

FMWCP1049 DATA SHEET

40 dB WR-62 Waveguide Crossguide Coupler With UG-419/U Square Cover Flange And None Coupled Port, 12.4 GHz to 18 GHz

The FMWCP1049 is a WR-62 crossguide waveguide coupler that operates in the frequency range of 12.4 to 18 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-62 waveguide coupler uses standard UG-419/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	12.4		18	GHz
Directivity		30		dB
Insertion Loss		0.1		dB
Main Line VSWR		1.05:1		
Nominal Coupling Level		40		dB

^{*} Values at 25°C, sea level

Mechanical Specifications

Size

 Length
 2.5 in [63.5 mm]

 Width/Dia.
 2.5 in [63.5 mm]

 Weight
 0.6 lbs [272.16 g]

Configuration

Design None Crossguide
Size WR-62
Waveguide Material and Plating Copper Alloy, Silver

Input Flange

Flange Type Square Cover Flange Designation UG-419/U Material Copper Alloy Plating Silver

Output Flange

Flange Type Square Cover Flange Designation UG-419/U Material Copper Alloy Plating Silver

Coupled Flange(s)

Flange Type Square Cover Flange Designation UG-419/U Material Copper Alloy Plating Silver



Features:

- Crossguide Waveguide Coupler
- 40 dB Nominal Coupling Level
- 12.4 GHz to 18 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)

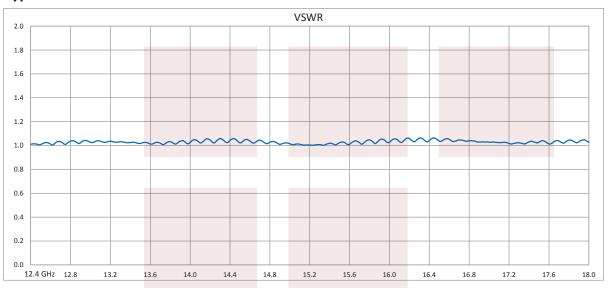
RoHS Compliant Yes
REACH Compliant 12/17/2015

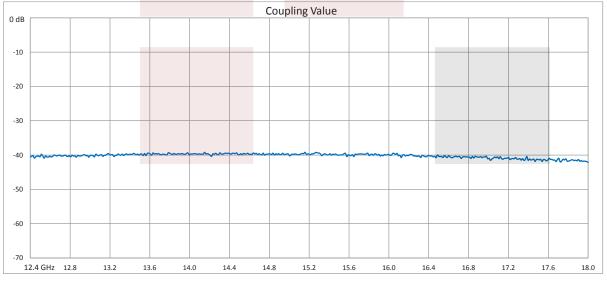
Plotted and Other Data

Notes

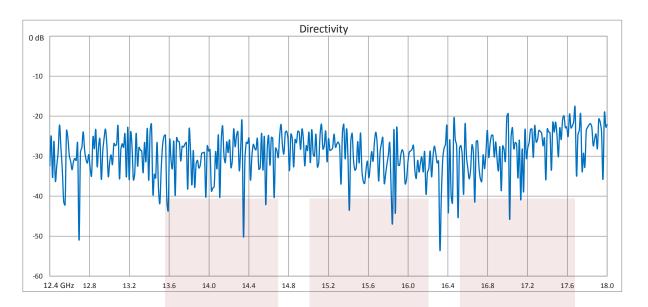
Values at 25 °C, sea level

Typical Performance Data









40 dB WR-62 Waveguide Crossguide Coupler With UG-419/U Square Cover Flange And None Coupled Port, 12.4 GHz to 18 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.

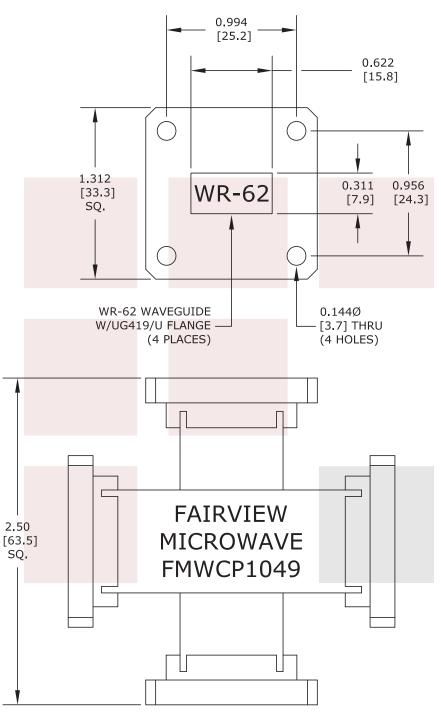
For additional information on this product, please click the following link: 40 dB WR-62 Waveguide Crossguide Coupler With UG-419/U Square Cover Flange And None Coupled Port, 12.4 GHz to 18 GHz FMWCP1049

URL: http://www.fairviewmicrowave.com/wr-62-40-db-waveguide-crossguide-coupler-ug419-square-none-fmwcp1049-p. aspx

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40 dB WR-62 Waveguide Crossguide Coupler With UG-419/U Square Cover Flange And None Coupled Port, 12.4 GHz to 18 GHz	DWG NO FMWCP1049			CAGE CODE 3FKR5		
	CAD FILE 021916	SHEET	SCALE	E N/A	SIZE A	2233