



WR-137 40 dB Waveguide Crossguide Coupler, CPR-137G Grooved Flange, 5.85 GHz to 8.2 GHz

TECHNICAL DATA SHEET

PEWCP1077

The PEWCP1077 is a WR-137 crossguide waveguide coupler that operates in the frequency range of 5.85 to 8.2 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-137 waveguide coupler uses grooved CPR-137 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
- 40 dB Nominal Coupling Level
- 5.85 GHz to 8.2 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	5.85		8.2	GHz
Directivity		20		dB
Insertion Loss		0.1		dB
Main Line VSWR		1.05:1		
Nominal Coupling Level		40		dB

Mechanical Specifications

Size	
Length	5 in [127 mm]
Width/Dia.	5 in [127 mm]
Weight	2.02 lbs [916.26 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-137 40 dB Waveguide Crossguide Coupler, CPR-137G Grooved Flange, 5.85 GHz to 8.2 GHz PEWCP1077](#)



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Configuration

Design
Size

Crossguide
WR-137

Description	Input Flange	Output Flange	Coupled Flange(s)
Flange Type	CPR-137G	CPR-137G	CPR-137G
Material	Copper Alloy	Copper Alloy	Copper Alloy

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

RoHS Compliant

REACH Compliant

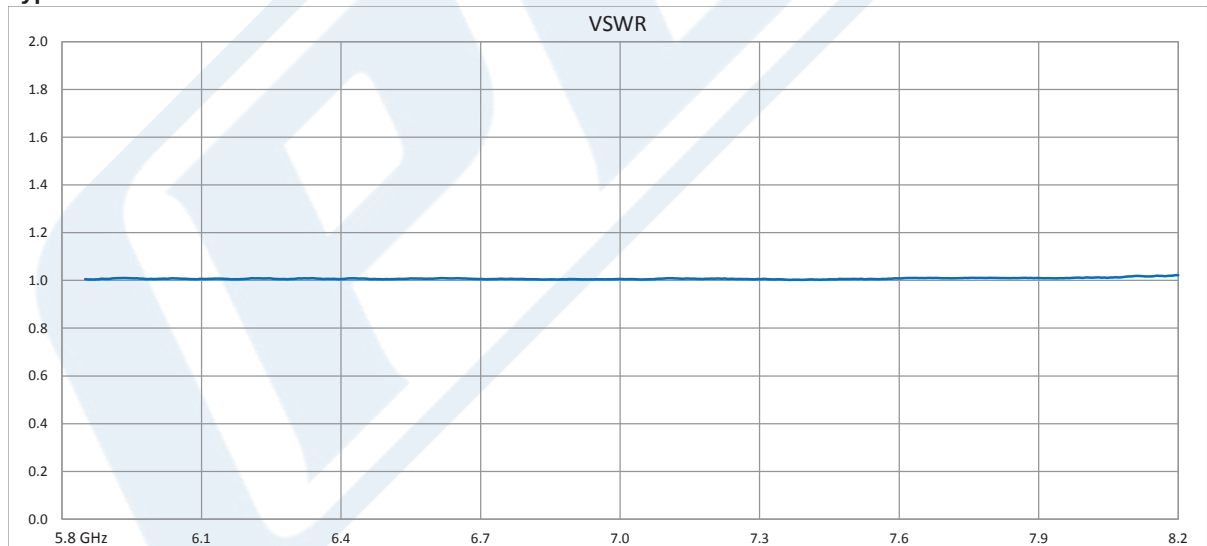
12/17/2015

Plotted and Other Data

Notes:

