



WR-112 20 dB Directional Waveguide Broadwall
Coupler, CPR-112G Grooved Flange, E-Plane
Coupled Port, 7.05 GHz to 10 GHz

TECHNICAL DATA SHEET

PEWCP1027

The PEWCP1027 is a WR-112 Directional Broadwall waveguide coupler that operates in the frequency range of 7.05 to 10 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
- 7.05 GHz to 10 GHz Frequency Range
- Body and Flanges made of Copper Alloy
- Low VSWR

Applications

- Test Benches
- Radar
- Satellite
- Microwave Radio
- Attenuation Measurements
- Power Measurements
- Source Leveling

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

Description	Minimum	Typical	Maximum	Units
Frequency Range	7.05		10	GHz
Directivity		40		dB
Insertion Loss		0.15		dB
Main Line VSWR		1.05:1		
Nominal Coupling Level		20		dB

Mechanical Specifications

Size

Length	18.62 in [472.95 mm]
Height	3.997 in [101.52 mm]
Weight	3.11 lbs [1.41 Kg]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-112 20 dB Directional Waveguide Broadwall Coupler, CPR-112G Grooved Flange, E-Plane Coupled Port, 7.05 GHz to 10 GHz PEWCP1027](#)



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Configuration

Design Directional E-Plane Broadwall
Size WR-112

Description	Input Flange	Output Flange	Coupled Flange(s)
Flange Type	CPR-112G	CPR-112G	CPR-112G
Material	Copper Alloy	Copper Alloy	Copper Alloy
Plating	Silver	Silver	Silver

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

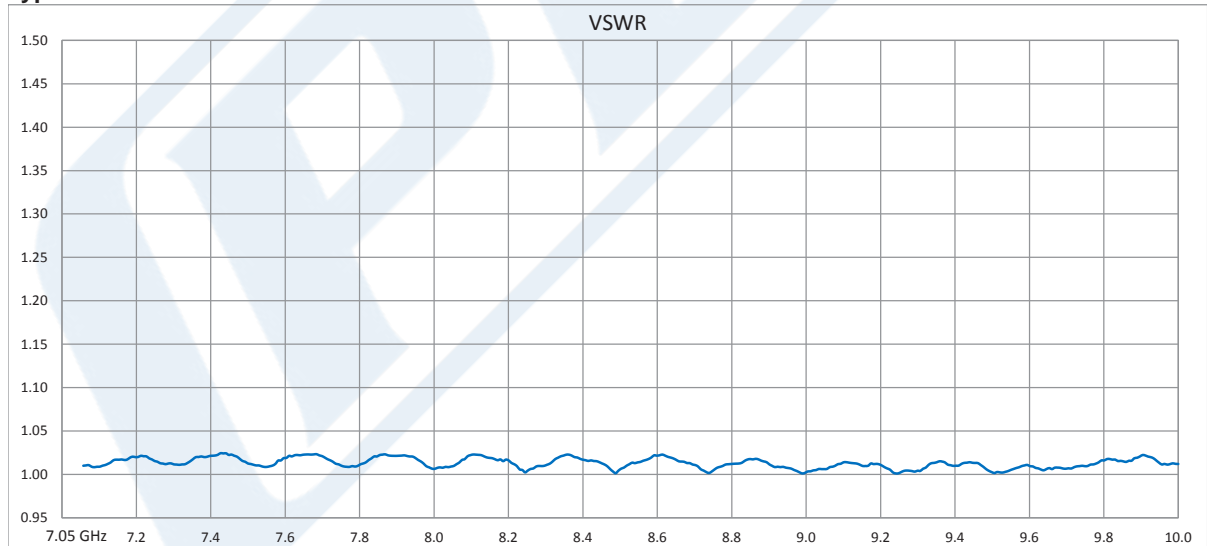
RoHS Compliant
REACH Compliant 12/17/2015

Plotted and Other Data

Notes:

