

WR-28 Waveguide 20 dB Broadwall Coupler, UG-599/U Square Cover Flange, E-Plane Coupled Port, 26.5 GHz to 40 GHz, Brass Copper



The PE-W28CP003-20 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 +/- .8, coupling flatness of 1 dB, and has a maximum VSWR level of 1.2:1. The design is made of gold brass copper and incorporates a multi-hole configuration that results in typical directivity of 30 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. Pasternack offers a complete family of waveguide millimeter wave directional couplers that are in-stock for same day shipment.

#### Features

- 20 dB Nominal Coupling Level
- E-Plane Waveguide Coupler
- 26.5 GHz to 40 GHz Frequency Range

#### Applications

- Test Benches
- Radar
- Satellite

Microwave Radio

**Attenuation Measurements** 

Source Leveling

Body and Flanges made of Brass Copper

Gold Waveguide

1.2:1 VSWR

Power Measurements

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
quency Range	26.5		40	GHz
oupler				
Nominal Coupling Level		20		dB
Coupling Accuracy			±0.8	dB
Directivity		30		dB
Insertion Loss			0.6	dB
Main Line VSWR			1.2:1	
Secondary Line VSWR			1.2:1	
Coupling Flatness			±1	dB

#### **Mechanical Specifications**

Size	
Length	10 in [254 mm]
Width	0.75 in [19.05 mm]
Height	1.775 in [45.09 mm]
Weight	0.2965 lbs [134.49 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-28 Waveguide 20 dB Broadwall Coupler, UG-599/U Square Cover Flange, E-Plane Coupled Port, 26.5 GHz to 40 GHz, Brass Copper PE-W28CP003-20

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

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## Waveguide Couplers Technical Data Sheet

Interface Waveguide Size Flange Type Flange Designation Flange Material and Plating

WR-28 Square Cover UG-599/U Brass Copper, Gold Brass Copper, Gold

Coupler Body Material and Plating

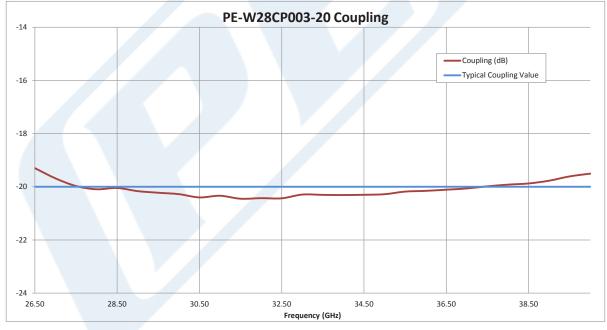
#### **Environmental Specifications**

#### Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:

**Typical Performance Data** 



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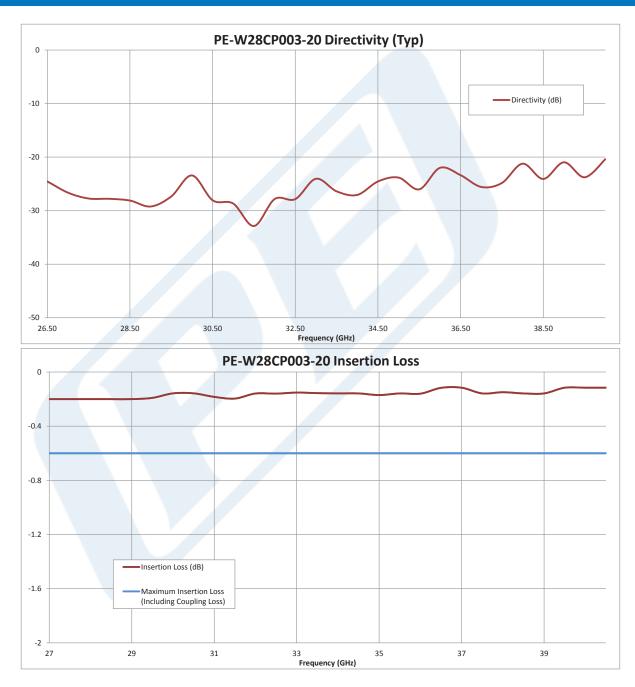


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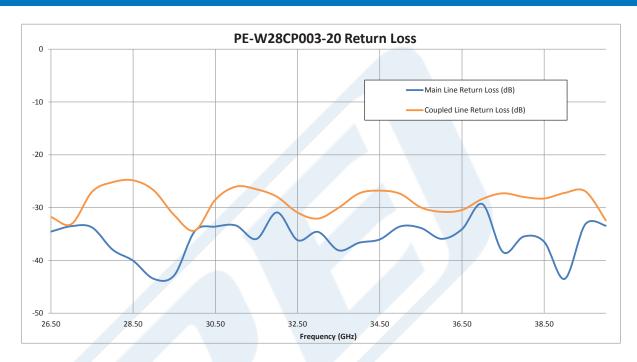


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WR-28 Waveguide 20 dB Broadwall Coupler, UG-599/U Square Cover Flange, E-Plane Coupled Port, 26.5 GHz to 40 GHz, Brass Copper from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/wr-28-20db-directional-waveguide-coupler-ug-599-e-bend-pe-w28cp003-20-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

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# PE-W28CP003-20 CAD Drawing

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