

50 dB WR-90 Waveguide Crossguide Coupler With CPR-90G Grooved Flange And 8.2 GHz to 12.4 GHz

The FMWCP1062 is a WR-90 crossguide 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 cross wall configuration that result in a mid-band nominal coupling value of 20, 30, 40 or 50 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. This WR-90 waveguide coupler uses grooved CPR-90 flanges. Fairview offers a complete family of waveguide Crossguide and Top wall couplers that are in-stock and ship same day.

Electrical Specifications*

Description	Min	Typ	Max	Units
Frequency Range	8.2		12.4	GHz
Directivity		10		dB
Insertion Loss		0.1		dB
Main Line VSWR		1.05:1		
Nominal Coupling Level		50		dB

* Values at 25°C, sea level

Mechanical Specifications

Size

Length	3 in [76.2 mm]
Width/Dia.	3 in [76.2 mm]
Weight	1.07 lbs [485.34 g]

Configuration

Design	None Crossguide
Size	WR-90
Waveguide Material and Plating	Copper Alloy, Silver

Input Flange

Flange Type	CPR-90G
Material	Copper Alloy
Plating	Silver

Output Flange

Flange Type	CPR-90G
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



Features:

- Crossguide Waveguide Coupler
- 50 dB Nominal Coupling Level
- 8.2 GHz to 12.4 GHz Frequency Range
- Body and Flanges made of Copper Alloy
- Low VSWR
- Grooved CPR

Applications:

