

#### **TECHNICAL DATA SHEET**

The PE-W22CP003-10 is a millimeter-wave directional waveguide coupler that operates in the frequency range of 33 to 50 GHz (Q Band). This Q band component offers a nominal coupling level of 10 dB, mean coupling accuracy of +/- 1, coupling flatness of 1 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-22 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
- 33 GHz to 50 GHz Frequency Range
- Applications
  - Test Benches
  - Radar
  - Satellite

- Microwave Radio
- Attenuation Measurements
- Power Measurements

#### Configuration

Waveguide Size Flange 1 Flange 2 Flange 3 Design WR-22 UG-383/U UG-383/U UG-383/U

**Directional Coupler** 

Body and Flanges made of Brass Copper

Source Leveling

Gold Plated Waveguide

1.2:1 VSWR

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

Description	Minimum	Typical	Maximum	Units
Frequency Range	33		50	GHz
Directivity		30		dB
Insertion Loss			1.2	dB
Input VSWR			1.2:1	
Secondary Line VSWR			1.2:1	
Nominal Coupling Level		10		dB
Mean Coupling Accuracy			±1	dB
Coupling Flatness			±1	dB

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-22 10 dB Directional Waveguide Coupler With UG-383/U Flange and E-Plane Coupled Port From 33 GHz to 50 GHz Q Band PE-W22CP003-10

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

Sales@Pasternack.com • Techsupport@Pasternack.com





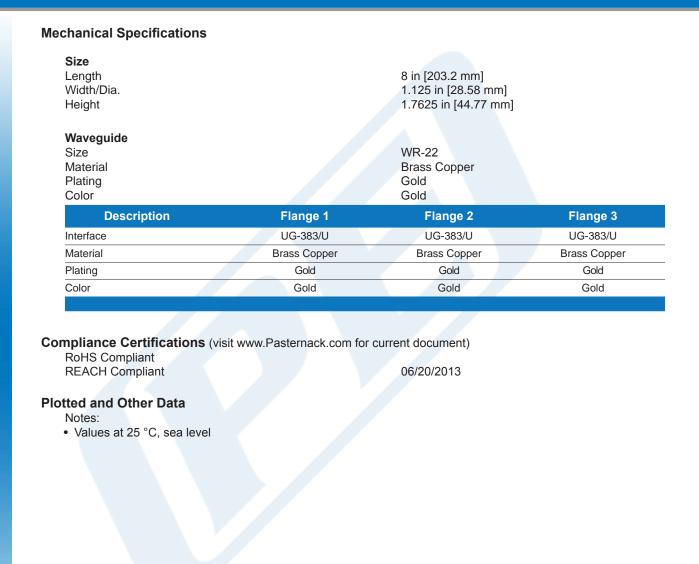
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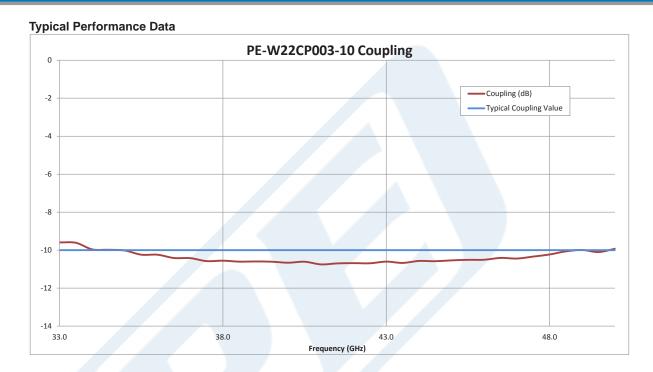
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ISO 9001 : 2008 Registered



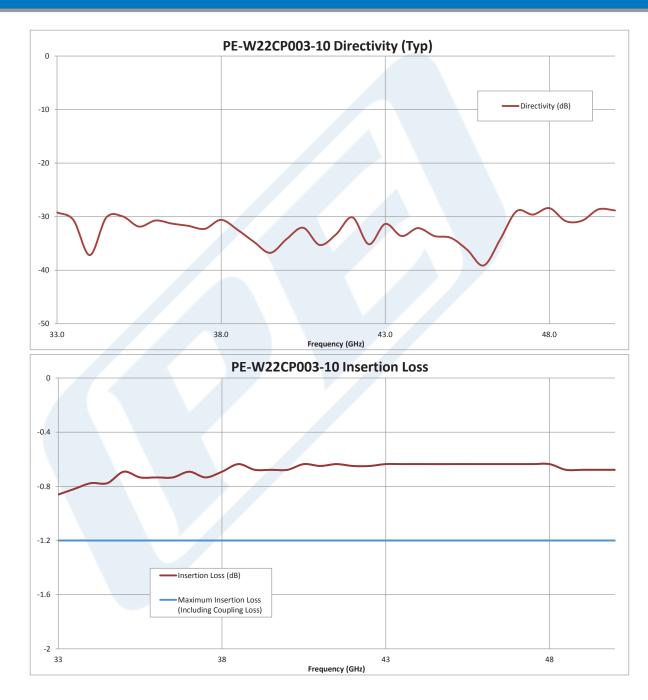
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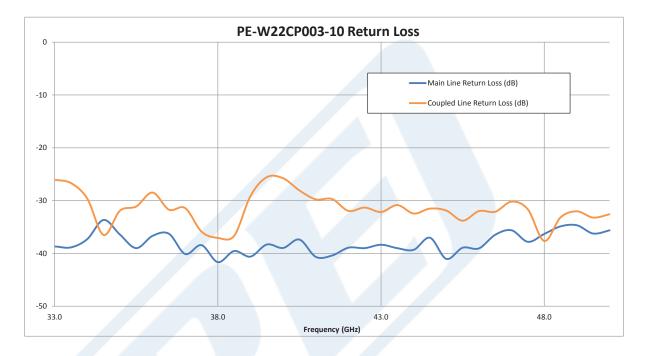
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WR-22 10 dB Directional Waveguide Coupler With UG-383/U Flange and E-Plane Coupled Port From 33 GHz to 50 GHz Q Band from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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URL: http://www.pasternack.com/wr-22-10db-directional-waveguide-coupler-ug-383-e-bend-pe-w22cp003-10-p.aspx

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# PE-W22CP003-10 CAD Drawing

WR-22 10 dB Directional Waveguide Coupler With UG-383/U Flange and E-Plane Coupled Port From 33 GHz to 50 GHz Q Band

