

HIGH DIRECTIVITY BRIDGE COUPLER

CBR16-0003

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.

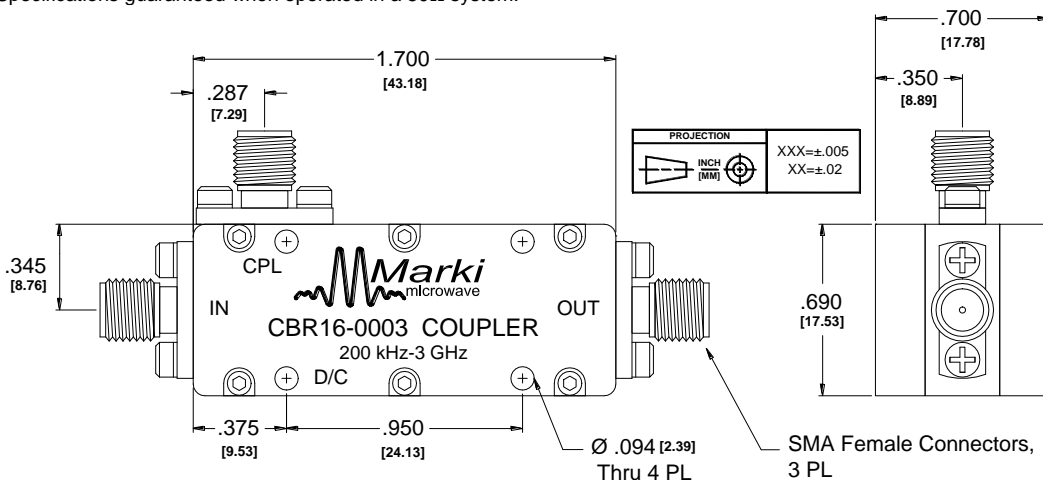
Features

- Broadband Performance
- High Directivity
- Low VSWR
- Excellent Coupling Flatness
- Compact Size and Lightweight
- [Microwave Power Dividers & Couplers App Note](#)
- [Directivity and VSWR Measurement App Note](#)
- [CBR16-0003.s3p](#)

Electrical Specifications

Parameter ¹	Frequency Range	Min	Typ	Max
Direct Line Insertion Loss (dB)	200 kHz-3 GHz			2
Coupling (dB)			16	
VSWR			1.1	1.4
Directivity (dB)	10 MHz-3 GHz	35	40	
	200 kHz-10 MHz		30	
Weight (g)			30	

¹Specifications guaranteed when operated in a 50Ω system.

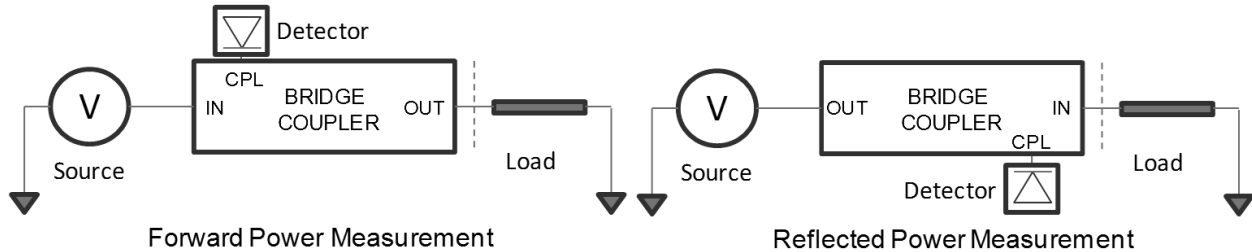


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Page 2

Forward & reflected power measurement using high directivity bridge coupler



Typical Performance

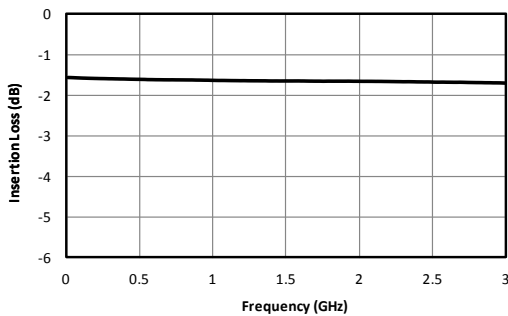


Fig. 1. Direct line insertion loss.

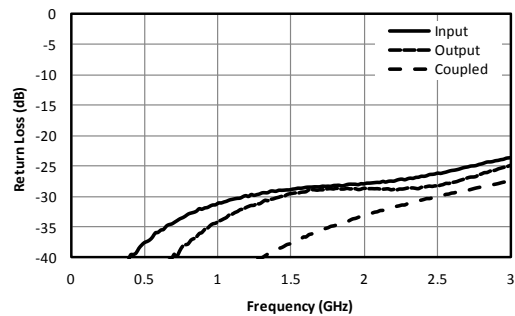


Fig. 2. Return loss.

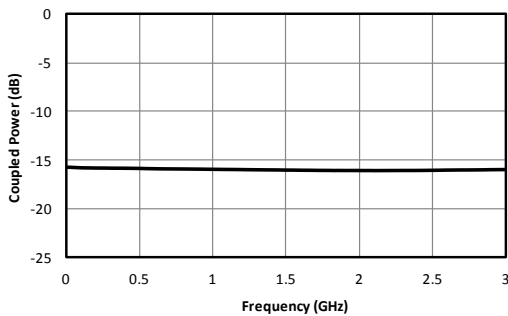


Fig. 3. Coupled port power.

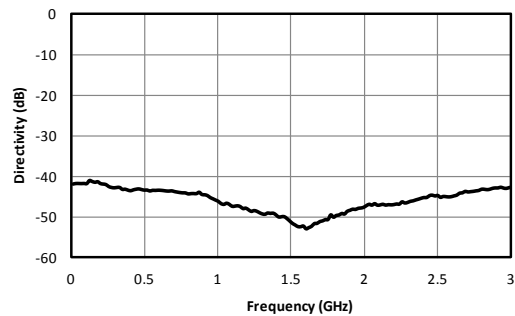


Fig. 4. Directivity.

Model Number	Description
CBR16-0003	200 kHz-3 GHz 16 dB High Directivity Bridge Coupler with SMA connectors

¹Default is SMA female connectors. Consult factory for other connector options.

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