

WR-42 Waveguide 10 dB Broadwall Coupler, UG-595/U Square Cover Flange, E-Plane Coupled Port, 18 GHz to 26.5 GHz, Brass Copper



Waveguide Couplers Technical Data Sheet

PE-W42CP004-10

The PE-W42CP004-10 is a millimeter-wave directional waveguide coupler that operates in the frequency range of 18 to 26.5 GHz (K Band). This K band component offers a nominal coupling level of 10 dB, mean coupling accuracy of +/- .8, coupling flatness of 1 dB, and has a maximum VSWR level of 1.2:1. The design is made of gold brass copper and incorporates a multi-hole configuration that results in typical directivity of 30 dB. Common applications for this millimeter wave component involve test setups where power reflection measurements are required that might involve power sampling and frequency monitoring with minimal signal loss to the main transmission path. This E plane coupler uses integrated WR-42 waveguide ports with UG 595/U flanges. Pasternack offers a complete family of waveguide millimeter wave directional couplers that are in-stock for same day shipment.

Features

- 10 dB Nominal Coupling Level
- E-Plane Waveguide Coupler
- 18 GHz to 26.5 GHz Frequency Range

- Body and Flanges made of Brass Copper
- Gold Waveguide
- 1.2:1 VSWR

Applications

- Test Benches
- Radar
- Satellite

- Microwave Radio
- Attenuation Measurements
- Power Measurements

Source Leveling

Electrical Specifications

Minimum	Typical	Maximum	Units
18		26.5	GHz
	10	-	dB
		±0.8	dB
	30		dB
		1	dB
		1.2:1	
		1.2:1	
		±1	dB
		18	18 26.5 10 ±0.8 30 1 1.2:1 1.2:1

Mechanical Specifications

Size

 Length
 11 in [279.4 mm]

 Width
 0.88 in [22.35 mm]

 Height
 1.94 in [49.28 mm]

 Weight
 0.459 lbs [208.2 g]

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 10 dB Broadwall Coupler, UG-595/U Square Cover Flange, E-Plane Coupled Port, 18 GHz to 26.5 GHz, Brass Copper PE-W42CP004-10

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Interface

Waveguide Size Flange Type Flange Designation Flange Material and Plating

Coupler Body Material and Plating

WR-42 Square Cover UG-595/U Brass Copper, Gold

Brass Copper, Gold

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

WR-42 Waveguide 10 dB Broadwall Coupler, UG-595/U Square Cover Flange, E-Plane Coupled Port, 18 GHz to 26.5 GHz, Brass 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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PE-W42CP004-10 CAD Drawing

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