



50 dB WR-112 Waveguide Crossguide Coupler with UG-51/U Square Cover Flange and SMA Female Coupled Port from 7.05 GHz to 10 GHz in Bronze

The FMWCT1087 is a 50 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 UG-51/U Square Cover flanges. The FMWCT1087 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 FMWCT1031. For the four port version of this coupler (no termination, no coax adapter) please see the FMWCP1066.

Electrical Specifications

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

Waveguide to Coax Ac		
VSWR	1	.25:1

Mechanical Specifications

Interface

Waveguide Size WR-112
Flange Type Square Cover
Flange Designation UG-51/U
Flange Material and Plating Brass
RF Connector Type SMA 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:

The same

Features:

- Three Port
- Crossguide Waveguide Coupler
- Terminated
- 50 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

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

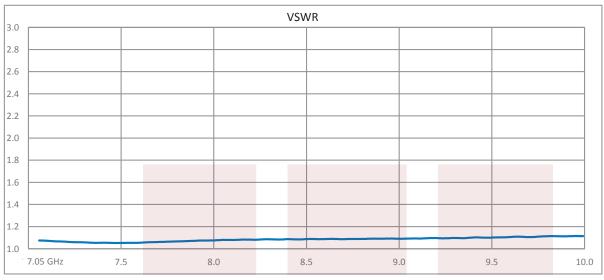
Tel: 1-800-715-4396 / (972) 649-6678

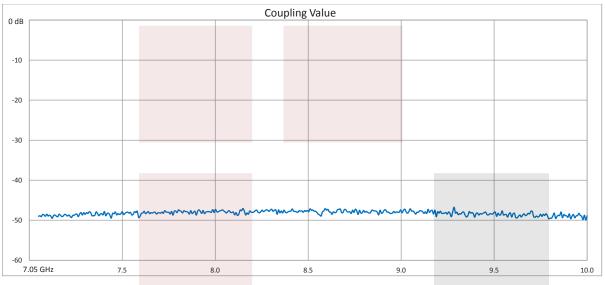
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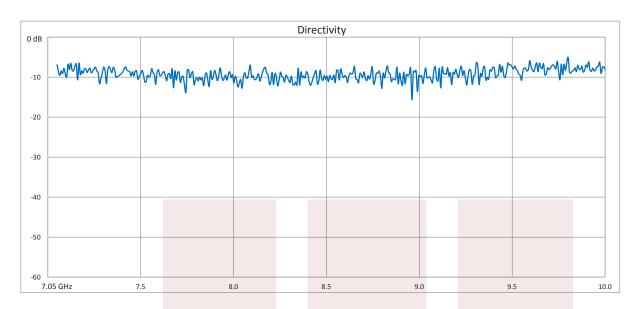


Typical Performance Data









50 dB WR-112 Waveguide Crossguide Coupler with UG-51/U Square Cover 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 ondemand.

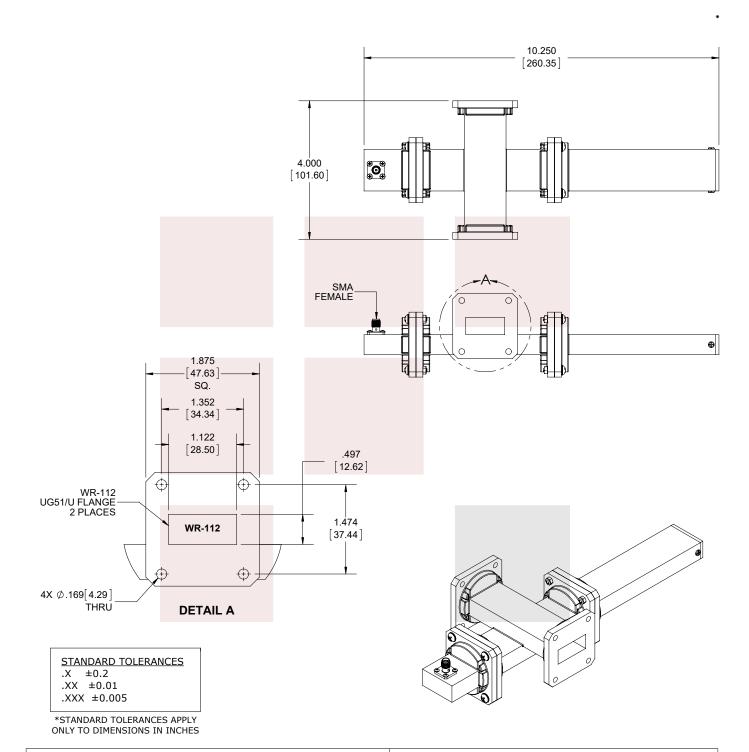
For additional information on this product, please click the following link: 50 dB WR-112 Waveguide Crossguide Coupler with UG-51/U Square Cover Flange and SMA Female Coupled Port from 7.05 GHz to 10 GHz in Bronze FMWCT1087

URL: https://www.fairviewmicrowave.com/50db-wr112-waveguide-crossguide-coupler-ug51-square-sma-10ghz-fmw-ct1087-p.aspx

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NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm]. FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM TITLE DWG NO CAGE CODE FMWCT1087 3FKR5 50 dB WR-112 Waveguide Crossguide Coupler with UG-51/U Square Cover Flange and SMA Female Coupled Port from 7.05 GHz to 10 GHz in Bronze CAD FILE 062817 SHEET SCALE N/A SIZE A 1 OF 1 9999