

FMWCT1089 DATA SHEET

30 dB WR-112 Waveguide Crossguide Coupler with CPR-112G Flange and SMA Female Coupled Port from 7.05 GHz to 10 GHz in Bronze

The FMWCT1089 is a 30 dB WR-112 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 CPR-112G flanges. The FMWCT1089 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 FMWCT1033. For the four port version of this coupler (no termination, no coax adapter) please see the FMWCP1068.

Electrical Specifications

Description	Min	Тур	Мах	Units
Frequency Range	7.05		10	GHz
Impedance		50		Ohms
Coupler				
Nominal Coupling Lev	el	30		dB
Directivity		25		dB
Insertion Loss		0.1		dB
Main Line VSWR		1.05:1		
Termination				
Input Power (CW)			5	Watts



Features:

- Three Port
- Crossguide Waveguide Coupler
- Terminated
- 30 dB Nominal Coupling Level
- SMA Female Coax Adapter
- 7.05 GHz to 10 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

Interface

VSWR

Waveguide Size Flange Type Flange Material and Plating RF Connector Type

Waveguide to Coax Adapters

WR-112 CPR-112G Brass SMA Female

Coupler Body Material and Plating Termination Body Material and Plating SMA Fema Bronze Bronze

1.25:1

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com





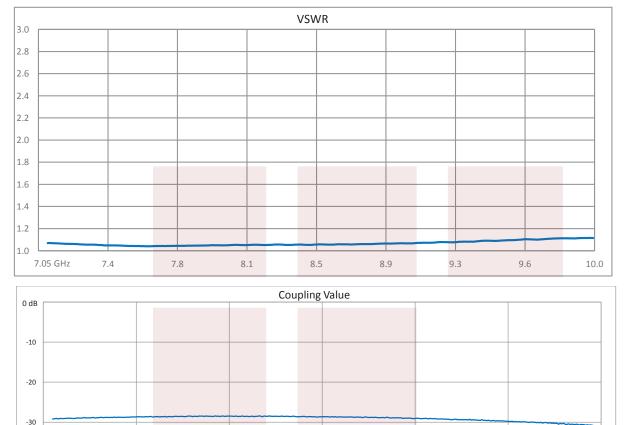
Typical Performance Data

-40

-50

-60 7.05 GHz

7.5



8.5

8.0

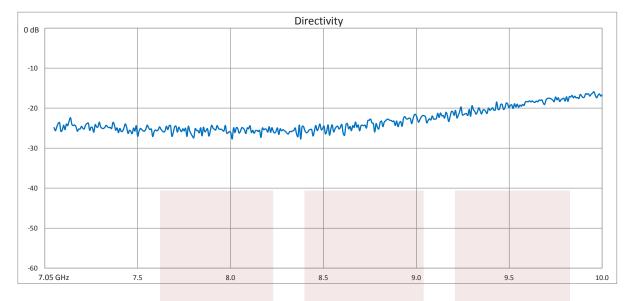
9.0

9.5

10.0







30 dB WR-112 Waveguide Crossguide Coupler with CPR-112G Flange and SMA Female Coupled Port from 7.05 GHz to 10 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.

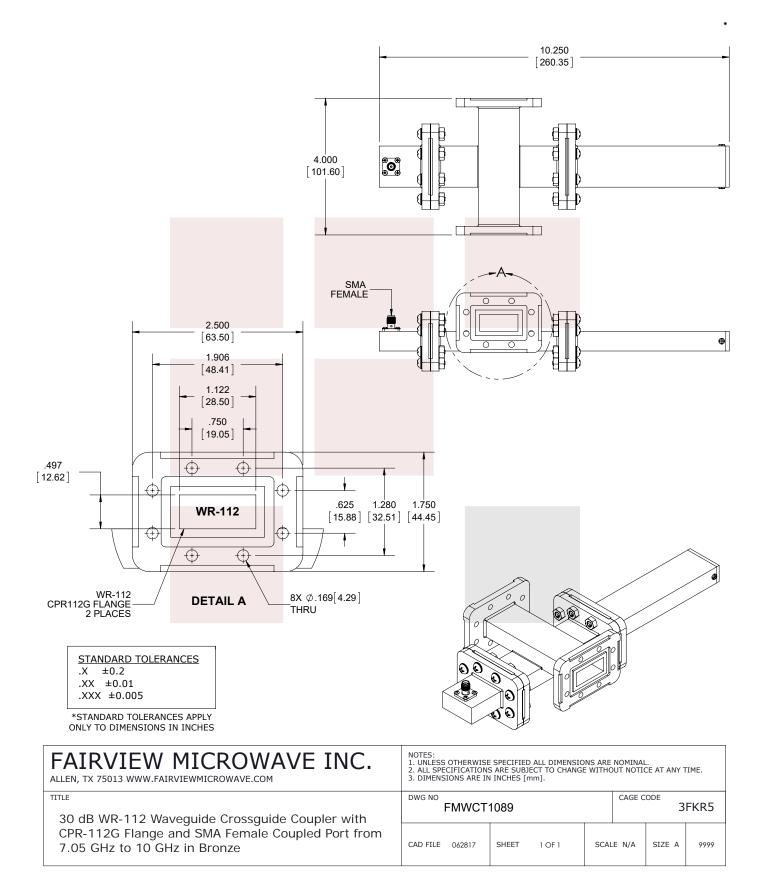
For additional information on this product, please click the following link: 30 dB WR-112 Waveguide Crossguide Coupler with CPR-112G Flange and SMA Female Coupled Port from 7.05 GHz to 10 GHz in Bronze FMWCT1089

URL: https://www.fairviewmicrowave.com/30db-wr112-waveguide-crossguide-coupler-cpr-112g-sma-10ghz-fmwct1089p.aspx

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