

20 dB WR-15 Waveguide Broadwall Coupler with UG-385/U Round Cover Flange and H-Plane Coupled Port from 50 GHz to 75 GHz in Brass Copper

FMW15CP011-20

Features

- · 20 dB Nominal Coupling Level
- · H-Plane Waveguide Coupler
- · 50 GHz to 75 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 FMW15CP011-20 is a millimeter-wave directional waveguide coupler that operates in the frequency range of 50 GHz to 75 GHz (H Band). This H Band component offers a nominal coupling level of 20 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 20 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-385/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	Тур	Max	Units
Frequency Range	50		75	GHz
Coupler				
Nominal Coupling Level		20		dB
Coupling Accuracy		±1.5		dB
Directivity	20			dB
Insertion Loss			0.6	dB
Main Line VSWR			1.15:1	
Secondary Line VSWR			1.25:1	
Coupling Flatness		1.5		dB
Input Power (CW)			20	Watts
Input Power, Peak			1	kWatts

Mechanical Specifications

Size

 Length
 3.39 in [86.11 mm]

 Width
 0.79 in [20.07 mm]

 Height
 0.87 in [22.1 mm]

 Weight
 0.36 lbs [163.29 g]

Interface

Waveguide Size WR-15



20 dB WR-15 Waveguide Broadwall Coupler with UG-385/U Round Cover Flange and H-Plane Coupled Port from 50 GHz to 75 GHz in Brass Copper

FMW15CP011-20

Flange Type Round Cover
Flange Designation UG-385/U
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:

20 dB WR-15 Waveguide Broadwall Coupler with UG-385/U Round Cover Flange and H-Plane Coupled Port from 50 GHz to 75 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: 20 dB WR-15 Waveguide Broadwall Coupler with UG-385/U Round Cover Flange and H-Plane Coupled Port from 50 GHz to 75 GHz in Brass Copper FMW15CP011-20

URL: https://www.fairviewmicrowave.com/20db-wr15-waveguide-broadwall-coupler-ug385-round-h-75ghz-fmw15cp011-20-p.aspx

The information contained within 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 impliment improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume liability arising out of the use of any part or document.

FMW15CP011-20 CAD Drawing

20 dB WR-15 Waveguide Broadwall Coupler with UG-385/U Round Cover Flange and H-Plane Coupled Port from 50 GHz to 75 GHz in Brass Copper

