

40dB WR-112 Waveguide Broadwall Coupler with UG-51/U Flange and 6.57 GHz to 9.99 GHz in Brass

FMW112CP003-40



Features

- Three Port broadwall Waveguide Coupler
- 40±0.7 dB Nominal Coupling Level
- 6.57 GHz to 9.99 GHz Frequency Range
- Low VSWR < 1.15:1

Applications

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

Description

The FMW112CP003-40 is a 40 dB WR-112 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 1.1:1 and are made of Brass with UG-51/U flanges. The FMW112CP003-40 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	6.57		9.99	GHz
Coupler				
Nominal Coupling Level		40		dB
Coupling Accuracy		±0.7		dB
Directivity	25			dB
Insertion Loss			0.1	dB
Main Line VSWR			1.1:1	
Secondary Line VSWR			1.15:1	
Input Power (CW)			800	Watts
Input Power, Peak			300	kWatts

Mechanical Specifications

Size

Length	11.81 in [299.97 mm]
Width	3.3 in [83.82 mm]
Height	1.88 in [47.75 mm]
Weight	1 lbs [453.59 g]

Interface

Waveguide Size	WR-112
Flange Type	UG-51/U
Flange Material and Plating	Brass Copper, Passivated Stainless Steel
Coupler Body Material and Plating	Brass Copper, Passivated Stainless Steel
Coupler Body Plating Specification	Anticorrosion grey paint

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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:

40dB WR-112 Waveguide Broadwall Coupler with UG-51/U Flange and 6.57 GHz to 9.99 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: [40dB WR-112 Waveguide Broadwall Coupler with UG-51/U Flange and 6.57 GHz to 9.99 GHz in Brass FMW112CP003-40](#)

URL: <https://www.fairviewmicrowave.com/40db-wr112-waveguide-broadwall-coupler-ug-51-u-9.99ghz-fmw112cp003-40-p.aspx>

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