

20 dB WR-22 Waveguide Broadwall Coupler with UG-383/U Round Cover Flange and E-Plane Coupled Port from 33 GHz to 50 GHz in Brass Copper

The FMW22CP010-20 is a millimeter-wave directional waveguide coupler that operates in the frequency range of 33 to 50 GHz (Q Band). This Q band component offers a nominal coupling level of 20 dB, mean coupling accuracy of ±1, coupling flatness of 1.2 dB, and has a maximum VSWR level of 1.2:1. The design is made of gold plated 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 lost to the main transmission path. This E plane coupler uses integrated WR-22 waveguide ports with UG 383/U flanges. Fairview offers a complete familiy of waveguide millimeter wave directional couplers that are in-stock for same day shipment.

Electrical Specifications

Description	Min	Тур	Max	Units
Frequency Range	33		50	GHz
Coupler				
Nominal Coupling Lev	el	20		dB
Coupling Accuracy			±1	dB
Directivity		30		dB
Insertion Loss			0.8	dB
Main Line VSWR			1.1:1	
Secondary Line VSWR			1.3:1	
Coupling Flatness			±1.2	dB

Mechanical Specifications

Size Length Width Height Weight		6.7 in [170.18 mm] 1.125 in [28.58 mm] 1.8 in [45.72 mm] 0.22 lbs [99.79 g]
Interface Waveguide Size Flange Type Flange Designation Flange Material and Plating Coupler Body Material and Plating		WR-22 Round Cover UG-383/U Brass Copper, Gold Brass Copper, Gold

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



FMW22CP010-20

DATA SHEET

Features:

- 20 dB Nominal Coupling Level
- E-Plane Waveguide Coupler
 33 GHz to 50 GHz
 Frequency Range
- Body and Flanges made of Brass Copper
- Gold Plated Waveguide
- 1.2:1 VSWR

Applications:

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

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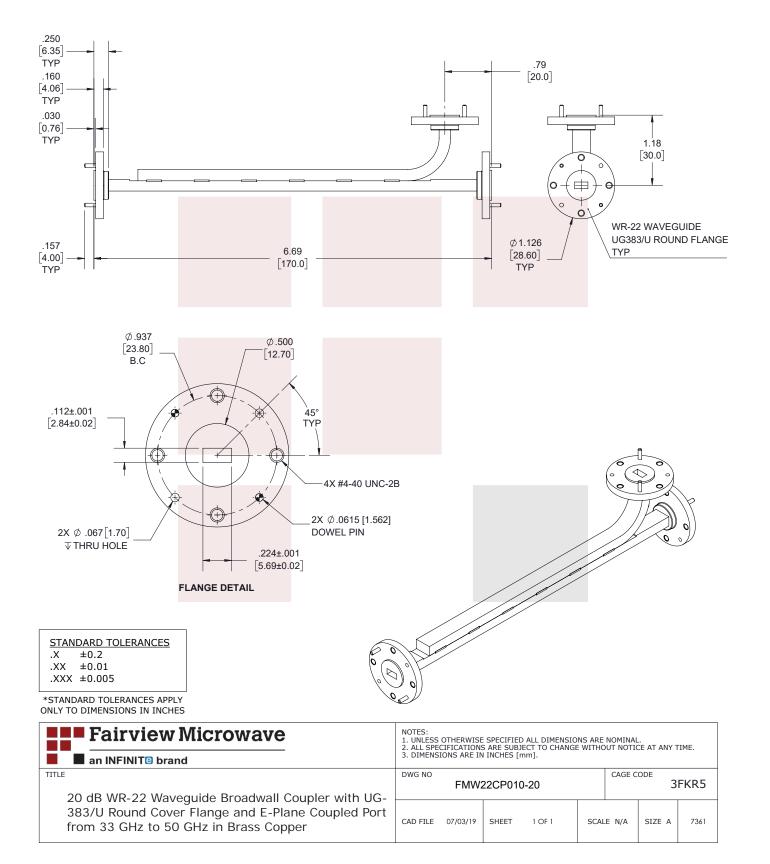
For additional information on this product, please click the following link: 20 dB WR-22 Waveguide Broadwall Coupler with UG-383/U Round Cover Flange and E-Plane Coupled Port from 33 GHz to 50 GHz in Brass Copper FMW22CP010-20

URL: https://www.fairviewmicrowave.com/20db-wr22-waveguide-broadwall-coupler-ug383-round-e-50ghz-fmw22cp010-20-p.aspx

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