

WR-42 Waveguide 30 dB Broadwall Coupler, UG Cover Flange, 2.92mm Female Coupled Port, 17.6 GHz to 26.7 GHz, Copper

Waveguide Couplers Technical Data Sheet

The PEW42CP005-30 is a WR-42 Directional Broadwall waveguide coupler with 2.92mm female coupled port that operates in the frequency range of 17.6 to 26.7 GHz. This Waveguide component has a maximum VSWR of 1.5:1. 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
- 30±0.7 dB Nominal Coupling Level
- Integrated 2.92mm Female Connector coupled port

Applications

- Test Benches
 - Radar
 - Satellite

- Microwave Radio
- Attenuation Measurements
- Power Measurements
- 17.6 GHz to 26.7 GHz Frequency Range
 Main Line VSWR < 1.1:1
- Max Power 150W (CW)
 - Source Leveling

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	17.6		26.7	GHz
Coupler				
Nominal Coupling Level		30		dB
Directivity	30			dB
Insertion Loss			0.2	dB
Main Line VSWR			1.1:1	
Secondary Line VSWR			1.5:1	
Coupling Flatness			±0.7	dB
Input Power (CW)			150	Watts
Input Power, Peak			50	kWatts

Mechanical Specifications

Size	
Length	7.28 in [184.91 mm]
Width	0.88 in [22.35 mm]
Height	0.88 in [22.35 mm]
Weight Flange Type	0.28 lbs [127.01 g] 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-42 Waveguide 30 dB Broadwall Coupler, UG Cover Flange, 2.92mm Female Coupled Port, 17.6 GHz to 26.7 GHz, Copper PEW42CP005-30

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

1



PEW42CP005-30



WR-42 Waveguide 30 dB Broadwall Coupler, UG Cover Flange, 2.92mm Female Coupled Port, 17.6 GHz to 26.7 GHz, Copper

Waveguide Couplers Technical Data Sheet

Flange Material and Plating RF Connector Type

Coupler Body Material and Plating

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

WR-42 Waveguide 30 dB Broadwall Coupler, UG Cover Flange, 2.92mm Female Coupled Port, 17.6 GHz to 26.7 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.

Copper, Gold

Copper, Gold

2.92mm Female

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-42 Waveguide 30 dB Broadwall Coupler, UG Cover Flange, 2.92mm Female Coupled Port, 17.6 GHz to 26.7 GHz, Copper PEW42CP005-30

URL: https://www.pasternack.com/wr42-waveguide-30db-broadwall-coupler-ug-26.7mhz-pew42cp005-30-p.aspx

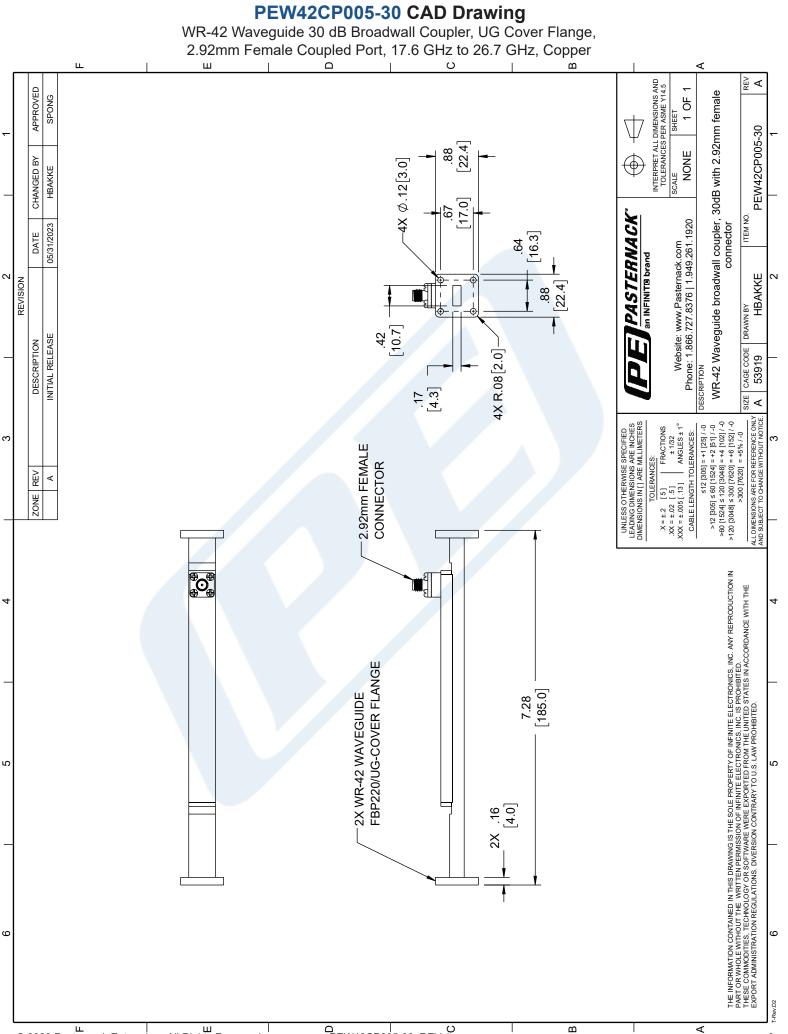
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such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

© 2020 Pasternack Enterprises All Rights Reserved







3