

## 10 dB WR-28 Waveguide Broadwall Coupler with UG-599/U Square Cover Flange and H-Plane Coupled Port from 26.5 GHz to 40 GHz in Brass Copper



### FMW28CP011-10

#### Features

- 10 dB Nominal Coupling Level
- H-Plane Waveguide Coupler
- 26.5 GHz to 40 GHz Frequency Range
- Body and Flanges made of Brass/Copper and Plated Gold
- 1.1:1 VSWR Max

#### Applications

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

#### Description

The FMW28CP011-10 is a millimeter-wave directional waveguide coupler that operates in the frequency range of 26.5 GHz to 40 GHz (H Band). This H Band component offers a nominal coupling level of 10 dB, mean coupling accuracy of +/- 1.5, coupling flatness of 1.5 dB, and has a maximum VSWR level of 1.1:1. The design is made of brass/copper and plated gold and incorporates a multi-hole configuration that results in minimum directivity of 35 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 H plane coupler uses integrated WR-10 waveguide ports with UG-599/U flanges. Pasternack offers a complete family of waveguide millimeter wave directional couplers that are in-stock for same day shipment.

#### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	26.5		40	GHz
<b>Coupler</b>				
Nominal Coupling Level		10		dB
Coupling Accuracy		±1.5		dB
Directivity	35			dB
Insertion Loss			0.8	dB
Main Line VSWR			1.1:1	
Secondary Line VSWR			1.25:1	
Coupling Flatness		1.5		dB
Input Power (CW)			100	Watts
Input Power, Peak			5	kWatts

#### Mechanical Specifications

##### Size

Length	5.91 in [150.11 mm]
Width	0.75 in [19.05 mm]
Height	0.75 in [19.05 mm]
Weight	1.75 lbs [793.79 g]

##### Interface

Waveguide Size	WR-28
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### FMW28CP011-10

Flange Type	Square Cover
Flange Designation	UG-599/U
Flange Material and Plating	Brass Copper, Gold
Coupler Body Material and Plating	Brass Copper, Gold

### Environmental Specifications

<b>Temperature</b>	
Operating Range	-40 to +70 deg C
Storage Range	-55 to +85 deg C

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

### Plotted and Other Data

Notes:

10 dB WR-28 Waveguide Broadwall Coupler with UG-599/U Square Cover Flange and H-Plane Coupled Port from 26.5 GHz to 40 GHz in Brass Copper from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [10 dB WR-28 Waveguide Broadwall Coupler with UG-599/U Square Cover Flange and H-Plane Coupled Port from 26.5 GHz to 40 GHz in Brass Copper FMW28CP011-10](#)

URL: <https://www.fairviewmicrowave.com/10db-wr28-waveguide-broadwall-coupler-ug599-square-h-40ghz-fmw28cp011-10-p.aspx>

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