

WR-22 Waveguide 10 dB Broadwall Coupler, UG-383/U Round Cover Flange, E-Plane Coupled Port, 33 GHz to 50 GHz, Brass Copper



## **Waveguide Couplers Technical Data Sheet**

### PE-W22CP003-10

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 brass copper and incorporates a multihole 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

- · 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	33		50	GHz
Coupler				
Nominal Coupling Level		10		dB
Coupling Accuracy			±1	dB
Directivity		30		dB
Insertion Loss			1.2	dB
Main Line VSWR			1.2:1	
Secondary Line VSWR			1.2:1	
Coupling Flatness			±1	dB

#### Termination

### **Mechanical Specifications**

Size

 Length
 8 in [203.2 mm]

 Width
 1.125 in [28.58 mm]

 Height
 1.7625 in [44.77 mm]

 Weight
 0.287 lbs [130.18 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-22 Waveguide 10 dB Broadwall Coupler, UG-383/U Round Cover Flange, E-Plane Coupled Port, 33 GHz to 50 GHz, Brass Copper 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



WR-22 Waveguide 10 dB Broadwall Coupler, UG-383/U Round Cover Flange, E-Plane Coupled Port, 33 GHz to 50 GHz, Brass Copper



# **Waveguide Couplers Technical Data Sheet**

PE-W22CP003-10

Interface

Waveguide Size Flange Type Flange Designation Flange Material and Plating

Coupler Body Material and Plating

WR-22 Round Cover UG-383/U Brass Copper, Gold

Brass Copper, Gold

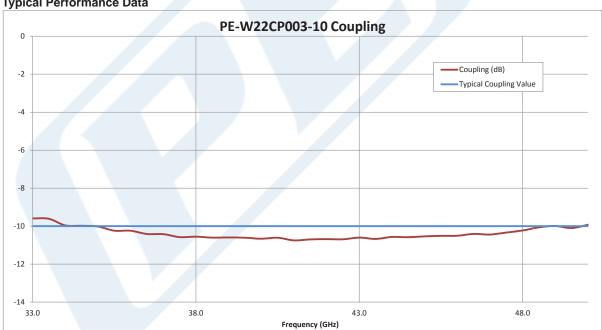
**Environmental Specifications** 

Compliance Certifications (see product page for current document)

#### Plotted and Other Data

Notes:





Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-22 Waveguide 10 dB Broadwall Coupler, UG-383/U Round Cover Flange, E-Plane Coupled Port, 33 GHz to 50 GHz, Brass Copper 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

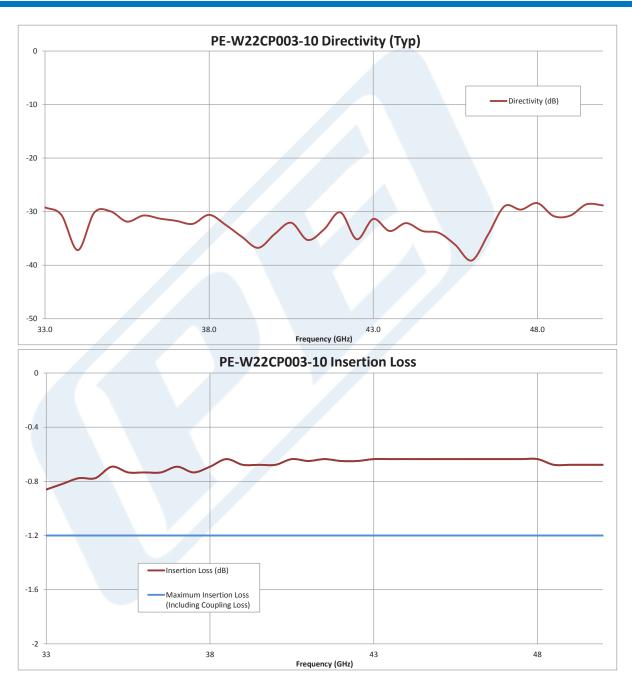


WR-22 Waveguide 10 dB Broadwall Coupler, UG-383/U Round Cover Flange, E-Plane Coupled Port, 33 GHz to 50 GHz, Brass Copper



# **Waveguide Couplers Technical Data Sheet**

## PE-W22CP003-10



Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-22 Waveguide 10 dB Broadwall Coupler, UG-383/U Round Cover Flange, E-Plane Coupled Port, 33 GHz to 50 GHz, Brass Copper 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

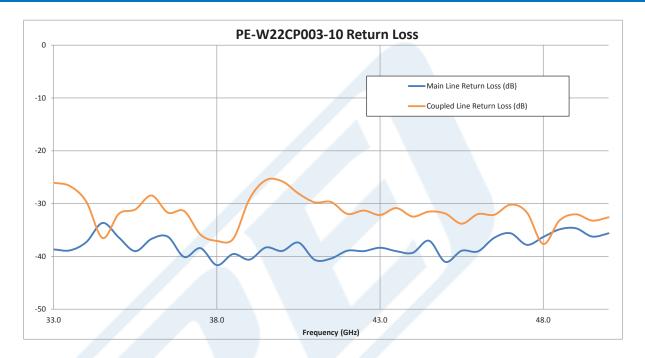


WR-22 Waveguide 10 dB Broadwall Coupler, UG-383/U Round Cover Flange, E-Plane Coupled Port, 33 GHz to 50 GHz, Brass Copper



# **Waveguide Couplers Technical Data Sheet**

## PE-W22CP003-10



WR-22 Waveguide 10 dB Broadwall Coupler, UG-383/U Round Cover Flange, E-Plane Coupled Port, 33 GHz to 50 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.

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

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

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

# PE-W22CP003-10 CAD Drawing

WR-22 Waveguide 10 dB Broadwall Coupler, UG-383/U Round Cover Flange, E-Plane Coupled Port, 33 GHz to 50 GHz, Brass Copper

