

WR-112 50 dB Waveguide Crossguide Coupler, UG-51/U Square Cover Flange, 7.05 GHz to 10 GHz

TECHNICAL DATA SHEET

The PEWCP1066 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 standard UG-51/U 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
- 50 dB Nominal Coupling Level
- 7.05 GHz to 10 GHz Frequency Range

Applications

- Test Benches
- Radar
- Satellite

- Microwave Radio
- Attenuation Measurements
- Power Measurements
- Source Leveling

Body and Flanges made of Copper Alloy

Low VSWR

Electrical Specifications (Values at 25°C, sea level)

Description	Minimum	Typical	Maximum	Units
Frequency Range	7.05		10	GHz
Directivity		10		dB
Insertion Loss		0.1		dB
Main Line VSWR		1.05:1		
Nominal Coupling Level		50		dB

Mechanical Specifications

Size	
Length	4 in [101.6 mm]
Width/Dia.	4 in [101.6 mm]
Weight	1.82 lbs [825.54 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 50 dB Waveguide Crossguide Coupler, UG-51/U Square Cover Flange, 7.05 GHz to 10 GHz PEWCP1066

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com





PEWCP1066



TECHNICAL DATA SHEET

Size

Configuration Design

Flange Type Flange Designation

RoHS Compliant REACH Compliant

Plotted and Other Data

· Values at 25 °C, sea level

Material

Notes:

Description

WR-112 50 dB Waveguide Crossguide Coupler, UG-51/U Square Cover Flange, 7.05 GHz to 10 GHz

Input Flange

Square Cover

UG-51/U

Copper Alloy

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

Typical Performance Data



Crossguide WR-112

Output Flange

Square Cover

UG-51/U

Copper Alloy

12/17/2015

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-112 50 dB Waveguide Crossguide Coupler, UG-51/U Square Cover Flange, 7.05 GHz to 10 GHz PEWCP1066

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com



Coupled Flange(s)

Square Cover

UG-51/U

Copper Alloy







WR-112 50 dB Waveguide Crossguide Coupler, UG-51/U Square Cover Flange, 7.05 GHz to 10 GHz

TECHNICAL DATA SHEET

Coupling Value 0 dB -10 -20 -30 -40 -50 -60 7.05 GHz 7.5 8.0 8.5 9.0 9.5 10.0 Directivity 0 dB MMMMh Mmmmm -10 -20 -30 -40 -50 -60 7.05 GHz 7.5 8.0 8.5 9.5 10.0 9.0

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-112 50 dB Waveguide Crossguide Coupler, UG-51/U Square Cover Flange, 7.05 GHz to 10 GHz PEWCP1066

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com

PEWCP1066



WR-112 50 dB Waveguide Crossguide Coupler, UG-51/U Square Cover Flange, 7.05 GHz to 10 GHz



PEWCP1066

TECHNICAL DATA SHEET

WR-112 50 dB Waveguide Crossguide Coupler, UG-51/U Square Cover Flange, 7.05 GHz to 10 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-112 50 dB Waveguide Crossguide Coupler, UG-51/U Square Cover Flange, 7.05 GHz to 10 GHz PEWCP1066

URL: http://www.pasternack.com/wr112-50db-waveguide-coupler-ug51-square-crossguide-pewcp1066-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.

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com

PEWCP1066 CAD Drawing WR-112 50 dB Waveguide Crossguide Coupler, UG-51/U Square Cover Flange, 7.05 GHz to 10 GHz

