

## FMWCP1078 DATA SHEET

# 50 dB WR-137 Waveguide Crossguide Coupler with CPR-137G Flange from 5.85 GHz to 8.2 GHz in Copper Alloy

The FMWCP1078 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 maintransmission 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	Тур	Max	Units
Frequency Range	5.85		8.2	GHz
Coupler				
Nominal Coupling Lev	el	50		dB
Directivity		10		dB
Insertion Loss		0.1		dB
Main Line VSWR		1.05:1		
Termination				

#### **Mechanical Specifications**

 Size
 5 in [127 mm]

 Width
 5 in [127 mm]

 Weight
 2.02 lbs [916.26 g]

 Interface
 Waveguide Size

 WR-137

Flange Type CPR-137G
Flange Material and Plating Copper Alloy

Coupler Body Material and Plating Copper Alloy

## **Environmental Specifications**

**Compliance Certifications** (see product page for current document)

#### **Plotted and Other Data**

Notes:



#### **Features:**

- Crossguide Waveguide Coupler
- 50 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

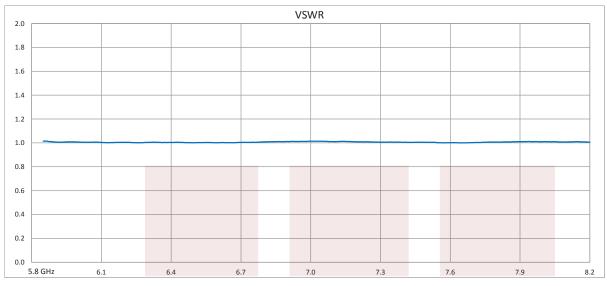
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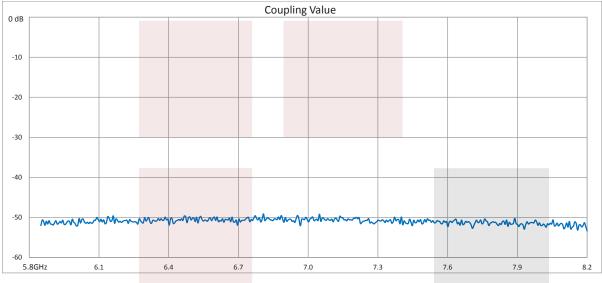
sales@fairviewmicrowave.com





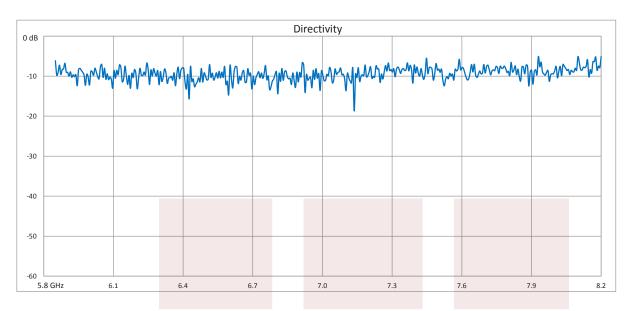
#### **Typical Performance Data**











50 dB WR-137 Waveguide Crossguide Coupler with CPR-137G Flange from 5.85 GHz to 8.2 GHz in Copper Alloy 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 Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: 50 dB WR-137 Waveguide Crossguide Coupler with CPR-137G Flange from 5.85 GHz to 8.2 GHz in Copper Alloy FMWCP1078

URL: https://www.fairviewmicrowave.com/50-db-wr-137-waveguide-crossguide-coupler-cpr-137g-grooved-fmwcp1078-p. aspx

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