



TECHNICAL DATA SHEET

PE-W19CP003-10

The PE-W19CP003-10 is a millimeter-wave directional waveguide coupler that operates in the frequency range of 40 to 60 GHz (U Band). This U band component offers a nominal coupling level of 10 dB, mean coupling accuracy of +/- 1, coupling flatness of 1.2 dB, and has a maximum VSWR level of 1.2:1. The design is made of gold plated 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-19 waveguide ports with UG 383/U flanges. Pasternack offers a complete family of waveguide millimeter wave directional couplers that are in-stock for same day shipment.

Features

- 10 dB Nominal Coupling Level
- E-Plane Waveguide Coupler
- 40 GHz to 60 GHz Frequency Range

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

Applications

- · Test Benches
- RadarSatellite
- Microwave Radio
- · Attenuation Measurements
- Power Measurements

Source Leveling

Electrical Specifications (Values at 25°C, sea level)

Description	Minimum	Typical	Maximum	Units
Frequency Range	40		60	GHz
Directivity		30		dB
Insertion Loss			0.8	dB
Main Line VSWR			1.2:1	
Secondary Line VSWR			1.2:1	
Nominal Coupling Level		10		dB
Mean Coupling Accuracy			±1	dB
Coupling Flatness			±1.2	dB

Mechanical Specifications

Size

 Length
 6.5 in [165.1 mm]

 Width/Dia.
 1.25 in [31.75 mm]

 Height
 1.825 in [46.36 mm]

 Weight
 0.306 lbs [138.8 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-19 10 dB Directional Waveguide Broadwall Coupler, UG-383/U Round Cover Flange, E-Plane Coupled Port, 40 GHz to 60 GHz, U Band PE-W19CP003-10

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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Design Directional E-Plane Broadwall WR-19

Color Gold

Description	Input Flange	Output Flange	Coupled Flange(s)
Flange Type	Round Cover	Round Cover	Round Cover
Flange Designation	UG-383/U	UG-383/U	UG-383/U
Material	Brass Copper	Brass Copper	Brass Copper
Plating	Gold	Gold	Gold
Color	Gold	Gold	Gold

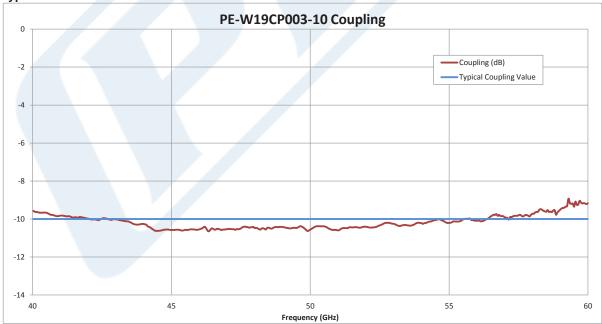
Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

· Values at 25 °C, sea level





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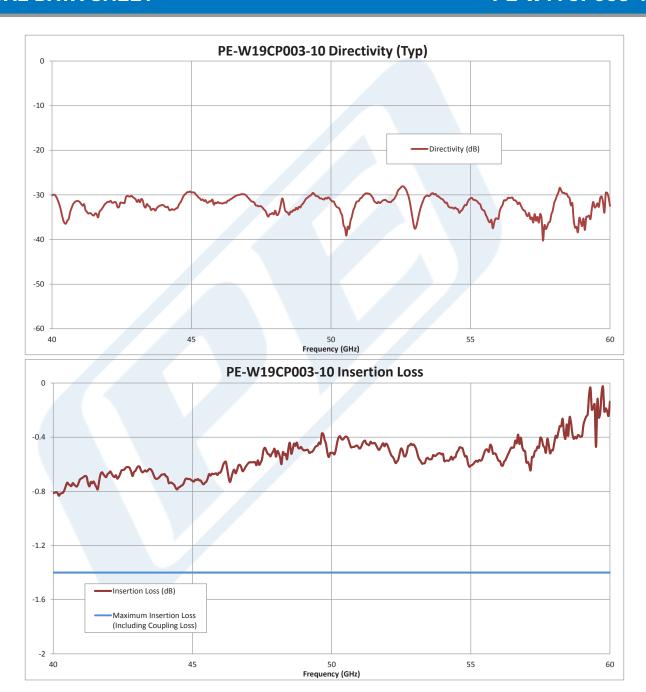
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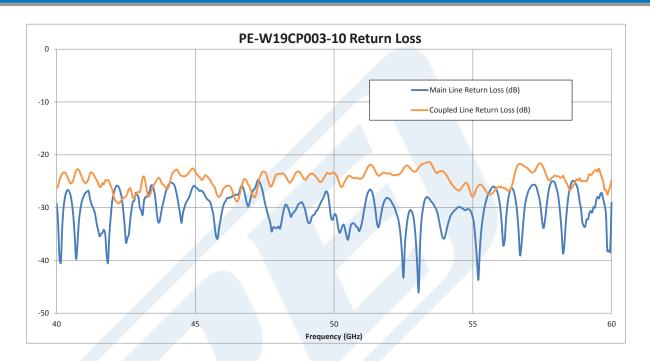
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WR-19 10 dB Directional Waveguide Broadwall Coupler, UG-383/U Round Cover Flange, E-Plane Coupled Port, 40 GHz to 60 GHz, U Band from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter 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-19-10db-directional-waveguide-coupler-ug-383-e-bend-pe-w19cp003-10-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-W19CP003-10 CAD Drawing

WR-19 10 dB Directional Waveguide Broadwall Coupler, UG-383/U Round Cover Flange, E-Plane Coupled Port, 40 GHz to 60 GHz, U Band