- Values at 25 °C, sea level

Typical Performance Data



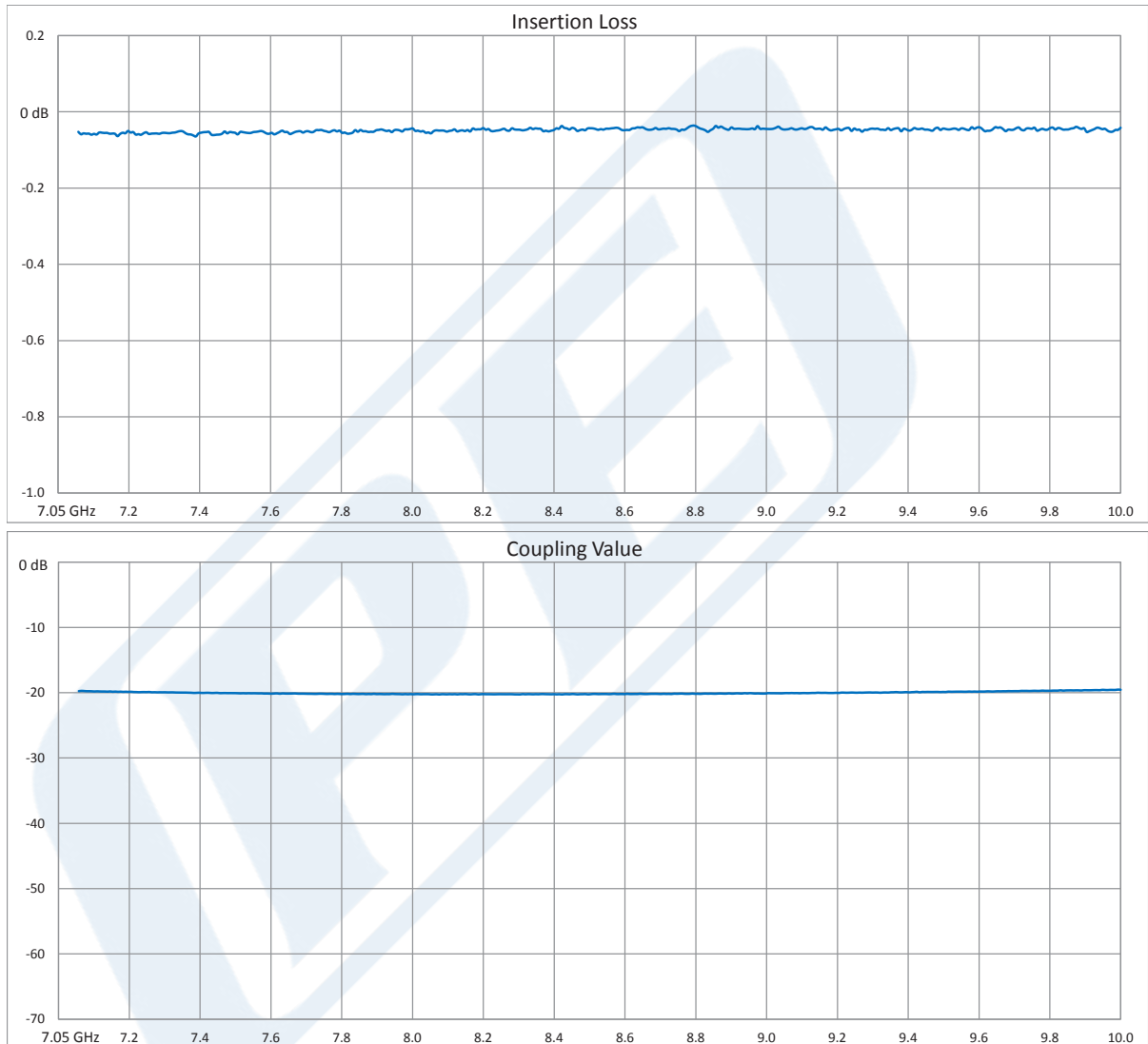
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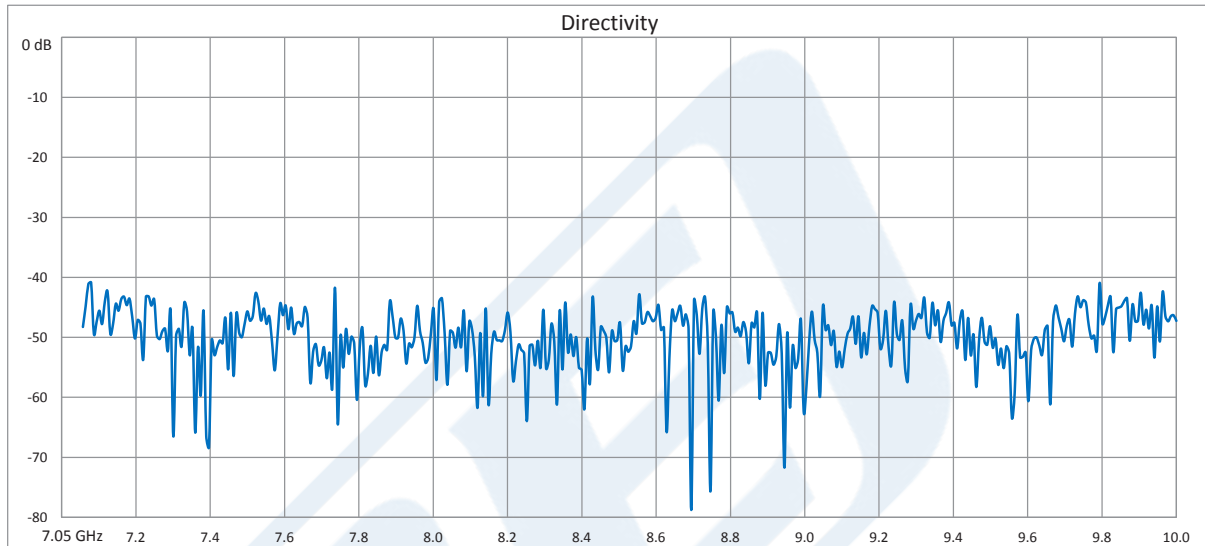
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WR-112 20 dB Directional Waveguide Broadwall Coupler, CPR-112G Grooved Flange, E-Plane Coupled Port, 7.05 GHz to 10 GHz from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

