



WR-112 Waveguide 20 dB Crossguide Coupler, UG-51/U Square Cover Flange, 7.05 GHz to 10 GHz, Bronze

Waveguide Couplers Technical Data Sheet

PEWCP1063

The PEWCP1063 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 Bronze 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 standard UG-51/U square cover Brass 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
- Waveguide Body made of Bronze with Brass Flanges
- Low VSWR

Applications

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

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	7.05		10	GHz
Coupler				
Nominal Coupling Level		20		dB
Directivity		45		dB
Insertion Loss		0.1		dB
Main Line VSWR		1.05:1		

Mechanical Specifications

Size

Length	4 in [101.6 mm]
Width	4 in [101.6 mm]
Weight	1.81 lbs [821 g]

Interface

Waveguide Size	WR-112
Flange Type	Square Cover
Flange Designation	UG-51/U
Flange Material and Plating	Brass

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-112 Waveguide 20 dB Crossguide Coupler, UG-51/U Square Cover Flange, 7.05 GHz to 10 GHz, Bronze PEWCP1063](#)



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Coupler Body Material and Plating

Bronze

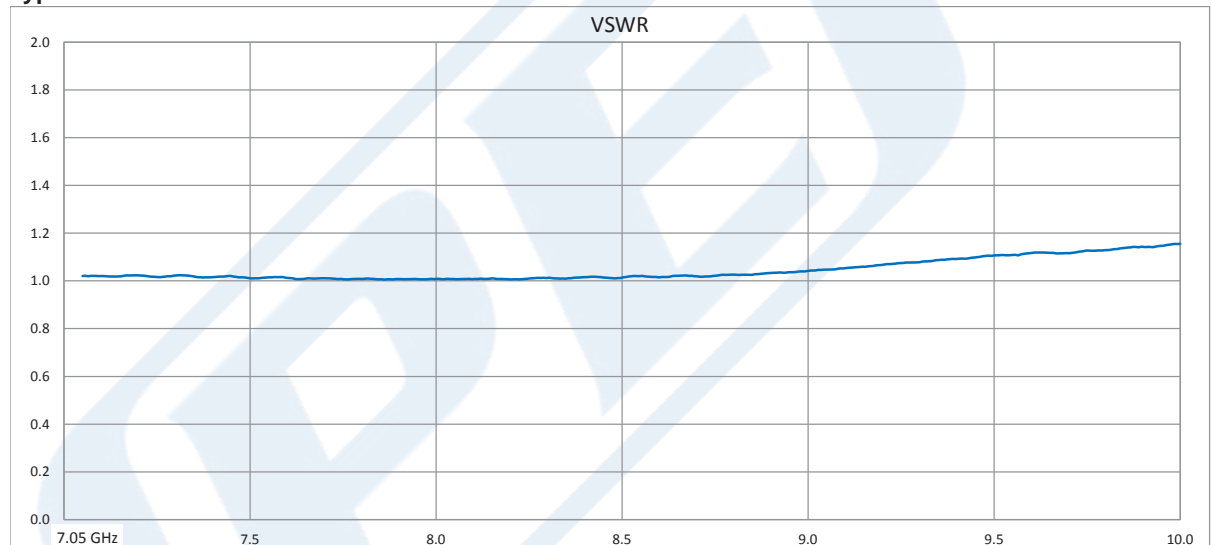
Environmental Specifications

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Typical Performance Data



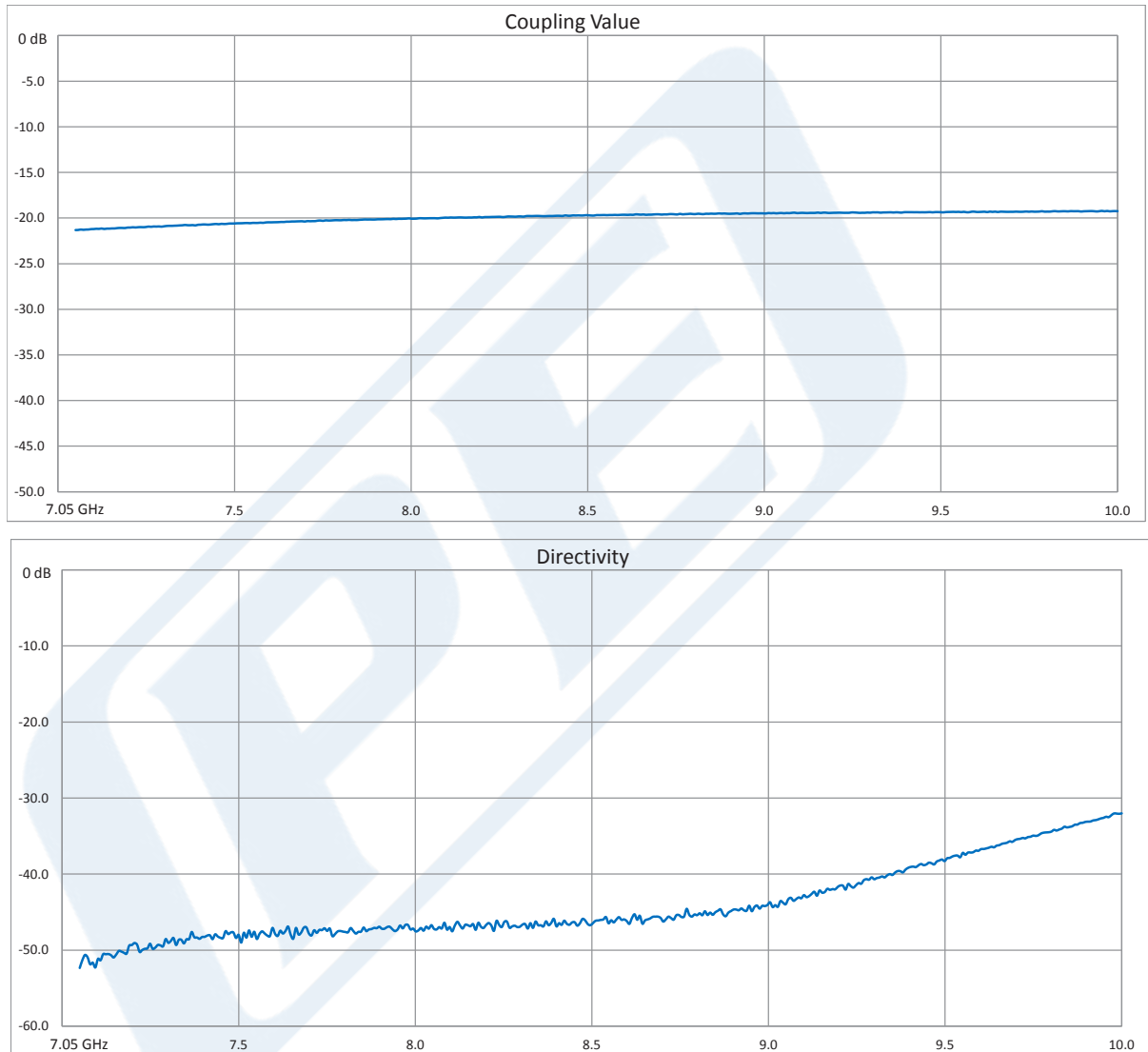
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WR-112 Waveguide 20 dB Crossguide Coupler, UG-51/U Square Cover Flange, 7.05 GHz to 10 GHz, Bronze from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

