

40 dB WR-34 Waveguide Crossguide Coupler With UG-1530/U Square Cover Flange And None Coupled Port, 22 GHz to 33 GHz

The FMWCP1037 is a WR-34 crossguide waveguide coupler that operates in the frequency range of 22 to 33 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-34 waveguide coupler uses standard UG-1530/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	22		33	GHz
Directivity		25		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	0.25 lbs [113.4 g]

Configuration

Design	None Crossguide
Size	WR-34
Waveguide Material and Plating	Copper Alloy, Silver

Input Flange

Flange Type	Square Cover
Flange Designation	UG-1530/U
Material	Copper Alloy
Plating	Silver

Output Flange

Flange Type	Square Cover
Flange Designation	UG-1530/U
Material	Copper Alloy
Plating	Silver

Coupled Flange(s)

Flange Type	Square Cover
Flange Designation	UG-1530/U
Material	Copper Alloy
Plating	Silver



Features:

- Crossguide Waveguide Coupler
- 40 dB Nominal Coupling Level
- 22 GHz to 33 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)

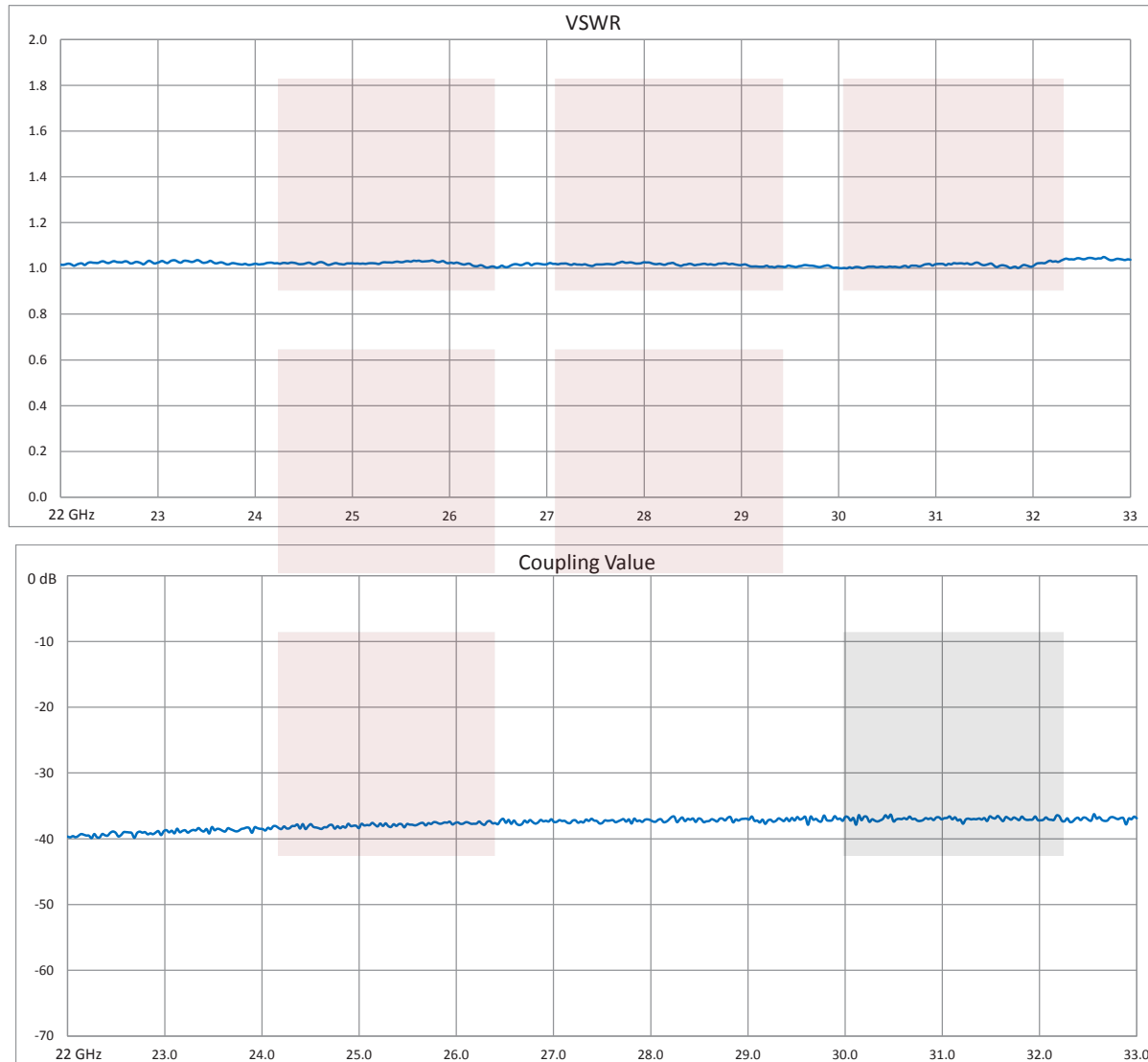
RoHS Compliant Yes
REACH Compliant 12/17/2015

