

**20 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 FMWCT1044 is a 20 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 FMWCT1044 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 FMWCT1000. For the four port version of this coupler (no termination, no coax adapter) please see the FMWCP1035.



**Electrical Specifications**

Description	Min	Typ	Max	Units
Frequency Range	22		33	GHz
Impedance		50		Ohms
<b>Coupler</b>				
Nominal Coupling Level		20		dB
Directivity		20		dB
Insertion Loss		0.1		dB
Main Line VSWR		1.05:1		
<b>Termination</b>				
Input Power (CW)			1	Watts
<b>Waveguide to Coax Adapters</b>				
VSWR		1.25:1		

**Mechanical Specifications**

<b>Interface</b>	
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
Termination Body Material and Plating	Bronze

**Environmental Specifications**

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

**Plotted and Other Data**

Notes:

**Features:**

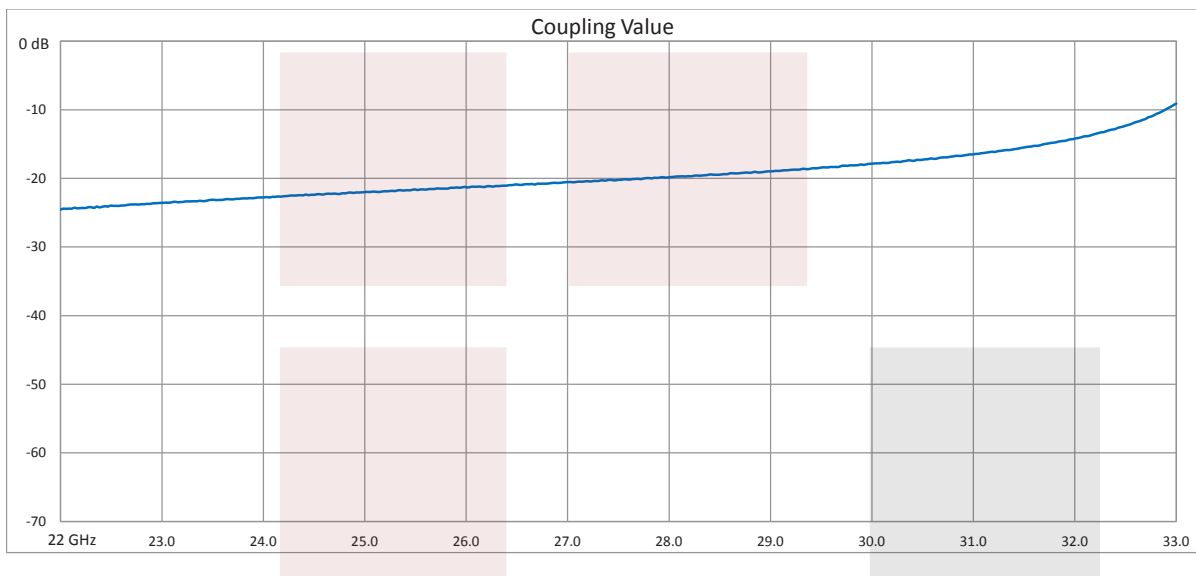
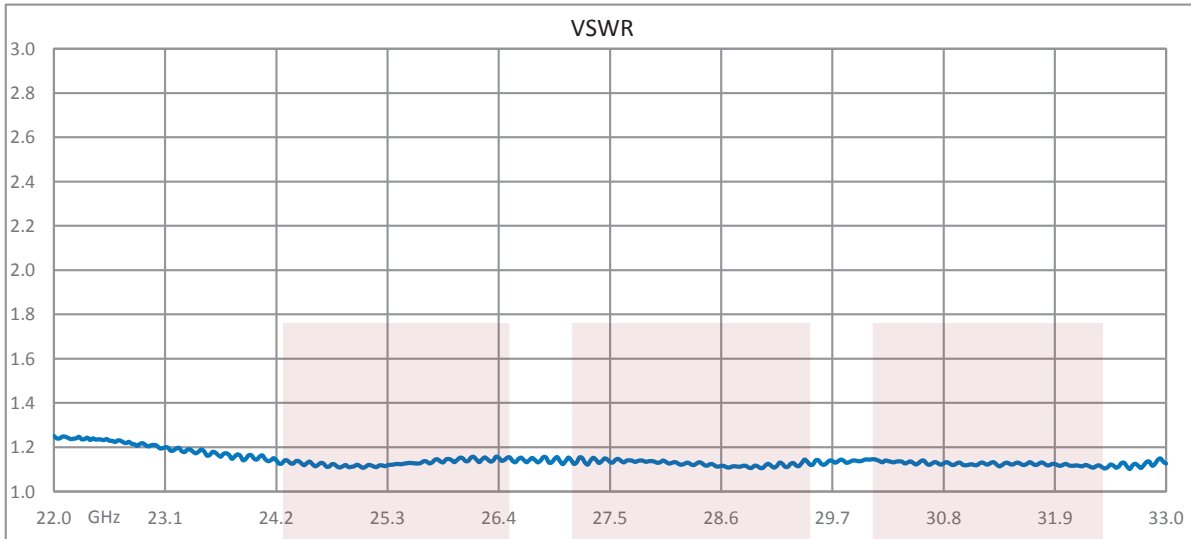
- Three Port
- Crossguide Waveguide Coupler
- Terminated
- 20 dB Nominal Coupling Level
- 2.92mm Female Coax Adapter
- 22 GHz to 33 GHz Frequency Range
- Waveguide Body made of Bronze with Brass Flanges
- Low VSWR

