

## WR-51 20 dB Directional Waveguide Broadwall Coupler, Square Cover Flange, E-Plane Coupled Port, 15 GHz to 22 GHz

### **TECHNICAL DATA SHEET**

The PEWCP1009 is a WR-51 Directional Broadwall waveguide coupler that operates in the frequency range of 15 to 22 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
- 15 GHz to 22 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	15		22	GHz
Directivity		35		dB
Insertion Loss		0.15		dB
Main Line VSWR		1.05:1		
Nominal Coupling Level		20		dB

### **Mechanical Specifications**

Size		
Length		
Height		
Weight		

12 in [304.8 mm] 2.776 in [70.51 mm] 0.95 lbs [430.91 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-51 20 dB Directional Waveguide Broadwall Coupler, Square Cover Flange, E-Plane Coupled Port, 15 GHz to 22 GHz PEWCP1009

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 B WR-51	Directional E-Plane Broadwall WR-51		
Description	Input Flange	Output Flange	Coupled Flange(s)		
Flange Type	Square Cover	Square Cover	e Cover Square Cover		
Material	Copper Alloy	Copper Alloy	Copper Alloy		
Plating	Silver	Silver	Silver		
npliance Certification RoHS Compliant REACH Compliant ted and Other Data	<b>15</b> (visit www.Pasternack.com fo	or current document) 12/17/2015			
Notes: • Values at 25 °C, sea le	vel				
Typical Performance Da					
		/SWR			
1.35					
1.30					
1.50					
1.25					
1.20					
1.15					
1.10					
1.10					
1.10					

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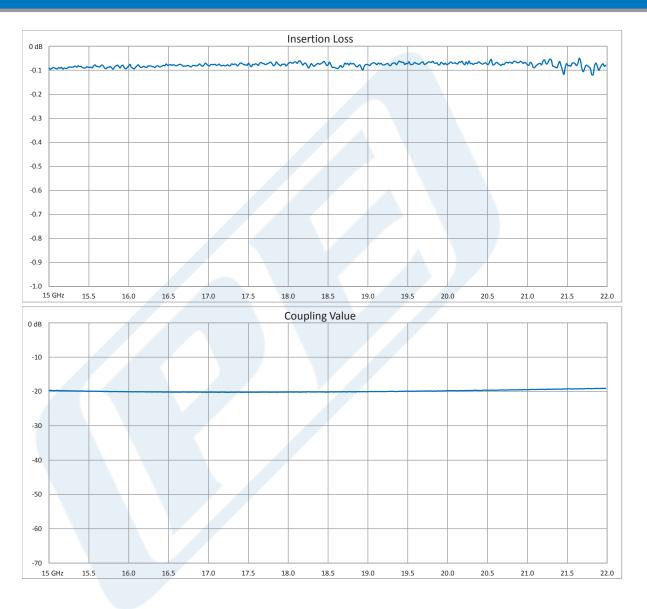




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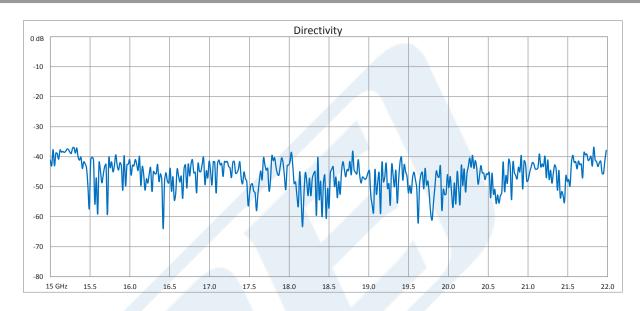




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WR-51 20 dB Directional Waveguide Broadwall Coupler, Square Cover Flange, E-Plane Coupled Port, 15 GHz to 22 GHz from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/wr-51-20-db-directional-waveguide-broadwall-coupler-square-e-pewcp1009-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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PEWCP1009 CAD Drawing

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