

# WR-90 30 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

## PEWCP1019

The PEWCP1019 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
- 30 dB Nominal Coupling Level
- 8.2 GHz to 12.4 GHz Frequency Range

- Body and Flanges made of Copper Alloy
- Low VSWR

### **Applications**

- Test Benches
- RadarSatellite

- Microwave Radio
- Attenuation Measurements
- Power Measurements

Source Leveling

#### 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		30		dB

### **Mechanical Specifications**

#### Size

 Length
 16.68 in [423.67 mm]

 Height
 2.742 in [69.65 mm]

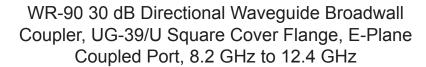
 Weight
 1.83 lbs [830.07 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-90 30 dB Directional Waveguide Broadwall Coupler, UG-39/U Square Cover Flange, E-Plane Coupled Port, 8.2 GHz to 12.4 GHz PEWCP1019

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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#### Configuration

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

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

RoHS Compliant REACH Compliant

12/17/2015

#### **Plotted and Other Data**

Notes:

· Values at 25 °C, sea level

#### **Typical Performance Data**



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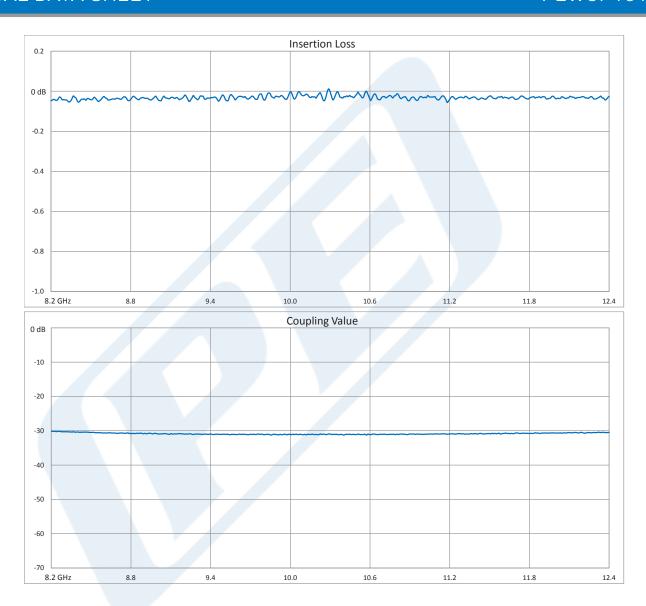




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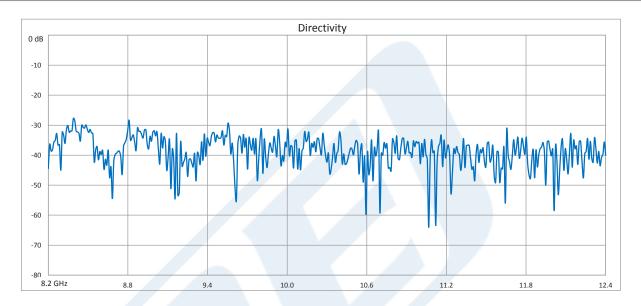




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WR-90 30 dB Directional Waveguide Broadwall Coupler, UG-39/U Square Cover Flange, E-Plane Coupled Port, 8.2 GHz to 12.4 GHz from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave 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-90-30-db-directional-waveguide-broadwall-coupler-ug39-square-e-pewcp1019-p.aspx

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# **PEWCP1019 CAD Drawing**

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