Fairview Microwave
RF COMPONENTS ON DEMAND. Done!

FMWCT1002
DATA SHEET

40 dB WR-34 Waveguide Crossguide 3 Port Coupler with UG-1530/U Square Cover Flange from 22 GHz to 33 GHz in Bronze

The FMWCT1002 is a 40 dB three port, terminated WR-34 crossguide waveguide coupler that operates in the frequency range of 22 to 33 GHz. The coupler has a typical VSWR of 1.05 These designs are made of Bronze with Brass UG-1530/U Square Cover Flanges. Fairview offers a complete family of crossguide couplers in both three port (terminated) and four port (unterminated) configurations that are in stock and ship on the same day. Top wall couplers are also available.

Features:

- Three Port
- Crossguide Waveguide Coupler
- Terminated
- 40 dB Nominal Coupling Level
- 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

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	22		33	GHz
Coupler				
Nominal Coupling Level		40		dB
Directivity		25		dB
Insertion Loss		0.1		dB
Main Line VSWR		1.05:1		
Termination				
VSWR		1.25		
Input Power (CW)			1	Watts

Mechanical Specifications

Size

Length	5.5 in [139.7 mm]
Width	2.5 in [63.5 mm]

Interface

Waveguide Size	WR-34
Flange Type	Square Cover
Flange Designation	UG-1530/U
Flange Material and Plating	Brass
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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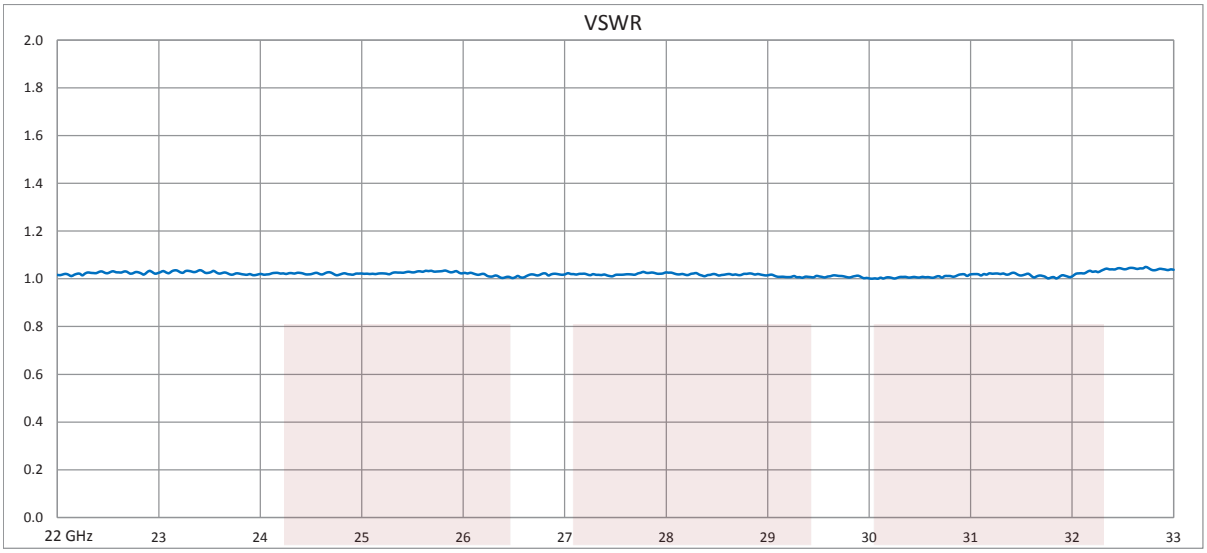
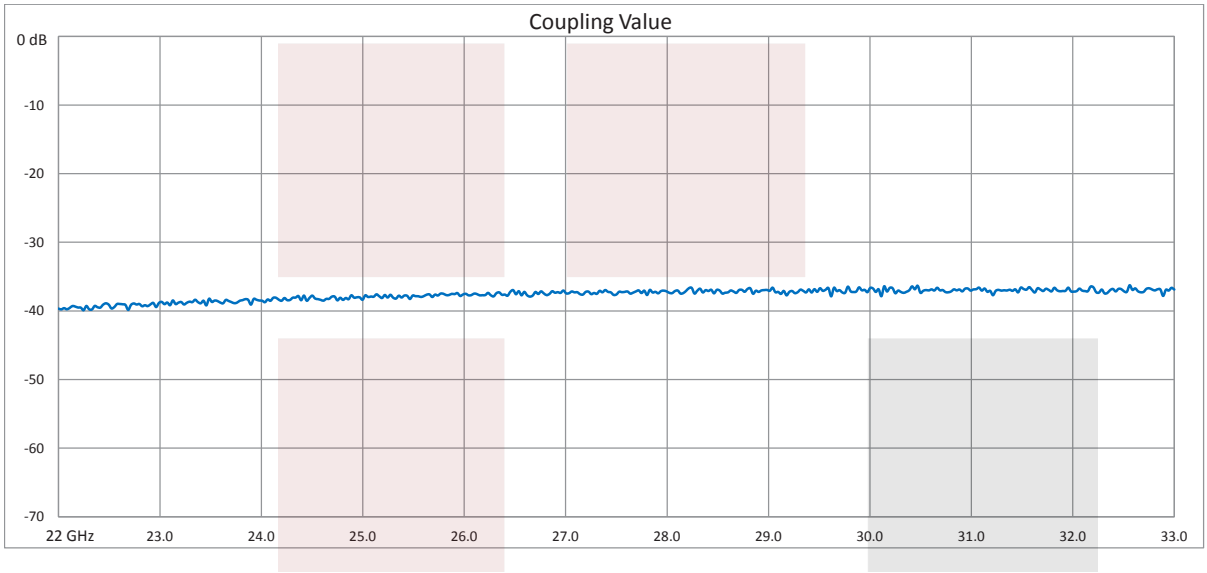
Typical Performance Data





