

40 dB WR-112 Waveguide Crossguide Coupler With UG-51/U Square Cover Flange And 7.05 GHz to 10 GHz

The FMWCP1065 is a WR-112 crossguide waveguide coupler that operates in the frequency range of 7.05 to 10 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 main transmission line. This WR-112 waveguide coupler uses standard UG-51/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	Typ	Max	Units
Frequency Range	7.05		10	GHz
Directivity		20		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	4 in [101.6 mm]
Width/Dia.	4 in [101.6 mm]
Weight	1.8 lbs [816.47 g]
Configuration	
Design	None Crossguide
Size	WR-112
Waveguide Material and Plating	Copper Alloy, Silver
Input Flange	
Flange Type	Square Cover
Flange Designation	UG-51/U
Material	Copper Alloy
Plating	Silver
Output Flange	
Flange Type	Square Cover
Flange Designation	UG-51/U
Material	Copper Alloy
Plating	Silver
Coupled Flange(s)	
Flange Type	Square Cover
Flange Designation	UG-51/U
Material	Copper Alloy
Plating	Silver



Features:

- Crossguide Waveguide Coupler
- 40 dB Nominal Coupling Level
- 7.05 GHz to 10 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)

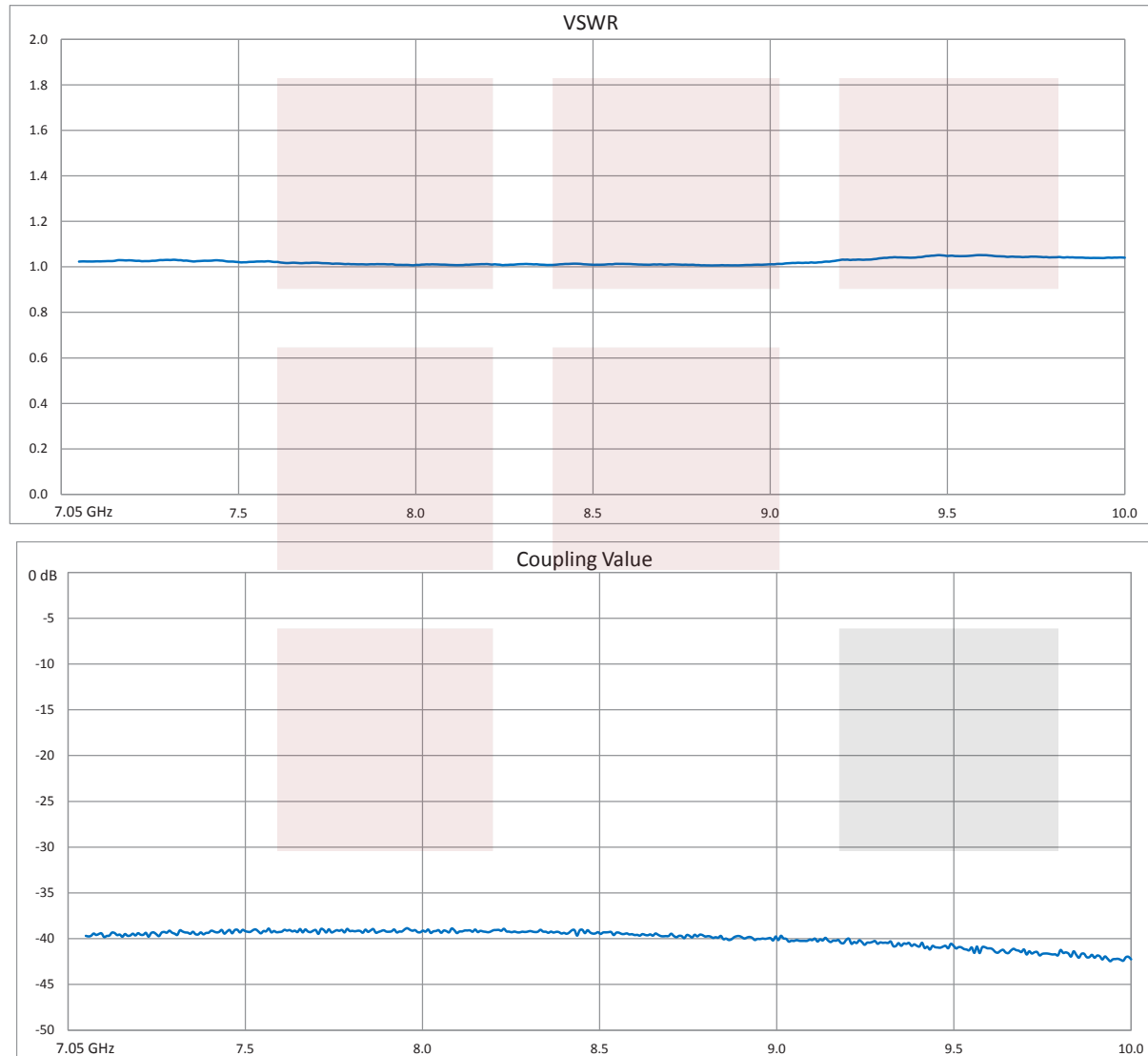
RoHS Compliant Yes
REACH Compliant 12/17/2015

