

**20 dB WR-137 Waveguide Crossguide Coupler With
 CPR-137G Grooved Flange And 5.85 GHz to 8.2 GHz**

The FMWCP1075 is a WR-137 crossguide waveguide coupler that operates in the frequency range of 5.85 to 8.2 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-137 waveguide coupler uses grooved CPR-137 flanges. Fairview offers a complete family of waveguide Crossguide and Top wall couplers that are in-stock and ship same day.



Features:

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

Electrical Specifications*

Description	Min	Typ	Max	Units
Frequency Range	5.85		8.2	GHz
Directivity		20		dB
Insertion Loss		0.1		dB
Main Line VSWR		1.05:1		
Nominal Coupling Level		20		dB

* Values at 25°C, sea level

Applications:

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

Mechanical Specifications

Size	
Length	5 in [127 mm]
Width/Dia.	5 in [127 mm]
Weight	2.01 lbs [911.72 g]
Configuration	
Design	None Crossguide
Size	WR-137
Waveguide Material and Plating	Copper Alloy, Silver
Input Flange	
Flange Type	CPR-137G
Material	Copper Alloy
Plating	Silver
Output Flange	
Flange Type	CPR-137G
Material	Copper Alloy
Plating	Silver
Coupled Flange(s)	
Flange Type	CPR-137G
Material	Copper Alloy
Plating	Silver

Compliance Certifications (visit www.FairviewMicrowave.com for current document)

