



WR-90 50 dB Waveguide Crossguide Coupler, CPR-90G Grooved Flange, 8.2 GHz to 12.4 GHz

TECHNICAL DATA SHEET

PEWCP1062

The PEWCP1062 is a WR-90 crossguide 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 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-90 waveguide coupler uses grooved CPR-90 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
- 50 dB Nominal Coupling Level
- 8.2 GHz to 12.4 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 | 8.2 | | 12.4 | GHz |
| Directivity | | 10 | | dB |
| Insertion Loss | | 0.1 | | dB |
| Main Line VSWR | | 1.05:1 | | |
| Nominal Coupling Level | | 50 | | dB |

Mechanical Specifications

| | |
|-------------|---------------------|
| Size | |
| Length | 3 in [76.2 mm] |
| Width/Dia. | 3 in [76.2 mm] |
| Weight | 1.07 lbs [485.34 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 50 dB Waveguide Crossguide Coupler, CPR-90G Grooved Flange, 8.2 GHz to 12.4 GHz PEWCP1062](#)



WR-90 50 dB Waveguide Crossguide Coupler, CPR-90G Grooved Flange, 8.2 GHz to 12.4 GHz

TECHNICAL DATA SHEET

PEWCP1062

Configuration

Design Crossguide
Size WR-90

| Description | Input Flange | Output Flange | Coupled Flange(s) |
|-------------|--------------|---------------|-------------------|
| Flange Type | CPR-90G | CPR-90G | CPR-90G |
| Material | Copper Alloy | Copper Alloy | Copper Alloy |

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

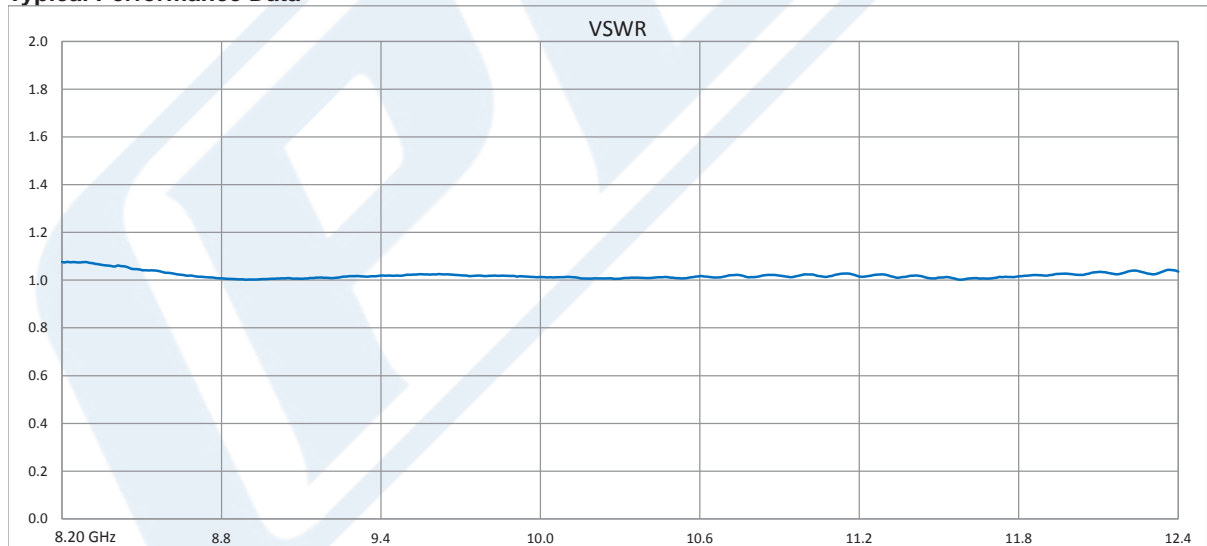
RoHS Compliant
REACH Compliant 12/17/2015

Plotted and Other Data

Notes:

