Sales: 408-778-9952 | General: 408-778-4200 | Fax: 408-778-4300
Sales & Customer Support: sales@markimicrowave.com
Tech Support: support@markimicrowave.com

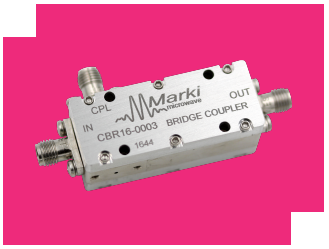
CBR16-0003

High Directivity Bridge Coupler

DEVICE OVERVIEW

General Description

The CBR16-0003 offers the highest directivity of any standalone 3 GHz 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 to 200 kHz make the CBR16-0003 an excellent 'black box' coupler for everyday lab use.



Download s-parameters here

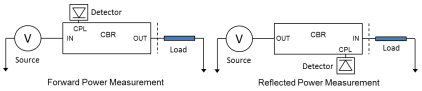
Features

- Broadband Performance
- High Directivity
- Low VSWR
- Excellent Coupling Flatness
- Compact Size and Lightweight

Applications

N/A

Functional Block Diagram



Part Ordering Options

Part Number	Description	Connectors	Green Status	Product Lifecycle	Export Classification
CBR16-0003	High Directivity Bridge Coupler	Standard	REACH RoHS	Released	EAR99

Table Of Contents

Revision History

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

Specifications

Absolute Maximum Ratings

Parameter	Maximum Rating	Unit
RF Power Handling	1	W

Package Information

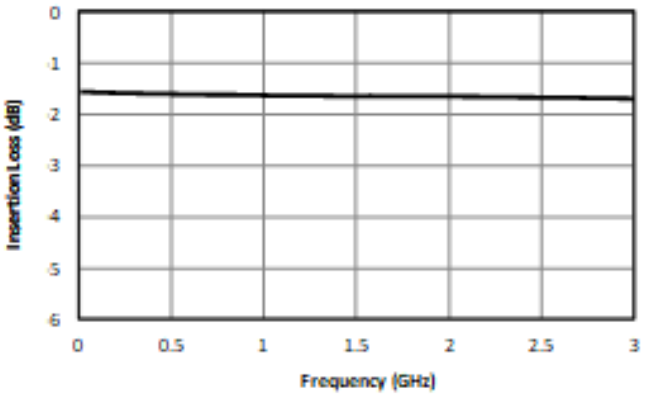
Parameter	Details	Rating
Weight	-	30g
Dimensions	-	43.18 x 17.53 mm

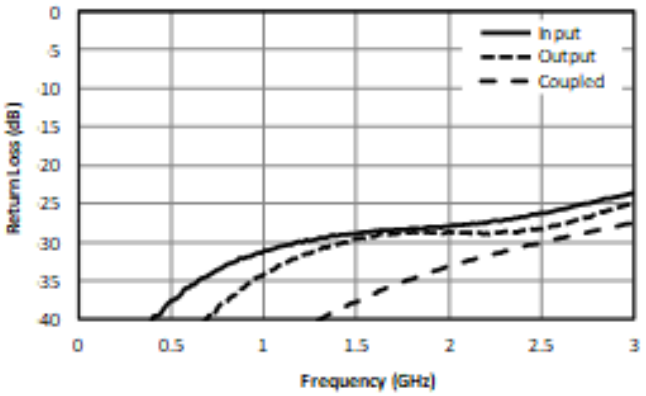
Electrical Specifications

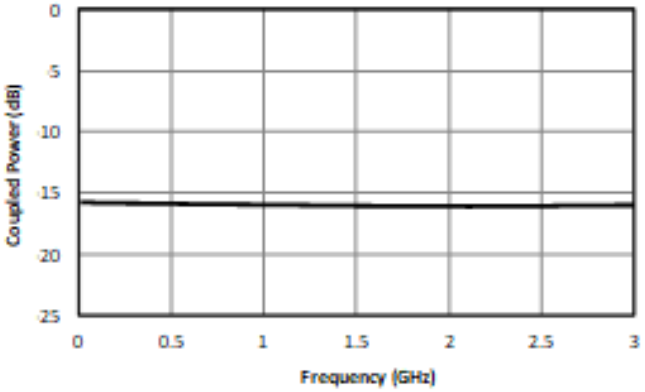
Specifications guaranteed when operated in a 50Ω system.

