

## 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.



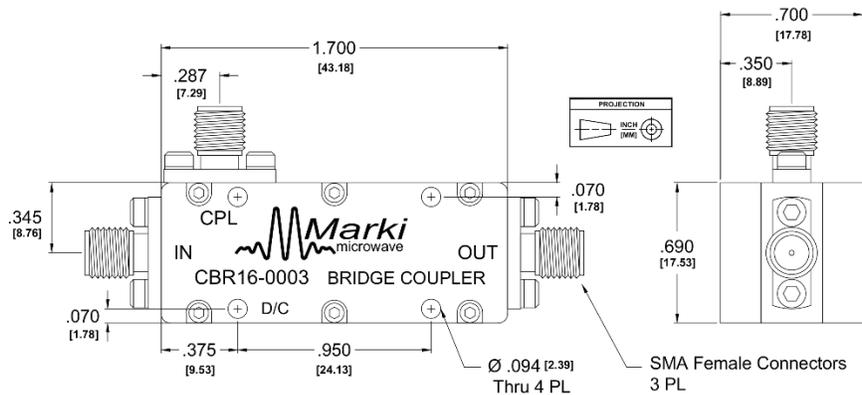
### Features

- 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 <sup>1</sup>	Frequency Range	Min	Typ	Max
Direct Line Insertion Loss (dB)	200 kHz-3 GHz			2.2
Coupling (dB)			16	
VSWR			1.1	1.4
Directivity (dB)	800 MHz-3 GHz	30	40	
	200 kHz-800 MHz		25	
Power (W)				1
Weight (g)			30	

<sup>1</sup>Specifications guaranteed when operated in a 50Ω system.

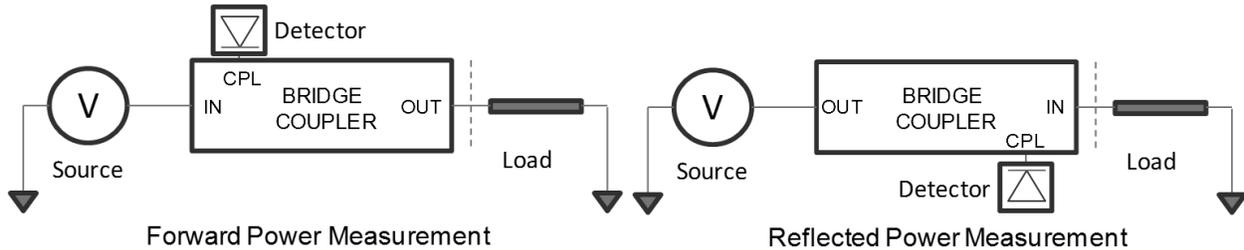


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Forward & reflected power measurement using high directivity bridge coupler



## Typical Performance

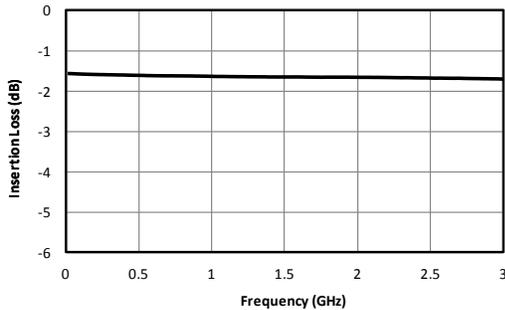


Fig. 1. Direct line insertion loss.

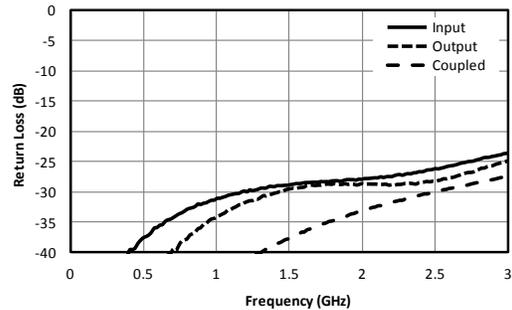


Fig. 2. Return loss.

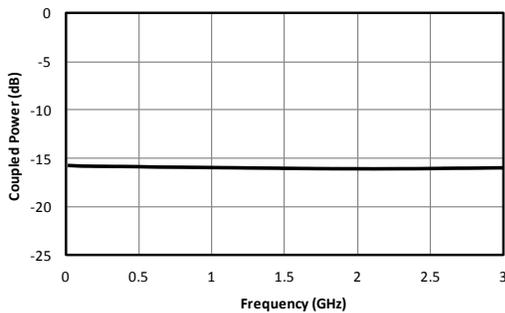


Fig. 3. Coupled port power.

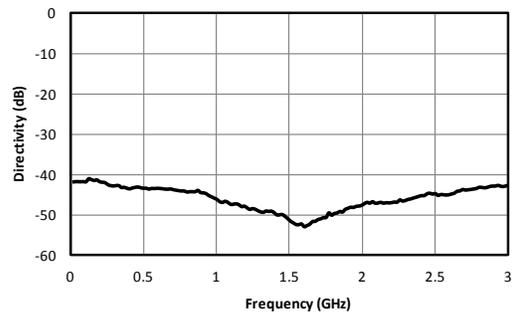


Fig. 4. Directivity.

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

<sup>1</sup>Default is SMA female connectors. Consult factory for other connector options.

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