

FMWCT1077 DATA SHEET

30 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 FMWCT1077 is a 30 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 FMWCT1077 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 FMWCT1021. For the four port version of this coupler (no termination, no coax adapter) please see the FMWCP1056.

Electrical Specifications

Description	N 4 ¹		Maria	11
Description	Min	Тур	Мах	Units
Frequency Range	8.2		12.4	GHz
Impedance		50		Ohms
Coupler				
Nominal Coupling Leve	el	30		dB
Directivity		20		dB
Insertion Loss		0.1		dB
Main Line VSWR		1.05:1		
Termination				
Input Power (CW)			4	Watts

1.25:1



Features:

- Three Port
- Crossguide Waveguide Coupler
- Terminated
- 30 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

Mechanical Specifications

VSWR

Waveguide to Coax Adapters

Interface Waveguide Size Flange Type Flange Designation Flange Material and Plating RF Connector Type Coupler Body Material and Plating

WR-90 Square Cover UG-39/U Brass N Female Bronze

Bronze

Coupler Body Material and Plating Termination Body Material and Plating

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

www.fairviewmicrowave.com sales@fairviewmicrowave.com REV 1.0 Page 1 of 4

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

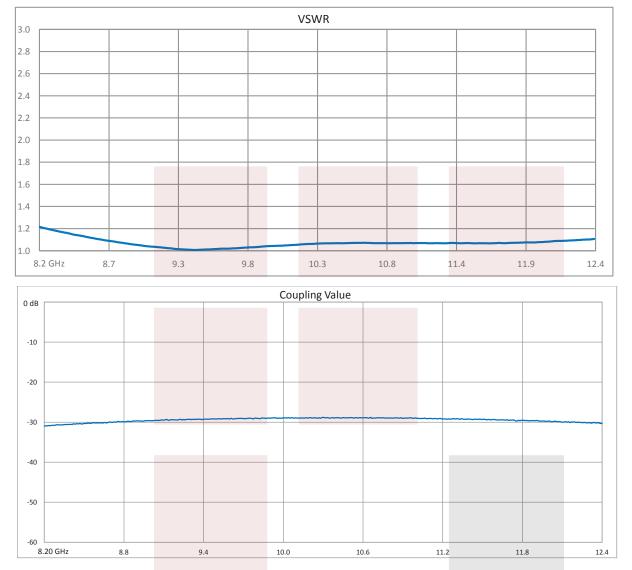
Fax: (972) 649-6689

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





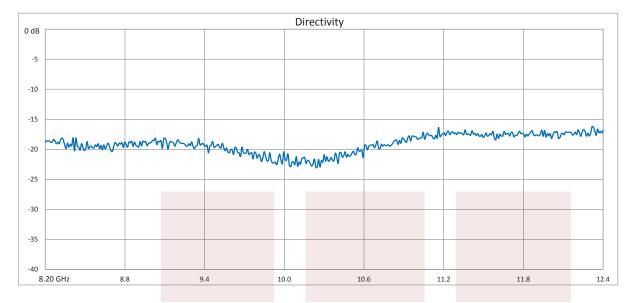
Typical Performance Data



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30 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.

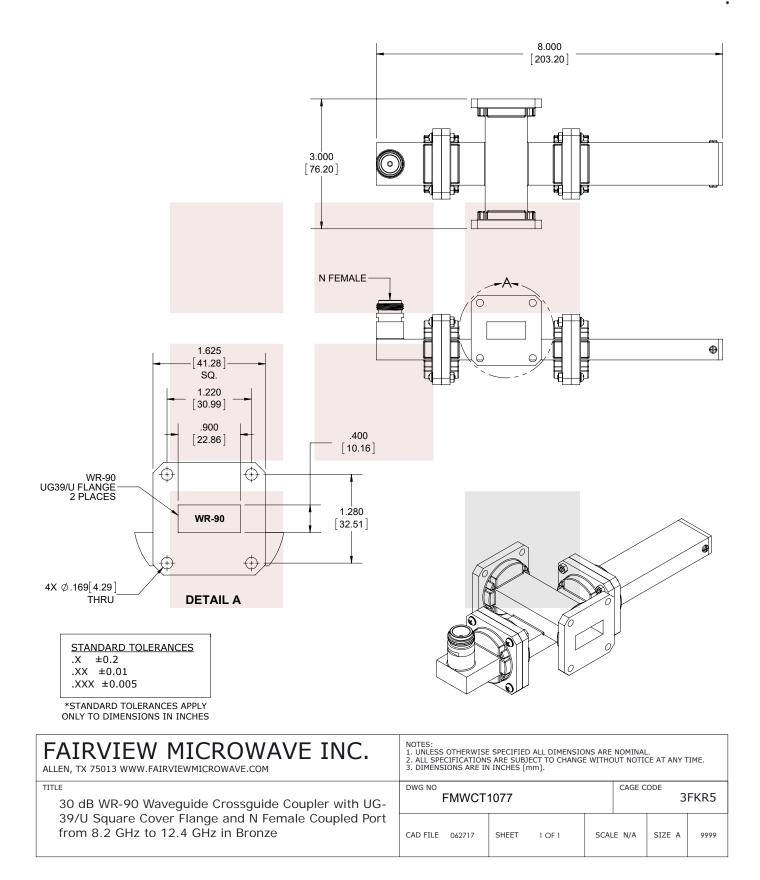
For additional information on this product, please click the following link: 30 dB WR-90 Waveguide Crossguide Coupler with UG-39/U Square Cover Flange and N Female Coupled Port from 8.2 GHz to 12.4 GHz in Bronze FMWCT1077

URL: https://www.fairviewmicrowave.com/30db-wr90-waveguide-crossguide-coupler-ug39-square-n-12.4ghz-fmwct1077-p.aspx

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