



30 dB WR-112 Directional Waveguide Broadwall Coupler With UG-51/U Square Cover Flange and E-Plane Coupled Port from 7.05 GHz to 10 GHz

The FMWCP1025 is a WR-112 Directional Broadwall waveguide coupler that operates in the frequency range of 7.05 to 10 GHz. This Waveguide component has a typical VSWR of 1.05:1. These designs are made of painted copper alloy and incorporate a broad wall configuration that result in a mid-band nominal coupling value of 10, 20, or 30 dB. Common applications for this component would be where power measurements are required within a system for measuring/sampling power or frequency monitoring with minimal signal loss to the main transmission line. Fairview Microwave offers a complete family of waveguide Crossguide and Broadwall couplers that are in-stock and ship same day.

Electrical Specifications*

Description	Min	Тур	Max	Units		
Frequency Range	7.05		10	GHz		
Directivity		40		dB		
Insertion Loss		dB				
Main Line VSWR	1.05:1					
Nominal Coupling Level		30		dB		

^{*} Values at 25°C, sea level

Mechanical Specifications

Size

Length

Height

Weight

Configuration

Design Size

Input Flange

Flange Type Flange Designation

Material Plating

Output Flange

Flange Type Flange Designation Material **Plating**

Coupled Flange(s)

Square Cover Flange Type Flange Designation UG-51/U Copper Alloy Material Silver Plating

Compliance Certifications (visit www.FairviewMicrowave.com for current

document)

RoHS Compliant **REACH Compliant**

12/17/2015

18.62 in [472.95 mm]

3.997 in [101.52 mm]

Directional E-Plane Broadwall

3.12 lbs [1.42 Kg]

WR-112

UG-51/U

Square Cover

Copper Alloy Silver

Square Cover

Copper Alloy Silver

UG-51/U

Features:

• Broadwall Waveguide Coupler

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- 30 dB Nominal Coupling Level
- 7.05 GHz to 10 GHz Frequency Range
- Body and Flanges made of Copper Alloy
- Low VSWR

Applications:

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

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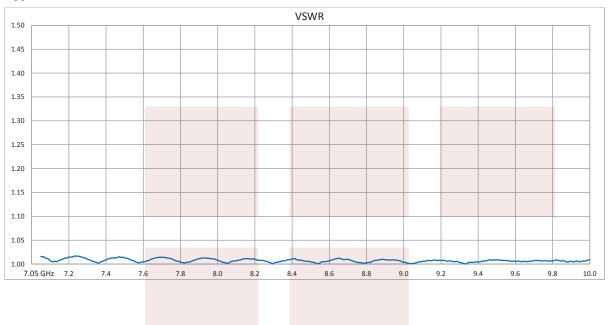


Plotted and Other Data

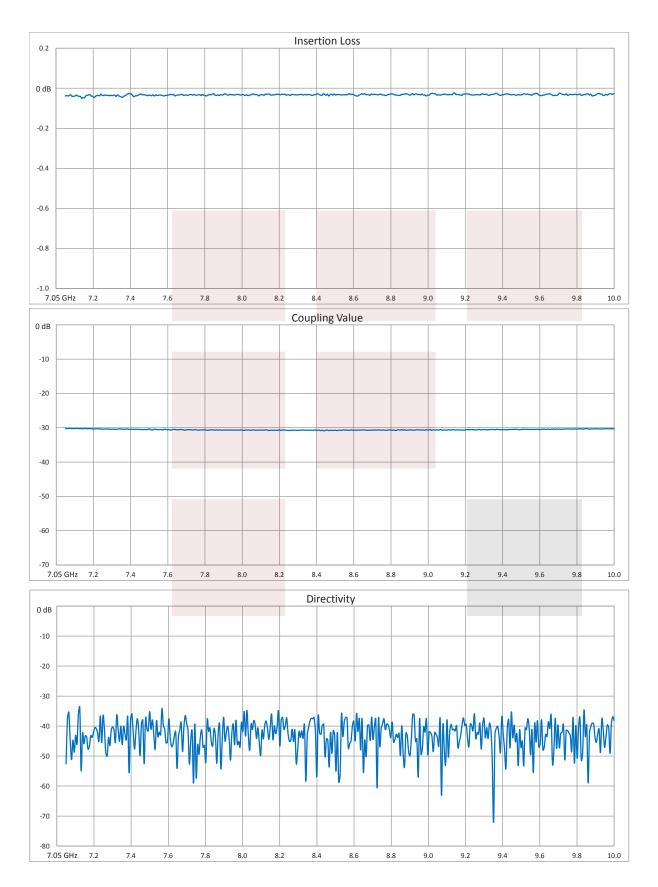
Notes:

• Values at 25 °C, sea level

Typical Performance Data











30 dB WR-112 Directional Waveguide Broadwall Coupler With UG-51/U Square Cover Flange and E-Plane Coupled Port from 7.05 GHz to 10 GHz 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 Directional Waveguide Broadwall Coupler With UG-51/U Square Cover Flange and E-Plane Coupled Port from 7.05 GHz to 10 GHz FMWCP1025

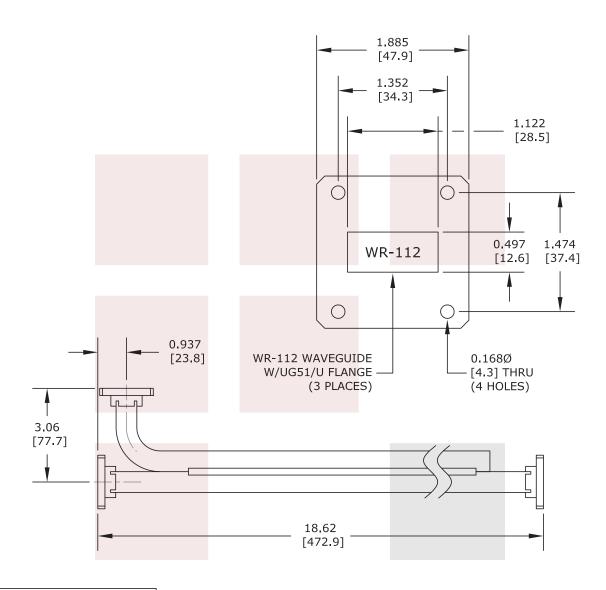
The information contained in this document is accurate to the best of our knowledge and representative of the part

URL: http://www.fairviewmicrowave.com/30-db-wr-112-directional-waveguide-broadwall-coupler-ug51-square-e-fmw-cp1025-p.aspx









st THESE DIMENSIONS AND TOLERANCES SUPERSEDE NOTE $\ \#1$ ON TITLE BLOCK.

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].					
30 dB WR-112 Directional Waveguide Broadwall Coupler With UG-51/U Square Cover Flange and E-Plane Coupled Port from 7.05 GHz to 10 GHz	DWG NO FMWCP1025			CAGE CODE 3FKR5		
	CAD FILE 041316	SHEET	SCALE	E N/A	SIZE A	2233