



20 dB WR-90 Waveguide Crossguide Coupler with CPR-90G Flange and N Female Coupled Port from 8.2 GHz to 12.4 GHz in Bronze

The FMWCT1080 is a 20 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 VSWRof1.05:1 and are made of bronze with brass CPR-90 Gflanges. The FMWCT1080 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 FMWCT1024. For the four port version of this coupler (no termination, no coax adapter) please see the FMWCP1059.

Electrical Specifications

Description	Min	Тур	Max	Units
Frequency Range	8.2		12.4	GHz
Impedance		50		Ohms
Coupler				
Nominal Coupling Lev	el	20		dB
Directivity		25		dB
Insertion Loss		0.1		dB
Main Line VSWR		1.05:1		
Termination				
Input Power (CW)			4	Watts

Waveguide to Coax Adapters

VSWR	1.:	25:1
VOVIX	1	2 J. I

Mechanical Specifications

Interface

Waveguide Size

Flange Type

Flange Material and Plating

RF Connector Type

Coupler Body Material and Plating

Termination Body Material and Plating

WR-90

CPR-90G

Brass

N Female

Bronze

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
- 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

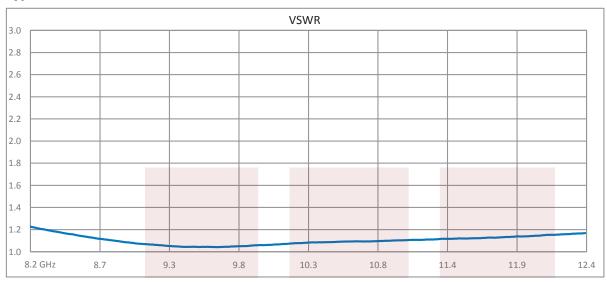
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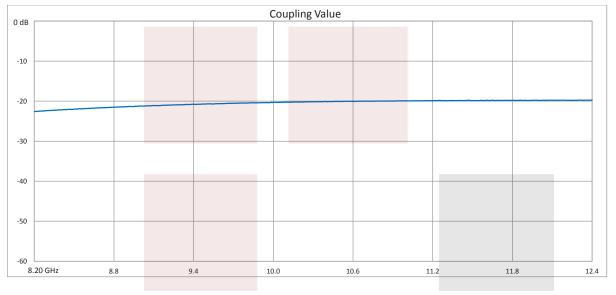
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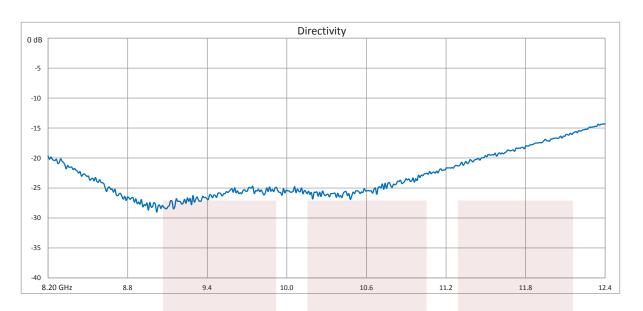


Typical Performance Data









20 dB WR-90 Waveguide Crossguide Coupler with CPR-90G 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.

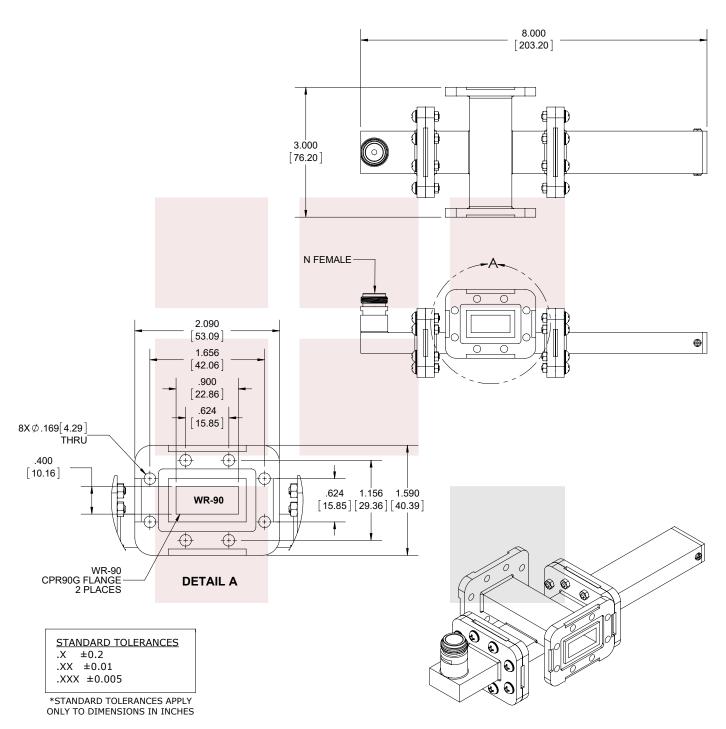
For additional information on this product, please click the following link: 20 dB WR-90 Waveguide Crossguide Coupler with CPR-90G Flange and N Female Coupled Port from 8.2 GHz to 12.4 GHz in Bronze FMWCT1080

URL: https://www.fairviewmicrowave.com/20db-wr90-waveguide-crossguide-coupler-cpr-90g-n-12.4ghz-fmwct1080-p. aspx

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	CAD FILE 062717	SHEET 1 OF 1	SCAL	E N/A	SIZE A	9999	