RoHS Compliant	Yes
REACH Compliant	12/17/2015

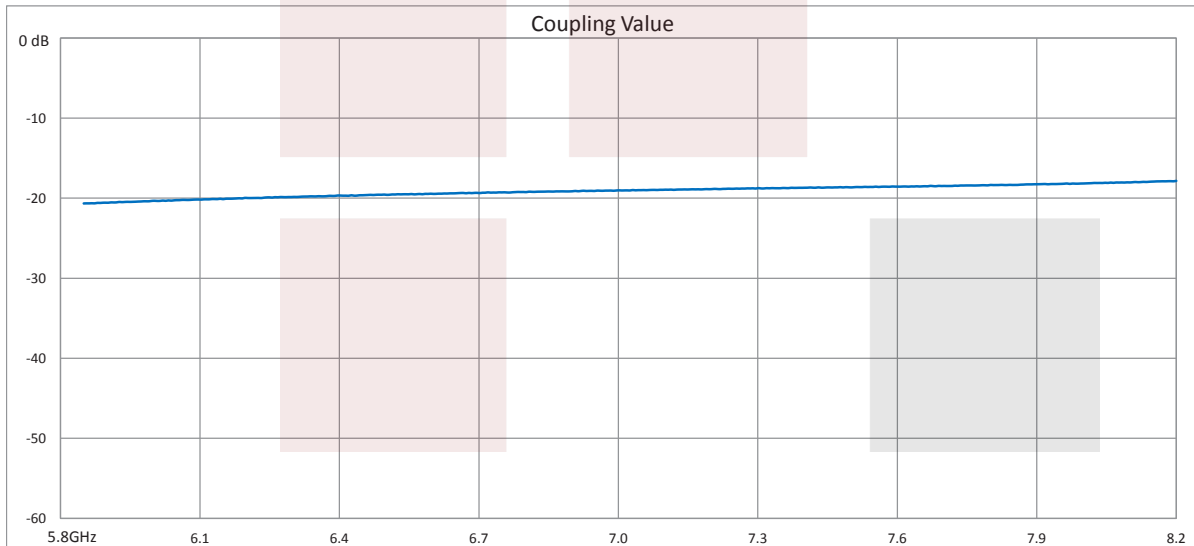
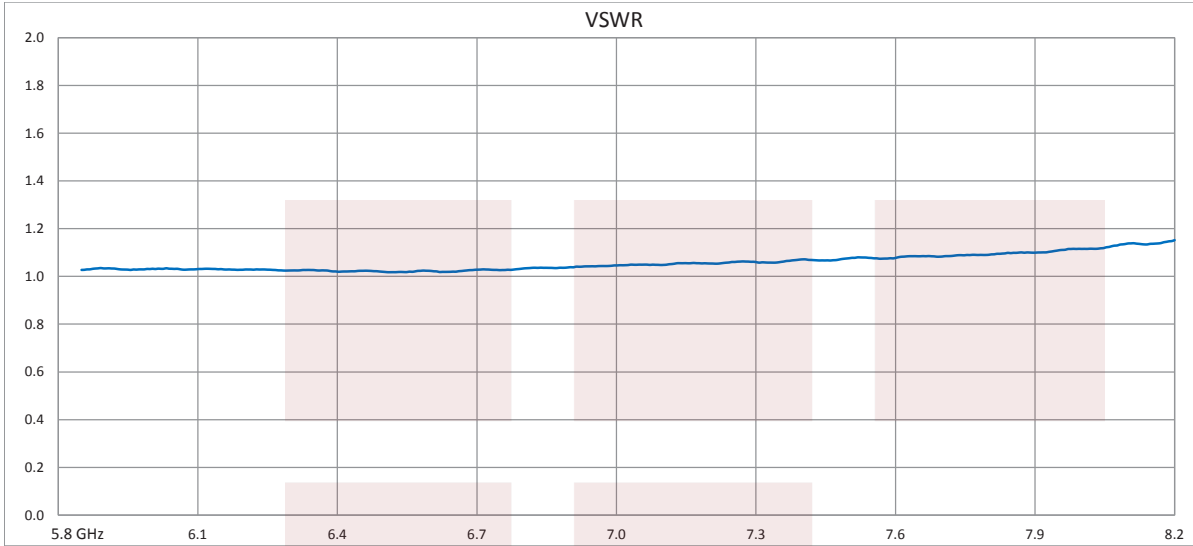
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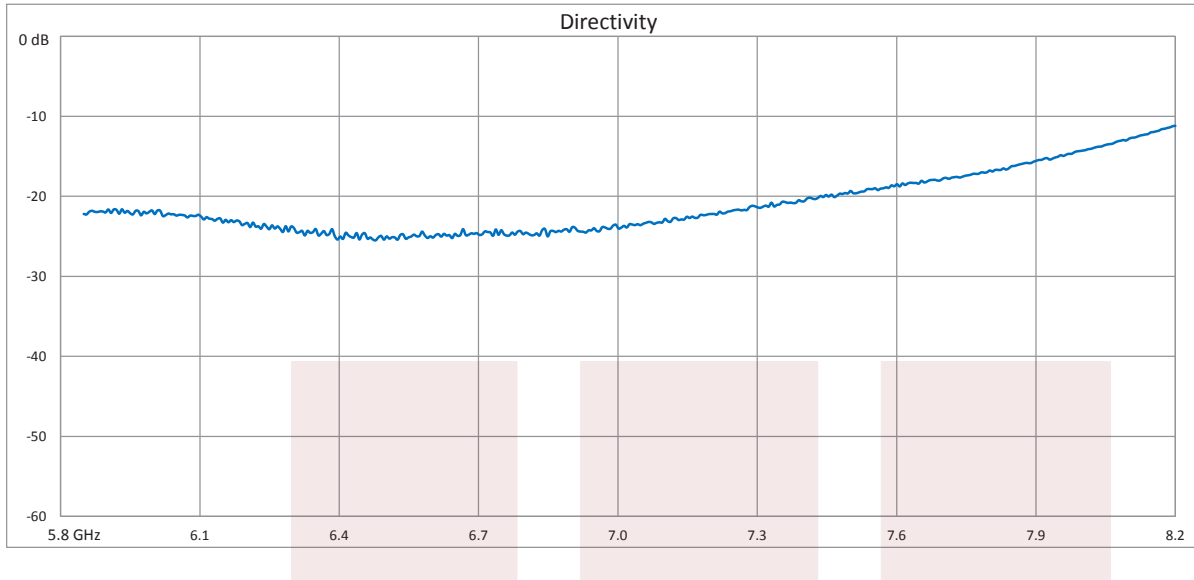
Plotted and Other Data

Notes:

