



WR-112 Waveguide 50 dB Broadwall Coupler, UG Cover Flange, SMA Female Coupled Port, 6.57 GHz to 9.99 GHz, Copper

Waveguide Couplers Technical Data Sheet

PEW112CP002-50

The PEW112CP002-50 is a WR-112 Directional Broadwall waveguide coupler with SMA female coupled port that operates in the frequency range of 6.57 to 9.99 GHz. This Waveguide component has a maximum VSWR of 1.25:1. These designs are made of painted copper alloy and incorporate a broad wall configuration that result in a mid-band nominal coupling value of 10, 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. Pasternack offers a complete family of waveguide Crossguide and Broadwall couplers that are in-stock and ship same day.

Features

- Three Port Broadwall Waveguide Coupler
- 50±0.7 dB Nominal Coupling Level
- Integrated SMA Female Connector coupled port
- 6.57 GHz to 9.99 GHz Frequency Range
- Main Line VSWR < 1.1:1
- Max Power 400W (CW)

Applications

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

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	6.57		9.99	GHz
Coupler				
Nominal Coupling Level		50		dB
Directivity	20			dB
Insertion Loss			0.1	dB
Main Line VSWR			1.1:1	
Secondary Line VSWR			1.25:1	
Coupling Flatness			±0.7	dB
Input Power (CW)			400	Watts
Input Power, Peak			300	kWatts

Mechanical Specifications

Size

Length	11.02 in [279.91 mm]
Width	1.88 in [47.75 mm]
Height	1.88 in [47.75 mm]
Weight	1.565 lbs [709.87 g]
Flange Type	UG Cover

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 50 dB Broadwall Coupler, UG Cover Flange, SMA Female Coupled Port, 6.57 GHz to 9.99 GHz, Copper PEW112CP002-50](#)



WR-112 Waveguide 50 dB Broadwall Coupler, UG Cover Flange,
SMA Female Coupled Port, 6.57 GHz to 9.99 GHz, Copper

Waveguide Couplers Technical Data Sheet

PEW112CP002-50

Flange Material and Plating
RF Connector Type

Copper, Passivated
SMA Female

Coupler Body Material and Plating

Copper, Passivated

Environmental Specifications

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

Plotted and Other Data

Notes:

WR-112 Waveguide 50 dB Broadwall Coupler, UG Cover Flange, SMA Female Coupled Port, 6.57 GHz to 9.99 GHz, Copper 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-112 Waveguide 50 dB Broadwall Coupler, UG Cover Flange, SMA Female Coupled Port, 6.57 GHz to 9.99 GHz, Copper PEW112CP002-50](#)

URL: <https://www.pasternack.com/wr112-waveguide-50db-broadwall-coupler-ug-9.99mhz-pew112cp002-50-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.

PEW112CP002-50 CAD Drawing

WR-112 Waveguide 50 dB Broadwall Coupler, UG Cover Flange,
SMA Female Coupled Port, 6.57 GHz to 9.99 GHz, Copper

