

40 dB WR-28 Waveguide Broadwall Coupler with UG-599/U Flange and 2.4mm Female Coupling Port from 26.5 GHz to 40 GHz in Brass



FMW28CP006-40

Features

- Three Port broadwall Waveguide Coupler
- 40±0.7 dB Nominal Coupling Level
- Integrated 2.4mm Female Connector for the coupled ports
- 26.5 GHz to 40 GHz Frequency Range
- Low VSWR < 1.5:1

Applications

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

Description

The FMW28CP006-40 is a 40 dB WR-28 three port broadwall Coupler with integrated 2.4mm Female connectors for the coupled ports. 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-599/U flanges. The FMW28CP006-40 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	26.5		40	GHz
Impedance		50		Ohms
Coupler				
Nominal Coupling Level		40		dB
Coupling Accuracy		±0.7		dB
Directivity	25			dB
Insertion Loss			0.3	dB
Main Line VSWR			1.1:1	
Secondary Line VSWR			1.5:1	
Input Power (CW)			200	Watts
Input Power, Peak			20	kWatts

Mechanical Specifications

Size

Length	5.51 in [139.95 mm]
Width	0.75 in [19.05 mm]
Height	0.75 in [19.05 mm]
Weight	1 lbs [453.59 g]

Interface

Waveguide Size	WR-28
Flange Type	UG-599/U
Flange Material and Plating	Brass Copper, Gold
RF Connector Type	2.4mm Female

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Coupler Body Material and Plating	Brass Copper, Gold
Coupler Body Plating Specification	Anticorrosion grey paint

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:

40 dB WR-28 Waveguide Broadwall Coupler with UG-599/U Flange and 2.4mm Female Coupling Port from 26.5 GHz to 40 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: [40 dB WR-28 Waveguide Broadwall Coupler with UG-599/U Flange and 2.4mm Female Coupling Port from 26.5 GHz to 40 GHz in Brass FMW28CP006-40](#)

URL: <https://www.fairviewmicrowave.com/40db-wr28-waveguide-broadwall-coupler-ug-599-u-40ghz-fmw28cp006-40-p.aspx>

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FMW28CP006-40 CAD Drawing

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