- Values at 25 °C, sea level

Typical Performance Data



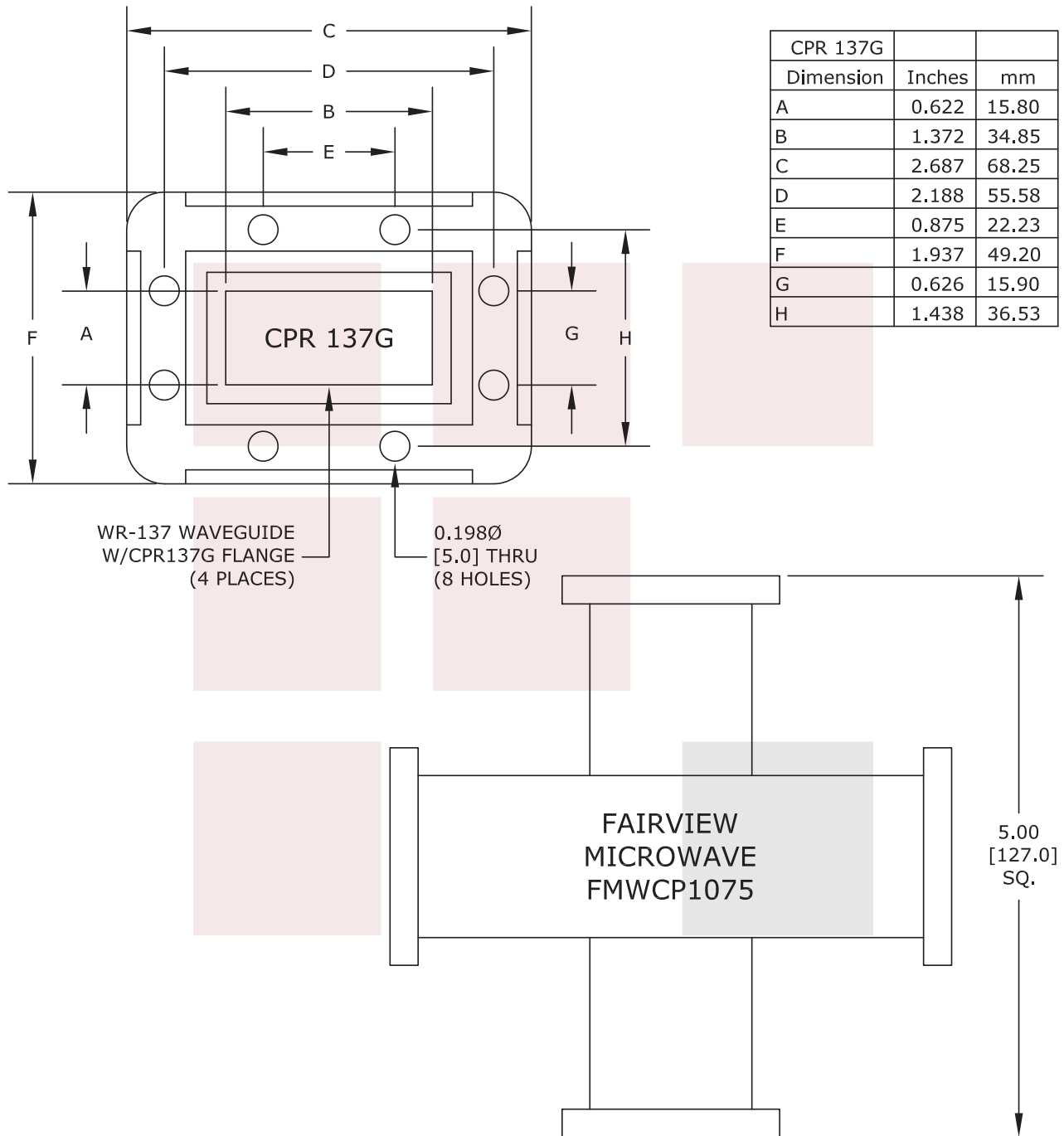


20 dB WR-137 Waveguide Crossguide Coupler With CPR-137G Grooved Flange And 5.85 GHz to 8.2 GHz from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [20 dB WR-137 Waveguide Crossguide Coupler With CPR-137G Grooved Flange And 5.85 GHz to 8.2 GHz FMWCP1075](http://www.fairviewmicrowave.com/wr-137-20-db-waveguide-crossguide-coupler-grooved-cpr-137g-grooved-none-fmwcp1075-p.aspx)

URL: <http://www.fairviewmicrowave.com/wr-137-20-db-waveguide-crossguide-coupler-grooved-cpr-137g-grooved-none-fmwcp1075-p.aspx>

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 137G		
Dimension	Inches	mm
A	0.622	15.80
B	1.372	34.85
C	2.687	68.25
D	2.188	55.58
E	0.875	22.23
F	1.937	49.20
G	0.626	15.90
H	1.438	36.53

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].			
TITLE 20 dB WR-137 Waveguide Crossguide Coupler With CPR-137G Grooved Flange And 5.85 GHz to 8.2 GHz		DWG NO FMWCP1075		CAGE CODE 3FKR5	
CAD FILE	030916	SHEET	SCALE	N/A	SIZE A 2233