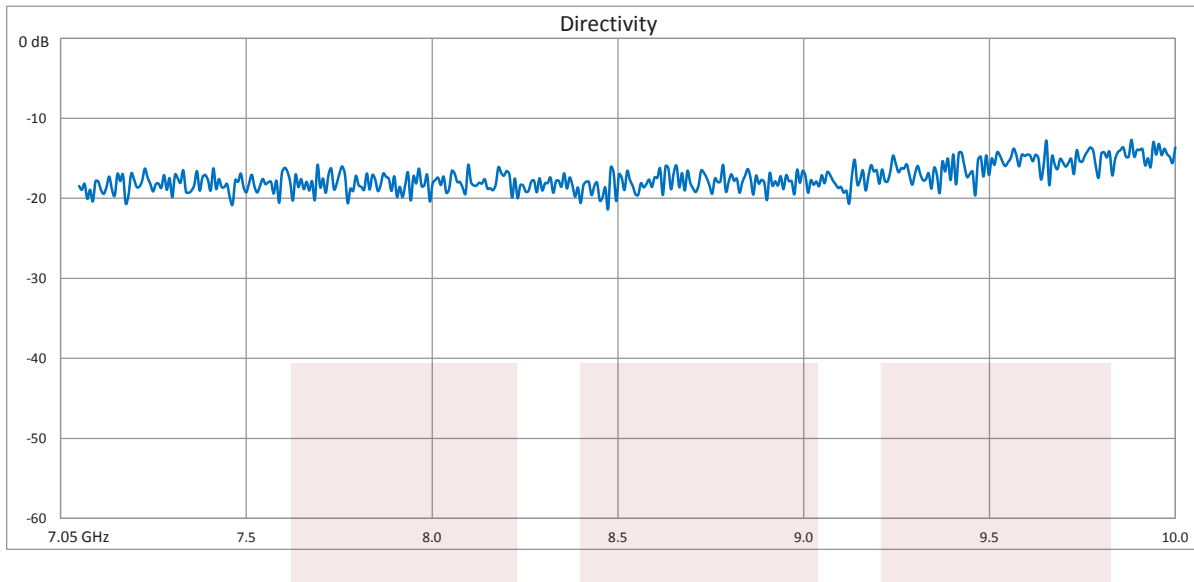
Plotted and Other Data

Notes:

