

WR-10 Waveguide 20 dB Broadwall Coupler, UG-387/U-Mod Round Cover Flange, E-Plane Coupled Port, 75 GHz to 110 GHz, Brass Copper



Waveguide Couplers Technical Data Sheet

PE-W10CP003-20

The PE-W10CP003-20 is a millimeter-wave directional waveguide coupler that operates in the frequency range of 75 to 110 GHz (W Band). This W band component offers a nominal coupling level of 20 dB, mean coupling accuracy of +/- 1.5, coupling flatness of 1.5 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-10 waveguide ports with UG 387/U-Mod 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
- 75 GHz to 110 GHz Frequency Range

- · Body and Flanges made of Brass Copper
- Gold Waveguide
- 1.2:1 VSWR

Applications

- · Test Benches
- Radar
- Satellite

- Microwave Radio
- · Attenuation Measurements
- Power Measurements

Source Leveling

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	75		110	GHz
Coupler				
Nominal Coupling Level		20		dB
Coupling Accuracy			±1.5	dB
Directivity		30		dB
Insertion Loss			1.1	dB
Main Line VSWR			1.2:1	
Secondary Line VSWR			1.2:1	
Coupling Flatness			±1.5	dB

Termination

Mechanical Specifications

Size

 Length
 5 in [127 mm]

 Width
 0.75 in [19.05 mm]

 Height
 1.375 in [34.93 mm]

 Weight
 0.11 lbs [49.9 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-10 Waveguide 20 dB Broadwall Coupler, UG-387/U-Mod Round Cover Flange, E-Plane Coupled Port, 75 GHz to 110 GHz, Brass Copper PE-W10CP003-20

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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Interface

Waveguide Size Flange Type Flange Designation Flange Material and Plating

Coupler Body Material and Plating

WR-10 Round Cover UG-387/U-Mod Brass Copper, Gold Brass Copper, Gold

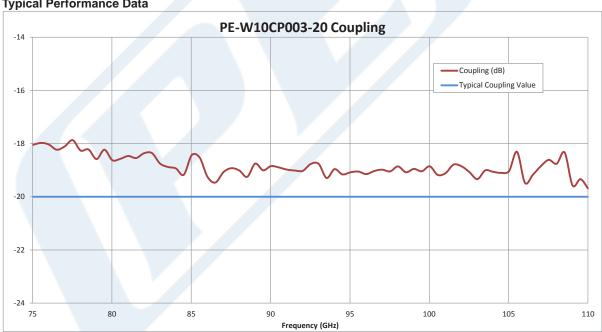
Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data



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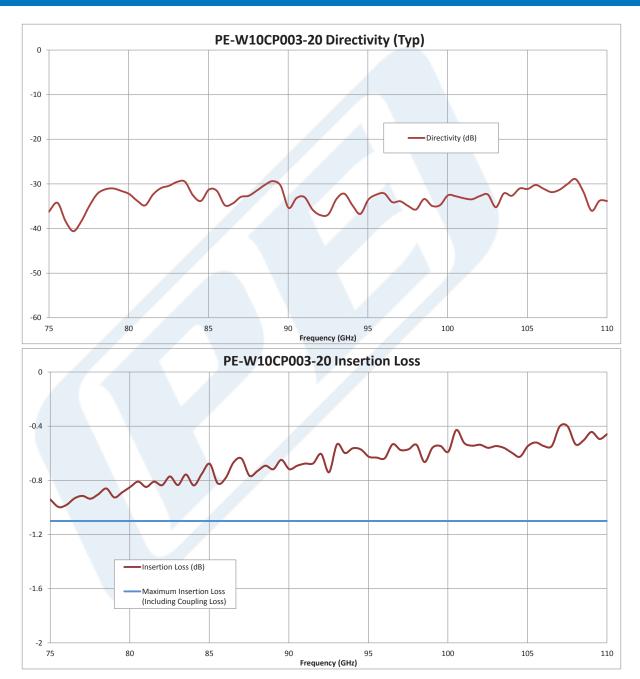


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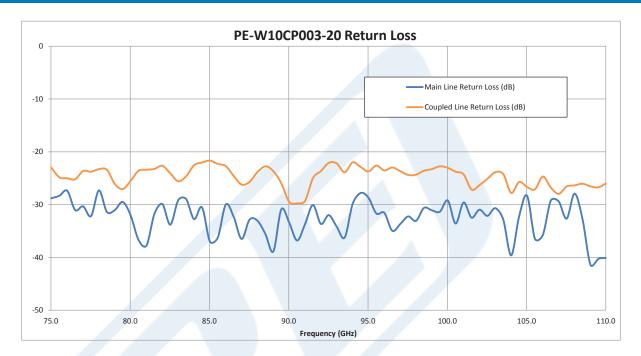


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URL: https://www.pasternack.com/wr-10-20db-directional-waveguide-coupler-ug-387-mod-e-bend-pe-w10cp003-20-p.aspx

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-W10CP003-20 CAD Drawing

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