

20 dB WR-75 Waveguide Crossguide Coupler With Square Cover Flange from 10 GHz to 15 GHz

The FMWCP1051 is a WR-75 crossguide waveguide coupler that operates in the frequency range of 10 to 15 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-75 waveguide coupler uses standard square cover flanges. Fairview offers a complete family of waveguide Crossguide and Top wall couplers that are in-stock and ship same day.



Features:

- Crossguide Waveguide Coupler
- 20 dB Nominal Coupling Level
- 10 GHz to 15 GHz Frequency Range
- Body and Flanges made of Copper Alloy
- Low VSWR

Electrical Specifications*

Description	Min	Typ	Max	Units
Frequency Range	10		15	GHz
Directivity		25		dB
Insertion Loss		0.1		dB
Main Line VSWR		1.05:1		
Nominal Coupling Level		20		dB

* Values at 25°C, sea level

Applications:

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

Mechanical Specifications

Size

Length 2.75 in [69.85 mm]
 Width/Dia. 2.75 in [69.85 mm]
 Weight 0.9166 lbs [415.76 g]

Configuration

Design Crossguide
 Size WR-75
 Waveguide Material and Plating Copper Alloy, Silver

Input Flange

Flange Type Square Cover
 Material Copper Alloy
 Plating Silver

Output Flange

Flange Type Square Cover
 Material Copper Alloy
 Plating Silver

Coupled Flange(s)

