

TECHNICAL DATA SHEET

The PE-W15CP001-20 is a millimeter-wave directional waveguide coupler that operates in the frequency range of 50 to 75 GHz (V Band). This V band component offers a nominal coupling level of 20 dB, mean coupling accuracy of +/- 1, coupling flatness of 1.5 dB, and has a maximum VSWR level of 1.2:1. The design is made of gold plated brass copper and incorporates a multi-hole configuration that results in typical directivity of 30 dB. Common applications for this millimeter wave component involve test setups where power reflection measurements are required that might involve power sampling and frequency monitoring with minimal signal loss to the main transmission path. This H plane coupler uses integrated WR-15 waveguide ports with UG 385/U flanges. Pasternack offers a complete family of waveguide millimeter wave directional couplers that are in-stock for same day shipment.

Features

- 20 dB Nominal Coupling Level
- H-Plane Waveguide Coupler
- 50 GHz to 75 GHz Frequency Range
- Applications
 - Test Benches
 - Radar
 - Satellite

- Microwave Radio
- Attenuation Measurements
- Power Measurements

Configuration

Waveguide Size Flange 1 Flange 2 Flange 3 Design WR-15 UG-385/U UG-385/U UG-385/U

Directional Coupler

Body and Flanges made of Brass Copper

Source Leveling

Gold Plated Waveguide

1.2:1 VSWR

Electrical Specifications (Values at 25°C, sea level)

Description	Minimum	Typical	Maximum	Units
Frequency Range	50		75	GHz
Directivity		30		dB
Insertion Loss			1	dB
Input VSWR			1.2:1	
Secondary Line VSWR			1.2:1	
Nominal Coupling Level		20		dB
Mean Coupling Accuracy			±1	dB
Coupling Flatness			±1.5	dB

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-15 20 dB Directional Waveguide Coupler With UG-385/U Flange and H-Plane Coupled Port From 50 GHz to 75 GHz V Band PE-W15CP001-20

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





PE-W15CP001-20

CRITERO



TECHNICAL DATA SHEET



PE-W15CP001-20

Mechanical Specifications Size Length 3.5 in [88.9 mm] Width/Dia. 1 in [25.4 mm] Height 0.83 in [21.08 mm] Waveguide WR-15 Size Material **Brass Copper** Plating Gold Color Gold Description Flange 1 Flange 2 Flange 3 UG-385/U UG-385/U UG-385/U Interface Material **Brass Copper** Brass Copper Brass Copper Plating Gold Gold Gold Gold Gold Gold Color

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

RoHS Compliant REACH Compliant

06/20/2013

Plotted and Other Data

Notes:

• Values at 25 °C, sea level

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-15 20 dB Directional Waveguide Coupler With UG-385/U Flange and H-Plane Coupled Port From 50 GHz to 75 GHz V Band PE-W15CP001-20

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

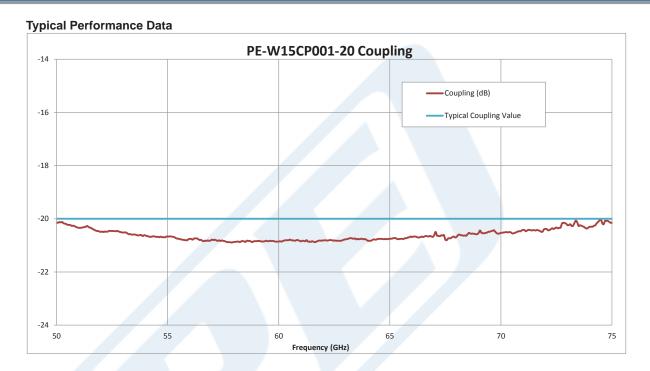




TECHNICAL DATA SHEET



PE-W15CP001-20



Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-15 20 dB Directional Waveguide Coupler With UG-385/U Flange and H-Plane Coupled Port From 50 GHz to 75 GHz V Band PE-W15CP001-20

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

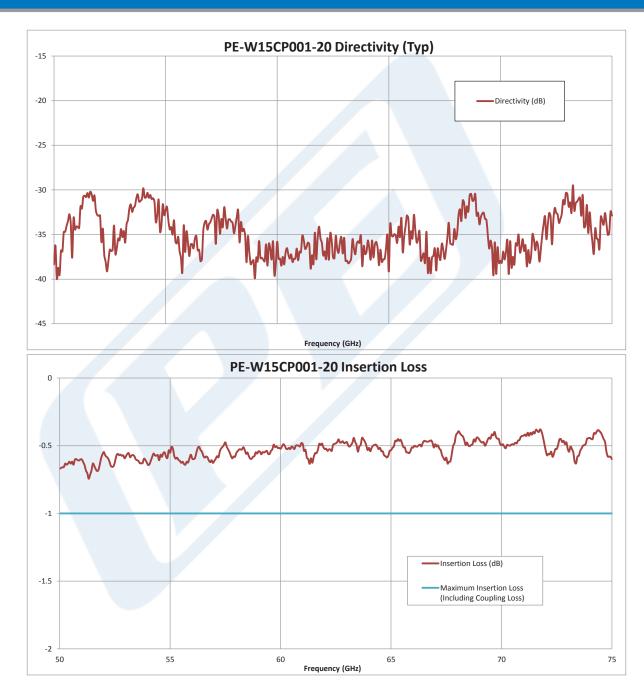




TECHNICAL DATA SHEET



PE-W15CP001-20



Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-15 20 dB Directional Waveguide Coupler With UG-385/U Flange and H-Plane Coupled Port From 50 GHz to 75 GHz V Band PE-W15CP001-20

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

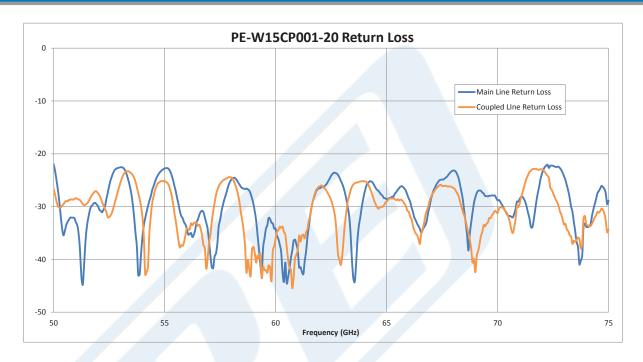


Sales@Pasternack.com • Techsupport@Pasternack.com



TECHNICAL DATA SHEET

PE-W15CP001-20



WR-15 20 dB Directional Waveguide Coupler With UG-385/U Flange and H-Plane Coupled Port From 50 GHz to 75 GHz V Band 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-15 20 dB Directional Waveguide Coupler With UG-385/U Flange and H-Plane Coupled Port From 50 GHz to 75 GHz V Band PE-W15CP001-20

URL: http://www.pasternack.com/wr-15-20db-directional-waveguide-coupler-ug-385-h-bend-pe-w15cp001-20-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



ISO 9001 : 2008 Registered

Sales@Pasternack.com • Techsupport@Pasternack.com

PE-W15CP001-20 CAD Drawing

WR-15 20 dB Directional Waveguide Coupler With UG-385/U Flange and H-Plane Coupled Port From 50 GHz to 75 GHz V Band

