



30 dB WR-34 Waveguide Crossguide Coupler with UG-1530/U Square Cover Flange and 2.92mm Female Coupled Port from 22 GHz to 33 GHz in Bronze

The FMWCT1045 is a 30 dB WR-34 four port crossguide coupler with one coupled port terminated (making it a three port coupler) and a coax adapter on the opposite coupled port. This coupler can be mounted directly into the waveguide signal path, connected via coax to allow signal sampling / monitoring. The coupler has a typical VSWR of 1.05:1 and are made of bronze with brass UG-1530/U Square Cover flanges. The FMWCT1045 is part of a family of cross guide couplers offered by Fairview with coupling values ranging from 20 to 50 dB. There is also a full family of top wall (broad wall) couplers. For the three port version of this coupler (terminated but no coax adapter) please see the FMWCT1001. For the four port version of this coupler (no termination, no coax adapter) please see the FMWCP1036.

Electrical Specifications

Description	Min	Тур	Max	Units
Frequency Range	22		33	GHz
Impedance		50		Ohms
Coupler				
Nominal Coupling Lev	el	30		dB
Directivity		20		dB
Insertion Loss		0.1		dB
Main Line VSWR		1.05:1		
Termination				
Input Power (CW)			1	Watts

Waveguide to Coax A	dapters	
VSWR	1	.25:1

Mechanical Specifications

Interface

Waveguide Size WR-34
Flange Type Square Cover
Flange Designation UG-1530/U
Flange Material and Plating Brass
RF Connector Type 2.92mm Female

Coupler Body Material and Plating Bronze

Coupler Body Material and Plating Bronze
Termination Body Material and Plating Bronze

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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Features:

- Three Port
- Crossguide Waveguide Coupler
- Terminated
- 30 dB Nominal Coupling Level
- 2.92mm Female Coax Adapter
- 22 GHz to 33 GHz Frequency Range
- Waveguide Body made of Bronze with Brass Flanges
- Low VSWR

Applications:

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

Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013

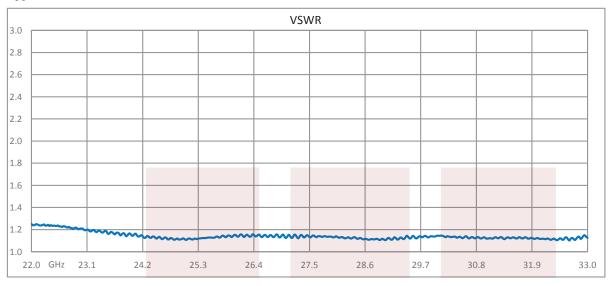
Tel: 1-800-715-4396 / (972) 649-6678

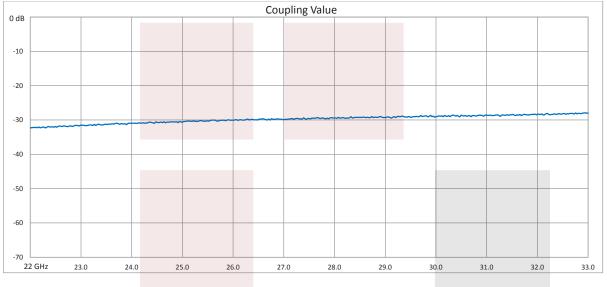
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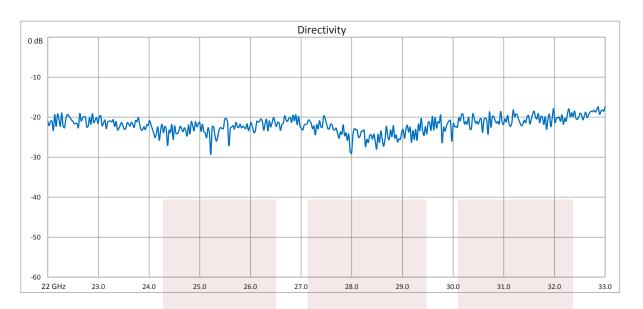


Typical Performance Data









30 dB WR-34 Waveguide Crossguide Coupler with UG-1530/U Square Cover Flange and 2.92mm Female Coupled Port from 22 GHz to 33 GHz in Bronze 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 ondemand.

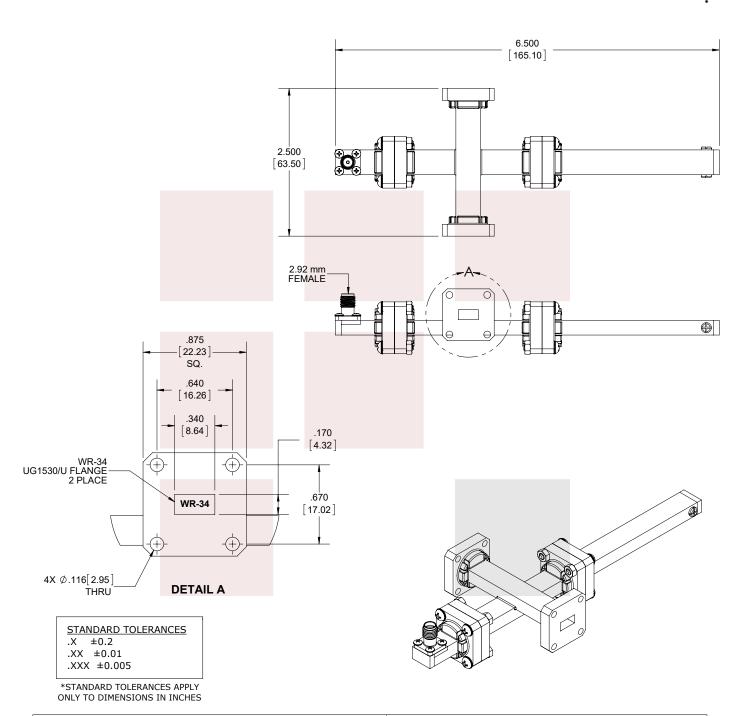
For additional information on this product, please click the following link: 30 dB WR-34 Waveguide Crossguide Coupler with UG-1530/U Square Cover Flange and 2.92mm Female Coupled Port from 22 GHz to 33 GHz in Bronze FMWCT1045

URL: https://www.fairviewmicrowave.com/30db-wr34-waveguide-crossguide-coupler-ug1530-square-2.92mm-33ghz-fmwct1045-p.aspx

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TITLE	FMWCT1044			CAGE CODE 3FKR5			
30 dB WR-34 Waveguide Crossguide Coupler with UG-1530/U Square Cover Flange and 2.92mm Female Coupled Port from 22 GHz to 33 GHz in Bronze	CAD FILE 062617	SHEET 1 OF 1	SCAL	E N/A	SIZE A	9999	