

WR-90 20 dB Directional Waveguide Broadwall Coupler, CPR-90G Grooved Flange, E-Plane Coupled Port, 8.2 GHz to 12.4 GHz

TECHNICAL DATA SHEET

The PEWCP1021 is a WR-90 Directional Broadwall waveguide coupler that operates in the frequency range of 8.2 to 12.4 GHz. This Waveguide component has a typical VSWR of 1.05:1. These designs are made of painted copper alloy and incorporate a broad wall configuration that result in a mid-band nominal coupling value of 10, 20, or 30 dB. Common applications for this component would be where power measurements are required within a system for measuring/sampling power or frequency monitoring with minimal signal loss to the main transmission line. Pasternack offers a complete family of waveguide Crossguide and Broadwall couplers that are in-stock and ship same day.

Features

- Broadwall Waveguide Coupler
- 20 dB Nominal Coupling Level
- 8.2 GHz to 12.4 GHz Frequency Range

Applications

- Test Benches
 - Radar
 - Satellite

- Microwave Radio
- Attenuation Measurements
- Power Measurements
- Source Leveling

Body and Flanges made of Copper Alloy

Low VSWR

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

Description	Minimum	Typical	Maximum	Units
Frequency Range	8.2		12.4	GHz
Directivity		40		dB
Insertion Loss		0.15		dB
Main Line VSWR		1.05:1		
Nominal Coupling Level		20		dB

Mechanical Specifications

Size	
Length	16.68 in [423.67 mm]
Height	2.742 in [69.65 mm]
Weight	1.933 lbs [876.79 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-90 20 dB Directional Waveguide Broadwall Coupler, CPR-90G Grooved Flange, E-Plane Coupled Port, 8.2 GHz to 12.4 GHz PEWCP1021

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

Configuration

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WR-90 Size Coupled Flange(s) **Output Flange** Description **Input Flange** CPR-90G CPR-90G CPR-90G Flange Type Material Copper Alloy Copper Alloy Copper Alloy Plating Silver Silver Silver

Directional E-Plane Broadwall

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

Plotted and Other Data Notes:

Values at 25 °C, sea level

Typical Performance Data



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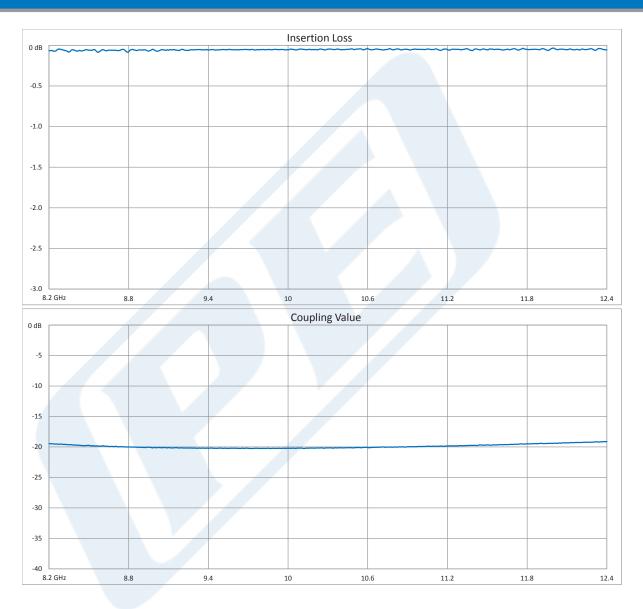




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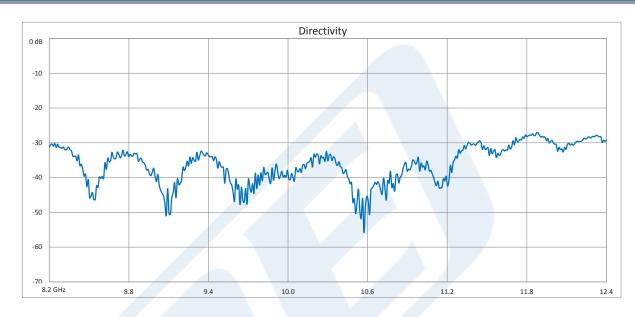




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WR-90 20 dB Directional Waveguide Broadwall Coupler, CPR-90G Grooved Flange, E-Plane Coupled Port, 8.2 GHz to 12.4 GHz from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/wr-90-20-db-directional-waveguide-broadwall-coupler-cpr-90g-grooved-e-pewcp1021-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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PEWCP1021 CAD Drawing

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