

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

The FMWCP1077 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.

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		40		dB

* Values at 25°C, sea level

Mechanical Specifications

Size

Length	5 in [127 mm]
Width/Dia.	5 in [127 mm]
Weight	2.02 lbs [916.26 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



Features:

- Crossguide Waveguide Coupler
- 40 dB Nominal Coupling Level
- 5.85 GHz to 8.2 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

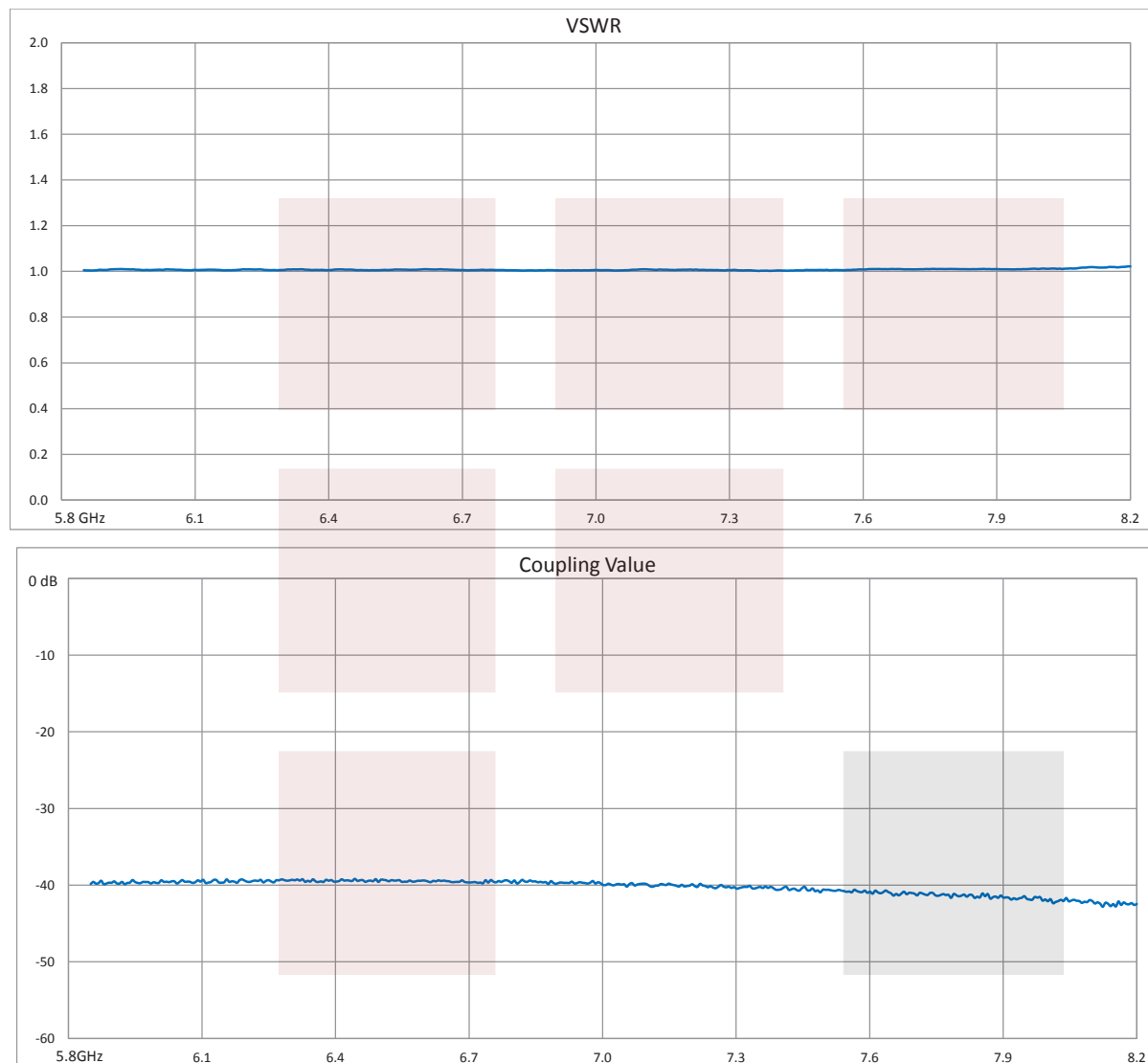
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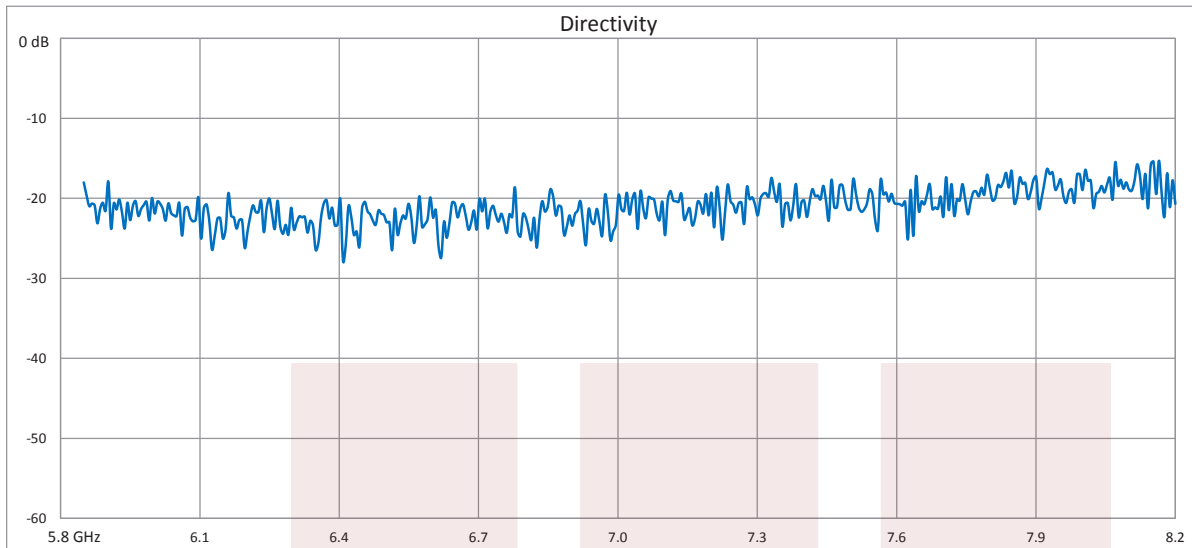
Plotted and Other Data

