

WR-90 20 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 PEWCP1018 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)

Minimum	Typical	Maximum	Units
8.2		12.4	GHz
	40		dB
	0.15		dB
	1.05:1		
	20		dB
		8.2 40 0.15 1.05:1	8.2 12.4 40 0.15 1.05:1

Mechanical Specifications

Size		
Length		16.68 in [423.67 mm]
Height		2.742 in [69.65 mm]
Weight		1.868 lbs [847.31 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, UG-39/U Square Cover Flange, E-Plane Coupled Port, 8.2 GHz to 12.4 GHz PEWCP1018

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







PEWCP1018



WR-90 20 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

Design Size			Directional E-Plane Broadwall WR-90			
Description	Input Flan	ge	Output Flange	Coupled Flange(s)		
Flange Type	Square Cov	ver	Square Cover	Square Cover		
Flange Designation	UG-39/U		UG-39/U	UG-39/U		
Material	Copper Allo	ру	Copper Alloy	Copper Alloy		
Plating	Silver	Silver Silver		Silver		
npliance Certifications (v RoHS Compliant REACH Compliant ted and Other Data Notes: • Values at 25 °C, sea level	risit www.Pasternack	.com for cur	rent document) 12/17/2015			
Typical Performance Data		VSWR				
3						
2.75						
2.75						
2.5						
2.5						
2.5						
2.5 2.25 2 1.75						

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, UG-39/U Square Cover Flange, E-Plane Coupled Port, 8.2 GHz to 12.4 GHz PEWCP1018

ISO 9001 : 2008 Registered

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



PEWCP1018

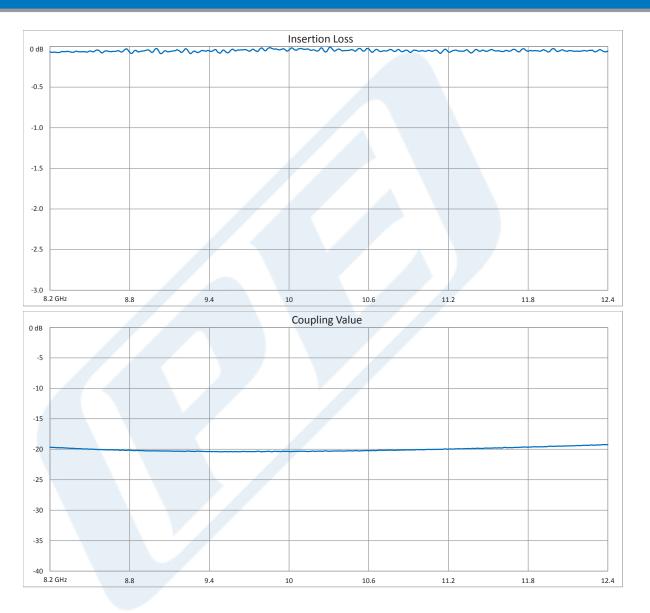




PEWCP1018

WR-90 20 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



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, UG-39/U Square Cover Flange, E-Plane Coupled Port, 8.2 GHz to 12.4 GHz PEWCP1018

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

ISO 9001 : 2008 Registered

3

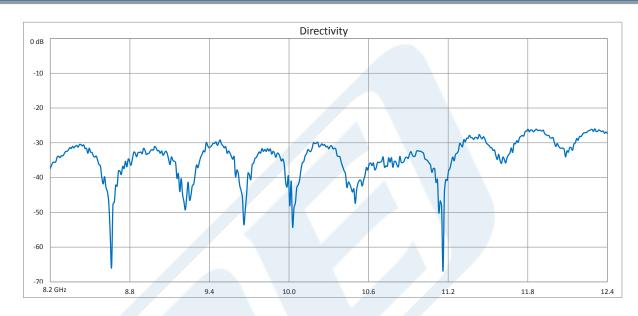




WR-90 20 dB Directional Waveguide Broadwall Coupler, UG-39/U Square Cover Flange, E-Plane Coupled Port, 8.2 GHz to 12.4 GHz

TECHNICAL DATA SHEET

PEWCP1018



WR-90 20 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.

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, UG-39/U Square Cover Flange, E-Plane Coupled Port, 8.2 GHz to 12.4 GHz PEWCP1018

URL: https://www.pasternack.com/wr-90-20-db-directional-waveguide-broadwall-coupler-ug39-square-e-pewcp1018-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



Sales@Pasternack.com • Techsupport@Pasternack.com

PEWCP1018 CAD Drawing

WR-90 20 dB Directional Waveguide Broadwall Coupler, UG-39/U Square Cover Flange, E-Plane Coupled Port, 8.2 GHz to 12.4 GHz