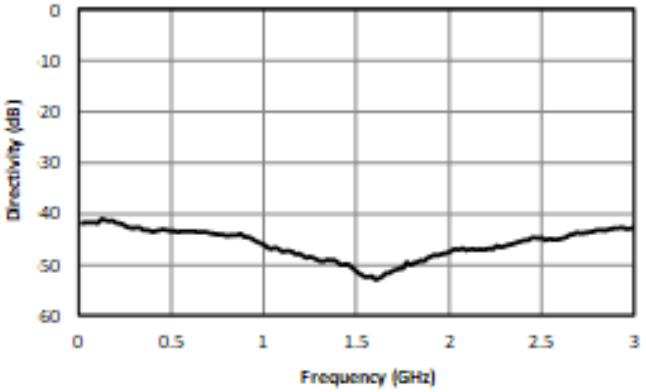
Parameter	Test Conditions	Minimum Frequency (GHz)	Maximum Frequency (GHz)	Min	Typ	Max	Unit
Directivity	-	0.8	3	30	40	-	dB
Directivity	-	0.0002	0.8	-	25	-	dB
Direct Line Insertion Loss	-	0.0002	3	-	-	2.2	dB
Mean Coupling	-	0.0002	3	-	16	-	dB
VSWR	-	0.0002	3	-	1.1	1.4	

Typical Performance Plots



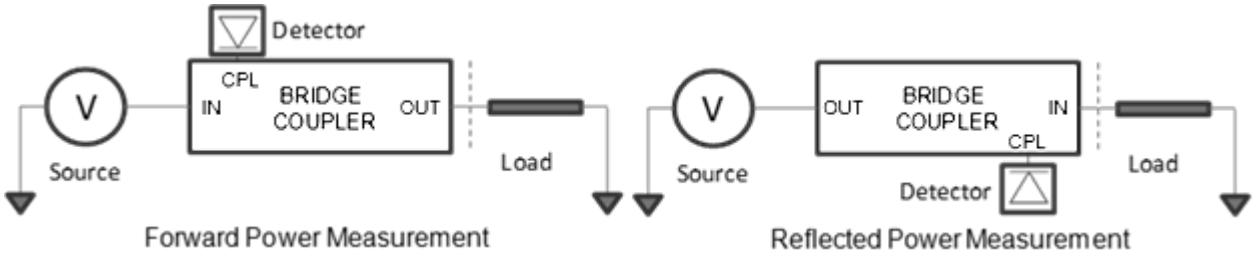






Application Information

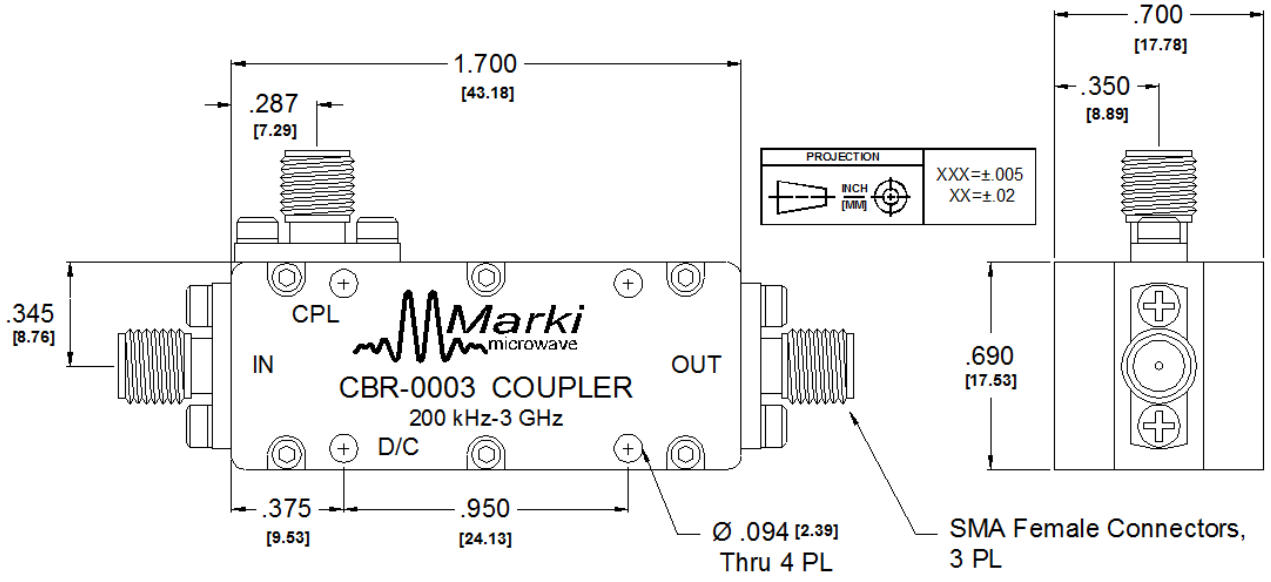
Forward & reflected power measurement using high directivity bridge coupler



Mechanical Data

Outline Drawing

Download : Outline 2D Drawing | Outline 3D Drawing | Outline 3D STP



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