

30 dB WR-10 Waveguide Broadwall Coupler with UG-387/U-Mod Round Cover Flange and H-Plane Coupled Port from 90 GHz to 110 GHz in Brass Copper

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# FMW10CP011-30

## **Features**

- · 30 dB Nominal Coupling Level
- · H-Plane Waveguide Coupler
- · 90 GHz to 110 GHz Frequency Range

## **Applications**

- Test Benches
- Radar
- Satellite
- · Microwave Radio

- Body and Flanges made of Brass/Copper and Plated Gold
- 1.15:1 VSWR Max
- · Attenuation Measurements
- · Power Measurements
- · Source Leveling

## **Description**

The FMW10CP011-30 is a millimeter-wave directional waveguide coupler that operates in the frequency range of 90 GHz to 110 GHz (H Band). This H Band component offers a nominal coupling level of 30 dB, mean coupling accuracy of +/- 1.5, coupling flatness of 1.5 dB, and has a maximum VSWR level of 1.15:1. The design is made of brass/copper and plated gold and incorporates a multi-hole configuration that results in minimum directivity of 25 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-387/U-M flanges. Pasternack offers a complete family of waveguide millimeter wave directional couplers that are in-stock for same day shipment.

## **Electrical Specifications**

Description	Min	Тур	Max	Units
Frequency Range	90		110	GHz
Coupler				
Nominal Coupling Level		30		dB
Coupling Accuracy		±1.5		dB
Directivity	25			dB
Insertion Loss			0.8	dB
Main Line VSWR			1.15:1	
Secondary Line VSWR			1.25:1	
Coupling Flatness		1.5		dB
Input Power (CW)			10	Watts
Input Power, Peak			1	kWatts

## **Mechanical Specifications**

Size

 Size

 Length
 2.17 in [55.12 mm]

 Width
 0.83 in [21.08 mm]

 Height
 0.85 in [21.59 mm]

 Weight
 0.25 lbs [113.4 g]

Interface

Waveguide Size WR-10



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# FMW10CP011-30

Flange Type Round Cover
Flange Designation UG-387/U-M
Flange Material and Plating Brass Copper, Gold
Coupler Body Material and Plating Brass Copper, Gold

## **Environmental Specifications**

**Temperature** 

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:

30 dB WR-10 Waveguide Broadwall Coupler with UG-387/U-Mod Round Cover Flange and H-Plane Coupled Port from 90 GHz to 110 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: 30 dB WR-10 Waveguide Broadwall Coupler with UG-387/U-Mod Round Cover Flange and H-Plane Coupled Port from 90 GHz to 110 GHz in Brass Copper FMW10CP011-30

URL: https://www.fairviewmicrowave.com/30db-wr10-waveguide-broadwall-coupler-ug387m-round-h-110ghz-fm-w10cp011-30-p.aspx

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# FMW10CP011-30 CAD Drawing

30 dB WR-10 Waveguide Broadwall Coupler with UG-387/U-Mod Round Cover Flange and H-Plane Coupled Port from 90 GHz to 110 GHz in Brass Copper