- Values at 25 °C, sea level

Typical Performance Data



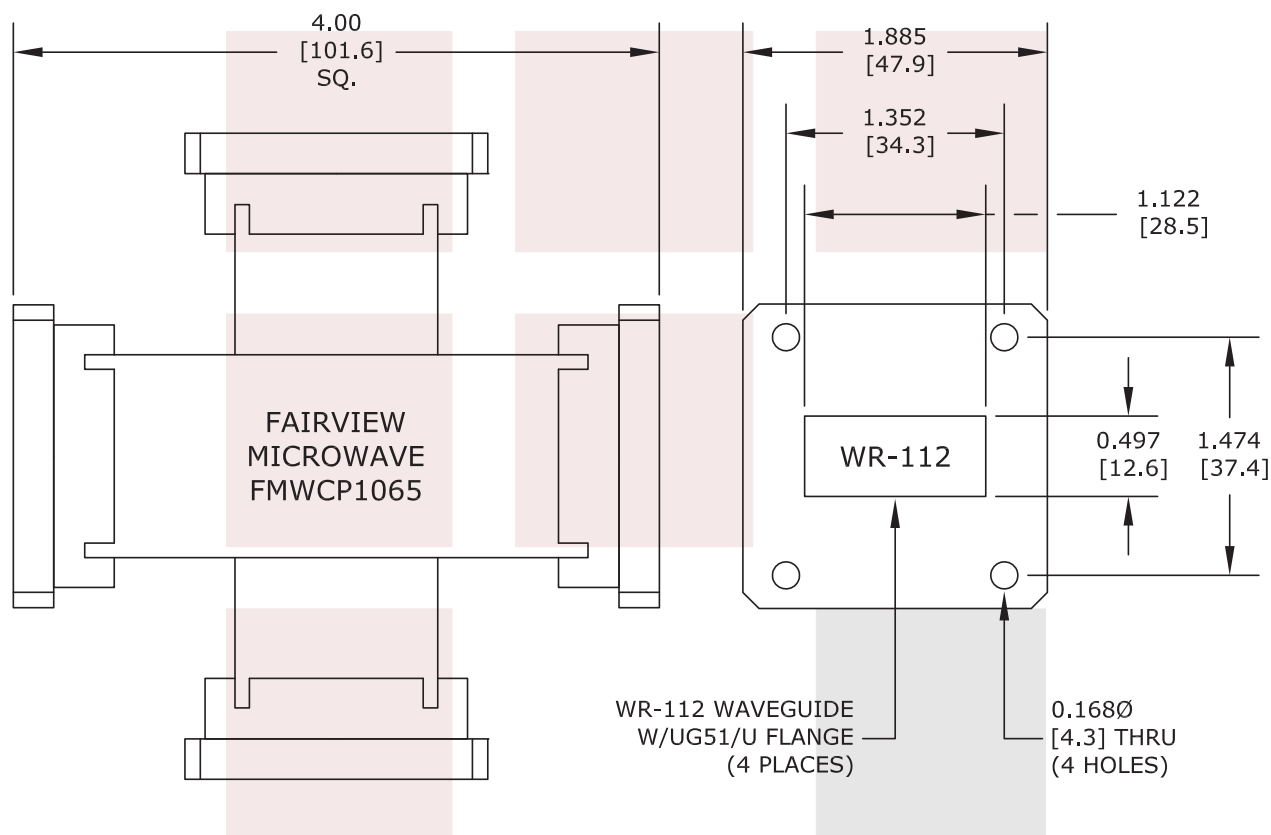


40 dB WR-112 Waveguide Crossguide Coupler With UG-51/U Square Cover Flange And 7.05 GHz to 10 GHz from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [40 dB WR-112 Waveguide Crossguide Coupler With UG-51/U Square Cover Flange And 7.05 GHz to 10 GHz FMWCP1065](http://www.fairviewmicrowave.com/wr-112-40-db-waveguide-crossguide-coupler-ug51-square-none-fmwcp1065-p.aspx)

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TITLE 40 dB WR-112 Waveguide Crossguide Coupler With UG-51/U Square Cover Flange And 7.05 GHz to 10 GHz	DWG NO FMWCP1065		CAGE CODE 3FKR5		
	CAD FILE 021816	SHEET	SCALE N/A	SIZE A	2233