

WR-90 10 dB Directional Waveguide Broadwall Coupler, UG-39/U Square Cover Flange, E-Plane Coupled Port, 8.2 GHz to 12.4 GHz

TECHNICAL DATA SHEET

The PEWCP1017 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
- 10 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		10		dB

Mechanical Specifications

Size	
Length	16.68 in [423.67 mm]
Height	2.742 in [69.65 mm]
Weight	1.773 lbs [804.22 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 10 dB Directional Waveguide Broadwall Coupler, UG-39/U Square Cover Flange, E-Plane Coupled Port, 8.2 GHz to 12.4 GHz PEWCP1017

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-90			
Description	Input Flange	Output Flange	Coupled Flange(s		
Flange Type	Square Cover	Square Cover	Square Cover		
Flange Designation	UG-39/U	UG-39/U	UG-39/U		
Material	Copper Alloy	Copper Alloy	Copper Alloy		
Plating	Silver	Silver	Silver		
npliance Certifications (N RoHS Compliant REACH Compliant ted and Other Data Notes: Values at 25 °C, sea level	visit www.rastemack.com	12/17/2015			
Typical Performance Data		VSWR			
		VSVVN			
1.50		VSWR			
1.50					
1.45					
1.45					
1.45 1.40 1.35 1.30					
1.45 1.40 1.35 1.30 1.25					
1.45 1.40 1.35 1.30 1.25 1.20					
1.45 1.40 1.35 1.30 1.25					
1.45 1.40 1.35 1.30 1.25 1.20					
1.45 1.40 1.35 1.30 1.25 1.20 1.15					
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0.2

-0.2

-0.4

-0.6

-0.8

-10

-20

-30

-40

-50

-60

-70

Insertion Loss 0 dB -1.0 8.2 GHz 10.0 8.8 9.4 10.6 11.2 11.8 12.4 **Coupling Value** 0 dB 8.2 GHz 8.8 9.4 10.0 10.6 11.2 11.8 12.4

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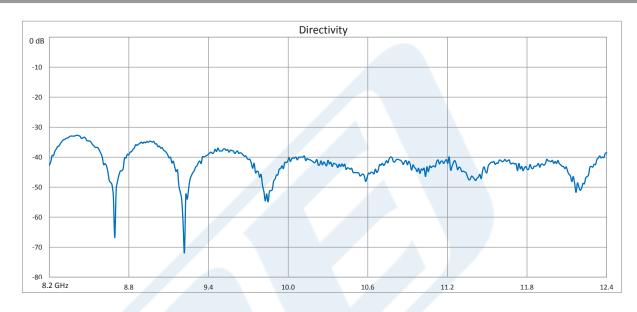




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WR-90 10 dB Directional Waveguide Broadwall Coupler, UG-39/U Square Cover Flange, E-Plane Coupled Port, 8.2 GHz to 12.4 GHz from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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URL: http://www.pasternack.com/wr-90-10-db-directional-waveguide-broadwall-coupler-ug39-square-e-pewcp1017-p.aspx

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PEWCP1017 CAD Drawing

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