

FMWCP1015 DATA SHEET

20 dB WR-75 Directional Waveguide Broadwall Coupler With Square Cover Flange and E-Plane Coupled Port from 10 GHz to 15 GHz

The FMWCP1015 is a WR-75 Directional Broadwall waveguide coupler that operates in the frequency range of 10 to 15 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	10		15	GHz		
Directivity		40		dB		
Insertion Loss		dB				
Main Line VSWR	1.05:1					
Nominal Coupling Level		20		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

15 in [381 mm]

WR-75

Silver

Square Cover

Copper Alloy

3.25 in [82.55 mm]

1.588 lbs [720.3 g]

Directional E-Plane Broadwall



Features:

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

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





Plotted and Other Data

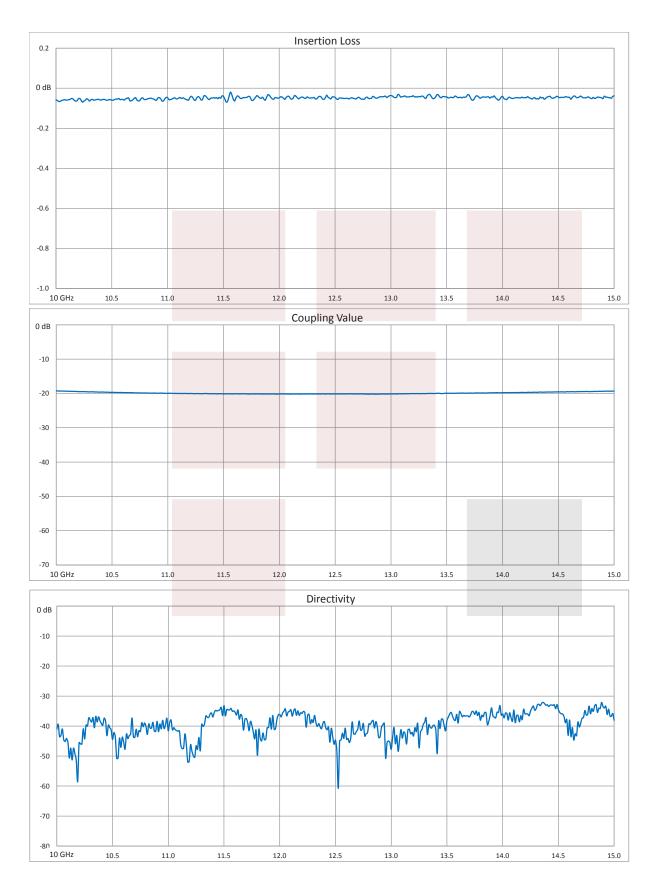
Notes:

• Values at 25 °C, sea level

Typical Performance Data











20 dB WR-75 Directional Waveguide Broadwall Coupler With Square Cover Flange and E-Plane Coupled Port from 10 GHz to 15 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.

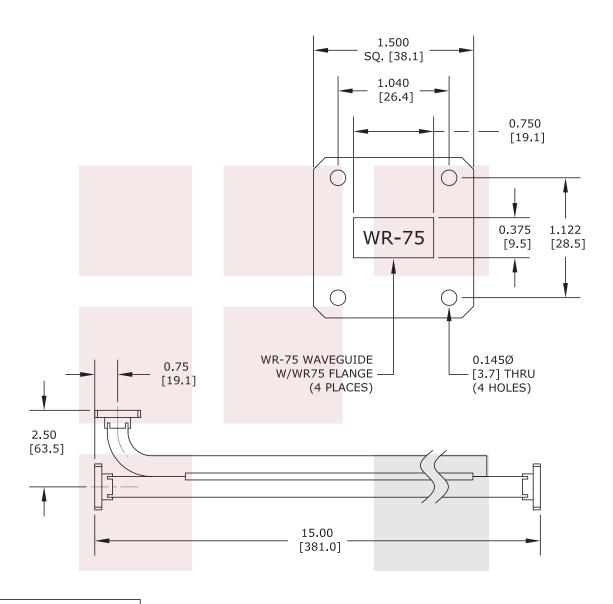
For additional information on this product, please click the following link: 20 dB WR-75 Directional Waveguide Broadwall Coupler With Square Cover Flange and E-Plane Coupled Port from 10 GHz to 15 GHz FMWCP1015

URL: http://www.fairviewmicrowave.com/20-db-wr-75-directional-waveguide-broadwall-coupler-square-e-fmwcp1015-p. aspx









^{*} 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].						
20 dB WR-75 Directional Waveguide Broadwall Coupler With Square Cover Flange and E-Plane Coupled Port from 10 GHz to 15 GHz	DWG NO FMWCP1015			CAGE CODE 3FKR5			
	CAD FILE 042816	SHEET	SCALE	N/A	SIZE A	2233	