



20 dB WR-90 Directional Waveguide Broadwall Coupler With CPR-90G Grooved Flange and E-Plane Coupled Port from 8.2 GHz to 12.4 GHz

The FMWCP1021 is a WR-90 Directional Broadwall waveguide coupler that operates in the frequency range of 8.2 to 12.4 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	8.2		12.4	GHz
Directivity		40		dB
Insertion Loss		0.15		dB
Main Line VSWR	1.05:1			
Nominal Coupling Level		20		dB

^{*} Values at 25°C, sea level

Mechanical Specifications

Size

Length 16.68 in [423.67 mm] Height 2.742 in [69.65 mm]

Configuration

Directional E-Plane Broadwall Design WR-90 Size

Input Flange

Flange Type CPR-90G Material Copper Alloy Plating Silver

Output Flange

CPR-90G Flange Type Material Copper Alloy Plating Silver

Coupled Flange(s)

Flange Type CPR-90G Material Copper Alloy Plating Silver

Compliance Certifications (visit www.FairviewMicrowave.com for current

document)

RoHS Compliant Yes

REACH Compliant 12/17/2015

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Features:

- Broadwall Waveguide Coupler
- 20 dB Nominal Coupling Level
- 8.2 GHz to 12.4 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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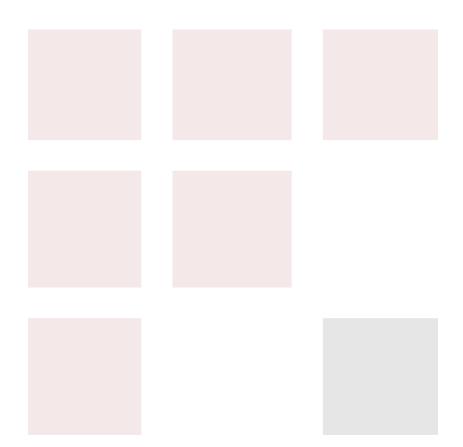


Plotted and Other Data

Notes:

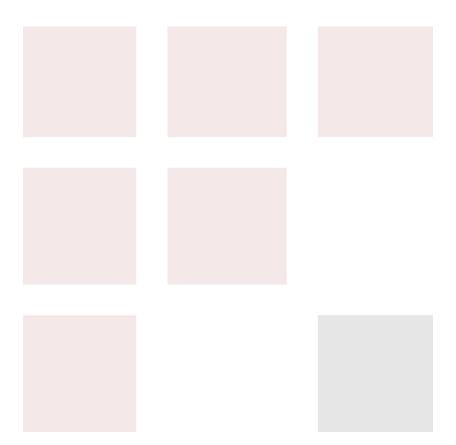
• Values at 25 °C, sea level

Typical Performance Data













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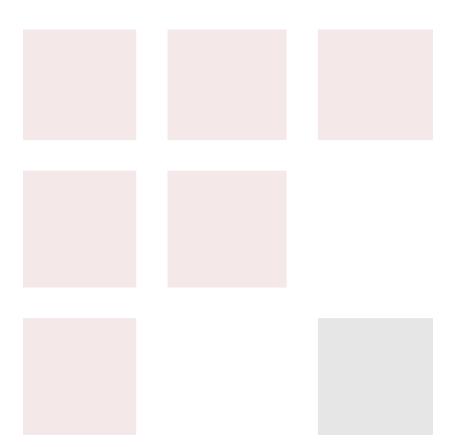
For additional information on this product, please click the following link: 20 dB WR-90 Directional Waveguide Broadwall Coupler With CPR-90G Grooved Flange and E-Plane Coupled Port from 8.2 GHz to 12.4 GHz FMWCP1021

URL: https://www.fairviewmicrowave.com/20-db-wr-90-directional-waveguide-broadwall-coupler-cpr-90g-grooved-e-fmw-cp1021-p.aspx

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