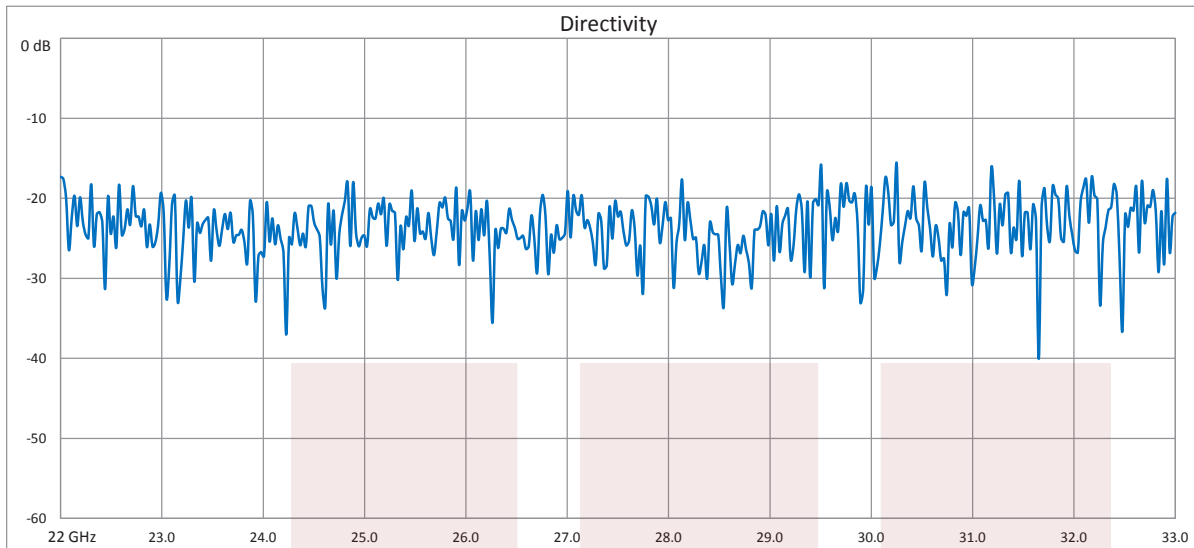
Plotted and Other Data

Notes:

- Values at 25 °C, sea level

Typical Performance Data



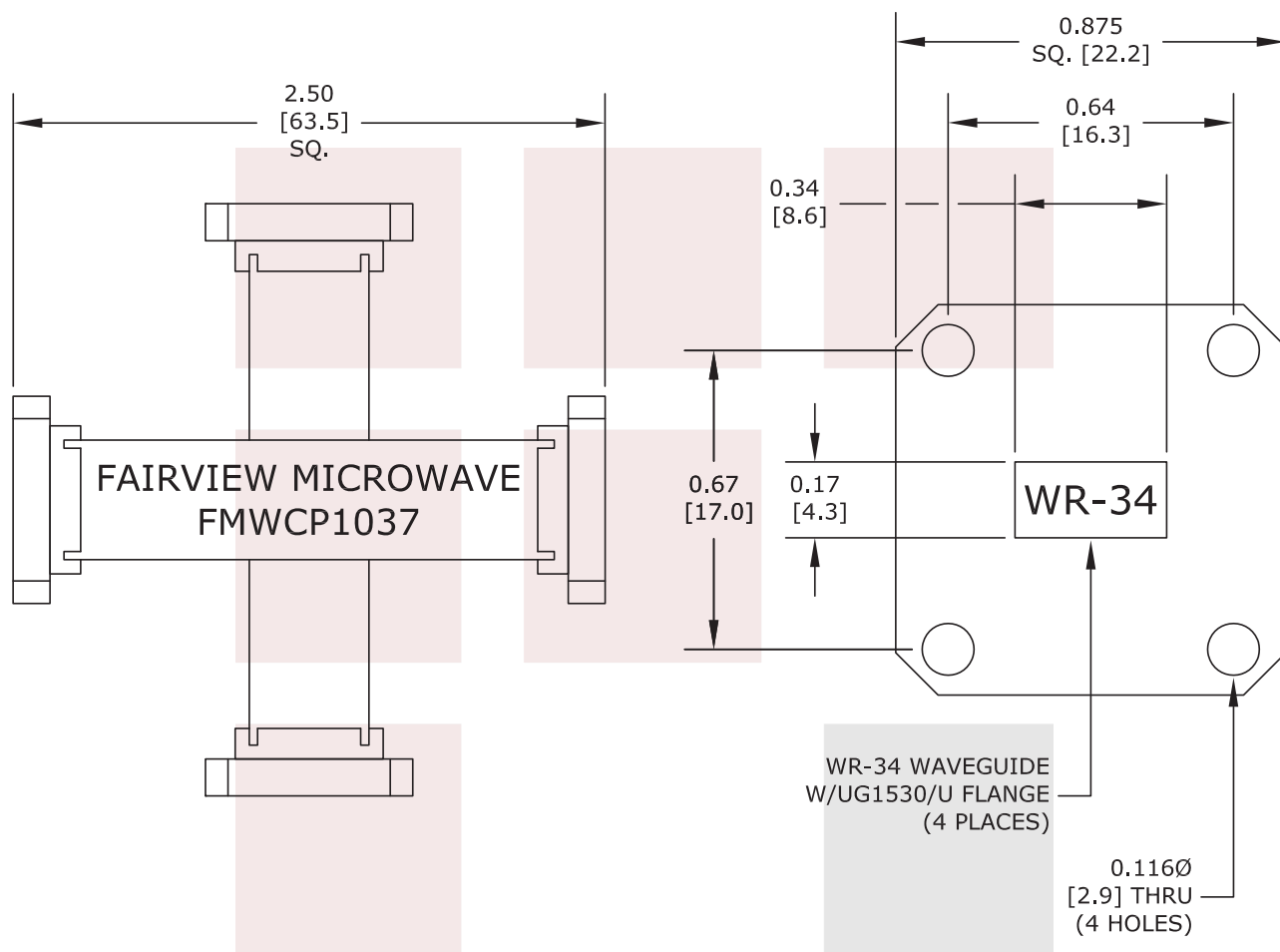


40 dB WR-34 Waveguide Crossguide Coupler With UG-1530/U Square Cover Flange And None Coupled Port, 22 GHz to 33 GHz from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [40 dB WR-34 Waveguide Crossguide Coupler With UG-1530/U Square Cover Flange And None Coupled Port, 22 GHz to 33 GHz FMWCP1037](http://www.fairviewmicrowave.com/wr-34-40-db-waveguide-crossguide-coupler-ug1530-square-none-fmwcp1037-p.aspx)

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TITLE 40 dB WR-34 Waveguide Crossguide Coupler With UG-1530/U Square Cover Flange And None Coupled Port, 22 GHz to 33 GHz	DWG NO FMWCP1037		CAGE CODE 3FKR5		
	CAD FILE 030916	SHEET	SCALE N/A	SIZE A	2233