



WR-112 20 dB Waveguide Crossguide Coupler, CPR-112G Grooved Flange, 7.05 GHz to 10 GHz

TECHNICAL DATA SHEET

PEWCP1067

The PEWCP1067 is a WR-112 crossguide 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 cross wall configuration that result in a mid-band nominal coupling value of 20, 30, 40 or 50 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. This WR-112 waveguide coupler uses grooved CPR-112 flanges. Pasternack offers a complete family of waveguide Crossguide and Top wall couplers that are in-stock and ship same day.

Features

- Crossguide Waveguide Coupler
- 20 dB Nominal Coupling Level
- 7.05 GHz to 10 GHz Frequency Range
- Body and Flanges made of Copper Alloy
- Low VSWR
- Grooved CPR

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		25		dB
Insertion Loss		0.1		dB
Main Line VSWR		1.05:1		
Nominal Coupling Level		20		dB

Mechanical Specifications

Size	
Length	4 in [101.6 mm]
Width/Dia.	4 in [101.6 mm]
Weight	1.63 lbs [739.36 g]

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 Waveguide Crossguide Coupler, CPR-112G Grooved Flange, 7.05 GHz to 10 GHz PEWCP1067](#)



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Configuration

Design
Size

Crossguide
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

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

RoHS Compliant

REACH Compliant

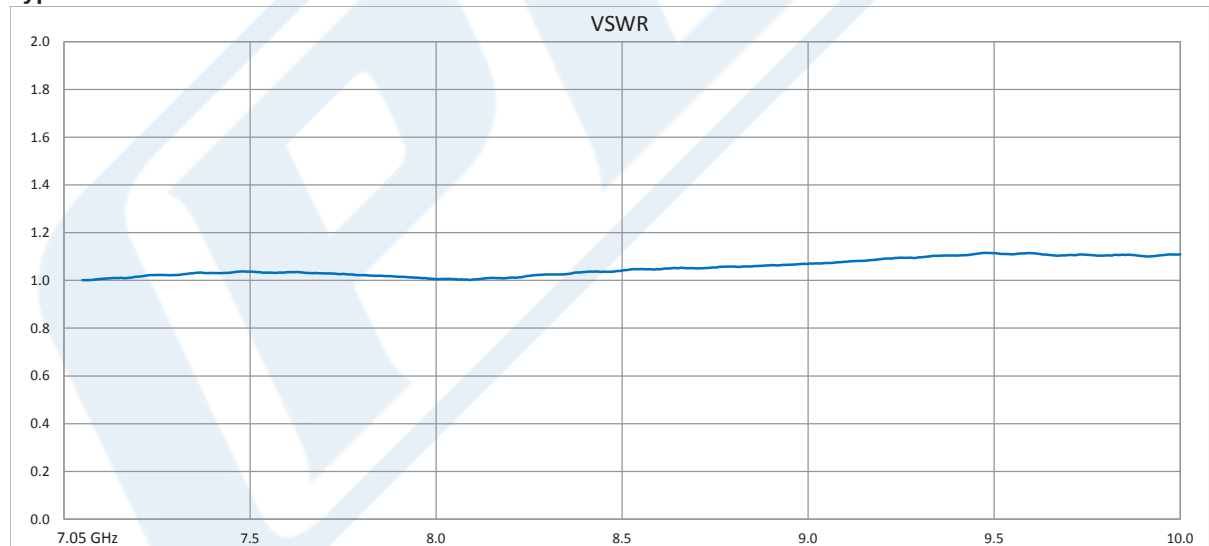
12/17/2015

Plotted and Other Data

Notes:

- Values at 25 °C, sea level

Typical Performance Data



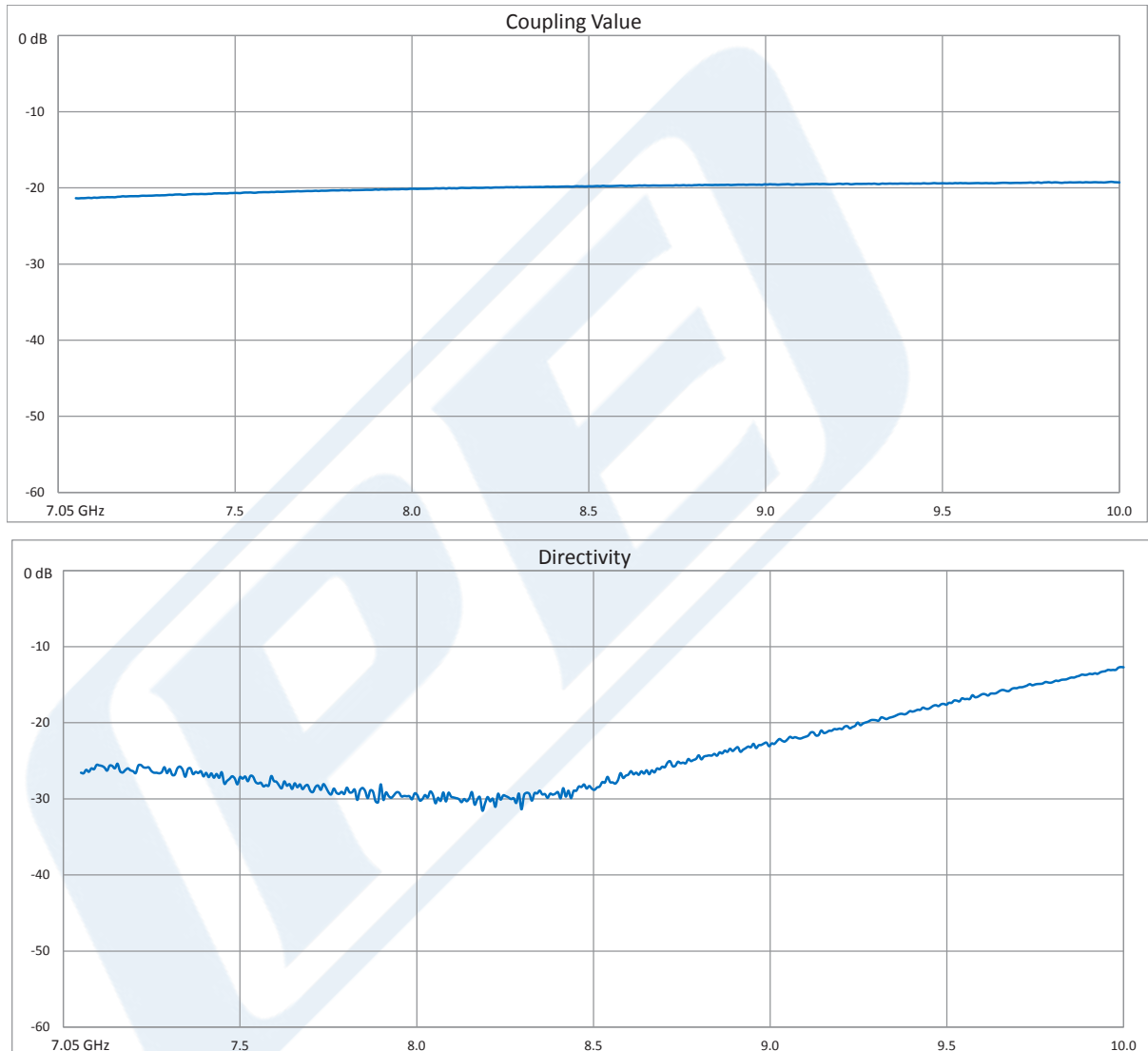
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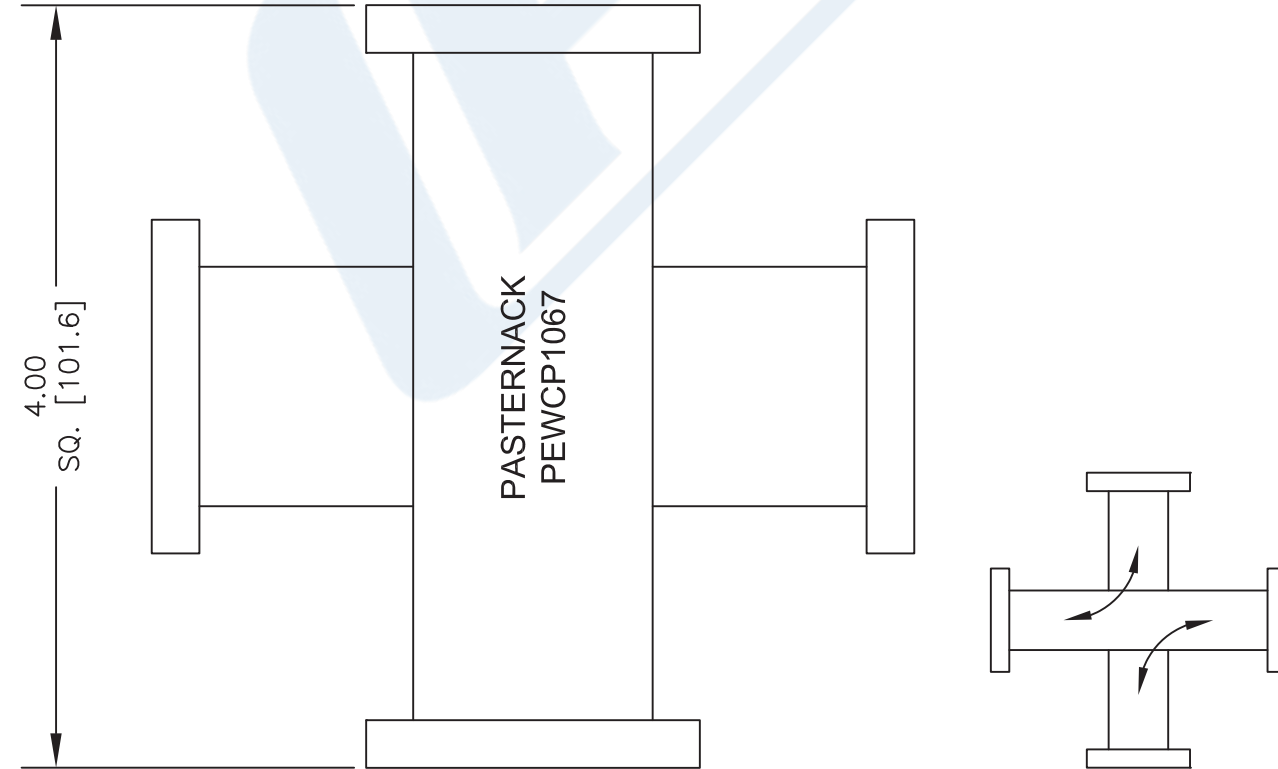
PEWCP1067



UL
REGISTERED FIRM
PASTERNAK ENTERPRISES, INC.
EQUIPMENT 1-2008
CERTIFICATE NO. 100000010000

PEWCWP1067 CAD Drawing

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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

DWG TITLE

PEWCWP1067

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].

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FSCM NO. 53919

CAD FILE 050216

SCALE N/A

SIZE A

2233