Notes:

- Values at 25 °C, sea level

Typical Performance Data



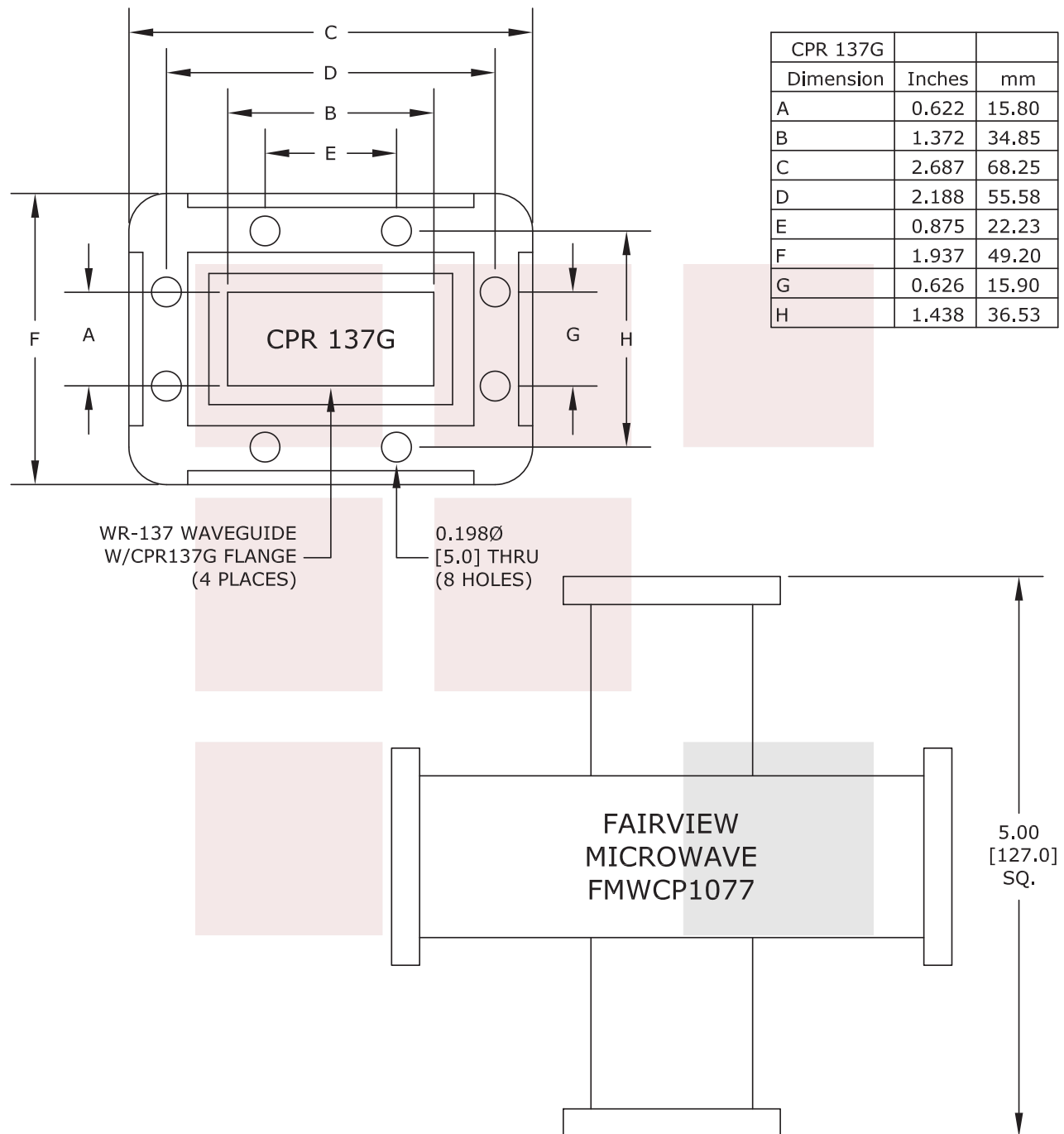


40 dB WR-137 Waveguide Crossguide Coupler With CPR-137G Grooved Flange And 5.85 GHz to 8.2 GHz from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave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

For additional information on this product, please click the following link: [40 dB WR-137 Waveguide Crossguide Coupler With CPR-137G Grooved Flange And 5.85 GHz to 8.2 GHz FMWCP1077](http://www.fairviewmicrowave.com/wr-137-40-db-waveguide-crossguide-coupler-grooved-cpr-137g-grooved-none-fmwcp1077-p.aspx)

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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		FMWCP1077		CAGE CODE		3FKR5	
CAD FILE	030916	SHEET		SCALE	N/A	SIZE	A 2233