

30 dB WR-34 Waveguide Crossguide Coupler with UG-1530/U Square Cover Flange from 22 GHz to 33 GHz in Copper Alloy

The FMWCP1036 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
Coupler				
Nominal Coupling Level		30		dB
Directivity		20		dB
Insertion Loss		0.1		dB
Main Line VSWR		1.05:1		
Termination				

Mechanical Specifications

Size		
Length		2.5 in [63.5 mm]
Width		2.5 in [63.5 mm]
Weight		0.25 lbs [113.4 g]
Interface		
Waveguide Size		WR-34
Flange Type		Square Cover
Flange Designation		UG-1530/U
Flange Material and Plating		Copper Alloy
Coupler Body Material and Plating		Copper Alloy

Environmental Specifications

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:



Features:

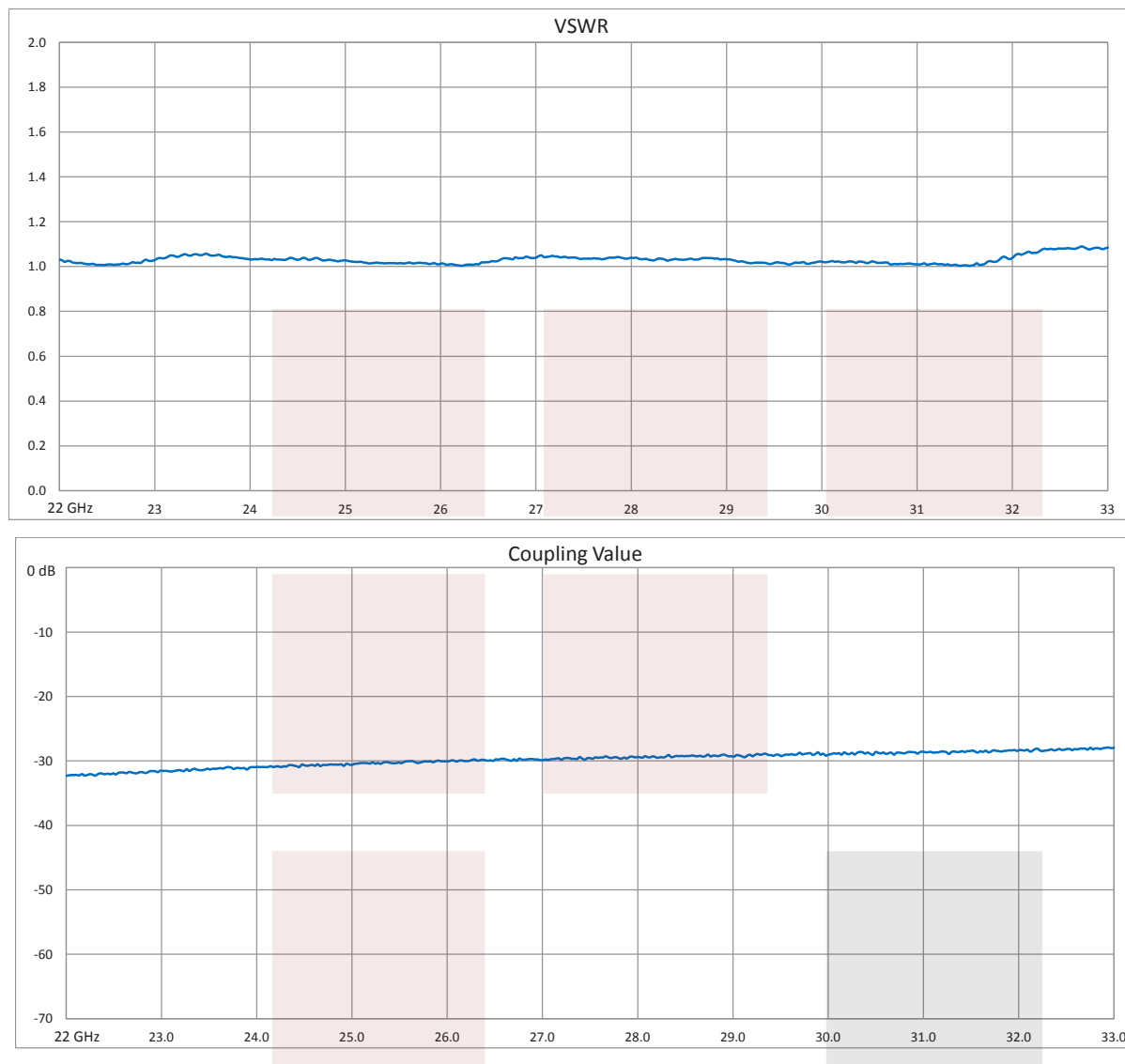
- Crossguide Waveguide Coupler
- 30 dB Nominal Coupling Level
- 22 GHz to 33 GHz Frequency Range
- Body and Flanges made of Copper Alloy
- Low VSWR