- Values at 25 °C, sea level

Typical Performance Data



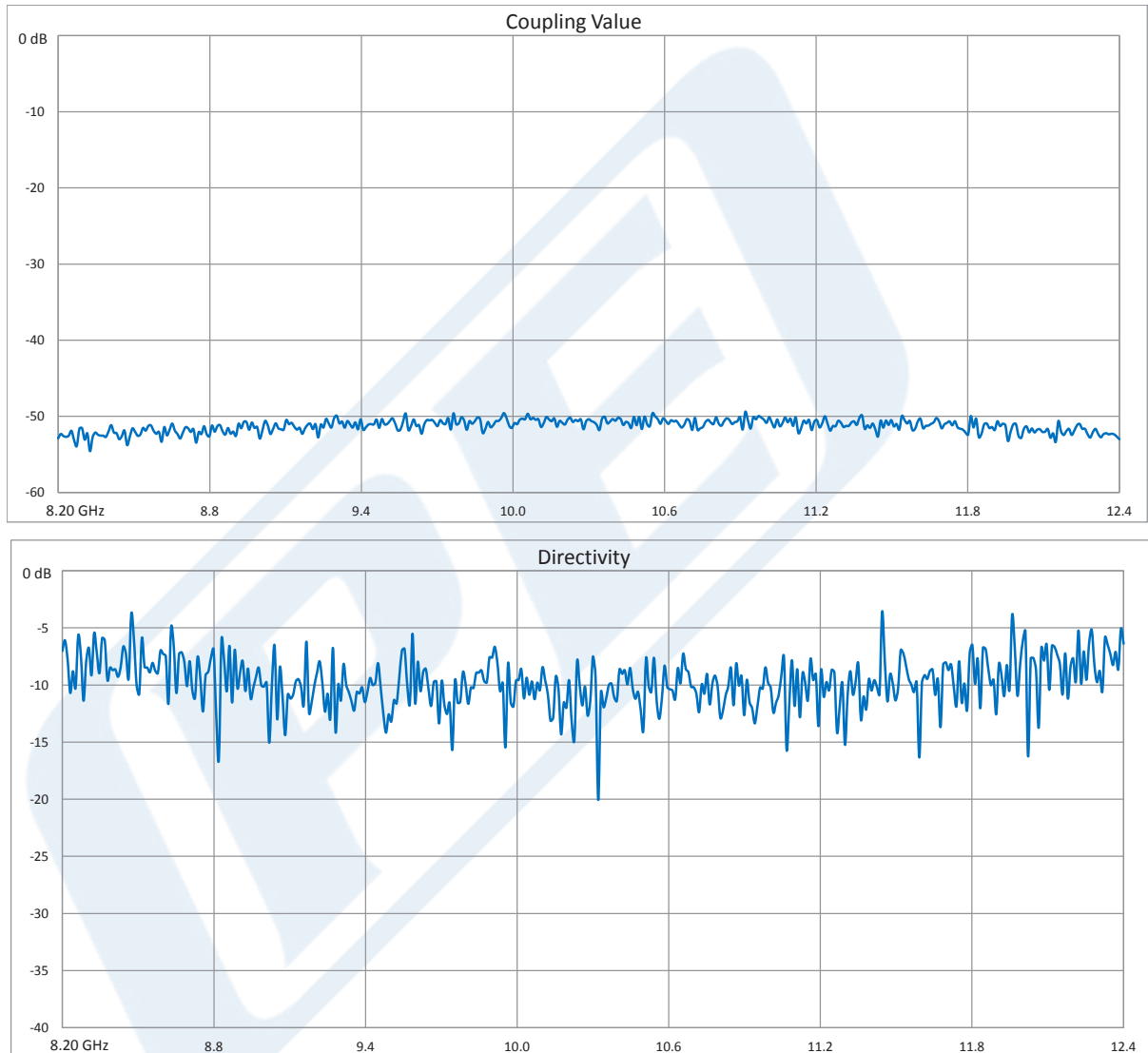
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-90 50 dB Waveguide Crossguide Coupler, CPR-90G Grooved Flange, 8.2 GHz to 12.4 GHz PEWCP1062](#)



WR-90 50 dB Waveguide Crossguide Coupler, CPR-90G Grooved Flange, 8.2 GHz to 12.4 GHz

