



# 20 dB WR-90 Waveguide Crossguide 3 Port Coupler with CPR-90G Flange from 8.2 GHz to 12.4 GHz in Bronze

The FMWCT1024 is a 20 dB three port, terminated WR-90 crossguide waveguide coupler that operates in the frequency range of 8.2 to 12.4 GHz. The coupler has a typical VSWR of 1.05 These designs are made of Bronze with Brass CPR-90G 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	Max	Units	
Frequency Range	8.2		12.4	GHz	
Coupler					
Nominal Coupling Level		20		dB	
Directivity		25		dB	
Insertion Loss		0.1		dB	
Main Line VSWR		1.05:1			
Termination					
VSWR		1.02			
Input Power (CW)			4	Watts	

#### **Mechanical Specifications**

Size Length

 Length
 6.5 in [165.1 mm]

 Width
 3 in [76.2 mm]

Interface

Waveguide Size
Flange Type
Flange Material and Plating
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
- 8.2 GHz to 12.4 GHz Frequency Range
- Waveguide Body made of Bronze with Brass Flanges
- Low VSWR
- Grooved CPR

# **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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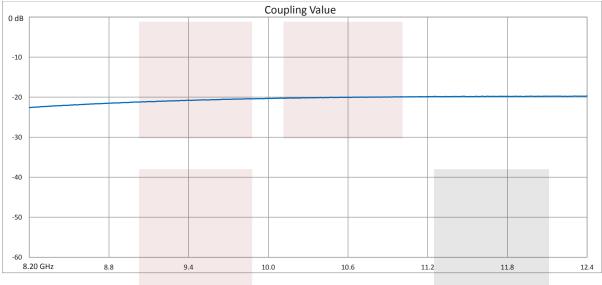
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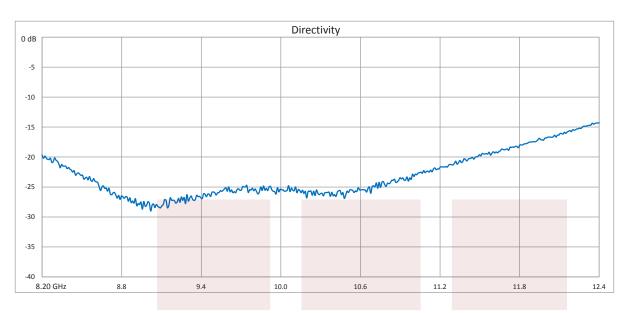


# **Typical Performance Data**









20 dB WR-90 Waveguide Crossguide 3 Port Coupler with CPR-90G Flange 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.

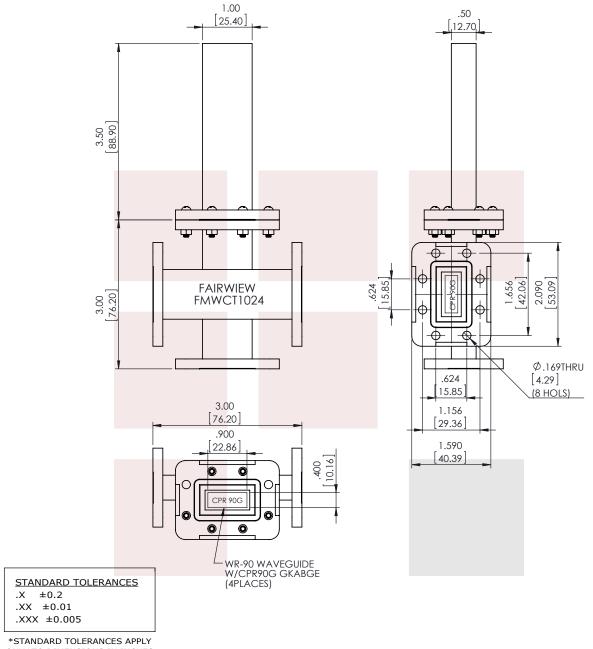
For additional information on this product, please click the following link: 20 dB WR-90 Waveguide Crossguide 3 Port Coupler with CPR-90G Flange from 8.2 GHz to 12.4 GHz in Bronze FMWCT1024

URL: https://www.fairviewmicrowave.com/20-db-wr-90-waveguide-crossguide-coupler-cpr-90g-3-port-fmwct1024-p.aspx

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ONLY TO DIMENSIONS IN INCHES

FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM	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].						
20 dB WR-90 Waveguide Crossguide 3 Port Coupler with CPR-90G Flange from 8.2 GHz to 12.4 GHz in Bronze	DWG NO FMWCT1024			CAGE CODE 3FKR5			
	CAD FILE 042617	SHEET	SCAL	E N/A	SIZE A	0157	