



WR-75 Waveguide 30 dB Crossguide Coupler, Square Cover Flange, 10 GHz to 15 GHz, Copper Alloy

Waveguide Couplers Technical Data Sheet

PEWCP1052A

The PEWCP1052A is a WR-75 crossguide waveguide coupler that operates in the frequency range of 10 to 15 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-75 waveguide coupler uses standard square cover 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
- 30 dB Nominal Coupling Level
- 10 GHz to 15 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

Description	Minimum	Typical	Maximum	Units
Frequency Range	10		15	GHz
Coupler				
Nominal Coupling Level		30		dB
Directivity		25		dB
Insertion Loss		0.1		dB
Main Line VSWR		1.05:1		

Mechanical Specifications

Size	
Length	2.75 in [69.85 mm]
Width	2.75 in [69.85 mm]
Weight	0.9125 lbs [413.9 g]
Interface	
Waveguide Size	WR-75
Flange Type	Square Cover
Flange Material and Plating	Copper Alloy
Coupler Body Material and Plating	Copper Alloy

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-75 Waveguide 30 dB Crossguide Coupler, Square Cover Flange, 10 GHz to 15 GHz, Copper Alloy PEWCP1052A](#)



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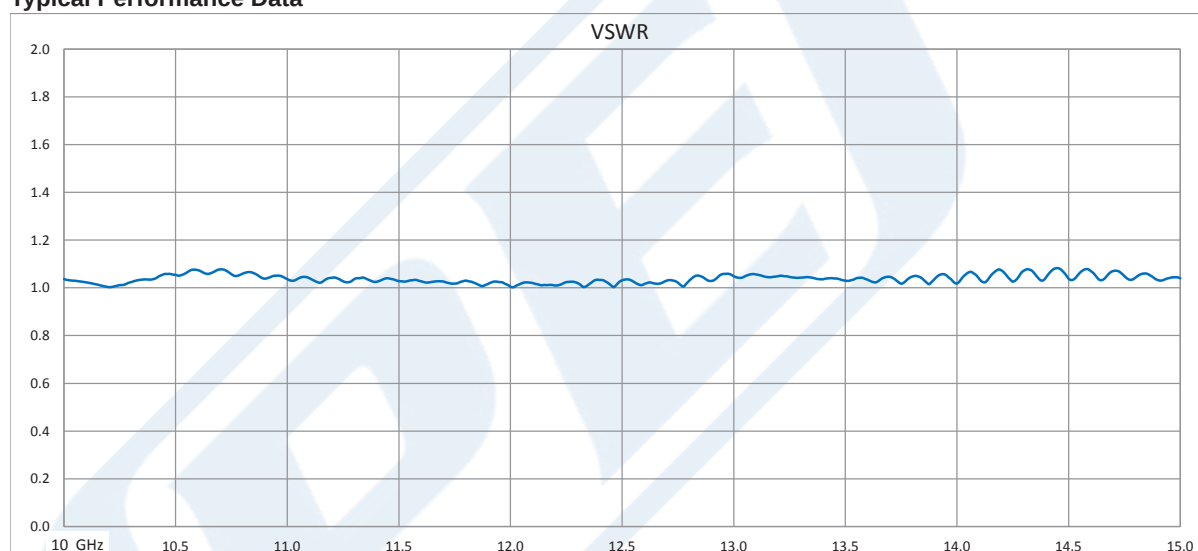
Environmental Specifications

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

Plotted and Other Data

Notes:

