

# 20 dB WR-112 Waveguide Crossguide 3 Port Coupler with UG-51/U Square Cover Flange from 7.05 GHz to 10 GHz in Bronze

The FMWCT1028 is a 20 dB three port, terminated WR-112 crossguide waveguide coupler that operates in the frequency range of 7.05 to 10 GHz. The coupler has a typical VSWR of 1.05 These designs are made of Bronze with Brass UG-51/U Square Cover Flanges. Fairview offers a complete family of crossguide couplers in both three port (terminated) and four port (unterminated) configurations that are in stock and ship on the same day. Top wall couplers are also available.

## **Electrical Specifications**

Description	Min	Тур	Мах	Units
Frequency Range	7.05		10	GHz
Coupler				
Nominal Coupling Lev	rel	20		dB
Directivity		45		dB
Insertion Loss		0.1		dB
Main Line VSWR		1.05:1		
Termination				
VSWR		1.02		
Input Power (CW)			5	Watts

## **Mechanical Specifications**

Size Length Width	8.75 in [222.25 mm] 4 in [101.6 mm]
<b>Interface</b> Waveguide Size Flange Type Flange Designation Flange Material and Plating	WR-112 Square Cover UG-51/U Brass
Coupler Body Material and Plating Termination Body Material and Plating	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
- 7.05 GHz to 10 GHz Frequency Range
- Waveguide Body made of Bronze with Brass Flanges
- Low VSWR

# **Applications:**

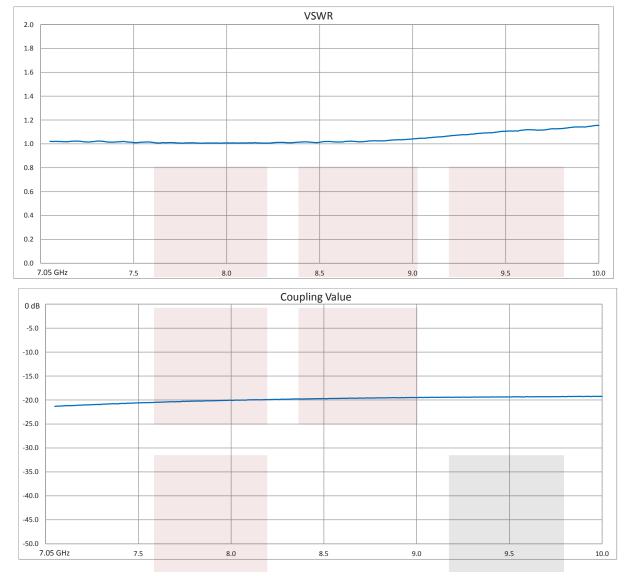
- Test Benches
- Radar
- Satellite
- Microwave Radio
- Attenuation Measurements
- Power Measurements
- Source Leveling

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





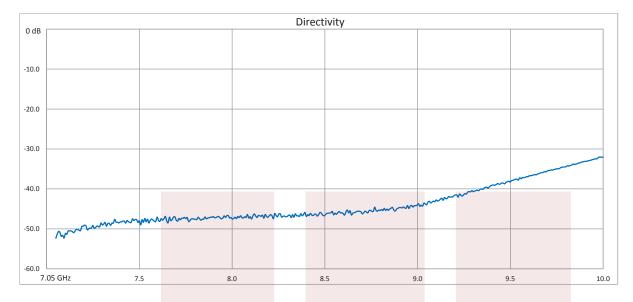
## **Typical Performance Data**



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20 dB WR-112 Waveguide Crossguide 3 Port Coupler with UG-51/U Square Cover Flange 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.

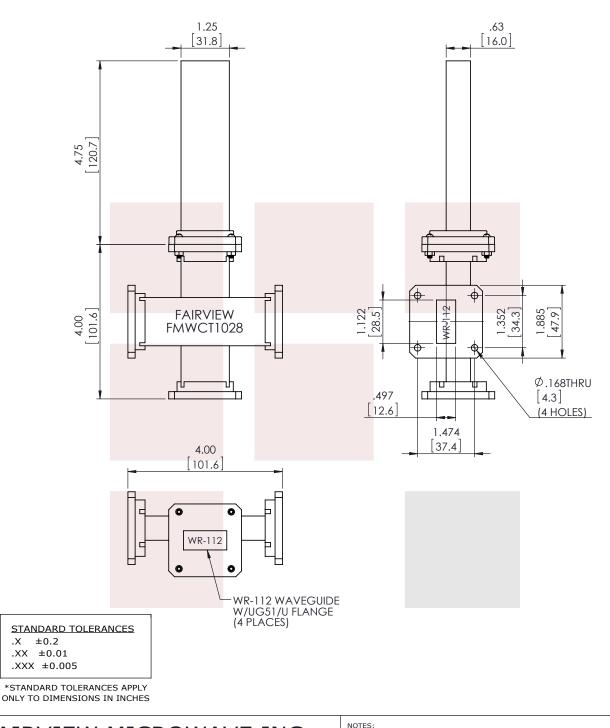
For additional information on this product, please click the following link: 20 dB WR-112 Waveguide Crossguide 3 Port Coupler with UG-51/U Square Cover Flange from 7.05 GHz to 10 GHz in Bronze FMWCT1028

URL: https://www.fairviewmicrowave.com/20-db-wr-112-waveguide-crossguide-coupler-ug51-square-3-port-fmwct1028-p.aspx

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# FAIRVIEW MICROWAVE INC.

 
 TITLE
 DWG NO

 20 dB WR-112 Waveguide Crossguide 3 Port Coupler with UG-51/U Square Cover Flange from 7.05 GHz to 10 GHz in Bronze
 CAD FILE 042617

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].								
dwg no FMWCT1028			CAGE CODE 3FKR5					
CAD FILE 042617	SHEET	SCALE N/A		SIZE A	0157			

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