- Values at 25 °C, sea level

Typical Performance Data



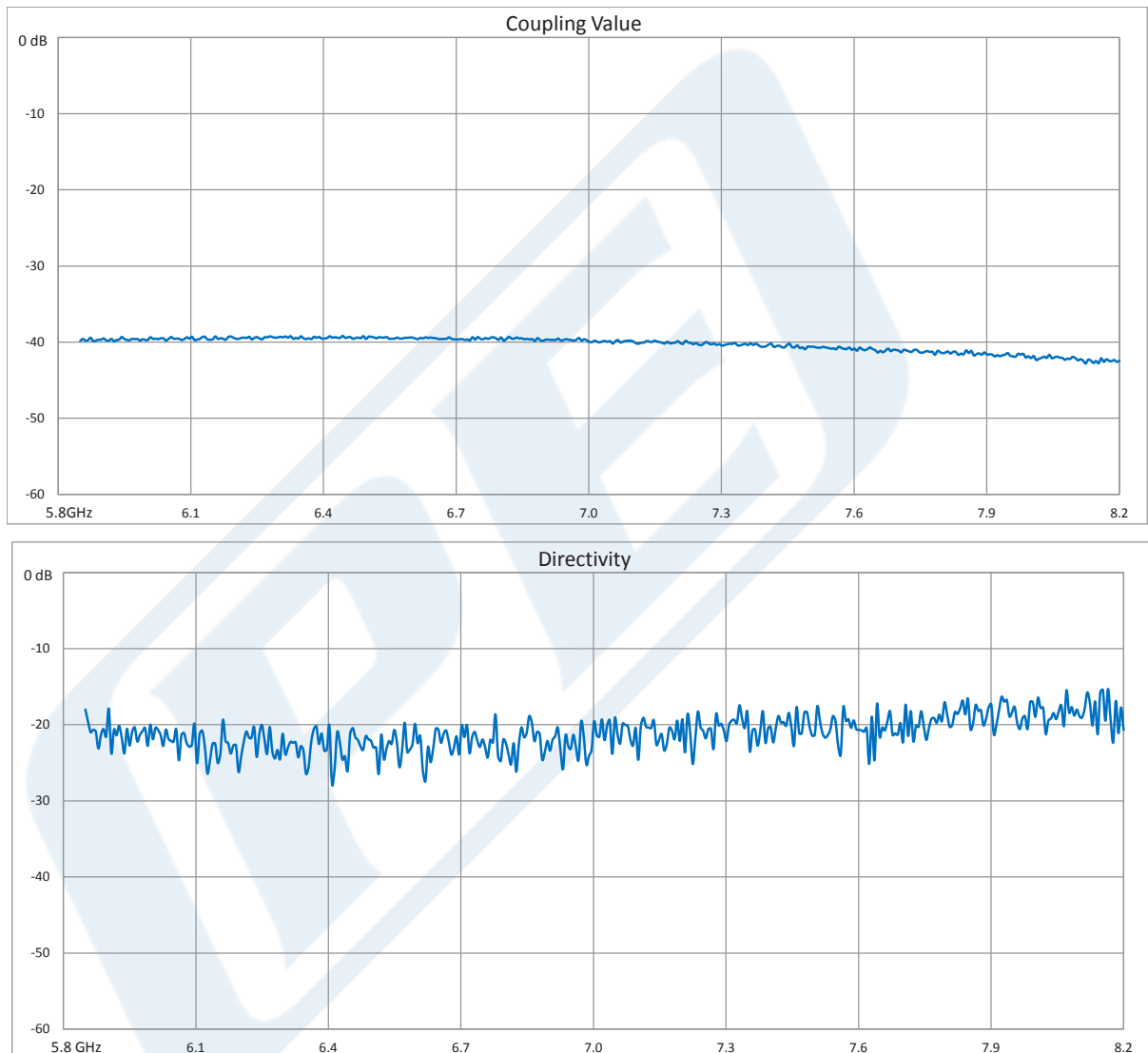
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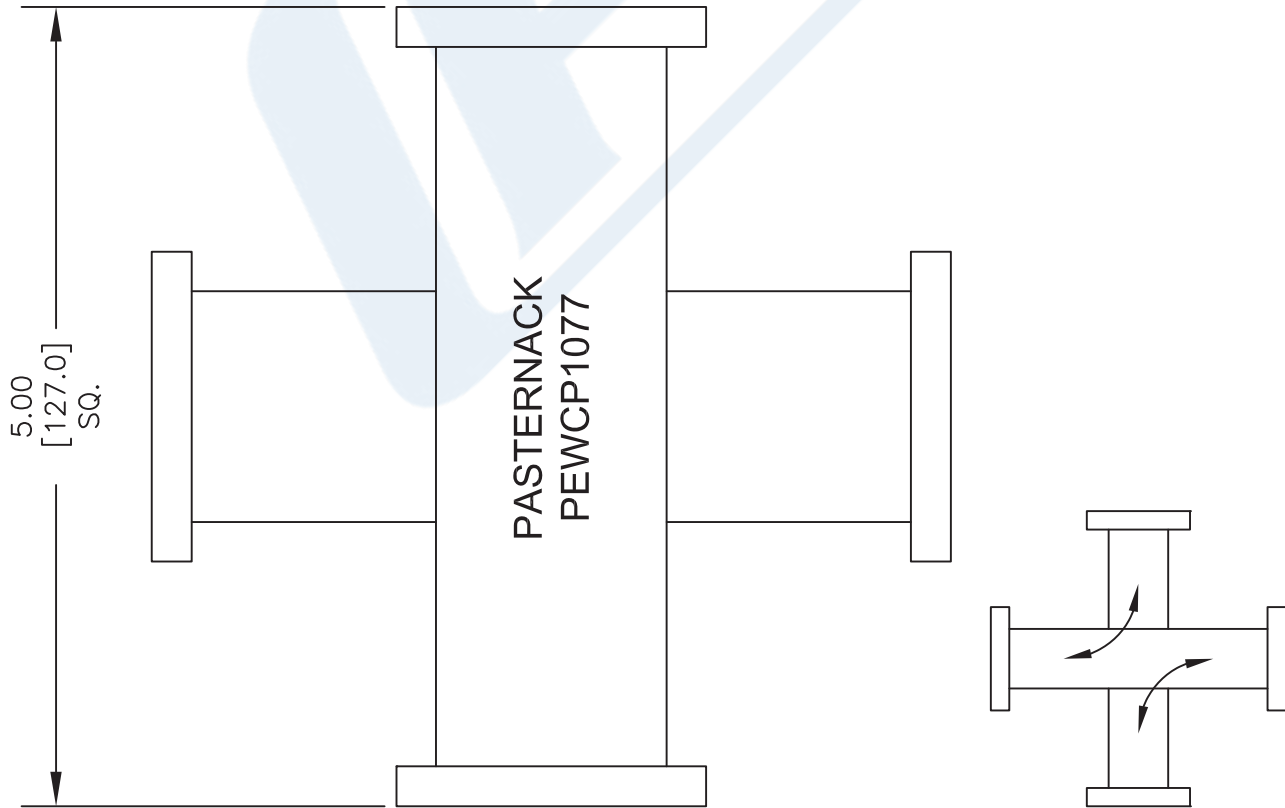
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements.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

PEWCIP1077 CAD Drawing

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CPR 137G	Dimension	Inches	mm
A		0.622	15.80
B		1.372	34.85
C		2.687	68.25
D		2.188	55.58
E		0.875	22.23
F		1.937	49.20
G		0.626	15.90
H		1.438	36.53

DWG TITLE

PEWCIP1077

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