Typical Performance Data



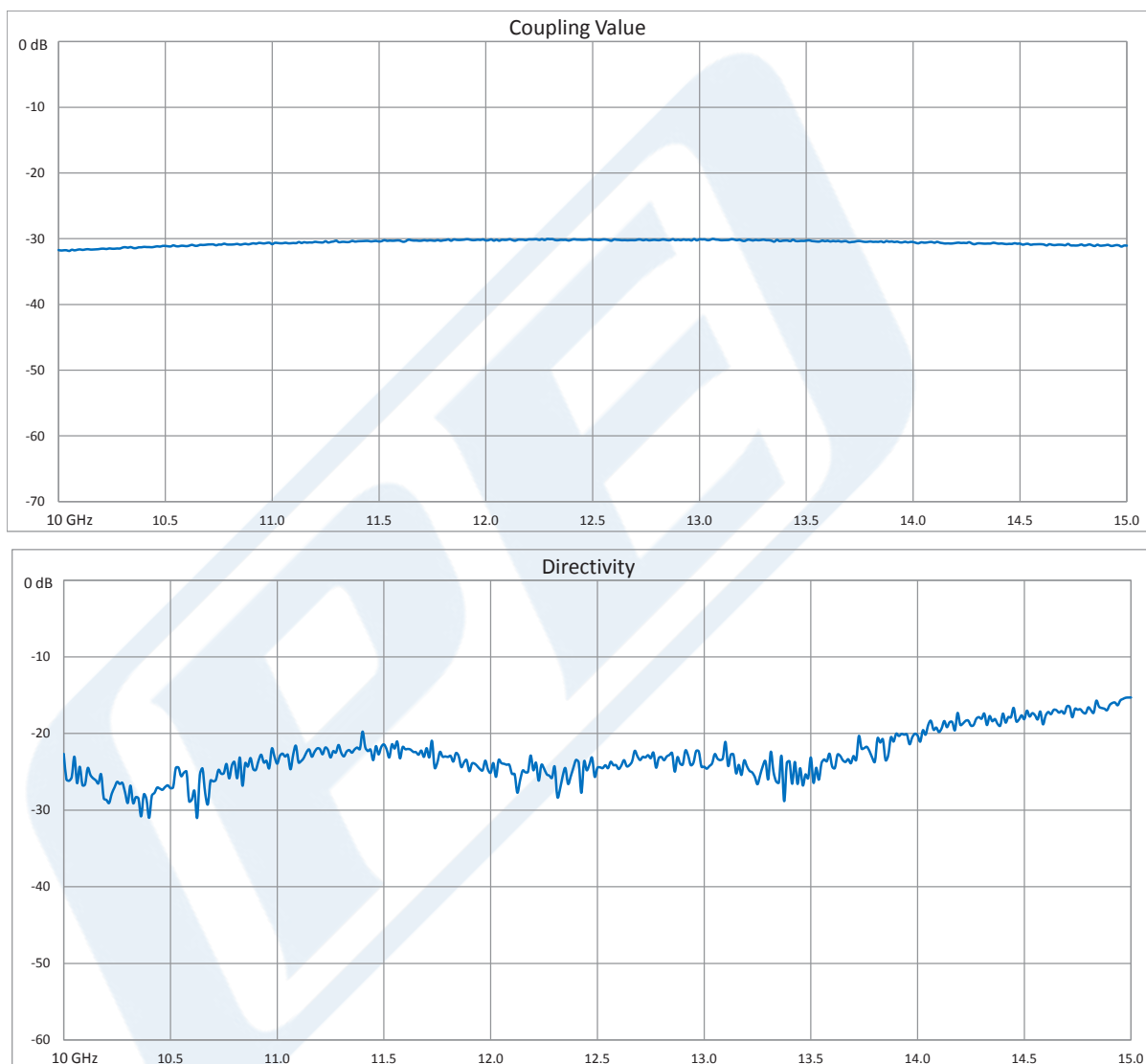
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WR-75 Waveguide 30 dB Crossguide Coupler, Square Cover Flange, 10 GHz to 15 GHz, Copper Alloy from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-75 Waveguide 30 dB Crossguide Coupler, Square Cover Flange, 10 GHz to 15 GHz, Copper Alloy PEWCP1052A](https://www.pasternack.com/wr75-30db-waveguide-coupler-square-crossguide-pewcp1052a-p.aspx)

URL: <https://www.pasternack.com/wr75-30db-waveguide-coupler-square-crossguide-pewcp1052a-p.aspx>

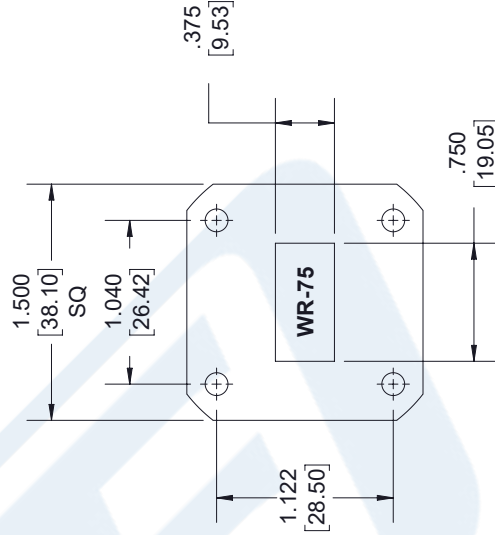
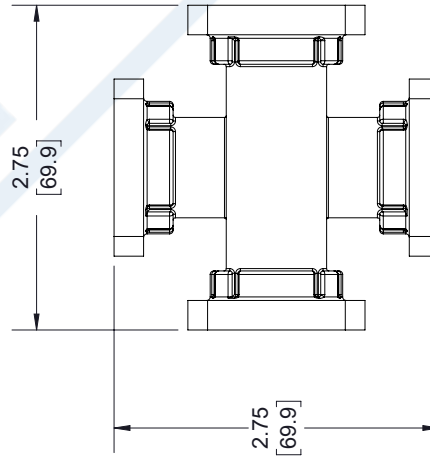
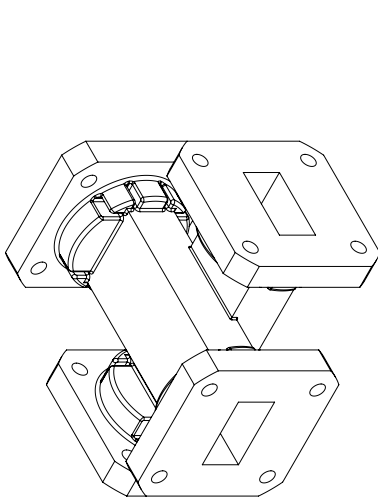
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PEWCP1052A CAD Drawing

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	09/16/19	S.PONG

WR-75 WAVEGUIDE
SQUARE COVER FLANGE
TYP



FLANGE DETAIL

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE IN INCHES DIMENSIONS IN [] ARE MILLIMETERS	
TOLERANCES:	FRACTIONS
X±.2 [5.08]	±.132
XX±.01 [.25]	±.13
XXX±.005 [.13]	ANGLES ± 1°
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	
THIRD-ANGLE PROJECTION	

LABEL

PASTERNAK
PEWCP1052A
D/C: YYWW

PE PASTERNAK an INFINITI® brand Pasternack Enterprises, Inc. P.O. Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920 1.866.727.8376 Fax: 1.949.261.7451 www.pasternack.com e-mail: sales@pasternack.com	
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SIZE [CAGE CODE] DRAWN BY A 53919 K.DANG	PART NUMBER PEWCP1052A

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