

SMW28HC001-20 DATA SHEET

20 dB WR-28 Waveguide Broadwall Coupler with UG-599/U Square Cover Flange and H-Plane Coupled Port from 26.5 GHz to 40 GHz in Brass Copper

The SMW28HC001-20 is a millimeter-wave directional waveguide coupler that operates in the frequency range of 26.5 to 40 GHz (Ka Band). This Ka band component offers a nominal coupling level of 20 dB, mean coupling accuracy of +/- 1.0, coupling flatness of 1 dB, and has a maximum VSWR level of 1.05:1. The design is made of gold brass copper and incorporates a multi-hole configuration that results in typical directivity of 40 dB. Common applications for this millimeter wave component involve test setups where power reflection measurements are required that might involve power sampling and frequency monitoring with minimal signal loss to the main transmission path. This E plane coupler uses integrated WR-28 waveguide ports with UG 599/U flanges. Fairview offers a complete family of waveguide millimeter wave directional couplers that are in-stock for same day shipment.



Description	Min	Тур	Max	Units
Frequency Range	26.5		40	GHz
Coupler				
Nominal Coupling Lev	rel el	20		dB
Coupling Accuracy			±1	dB
Directivity		40		dB
Insertion Loss			0.7	dB
Main Line VSWR			1.05:1	
Secondary Line VSWR 1.05:1				
Coupling Flatness			±1	dB



Features:

- 20 dB Nominal Coupling Level
- H-Plane Waveguide Coupler
- 26.5 GHz to 40 GHz Frequency Range
- Body and Flanges made of Brass Copper
- Gold Waveguide
- 1.05:1 VSWR

Applications:

- Test Benches
- Radar
- Satellite
- · Microwave Radio
- Attenuation Measurements
- Power Measurements
- Source Leveling

Mechanical Specifications

Size

 Length
 10 in [254 mm]

 Width
 0.75 in [19.05 mm]

 Height
 1.775 in [45.09 mm]

 Weight
 0.295 lbs [133.81 g]

Interface

Waveguide Size
Flange Type
Flange Designation
Flange Material and Plating

WR-28
Square Cover
UG-599/U
Brass Copper, Gold
Coupler Body Material and Plating

Brass Copper, Gold

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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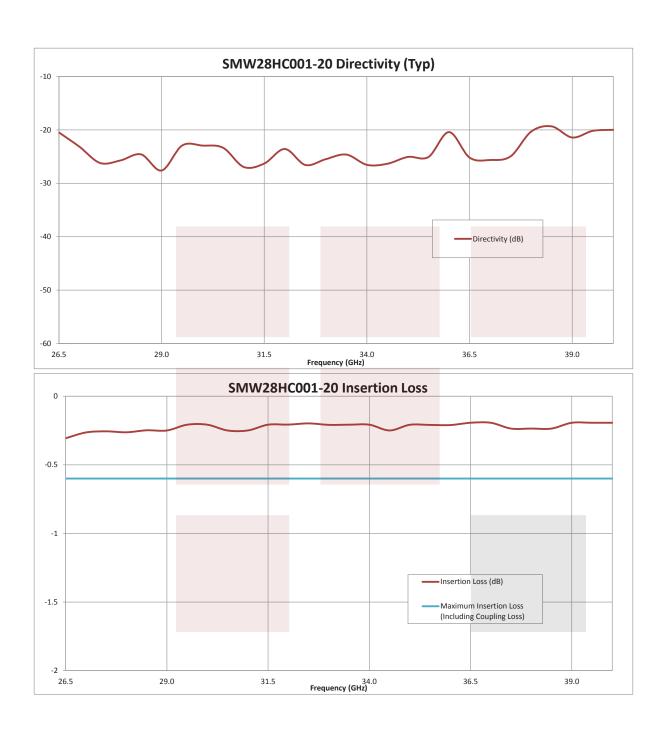


Typical Performance Data



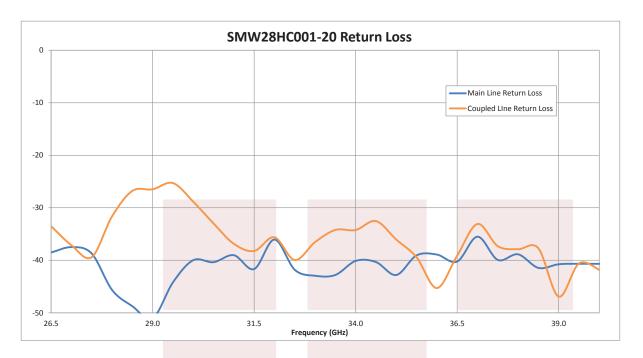












20 dB WR-28 Waveguide Broadwall Coupler with UG-599/U Square Cover Flange and H-Plane Coupled Port from 26.5 GHz to 40 GHz in Brass Copper from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: 20 dB WR-28 Waveguide Broadwall Coupler with UG-599/U Square Cover Flange and H-Plane Coupled Port from 26.5 GHz to 40 GHz in Brass Copper SMW28HC001-20

URL: https://www.fairviewmicrowave.com/wr-28-directional-waveguide-coupler-20db-ug-599-h-bend-smw28hc001-20-p. aspx

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