



50 dB WR-90 Waveguide Crossguide Coupler with UG-39/U Square Cover Flange and N Female Coupled Port from 8.2 GHz to 12.4 GHz in Bronze

The FMWCT1079 is a 50 dB WR-90 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-39/U Square Cover flanges. The FMWCT1079 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 FMWCT1023. For the four port version of this coupler (no termination, no coax adapter) please see the FMWCP1058.



Description	Min	Тур	Max	Units	
Frequency Range	8.2		12.4	GHz	
mpedance		50		Ohms	
Coupler					
Nominal Coupling Level		50		dB	
Directivity		10		dB	
Insertion Loss		0.1		dB	
Main Line VSWR		1.05:1			
Termination					
Input Power (CW)			4	Watts	

Waveguide to Coax Ad	apters
VSWR	1.25:1

Mechanical Specifications

Interface

Waveguide Size

Flange Type

Flange Designation

Flange Material and Plating

RF Connector Type

Coupler Body Material and Plating

Termination Body Material and Plating

WR-90

Square Cover

UG-39/U

Brass

N Female

Bronze

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
- 50 dB Nominal Coupling Level
- N Female Coax Adapter
- 8.2 GHz to 12.4 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

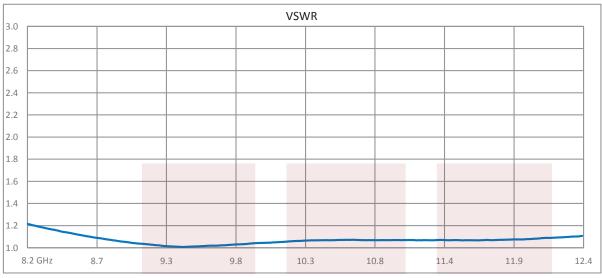
Tel: 1-800-715-4396 / (972) 649-6678

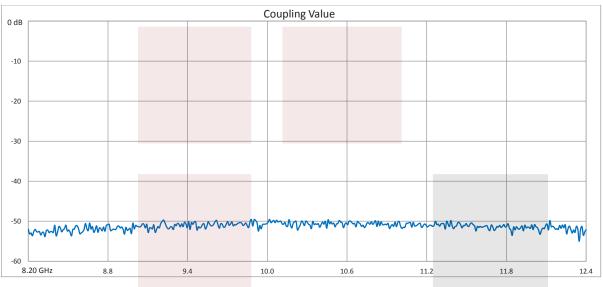
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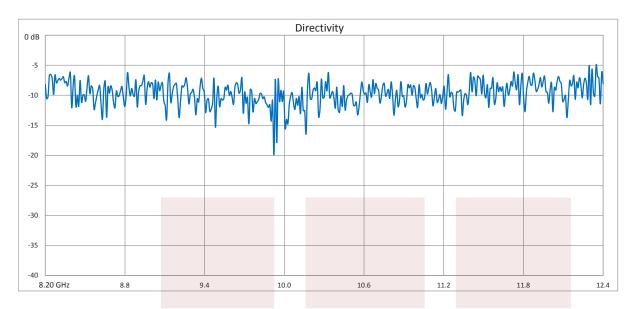
Typical Performance Data











50 dB WR-90 Waveguide Crossguide Coupler with UG-39/U Square Cover Flange and N Female Coupled Port from 8.2 GHz to 12.4 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.

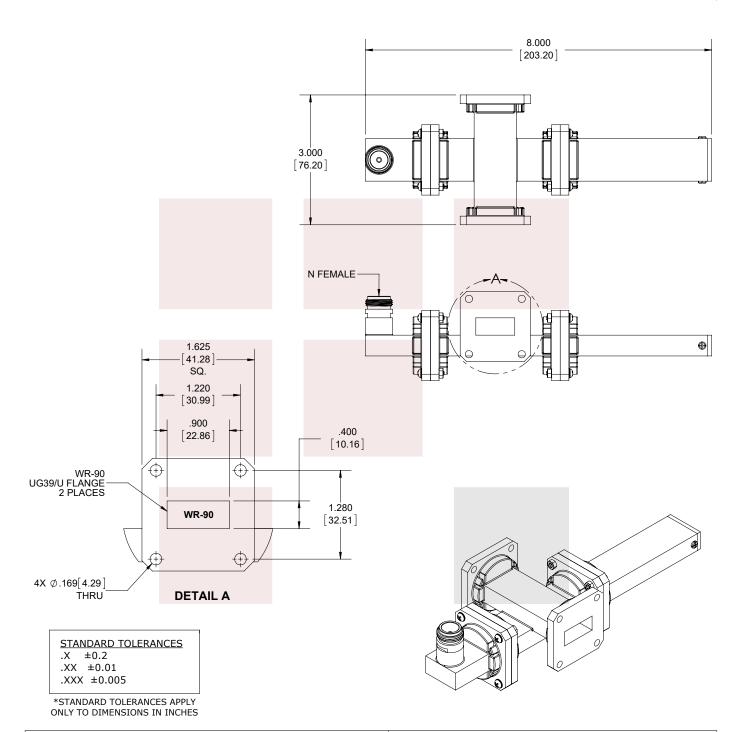
For additional information on this product, please click the following link: 50 dB WR-90 Waveguide Crossguide Coupler with UG-39/U Square Cover Flange and N Female Coupled Port from 8.2 GHz to 12.4 GHz in Bronze FMWCT1079

URL: https://www.fairviewmicrowave.com/50db-wr90-waveguide-crossguide-coupler-ug39-square-n-12.4ghz-fmw-ct1079-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.







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	тттье 50 dB WR-90 Waveguide Crossguide Coupler with UG-	FMWCT1079			CAGE CODE 3FKR5			
39/U Square Cover Flange and N Female Coupled Port from 8.2 GHz to 12.4 GHz in Bronze	CAD FILE 062717	SHEET 1 OF 1	SCAL	E N/A	SIZE A	9999		