

FMWCP1056 DATA SHEET

30 dB WR-90 Waveguide Crossguide Coupler With **UG-39/U Square Cover Flange And None Coupled** Port, 8.2 GHz to 12.4 GHz

The FMWCP1056 is a WR-90 crossquide wavequide coupler that operates in the frequency range of 8.2 to 12.4 GHz. This Waveguide component has a typical VSWR of 1.05:1. These designs are made of painted copper alloy and incorporate a cross wall configuration that result in a mid-band nominal coupling value of 20, 30, 40 or 50 dB. Common applications for this component would be where power measurements are required within a system for measuring/sampling power or frequency monitoring with minimal signal loss to the maintransmission line. This WR-90 waveguide coupler uses standard UG-39/U square cover flanges. Fairview offers a complete family of waveguide Crossguide and Top wall couplers that are in-stock and ship same day.

Electrical Specifications*

Description	Min	Тур	Max	Units
Frequency Range	8.2		12.4	GHz
Directivity		20		dB
Insertion Loss		0.1		dB
Main Line VSWR		1.05:1		
Nominal Coupling Level		30		dB

^{*} Values at 25°C, sea level

Mechanical Specifications

Size

Length Width/Dia.

Weight

Configuration

Design

Waveguide Material and Plating

3 in [76.2 mm] 3 in [76.2 mm]

0.98 lbs [444.52 g]

Size

None Crossguide

WR-90

Copper Alloy, Silver

Input Flange

Flange Type Flange Designation

Material Plating

Copper Alloy Silver

Output Flange

Flange Type Flange Designation

Material **Plating**

Square Cover UG-39/U Copper Alloy Silver

Square Cover

UG-39/U

Coupled Flange(s)

Flange Type Flange Designation Material **Plating**

Square Cover UG-39/U Copper Alloy Silver



Features:

- Crossquide Waveguide Coupler
- 30 dB Nominal Coupling Level
- 8.2 GHz to 12.4 GHz Frequency Range
- · Body and Flanges made of Copper Alloy
- Low VSWR

Applications:

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

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Compliance Certifications (visit www.FairviewMicrowave.com for current document)

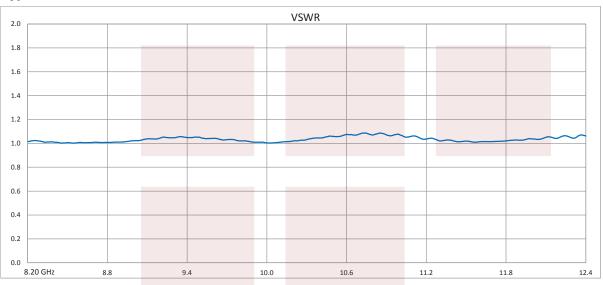
RoHS Compliant Yes
REACH Compliant 12/17/2015

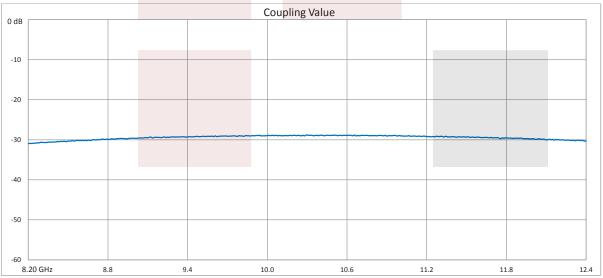
Plotted and Other Data

Notes

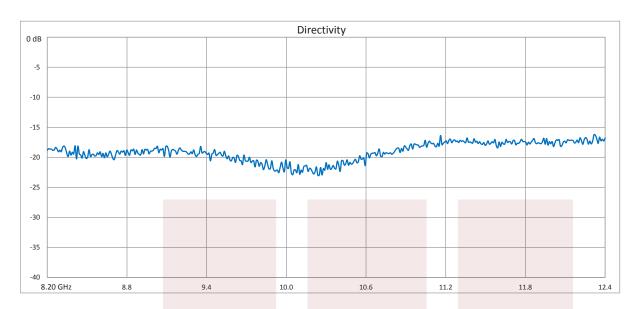
• Values at 25 °C, sea level

Typical Performance Data









30 dB WR-90 Waveguide Crossguide Coupler With UG-39/U Square Cover Flange And None Coupled Port, 8.2 GHz to 12.4 GHz 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 Allen, Texas. Fairview Microwave is RF on-demand.

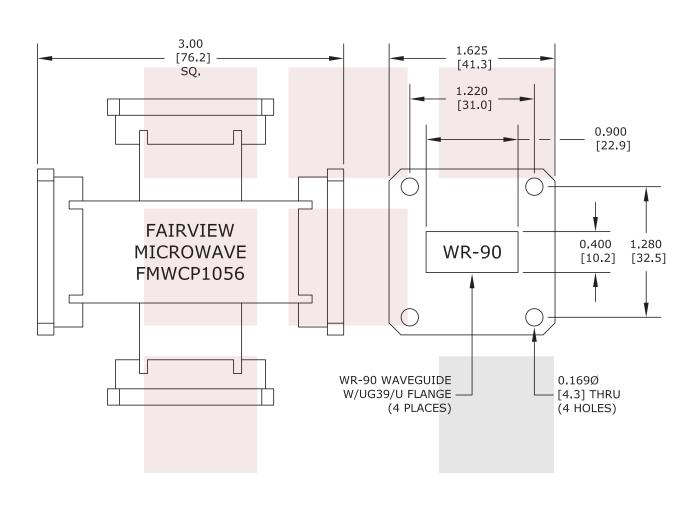
For additional information on this product, please click the following link: 30 dB WR-90 Waveguide Crossguide Coupler With UG-39/U Square Cover Flange And None Coupled Port, 8.2 GHz to 12.4 GHz FMWCP1056

URL: http://www.fairviewmicrowave.com/wr-90-30-db-waveguide-crossguide-coupler-ug39-square-none-fmwcp1056-p. aspx

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30 dB WR-90 Waveguide Crossguide Coupler With UG-39/U Square Cover Flange And None Coupled Port, 8.2 GHz to 12.4 GHz	DWG NO FMWCP1056			CAGE CODE 3FKR5			
	CAD FILE 021816	SHEET	SCALE	N/A	SIZE A	2233	