Flange Type Square Cover
 Material Copper Alloy
 Plating Silver

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

RoHS Compliant Yes
 REACH Compliant 12/17/2015

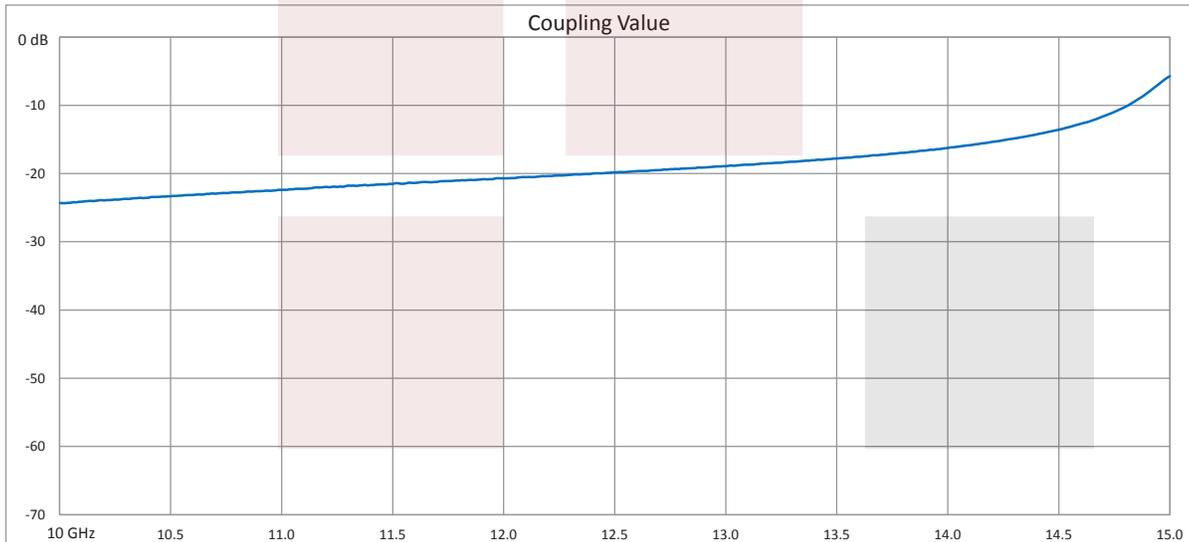
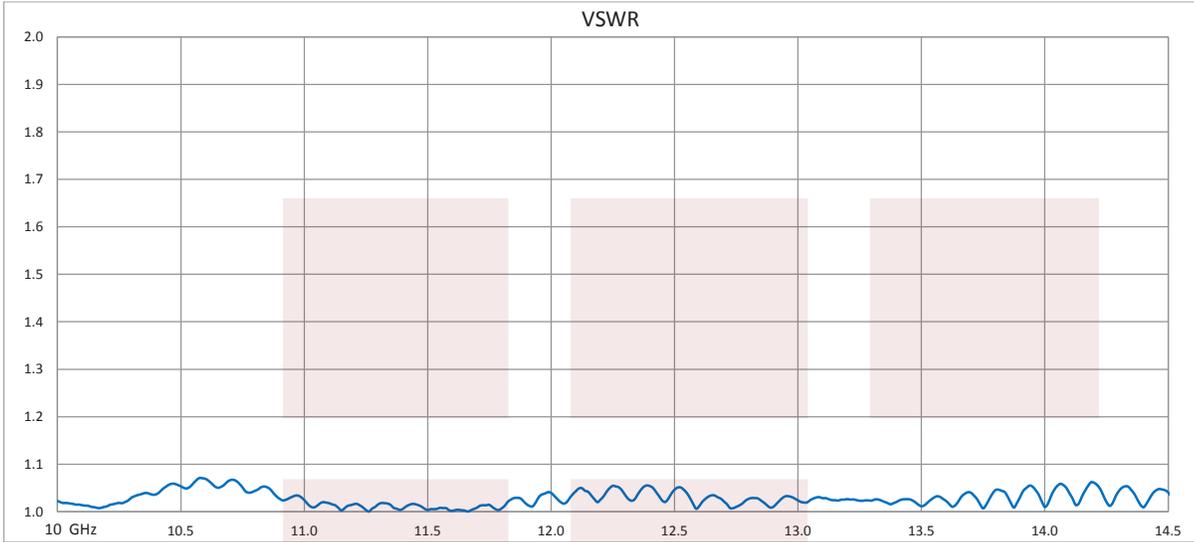
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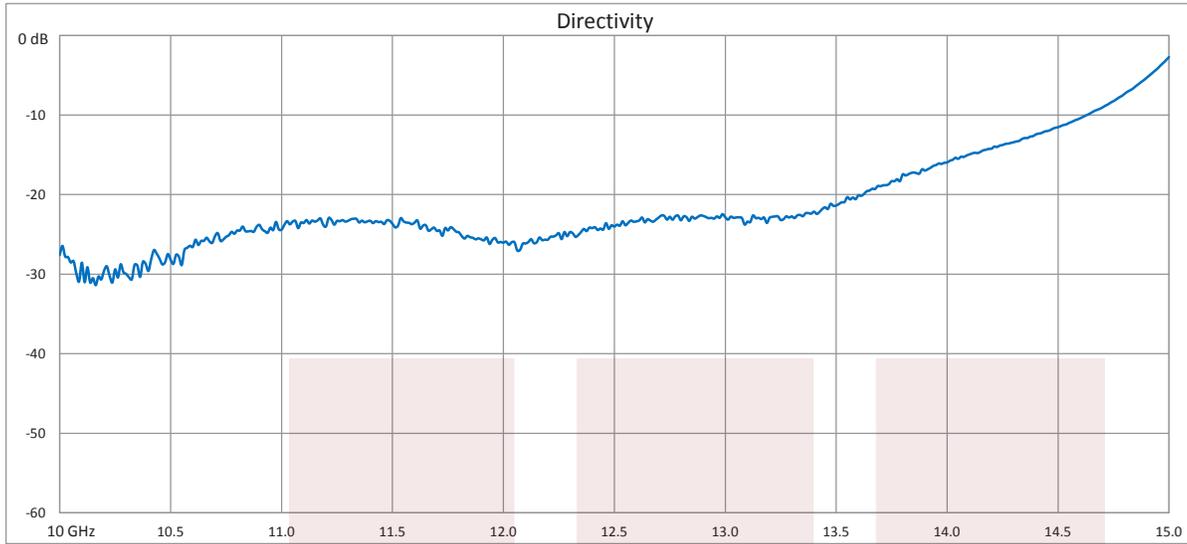
Plotted and Other Data

Notes:

