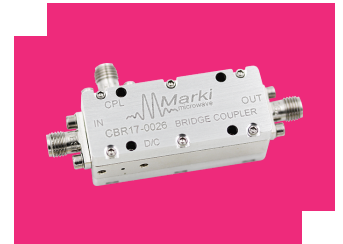


CBR17-0026 HIGH DIRECTIVITY BRIDGE COUPLER

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.



[Download s-parameters here](#)

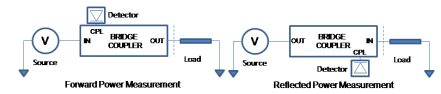
Features

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

Applications

N/A

Functional Block Diagram



Part Ordering Options

| Part Number | Description | Connectors | Green Status | Product Lifecycle | Export Classification |
|-------------|---------------------------------|-----------------|---------------|-------------------|-----------------------|
| CBR17-0026 | HIGH DIRECTIVITY BRIDGE COUPLER | <u>Standard</u> | REACH RoHS | Released | EAR99 |

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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

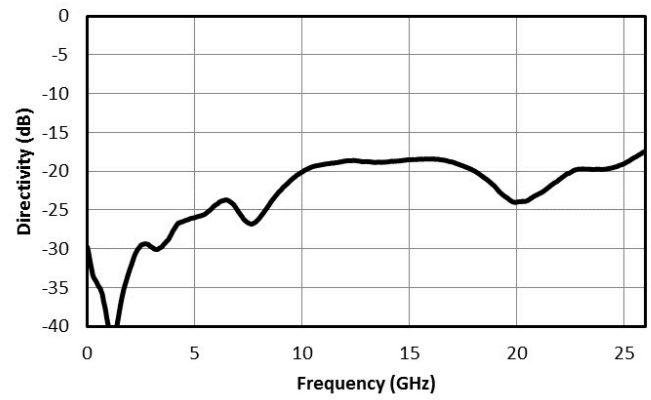
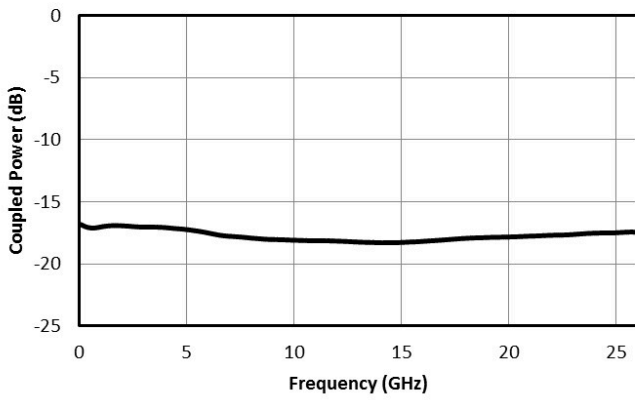
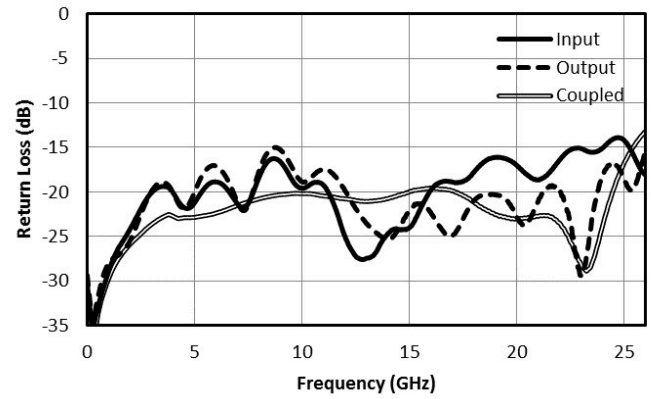
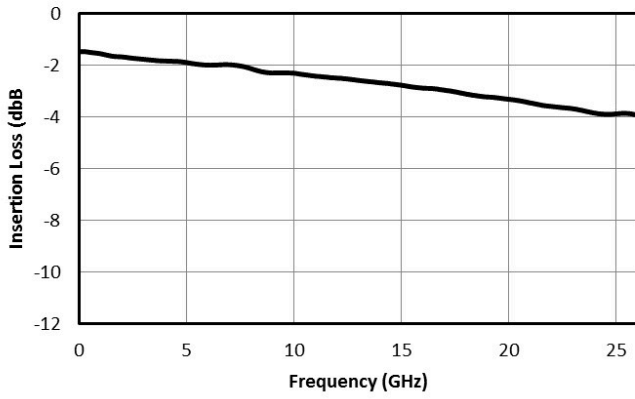
| Parameter | Details | Rating |
|------------|---------|------------------|
| Weight | - | 30g |
| Dimensions | - | 43.18 x 17.53 mm |

