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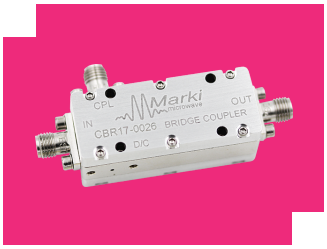
CBR17-0026

HIGH DIRECTIVITY BRIDGE COUPLER

DEVICE OVERVIEW

General Description

The CBR17-0026 offers the broadest bandwidth of any standalone bridge coupler on the market. It provides an extremely high degree of measurement accuracy for forward power measurements, and can also be used to measure VSWR/return loss (see Directivity and VSWR Measurement App Note). The flat coupling ratio, high directivity, and broadband performance from 200 kHz to 26 GHz make the CBR17-0026 an excellent 'black box' coupler for everyday lab use.



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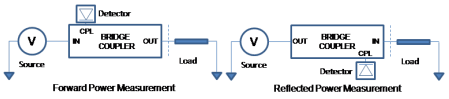
Features

- Broadband Performance
- High Directivity
- Low VSWR
- Compact Size and Lightweight

Applications

N/A

Functional Block Diagram



Part Ordering Options

Part Number	Description	Package	Packing Size	Green Status	Product Lifecycle	Export Classification
CBR17-0026	HIGH DIRECTIVITY BRIDGE COUPLER	-	-	RoHS	Released	EAR99

Table Of Contents

Revision History

Revision Code	Revision Date	Comment
-	2019-06-03	Initial Date Release

Specifications

Absolute Maximum Ratings

Parameter	Maximum Rating	Unit
RF Power Handling	1	W

Package Information

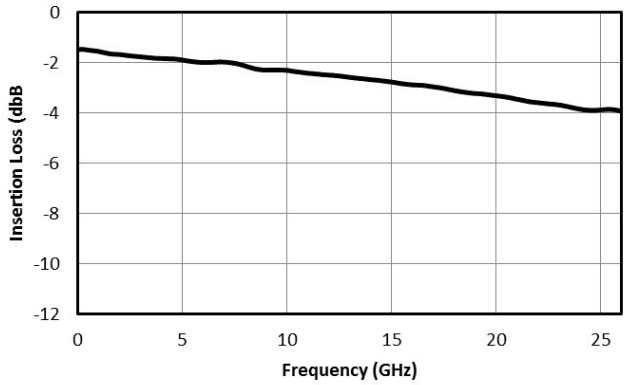
Parameter	Details	Rating
Weight	-	30g
Dimensions	-	43.18 x 17.53 mm

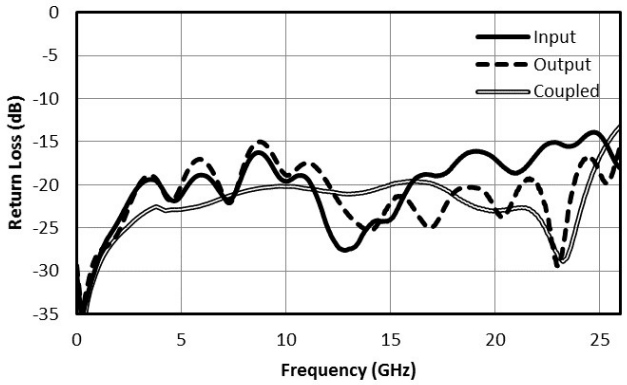
Electrical Specifications

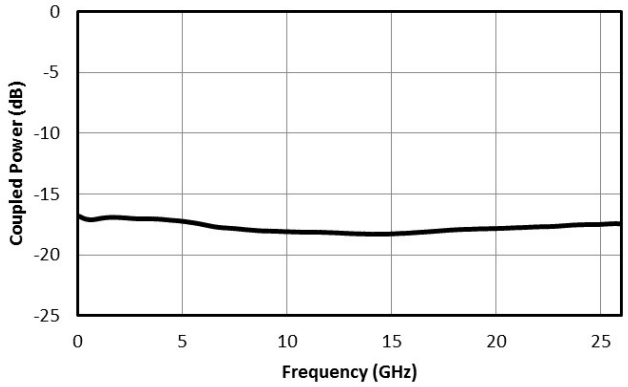
Specifications guaranteed from -40 to +85°C, measured in a 50Ω system. Specifications guaranteed when operated in a 50Ω system. Storage temperature is -35 to +90°C

