



10 dB WR-51 Directional Waveguide Broadwall Coupler With Square Cover Flange and E-Plane Coupled Port from 15 GHz to 22 GHz

The FMWCP1008 is a WR-51 Directional Broadwall waveguide coupler that operates in the frequency range of 15 to 22 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	15		22	GHz		
Directivity		35		dB		
Insertion Loss		dB				
Main Line VSWR	1.05:1					
Nominal Coupling Level		10		dB		

^{*} Values at 25°C, sea level

Mechanical Specifications

Size

Length

Height

Weight

Configuration

Design Size

Input Flange

Flange Type Material Plating

Output Flange

Flange Type Square Cover Material Copper Alloy Silver Plating

Coupled Flange(s)

Flange Type Square Cover Material Copper Alloy Plating Silver

Compliance Certifications (visit www.FairviewMicrowave.com for current

document)

RoHS Compliant REACH Compliant

12/17/2015

12 in [304.8 mm]

WR-51

Silver

Square Cover

Copper Alloy

2.776 in [70.51 mm]

0.8162 lbs [370.22 g]

Directional E-Plane Broadwall

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Features:

- Broadwall Waveguide Coupler
- 10 dB Nominal Coupling Level
- 15 GHz to 22 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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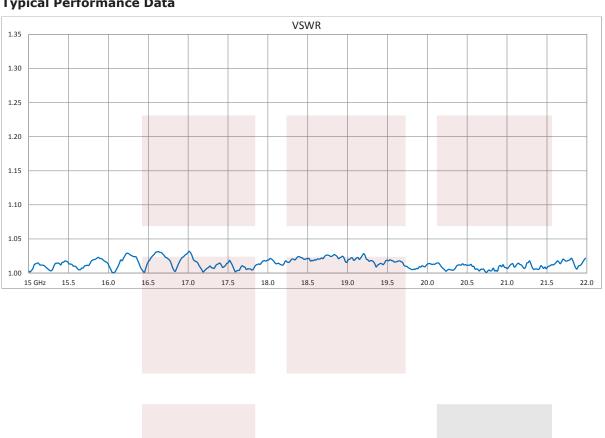


Plotted and Other Data

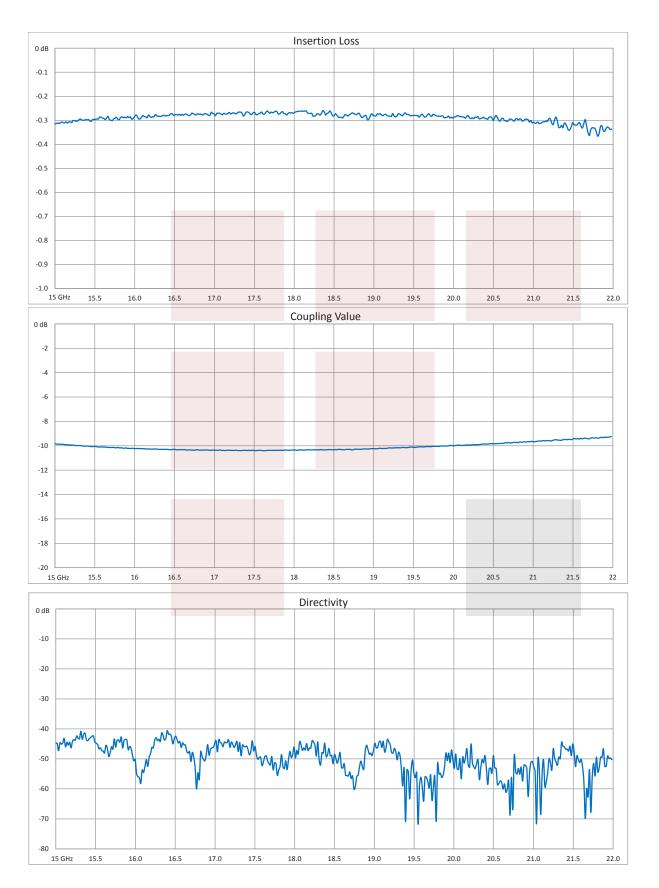
Notes:

• Values at 25 °C, sea level

Typical Performance Data











10 dB WR-51 Directional Waveguide Broadwall Coupler With Square Cover Flange and E-Plane Coupled Port from 15 GHz to 22 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.

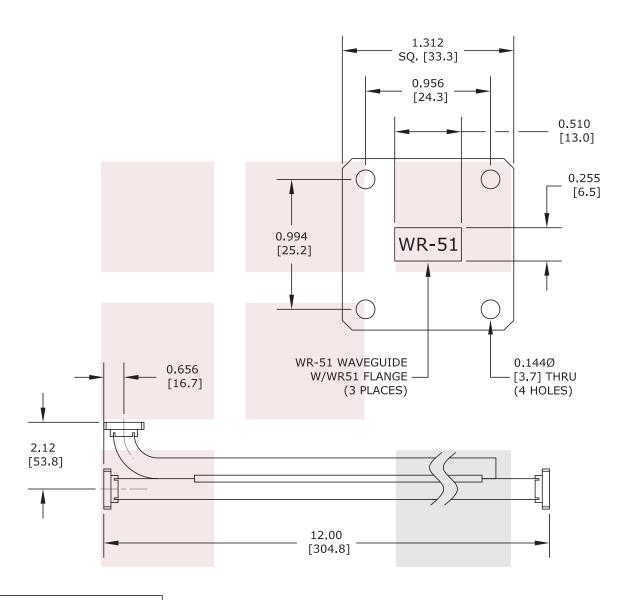
For additional information on this product, please click the following link: 10 dB WR-51 Directional Waveguide Broadwall Coupler With Square Cover Flange and E-Plane Coupled Port from 15 GHz to 22 GHz FMWCP1008

URL: https://www.fairviewmicrowave.com/10-db-wr-51-directional-waveguide-broadwall-coupler-square-e-fmwcp1008-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].							
10 dB WR-51 Directional Waveguide Broadwall Coupler With Square Cover Flange and E-Plane Coupled Port from 15 GHz to 22 GHz	DWG NO FMWCP1008			CAGE CODE 3FKR5				
	CAD FILE 051016	SHEET	SCALE	N/A	SIZE A	2233		