TECHNICAL DATA SHEET

PEWCP1062



Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-90 50 dB Waveguide Crossguide Coupler, CPR-90G Grooved Flange, 8.2 GHz to 12.4 GHz PEWCP1062](#)



WR-90 50 dB Waveguide Crossguide Coupler, CPR-90G Grooved Flange, 8.2 GHz to 12.4 GHz

TECHNICAL DATA SHEET

PEWCP1062

WR-90 50 dB Waveguide Crossguide Coupler, CPR-90G Grooved Flange, 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-90 50 dB Waveguide Crossguide Coupler, CPR-90G Grooved Flange, 8.2 GHz to 12.4 GHz PEWCP1062](http://www.pasternack.com/wr90-50db-waveguide-coupler-cpr-90g-grooved-flange-8.2-ghz-to-12.4-ghz-pewcp1062)

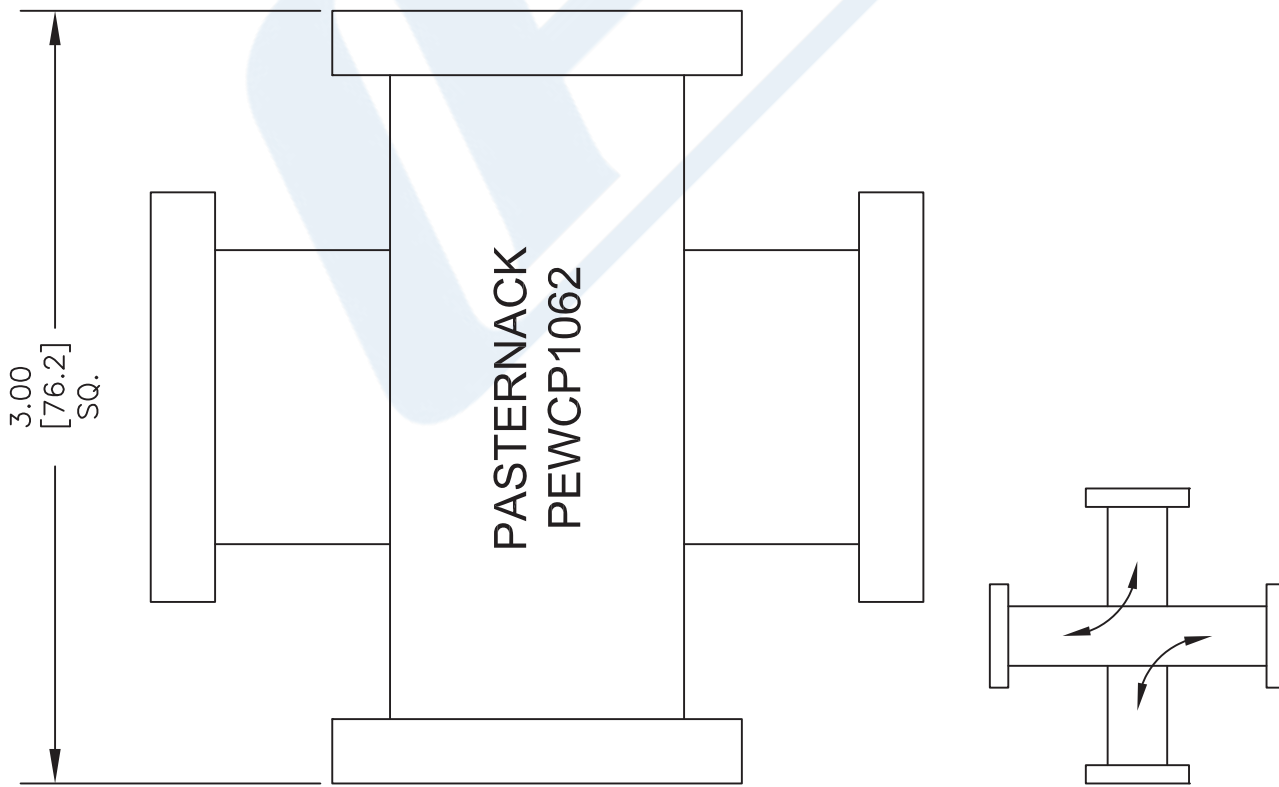
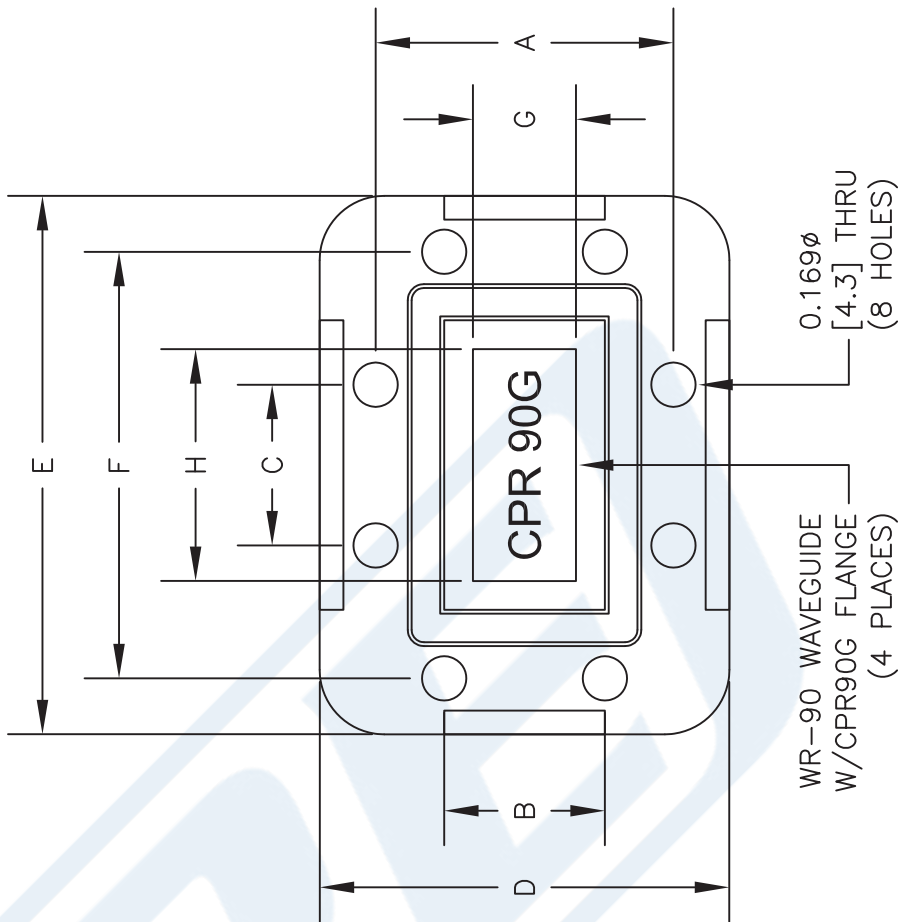
URL: <http://www.pasternack.com/wr90-50db-waveguide-coupler-cpr-90g-crossguide-pewcp1062-p.aspx>

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.

PEWCP1062 CAD Drawing

WR-90 50 dB Waveguide Crossguide Coupler, CPR-90G Grooved Flange, 8.2 GHz to 12.4 GHz

| CPR 90G | Dimension | Inches | mm |
|---------|-----------|--------|-------|
| A | | 1.156 | 29.36 |
| B | | 0.624 | 15.84 |
| C | | 0.624 | 15.84 |
| D | | 1.590 | 40.39 |
| E | | 2.090 | 53.09 |
| F | | 1.656 | 42.06 |
| G | | 0.400 | 10.16 |
| H | | 0.900 | 22.86 |



DWG TITLE

PEWCP1062

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].

FSCM NO. 53919

CAD FILE 050216

SCALE N/A

SIZE A

2233

(PE) PASTERNAK®
 THE ENGINEER'S RF SOURCE

Pasternack Enterprises, Inc.
 P.O. Box 16759 | Irvine | CA | 92623
 Phone: (949) 261-1920 | Fax: (949) 261-7451
 Website: www.pasternack.com | E-Mail: sales@pasternack.com