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

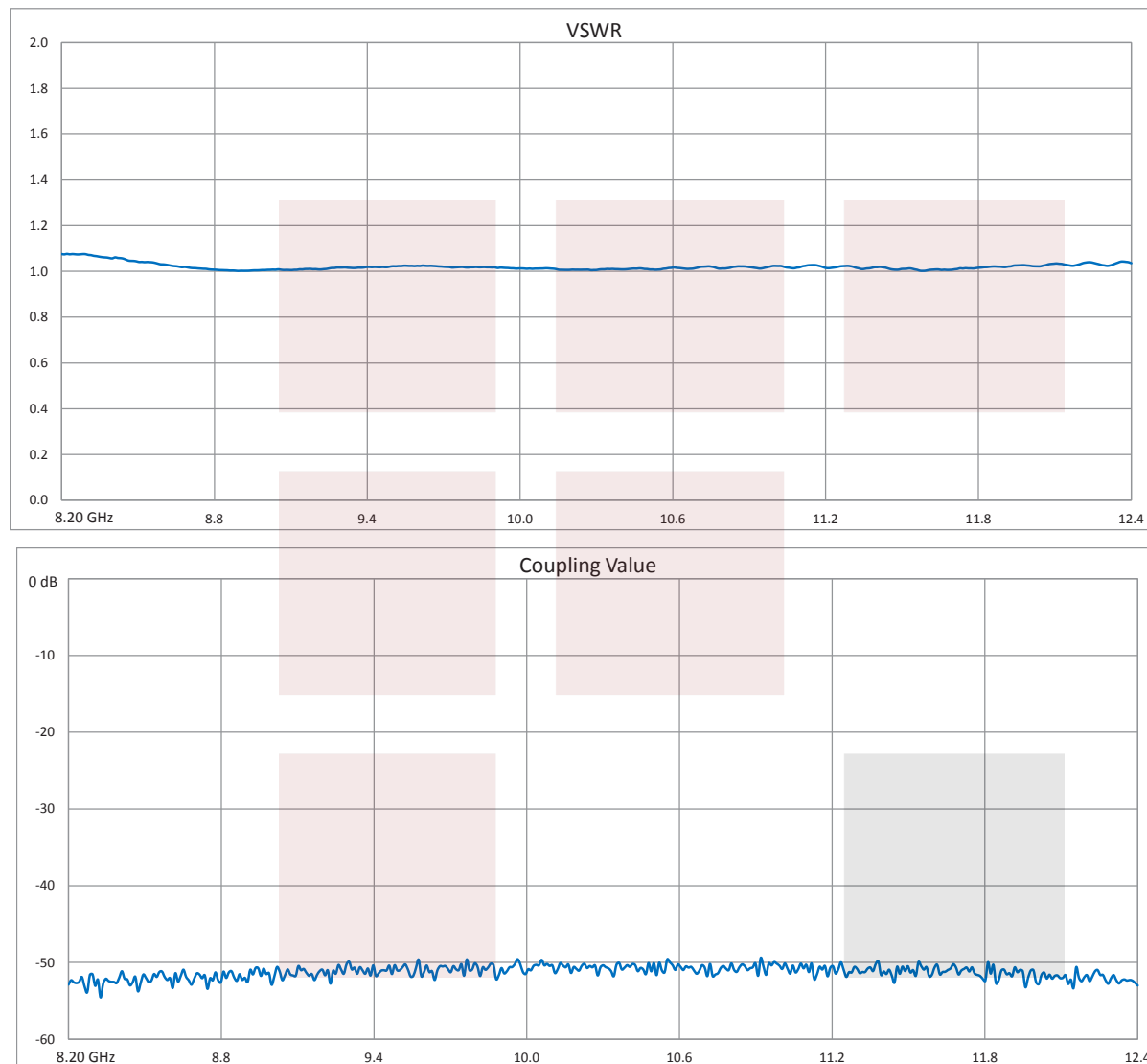
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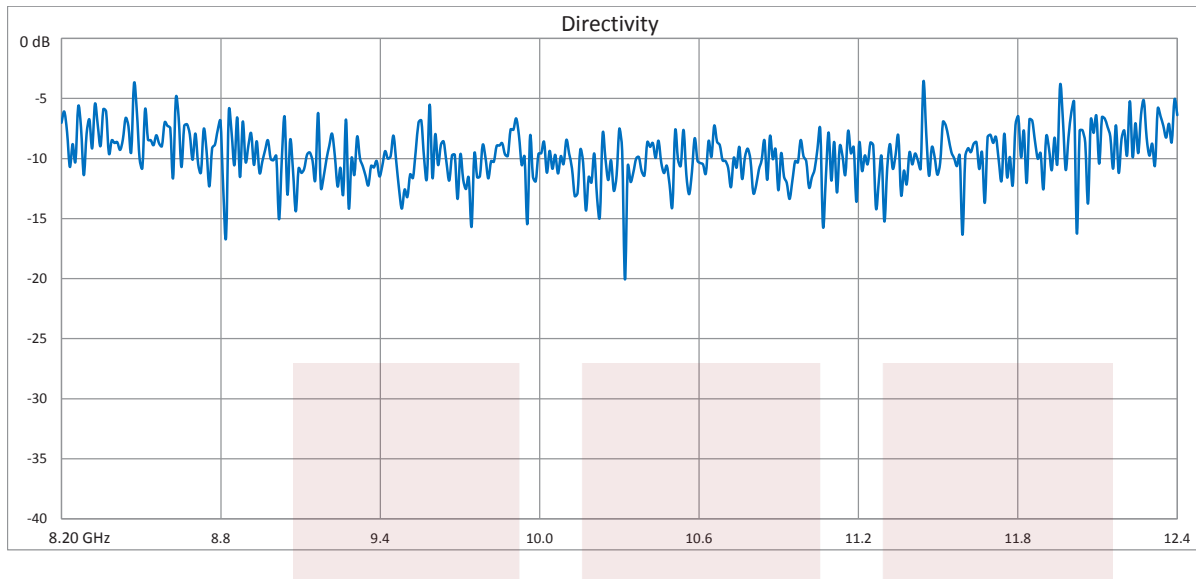
Plotted and Other Data

Notes:

