

HIGH DIRECTIVITY BRIDGE COUPLER

CBR17-0026

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.



Features

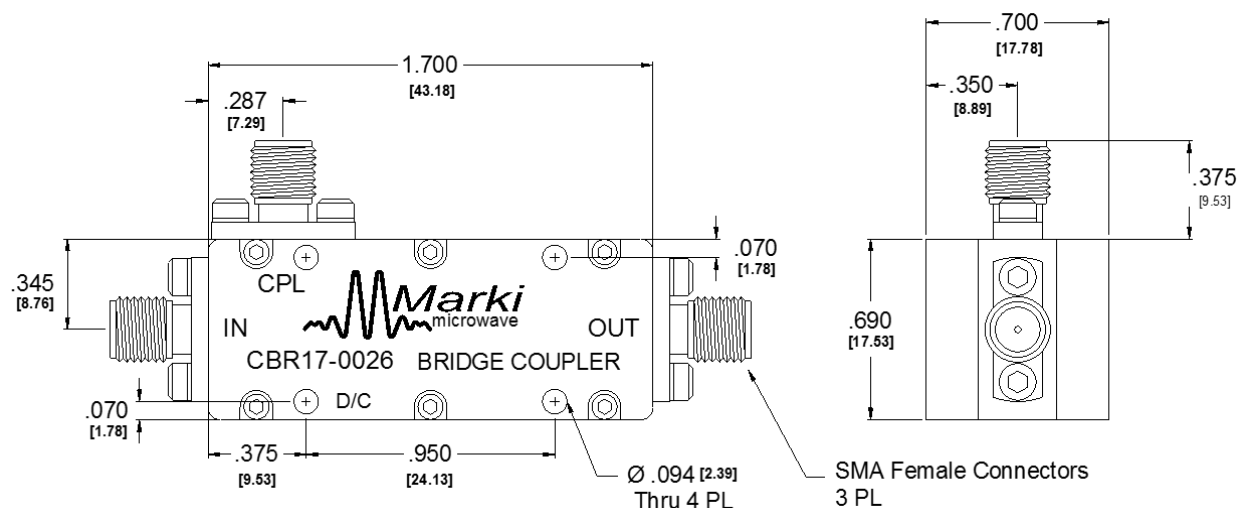
- Broadband Performance
- High Directivity
- Low VSWR
- Compact Size and Lightweight
- [CBR17-0026.s3p](#)

Electrical Specifications – Specifications guaranteed from -40 to +85°C, measured in a 50Ω system.

Parameter ¹²	Frequency Range	Min	Typ	Max
Direct Line Insertion Loss (dB)	200 kHz-26 GHz			6
Coupling (dB)			17	
VSWR			1.22	2
Directivity (dB)		12	23	
Power (W)				1
Weight (g)				30

¹Specifications guaranteed when operated in a 50Ω system.

²Storage temperature is -35 to +90°C

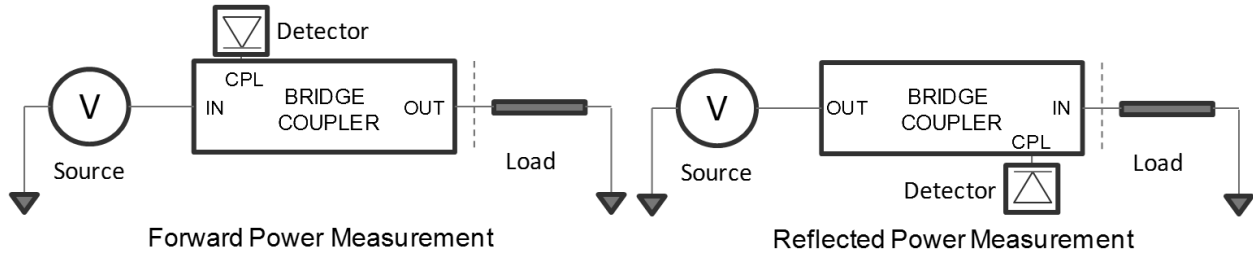


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Forward & reflected power measurement using high directivity bridge coupler



Typical Performance

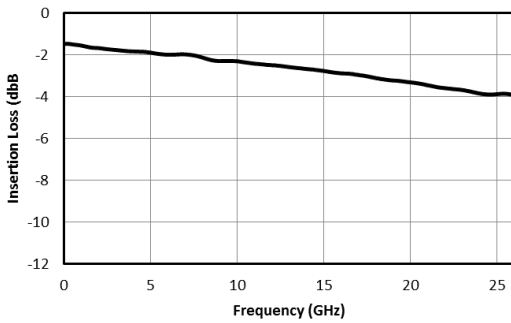


Fig. 1. Direct line insertion loss.

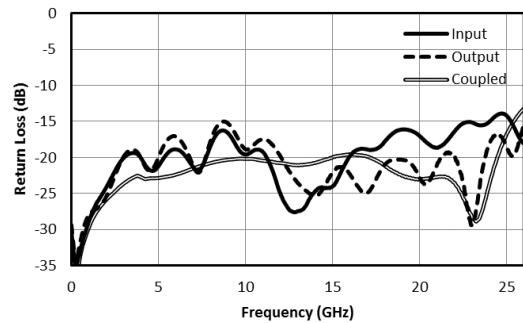


Fig. 2. Return loss.

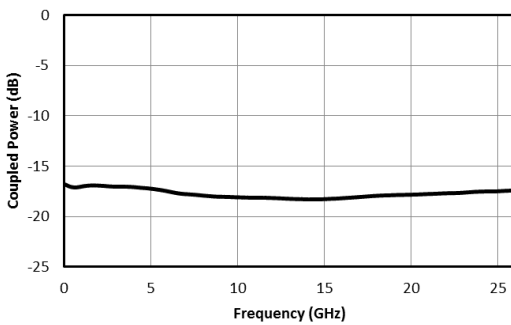


Fig. 3. Coupled port power.

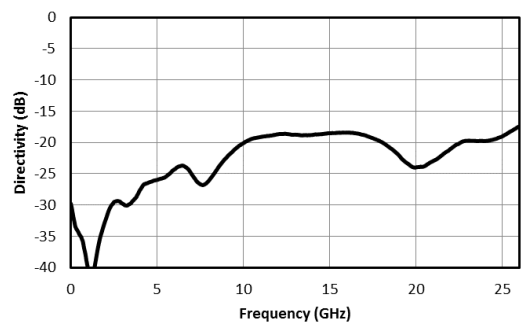


Fig. 4. Directivity.

Model Number	Description
CBR17-0026	200 kHz-26 GHz 17 dB High Directivity Bridge Coupler with SMA connectors

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

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