

## 30 dB WR-22 Waveguide Broadwall Coupler with UG-383/U Flange and 33 GHz to 50 GHz in Brass

### FMW22CP006-30



#### Features

- Three Port broadwall Waveguide Coupler
- 30±1 dB Nominal Coupling Level
- 33 GHz to 50 GHz Frequency Range
- Low VSWR < 1.15:1

#### Applications

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

#### Description

The FMW22CP006-30 is a 30 dB WR-22 three port broadwall coupler. This coupler can be mounted directly into the waveguide signal path, connected via coax to allow signal sampling /monitoring. The coupler has a typical VSWR of 1.15:1 and are made of Brass with UG-383/U flanges. The FMW22CP006-30 is part of a family of cross guide couplers offered by Fairview Microwave with coupling values ranging from 20 to 50 dB.

#### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	33		50	GHz
<b>Coupler</b>				
Nominal Coupling Level		30		dB
Coupling Accuracy		±1		dB
Directivity	30			dB
Insertion Loss			0.4	dB
Main Line VSWR			1.15:1	
Secondary Line VSWR			1.25:1	
Input Power (CW)			150	Watts
Input Power, Peak			10	kWatts

#### Mechanical Specifications

##### Size

Length	4.57 in [116.08 mm]
Width	1.74 in [44.2 mm]
Height	1.13 in [28.7 mm]
Weight	1 lbs [453.59 g]

##### Interface

Waveguide Size	WR-22
Flange Type	UG-383/U
Flange Material and Plating	Brass Copper, Gold
Coupler Body Material and Plating	Brass Copper, Gold

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#### 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-22 Waveguide Broadwall Coupler with UG-383/U Flange and 33 GHz to 50 GHz in Brass 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-22 Waveguide Broadwall Coupler with UG-383/U Flange and 33 GHz to 50 GHz in Brass FMW22CP006-30](#)

URL: <https://www.fairviewmicrowave.com/30db-wr22-waveguide-broadwall-coupler-ug-383-u-50ghz-fmw22cp006-30-p.aspx>

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FMW22CP006-30 CAD Drawing

30 dB WR-22 Waveguide Broadwall Coupler with UG-383/U Flange and 33 GHz to 50 GHz in Brass