- Values at 25 °C, sea level

Typical Performance Data



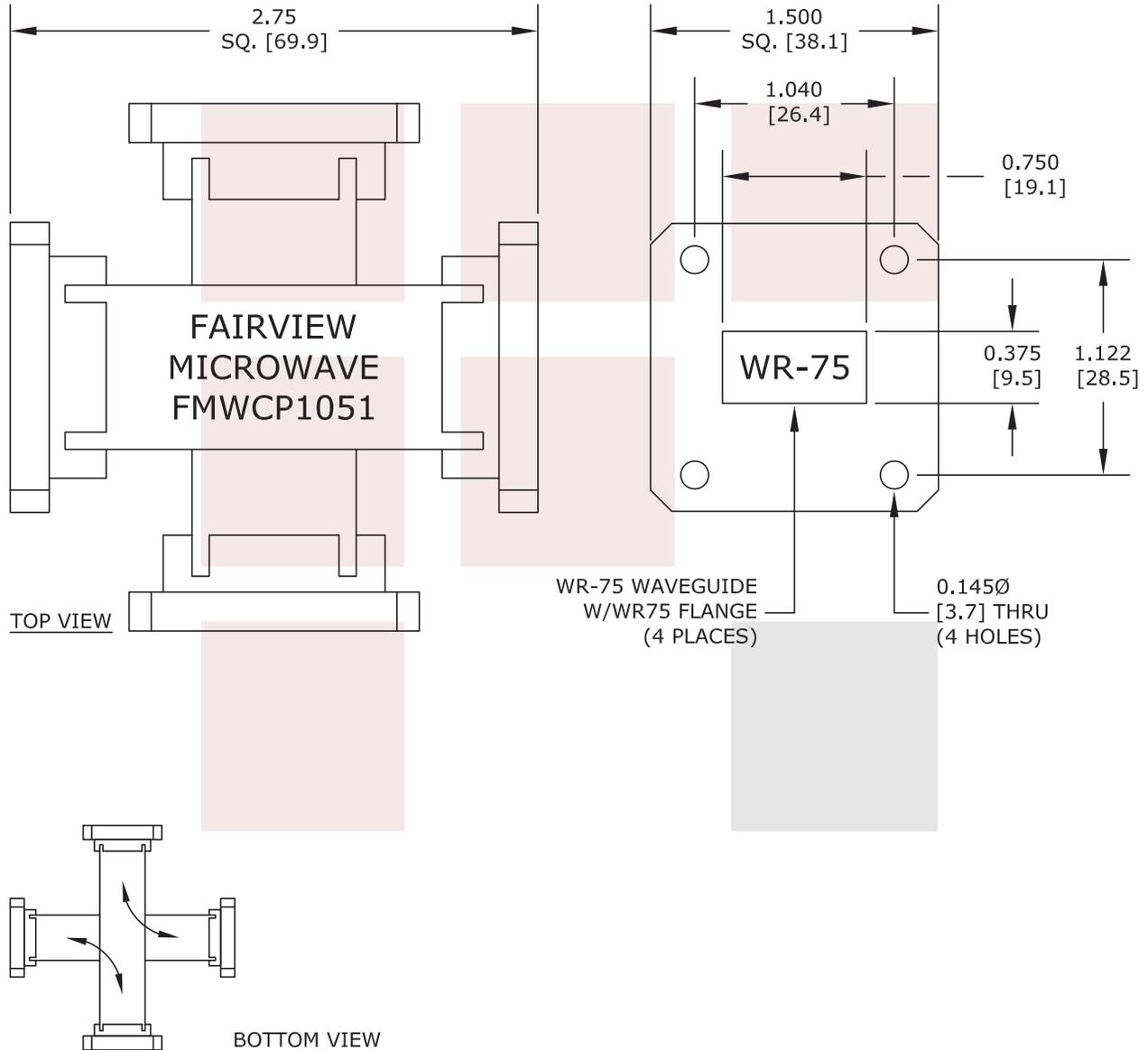


20 dB WR-75 Waveguide Crossguide Coupler With Square Cover Flange from 10 GHz to 15 GHz from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [20 dB WR-75 Waveguide Crossguide Coupler With Square Cover Flange from 10 GHz to 15 GHz FMWCP1051](#)

URL: <http://www.fairviewmicrowave.com/20-db-wr-75-waveguide-crossguide-coupler-square-fmwcp1051-p.aspx>

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TITLE 20 dB WR-75 Waveguide Crossguide Coupler With Square Cover Flange from 10 GHz to 15 GHz		DWG NO FMWCP1051		CAGE CODE 3FKR5	
CAD FILE	051116	SHEET	SCALE	N/A	SIZE A 2233