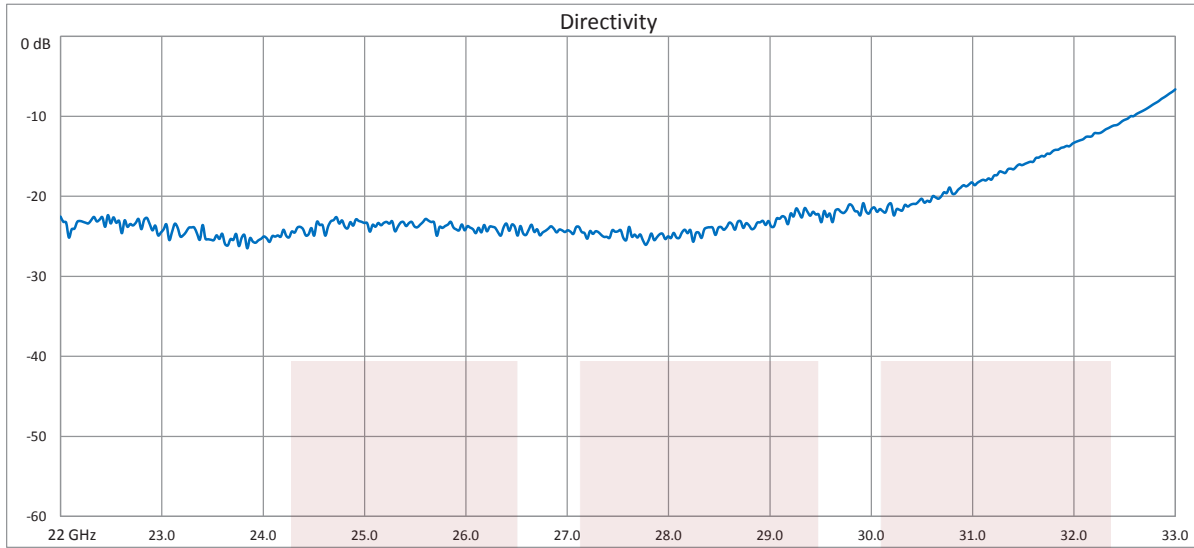
**Applications:**

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

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**Typical Performance Data**