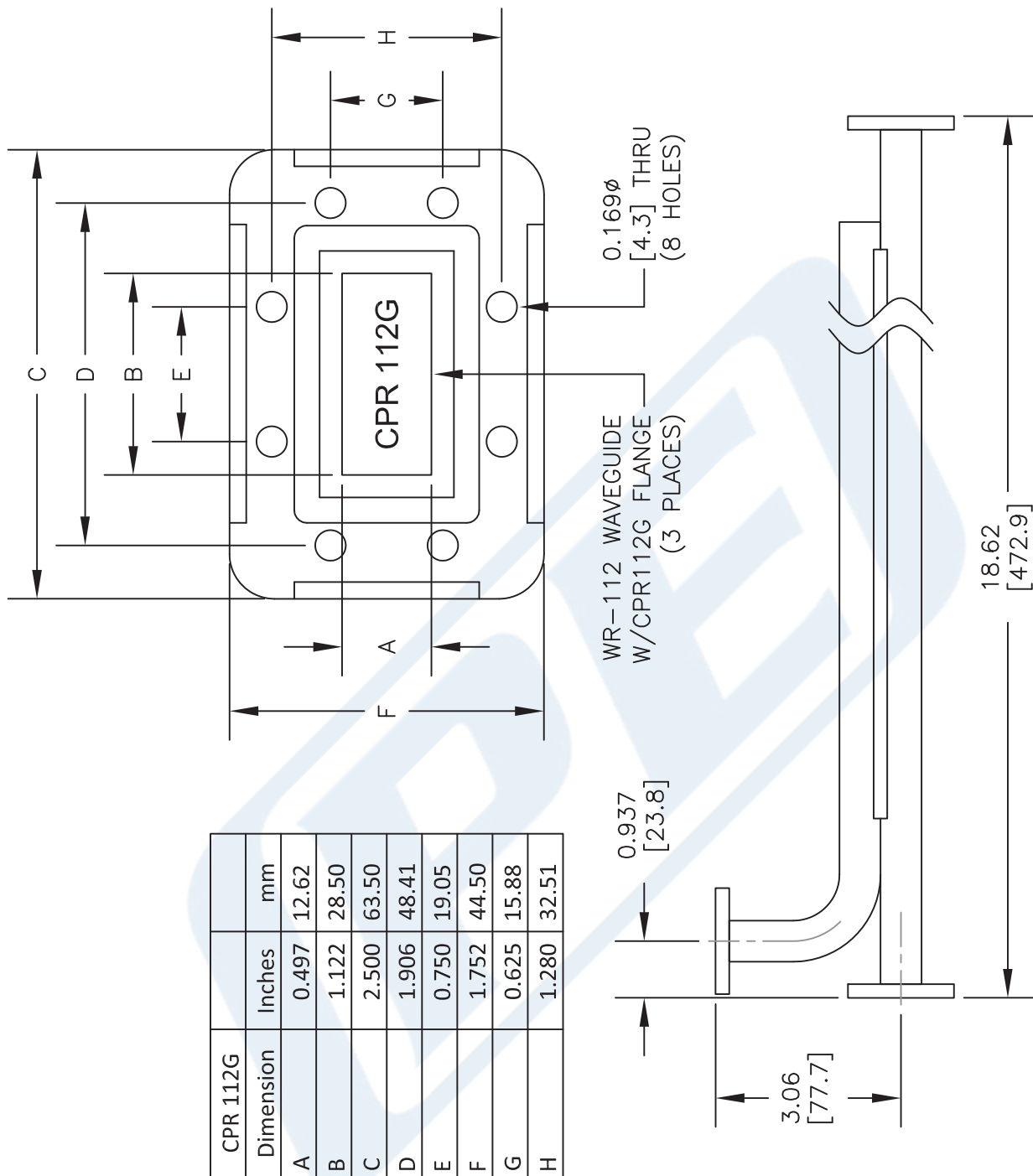
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. 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.

PEWC1027 CAD Drawing

WR-112 20 dB Directional Waveguide Broadwall Coupler, CPR-112G
Grooved Flange, E-Plane Coupled Port, 7.05 GHz to 10 GHz



CPR 112G	Dimension	Inches	mm
	A	0.497	12.62
	B	1.122	28.50
	C	2.500	63.50
	D	1.906	48.41
	E	0.750	19.05
	F	1.752	44.50
	G	0.625	15.88
	H	1.280	32.51

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES.
DECIMALS ±0.030
.X ±0.030
.XX ±0.015
.XXX ±0.005

* THESE DIMENSIONS AND TOLERANCES
SUPERSEDE NOTE #1 ON TITLE BLOCK.



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DWG TITLE

PEWC1027

FSCM NO. 53919

CAD FILE 040516

SCALE N/A

SIZE A

2233

NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].