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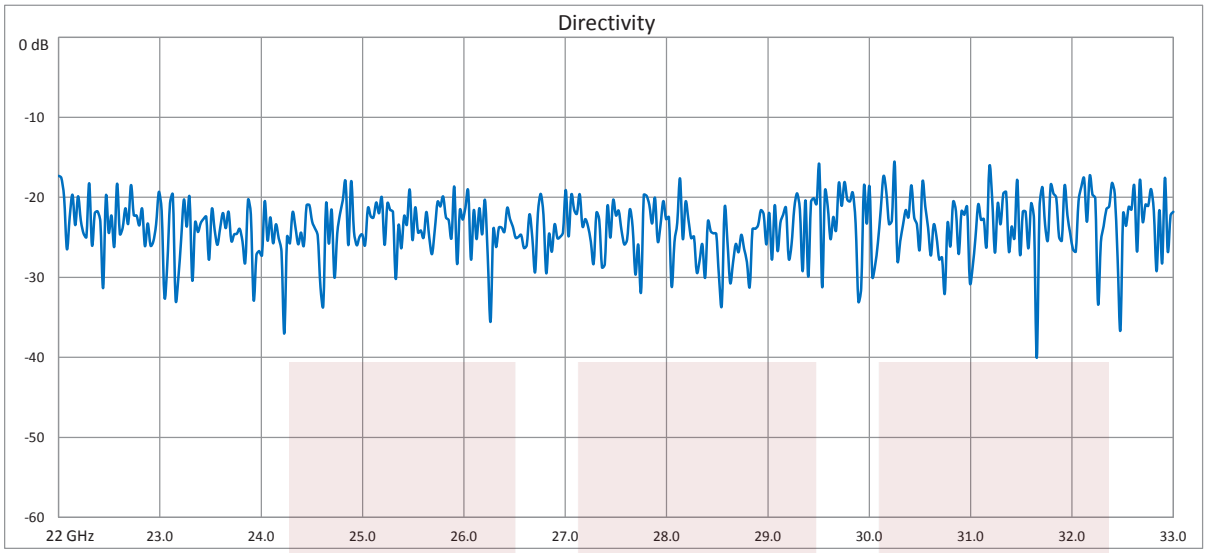

40 dB WR-34 Waveguide Crossguide 3 Port Coupler with UG-1530/U Square Cover Flange from 22 GHz to 33 GHz in Bronze from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: 40 dB WR-34 Waveguide Crossguide 3 Port Coupler with UG-1530/U Square Cover Flange from 22 GHz to 33 GHz in Bronze FMWCT1002

URL: https://www.fairviewmicrowave.com/40-db-wr-34-waveguide-crossguide-coupler-ug1530-square-3-port-fmwct1002-p.aspx