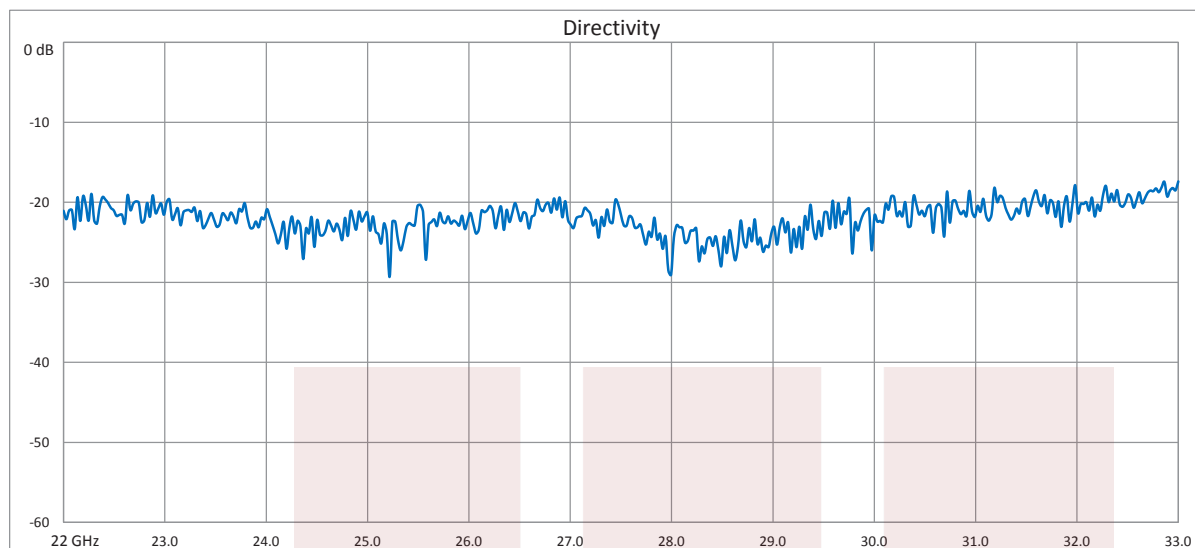
Applications:

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

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Typical Performance Data



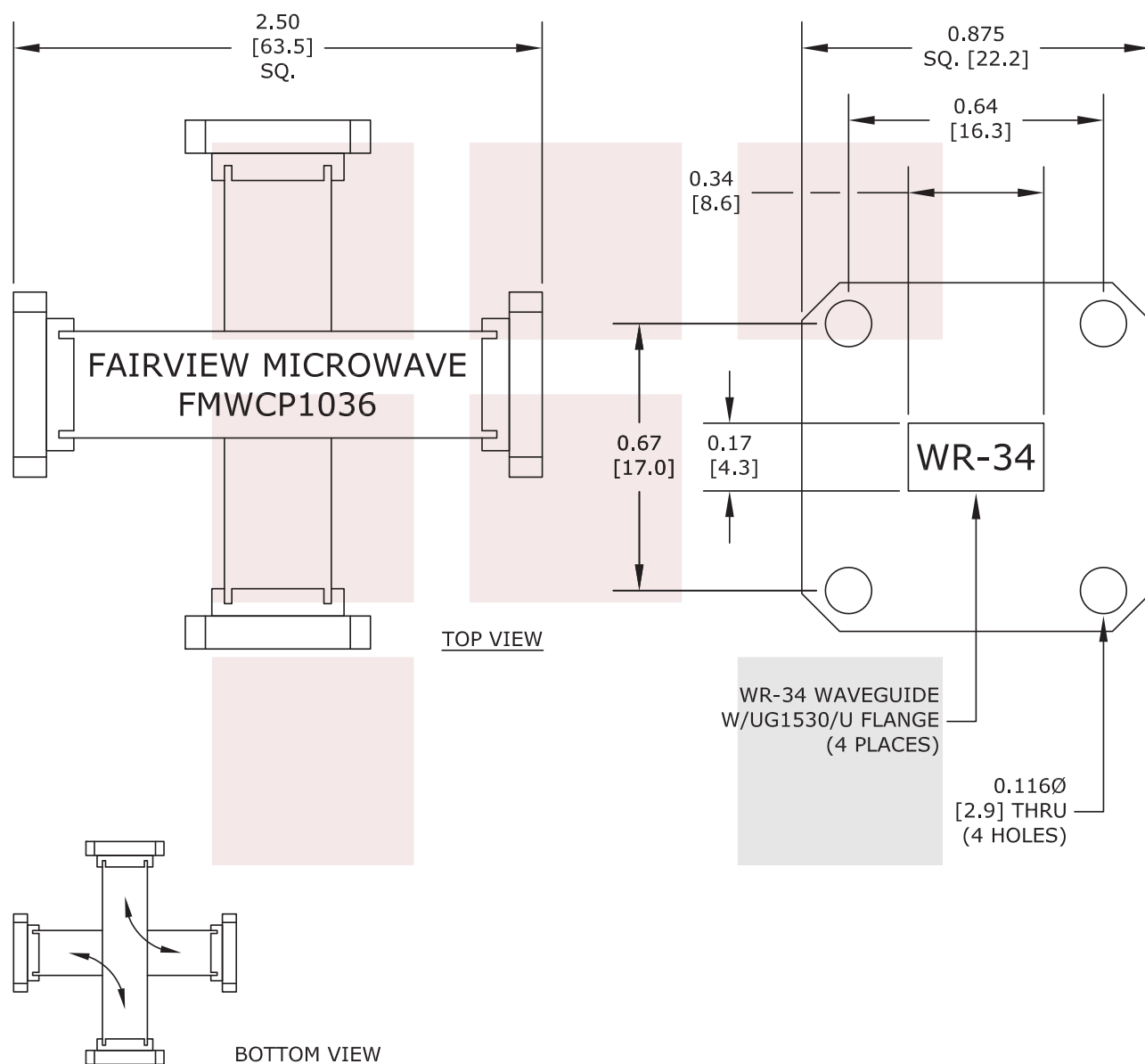


30 dB WR-34 Waveguide Crossguide Coupler with UG-1530/U Square Cover Flange from 22 GHz to 33 GHz in Copper Alloy from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [30 dB WR-34 Waveguide Crossguide Coupler with UG-1530/U Square Cover Flange from 22 GHz to 33 GHz in Copper Alloy FMWCP1036](https://www.fairviewmicrowave.com/30-db-wr-34-waveguide-crossguide-coupler-ug1530-square-fmwcp1036-p.aspx)

URL: <https://www.fairviewmicrowave.com/30-db-wr-34-waveguide-crossguide-coupler-ug1530-square-fmwcp1036-p.aspx>

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NOTES:

1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

TITLE

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DWG NO

FMWCP1036

CAGE CODE

3FKR5

CAD FILE

051116

SHEET

SCALE

N/A

SIZE

A

2233