

WR-19 20 dB Directional Waveguide Coupler With UG-383/U Flange and E-Plane Coupled Port From 40 GHz to 60 GHz U Band



TECHNICAL DATA SHEET

PE-W19CP003-20

The PE-W19CP003-20 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 20 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

- 20 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
- Radar
- Satellite

- Microwave Radio
- Attenuation Measurements
- Power Measurements

Source Leveling

Configuration

Waveguide Size Flange 1 Flange 2 Flange 3 Design WR-19 UG-383/U UG-383/U UG-383/U

Directional Coupler

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
Input VSWR			1.2:1	
Secondary Line VSWR			1.2:1	
Nominal Coupling Level		20		dB
Mean Coupling Accuracy			±1	dB
Coupling Flatness			±1.2	dB

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-19 20 dB Directional Waveguide Coupler With UG-383/U Flange and E-Plane Coupled Port From 40 GHz to 60 GHz U Band PE-W19CP003-20

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ISO 9001: 2008 Registered



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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]

Waveguide

Size WR-19 Material **Brass Copper** Gold **Plating** Color Gold

Flange 1	Flange 2	Flange 3	
UG-383/U	UG-383/U	UG-383/U	
Brass Copper	Brass Copper	Brass Copper	
Gold	Gold	Gold	
Gold	Gold	Gold	
	UG-383/U Brass Copper Gold	UG-383/U UG-383/U Brass Copper Brass Copper Gold Gold	

Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant

REACH Compliant 06/20/2013

Plotted and Other Data

Notes:

· Values at 25 °C, sea level

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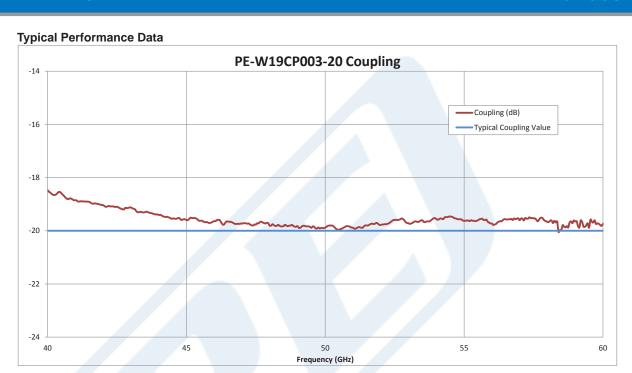


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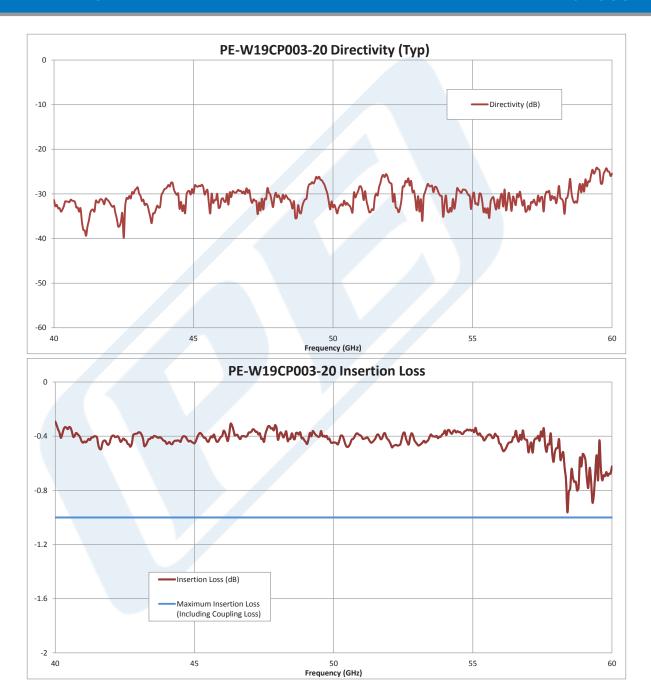


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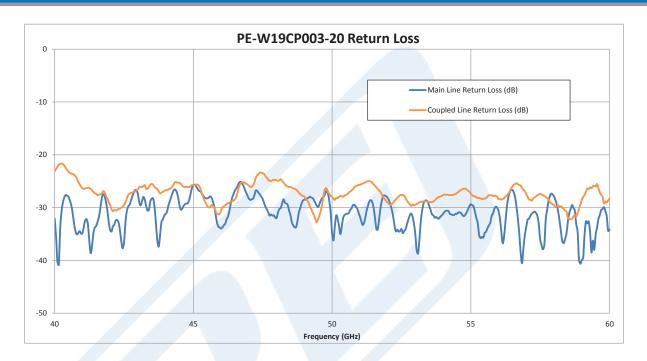


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WR-19 20 dB Directional Waveguide Coupler With UG-383/U Flange and E-Plane Coupled Port From 40 GHz to 60 GHz U Band from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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URL: http://www.pasternack.com/wr-19-20db-directional-waveguide-coupler-ug-383-e-bend-pe-w19cp003-20-p.aspx

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PE-W19CP003-20 CAD Drawing

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