- Values at 25 °C, sea level

Typical Performance Data



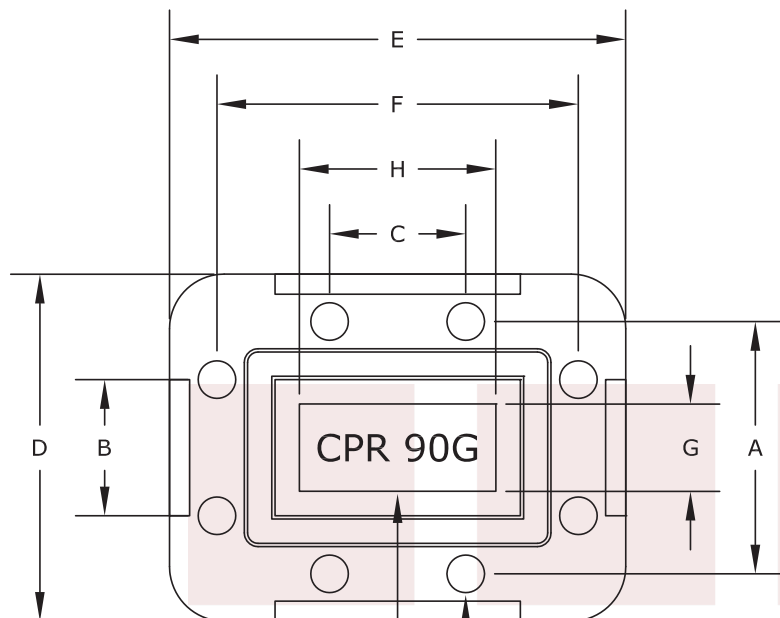


50 dB WR-90 Waveguide Crossguide Coupler With CPR-90G Grooved Flange And 8.2 GHz to 12.4 GHz from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

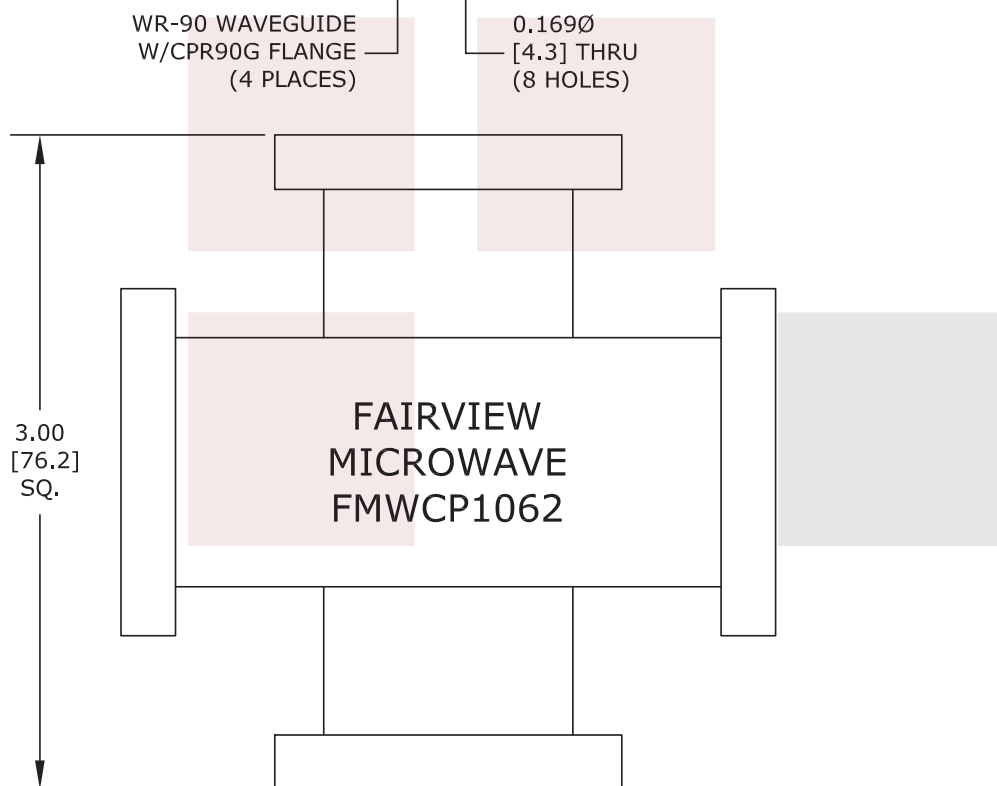
For additional information on this product, please click the following link: [50 dB WR-90 Waveguide Crossguide Coupler With CPR-90G Grooved Flange And 8.2 GHz to 12.4 GHz FMWCP1062](http://www.fairviewmicrowave.com/wr-90-50-db-waveguide-crossguide-coupler-grooved-cpr-90g-grooved-none-fmwcp1062-p.aspx)

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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.



CPR 90G		
Dimension	Inches	mm
A	1.156	29.36
B	0.624	15.84
C	0.624	15.84
D	1.590	40.39
E	2.090	53.09
F	1.656	42.06
G	0.400	10.16
H	0.900	22.86



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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].

TITLE

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DWG NO

FMWCP1062

CAGE CODE

3FKR5

CAD FILE

021816

SHEET

1

SCALE

N/A

SIZE

A

2233