

WR-28 Waveguide 20 dB Broadwall Coupler, UG Grooved Flange,
2.92mm Female Coupled Port, 26.5 GHz to 40 GHz, Copper



Waveguide Couplers Technical Data Sheet

PEW28CP005-20

The PEW28CP005-20 is a WR-28 Directional Broadwall waveguide coupler with 2.92mm female coupled port that operates in the frequency range of 26.5 to 40 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
- 20 ± 0.7 dB Nominal Coupling Level
- Integrated 2.92mm Female Connector coupled port
- 26.5 GHz to 40 GHz Frequency Range
- Main Line VSWR < 1.1:1
- Max Power 100W (CW)

Applications

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

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	26.5		40	GHz
Coupler				
Nominal Coupling Level		20		dB
Directivity	30			dB
Insertion Loss		0.35		dB
Main Line VSWR		1.1:1		
Secondary Line VSWR		1.5:1		
Coupling Flatness		± 0.7		dB
Input Power (CW)		100		Watts
Input Power, Peak		10		kWatts

Mechanical Specifications

Size

Length	6.57 in [166.88 mm]
Width	0.75 in [19.05 mm]
Height	0.75 in [19.05 mm]
Weight	0.605 lbs [274.42 g]
Flange Type	UG Grooved

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-28 Waveguide 20 dB Broadwall Coupler, UG Grooved Flange, 2.92mm Female Coupled Port, 26.5 GHz to 40 GHz, Copper PEW28CP005-20](#)

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Flange Material and Plating	Copper, Gold
RF Connector Type	2.92mm Female
Coupler Body Material and Plating	Copper, Gold

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

WR-28 Waveguide 20 dB Broadwall Coupler, UG Grooved Flange, 2.92mm Female Coupled Port, 26.5 GHz to 40 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.

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URL: <https://www.pasternack.com/wr28-waveguide-20db-broadwall-coupler-ug-40mhz-pew28cp005-20-p.aspx>

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PEW28CP005-20 CAD Drawing

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