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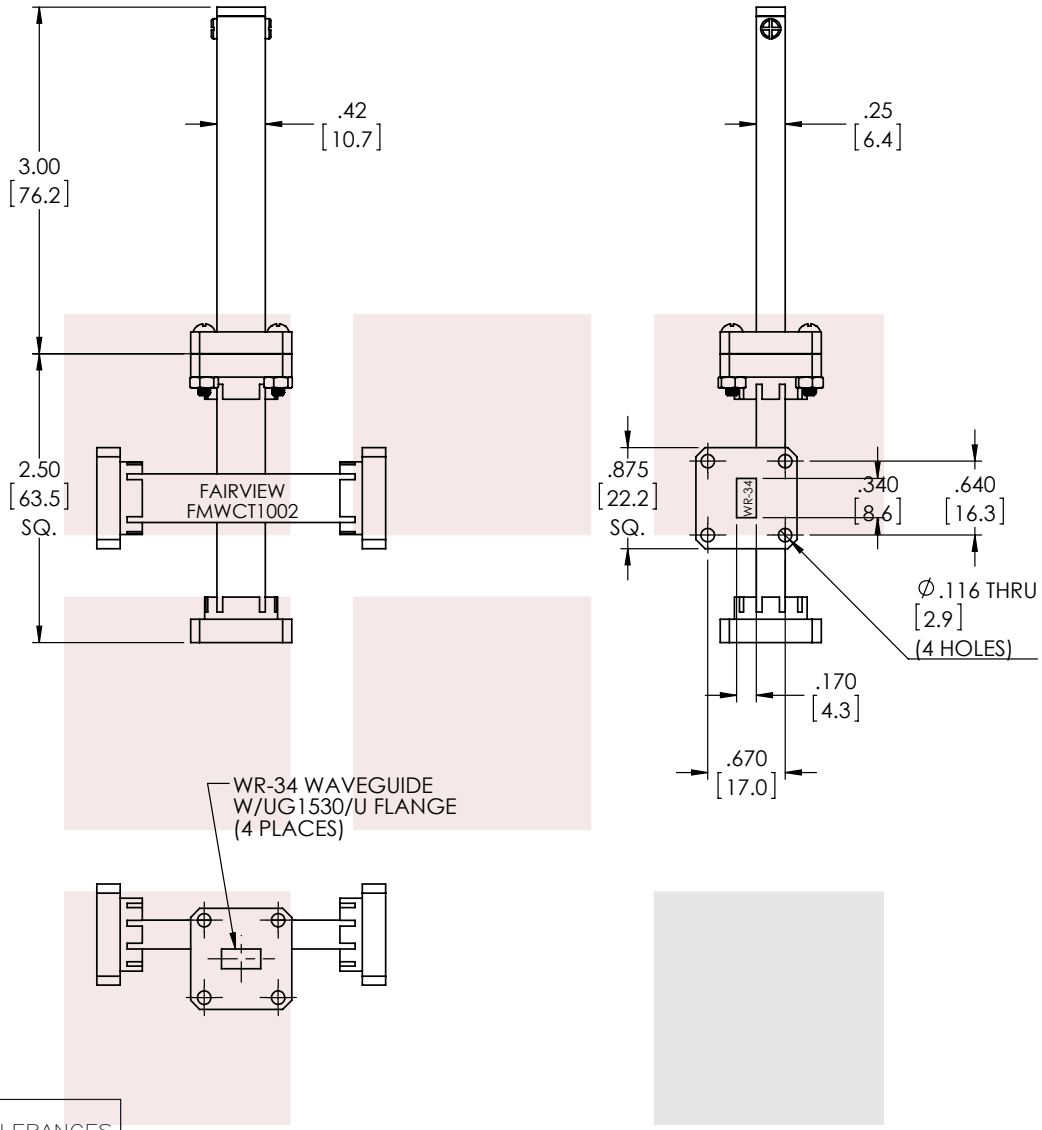

STANDARD TOLERANCES	
.X	±0.2
.XX	±0.1
.XXX	±0.05

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM	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	DWG NO FMWCT1002		CAGE CODE 3FKR5		
40 dB WR-34 Waveguide Crossguide 3 Port Coupler with UG-1530/U Square Cover Flange from 22 GHz to 33 GHz in Bronze	CAD FILE 050417	SHEET	SCALE N/A	SIZE A	CN_0992

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