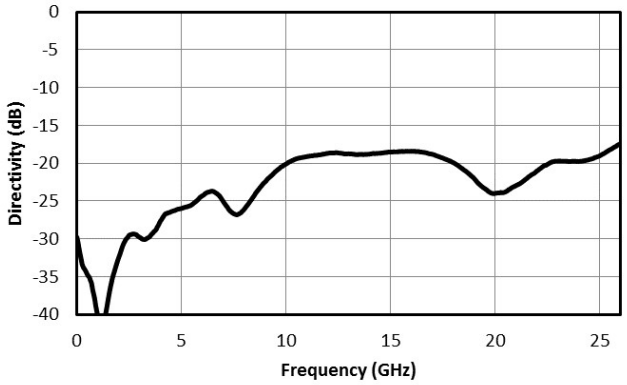
Parameter	Test Conditions	Minimum Frequency (GHz)	Maximum Frequency (GHz)	Min	Typ	Max	Unit
Mean Coupling	-	0.0002	26	-	17	-	dB
Direct Line Insertion Loss	-	0.0002	26	-	-	6	dB
Directivity	-	0.0002	26	12	23	-	dB
VSWR	-	0.0002	26	-	1.22	2	-
Weight	-	-	-	-	30	-	g

Typical Performance Plots



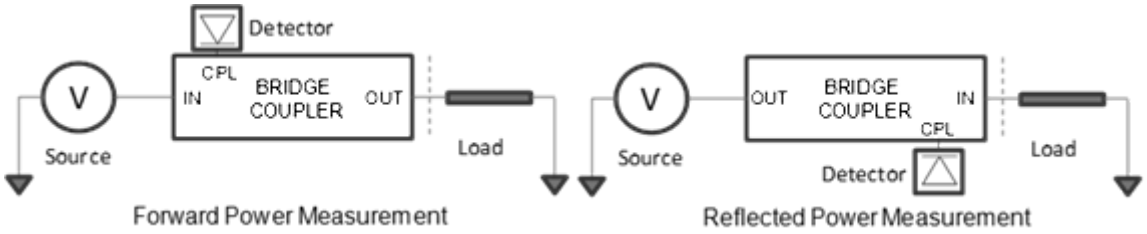






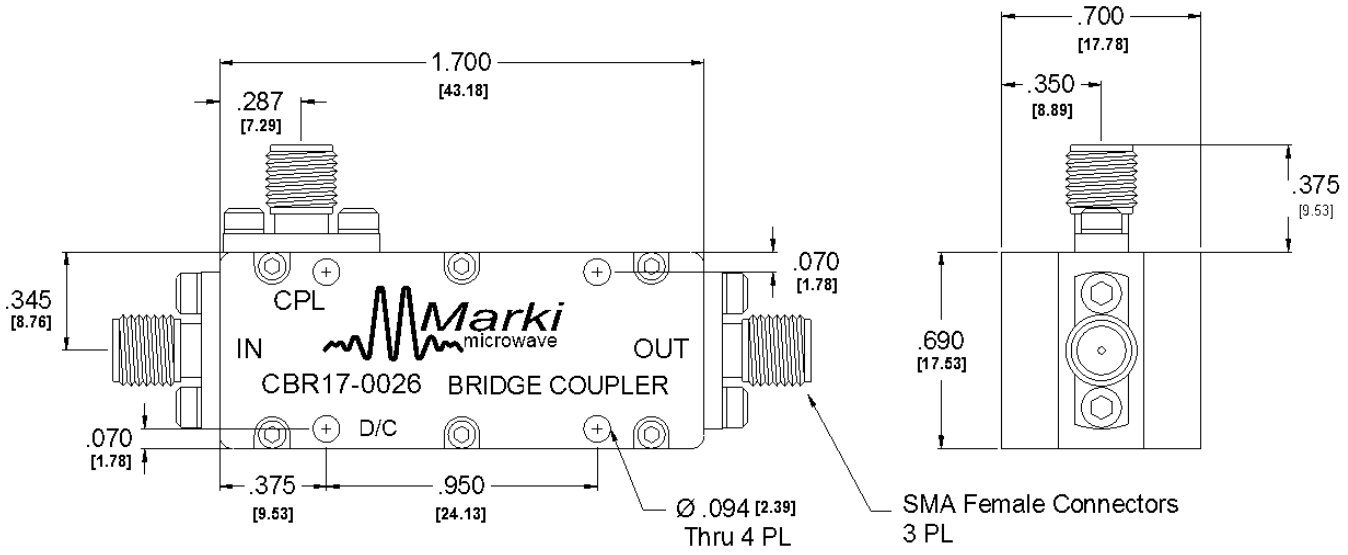
Application Information

Forward & reflected power measurement using high directivity bridge coupler



Mechanical Data

Outline Drawing



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