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

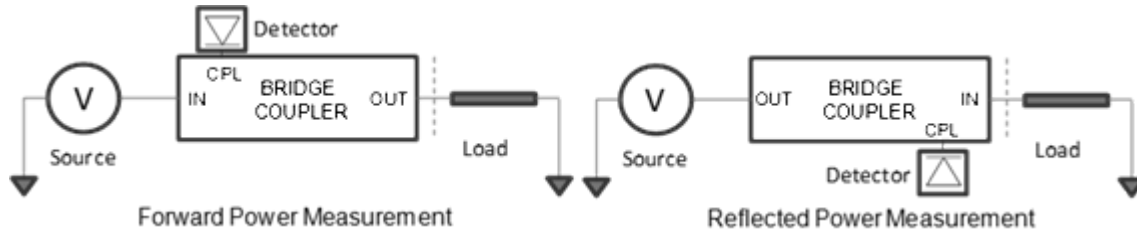
| Parameter | Test Conditions | Minimum Frequency (GHz) | Maximum Frequency (GHz) | Min | Typ | Max | Unit |
|----------------------------|-----------------|-------------------------|-------------------------|-----|------|-----|------|
| Directivity | - | 0.0002 | 26 | 12 | 23 | - | dB |
| Direct Line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

Typical Performance Plots



Application Information

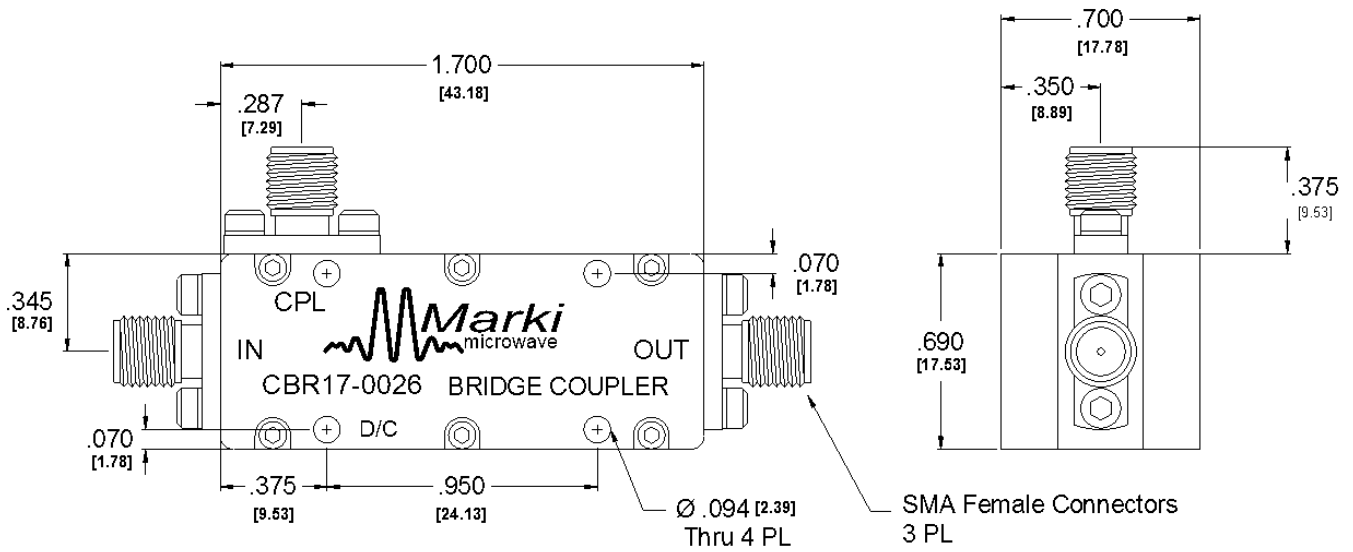
Forward & reflected power measurement using high directivity bridge coupler



Mechanical Data

Outline Drawing

Download : [Outline 2D Drawing](#) | [Outline 3D Drawing](#) | [Outline 3D STP](#)



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