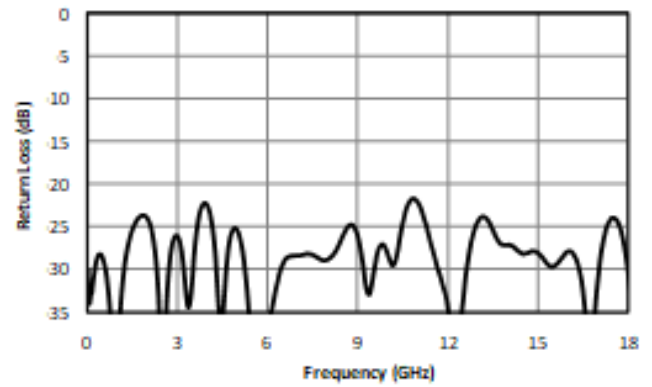
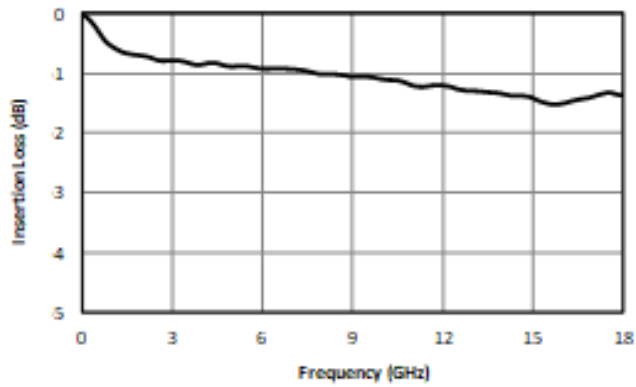
Electrical Specifications

Specifications guaranteed when operated in a 50Ω system.

Parameter	Test Conditions	Minimum Frequency (GHz)	Maximum Frequency (GHz)	Min	Typ	Max	Unit
Mean Coupling	-	1	16	-	10	-	dB
Direct Line Insertion Loss	DC - 16 GHz	-	-	-	-	1.8	dB
Amplitude Flatness ₁	-	1	16	-	0.5	1	dB
Directivity	-	1	16	15	20	-	dB
VSWR	-	1	16	-	1.15	1.35	-
Weight	-	-	-	-	60	-	g

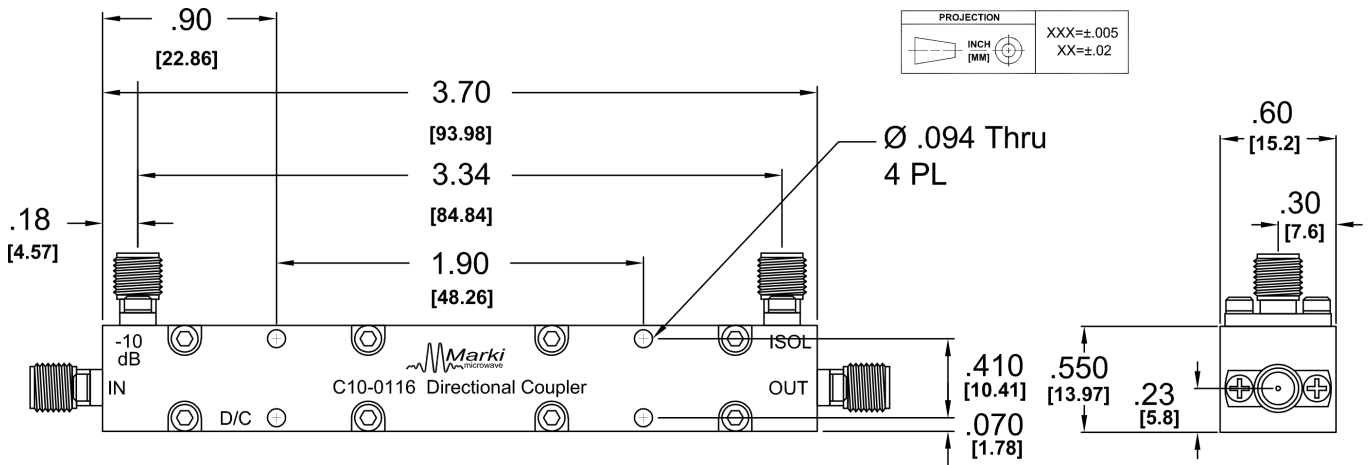
^[1] Deviation from average coupling.

Typical Performance



Mechanical Data

Outline Drawing



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