

WR-112 30 dB Directional Waveguide Broadwall Coupler, UG-51/U Square Cover Flange, E-Plane Coupled Port, 7.05 GHz to 10 GHz

TECHNICAL DATA SHEET

The PEWCP1025 is a WR-112 Directional Broadwall waveguide coupler that operates in the frequency range of 7.05 to 10 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
- 30 dB Nominal Coupling Level
- 7.05 GHz to 10 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	7.05		10	GHz
Directivity		40		dB
Insertion Loss		0.15		dB
Main Line VSWR		1.05:1		
Nominal Coupling Level		30		dB

Mechanical Specifications

Size	
Length	18.62 in [472.95 mm]
Height	3.997 in [101.52 mm]
Weight	3.12 lbs [1.42 Kg]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-112 30 dB Directional Waveguide Broadwall Coupler, UG-51/U Square Cover Flange, E-Plane Coupled Port, 7.05 GHz to 10 GHz PEWCP1025

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 Size		Directional E-Plane Broadwall WR-112					
Description	scription Input Flange		Ou	Output Flange		Coupled Flange(s)	
Flange Type	Square	Square Cover		quare Cover	Square Cover		
Flange Designation	UG-51/U			UG-51/U	UG-51/U		
Material	Copper Alloy		(Copper Alloy	Copper Alloy		
Plating	Sih	Silver		Silver	Silver		
RoHS Compliant REACH Compliant ted and Other Data Notes: • Values at 25 °C, sea level			12/1	7/2015			
Typical Performance Data		v	'SWR				
1.50							
1.45							
1.40							
1.40							
1.35							
1.35 1.30 1.25							
1.35 1.30 1.25 1.20							
1.35							
1.35 1.30 1.25 1.20							
1.35							
1.35 1.30 1.25 1.20 1.15 1.10							

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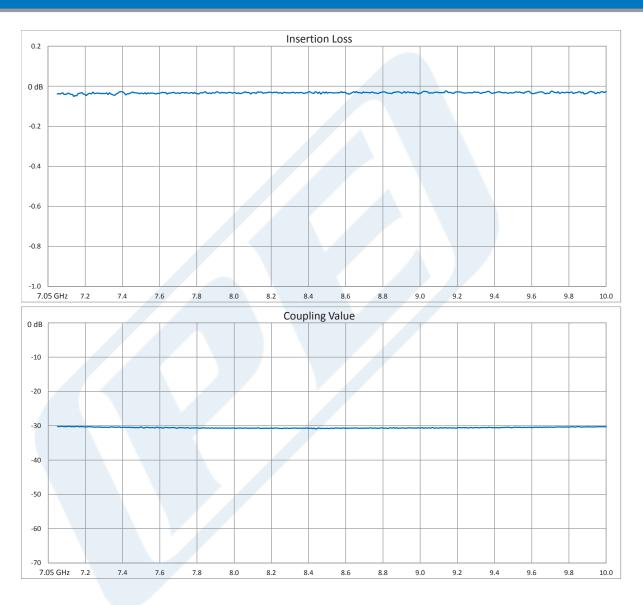




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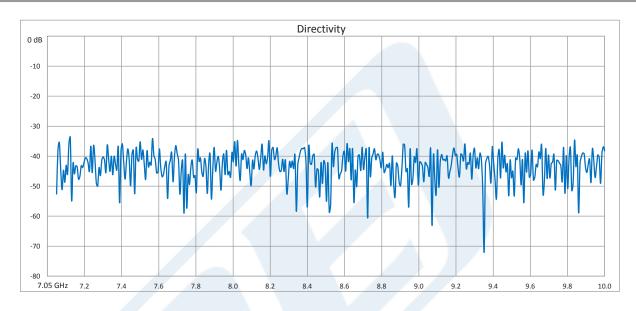




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WR-112 30 dB Directional Waveguide Broadwall Coupler, UG-51/U Square Cover Flange, E-Plane Coupled Port, 7.05 GHz to 10 GHz from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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URL: http://www.pasternack.com/wr-112-30-db-directional-waveguide-broadwall-coupler-ug51-square-e-pewcp1025-p.aspx

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PEWCP1025 CAD Drawing

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