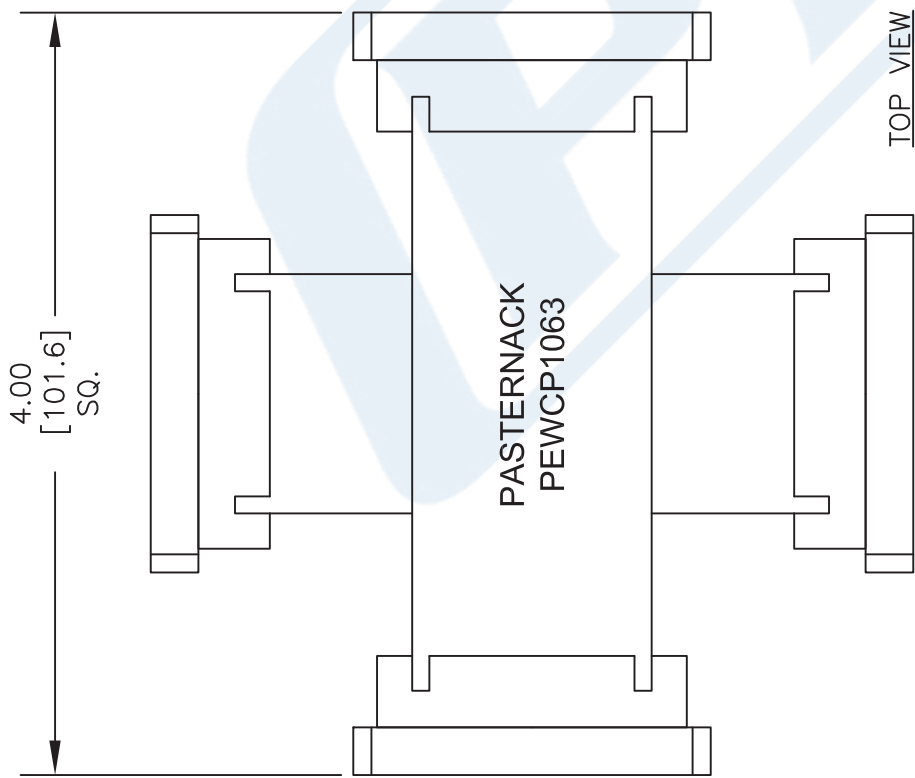
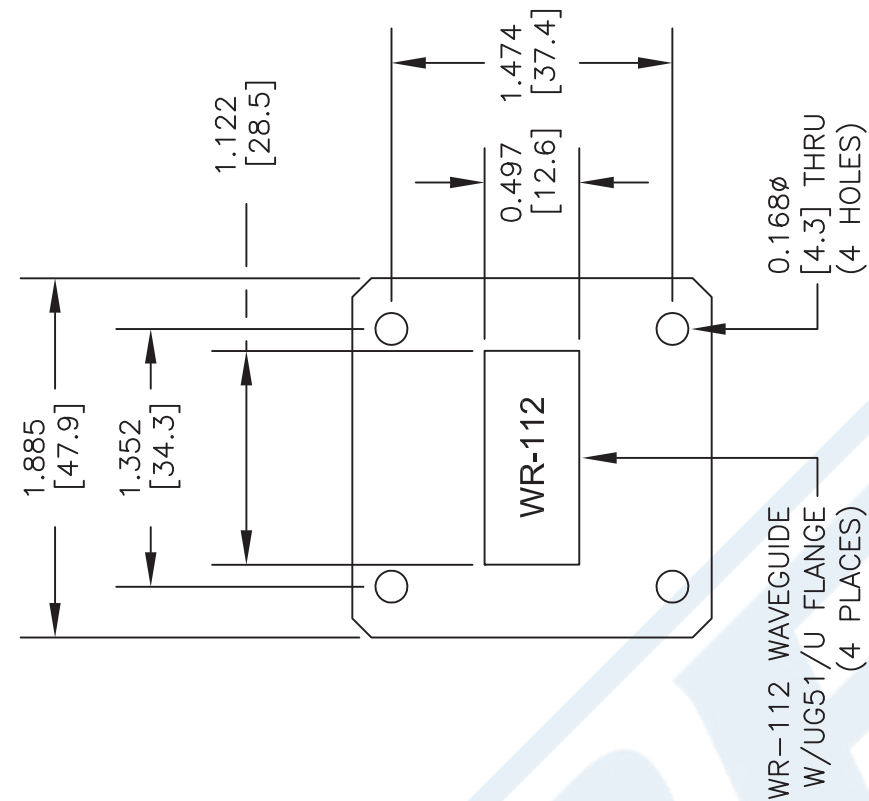
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements.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

PEWCP1063 CAD Drawing

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 Square Cover Flange, 7.05 GHz to 10 GHz, Bronze



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].

DWG TITLE
PEWCP1063

FSCM NO. 53919

CAD FILE 051116

SCALE N/A

SIZE A

2233

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