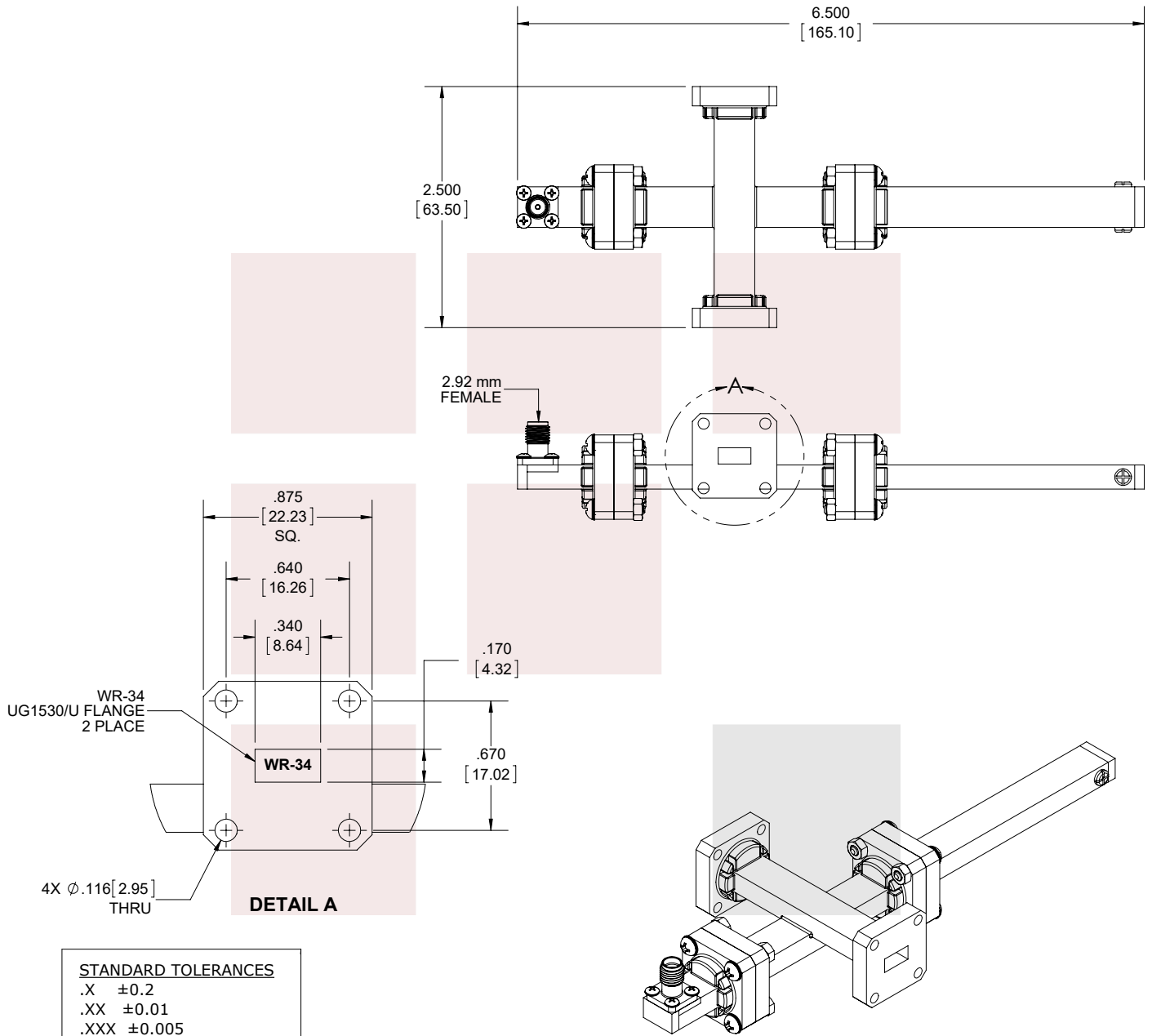


20 dB WR-34 Waveguide Crossguide Coupler with UG-1530/U Square Cover Flange and 2.92mm Female Coupled Port from 22 GHz to 33 GHz in Bronze from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [20 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 FMWCT1044](https://www.fairviewmicrowave.com/20db-wr34-waveguide-crossguide-coupler-ug1530-square-2.92mm-33ghz-fmwct1044-p.aspx)

URL: <https://www.fairviewmicrowave.com/20db-wr34-waveguide-crossguide-coupler-ug1530-square-2.92mm-33ghz-fmwct1044-p.aspx>

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TITLE 20 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		DWG NO <b>FMWCT1044</b>	CAGE CODE <b>3FKR5</b>		
CAD FILE 062617	SHEET 1 OF 1	SCALE N/A	SIZE A	9999	