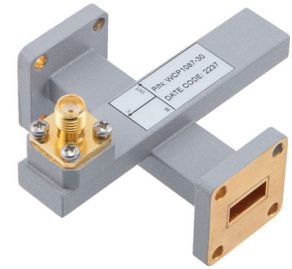


30 dB WR-42 Waveguide Crossguide Coupler with UG Cover Flange and SMA Female Coupled Port from 17.6 GHz to 26.7 GHz in Brass

The FMWCP1087-30 is a 30 dB WR-42 three port crossguide coupler with integrated SMA Female connector for the coupled port. 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 Cover flanges. The FMWCP1087-30 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	17.6		26.7	GHz
Coupler				
Nominal Coupling Level		30		dB
Coupling Accuracy			±1.5	dB
Directivity	15			dB
Insertion Loss		0.2		dB
Main Line VSWR			1.1:1	
Secondary Line VSWR			1.5:1	
Input Power (CW)			300	Watts
Input Power Peak			50	kWatts

Mechanical Specifications

Size

Length	2.559 in [65 mm]
Width	2.126 in [54 mm]
Height	1.36 in [34.54 mm]
Weight	0.22 lbs [99.79 g]

Interface

Waveguide Size	WR-42
Flange Type	UG Cover
RF Connector Type	SMA Female
Coupler Body Material and Plating	Brass Copper, Gold

Environmental Specifications

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Features:

- Three Port Crossguide Waveguide Coupler
- 30±1.5 dB Nominal Coupling Level
- Integrated SMA Female Connector for the coupled port
- 17.6 GHz to 26.7 GHz Frequency Range
- Low VSWR < 1.5:1

Applications:

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

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30 dB WR-42 Waveguide Crossguide Coupler with UG Cover Flange and SMA Female Coupled Port from 17.6 GHz to 26.7 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-42 Waveguide Crossguide Coupler with UG Cover Flange and SMA Female Coupled Port from 17.6 GHz to 26.7 GHz in Brass FMWCP1087-30](#)

URL: <https://www.fairviewmicrowave.com/30-db-wr-42-waveguide-crossguide-coupler-fmwcp1087-30-p.aspx>

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