



30 dB WR-137 Waveguide Crossguide Coupler with CPR-137G Flange and SMA Female Coupled Port from 5.85 GHz to 8.2 GHz in Bronze

The FMWCT1105 is a 30 dB WR-137 four port crossguide coupler with one coupled port terminated (making it a three port coupler) and a coax adapter on the opposite coupled port. This coupler can be mounted directly into the waveguide signal path, connected via coax to allow signal sampling / monitoring. The coupler has a typical VSWR of 1.05:1 and are made of bronze with brass CPR-137G flanges. The FMWCT1105 is part of a family of cross guide couplers offered by Fairview with coupling values ranging from 20 to 50 dB. There is also a full family of top wall (broad wall) couplers. For the three port version of this coupler (terminated but no coax adapter) please see the FMWCT1041. For the four port version of this coupler (no termination, no coax adapter) please see the FMWCP1076.

Electrical Specifications

Description	Min	Тур		Max	Units	
Frequency Range	5.85			8.2	GHz	
Impedance			50		Ohms	
Coupler						
Nominal Coupling Lev	el		30		dB	
Directivity			20		dB	
Insertion Loss			0.1		dB	
Main Line VSWR		1.	05:1			
Termination						
Input Power (CW)				6	Watts	

Waveguide to Coax Ac	lapters	
VSWR	1	.25:1

Mechanical Specifications

Interface

Waveguide Size WR-137
Flange Type CPR-137G
Flange Material and Plating Brass
RF Connector Type SMA Female

Coupler Body Material and Plating Bronze
Termination Body Material and Plating Bronze

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

MAND. CV⊖

Features:

- Three Port
- Crossguide Waveguide Coupler
- Terminated
- 30 dB Nominal Coupling Level
- SMA Female Coax Adapter
- 5.85 GHz to 8.2 GHz Frequency Range
- Waveguide Body made of Bronze with Brass Flanges
- Low VSWR

Applications:

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

Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013

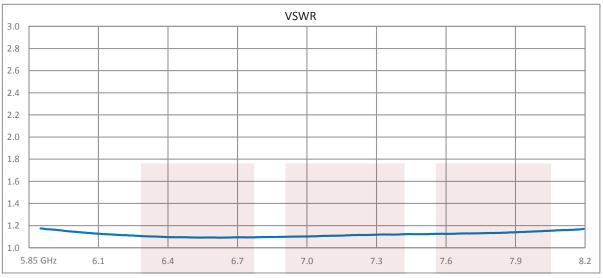
Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689

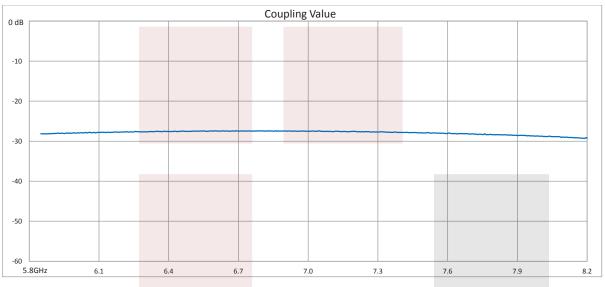
www.fairviewmicrowave.com sales@fairviewmicrowave.com



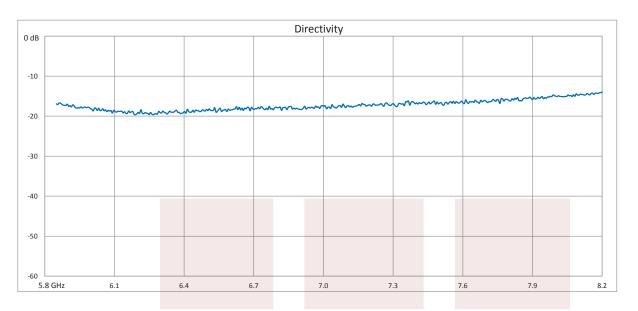


Typical Performance Data









30 dB WR-137 Waveguide Crossguide Coupler with CPR-137G Flange and SMA Female Coupled Port from 5.85 GHz to 8.2 GHz in Bronze 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.

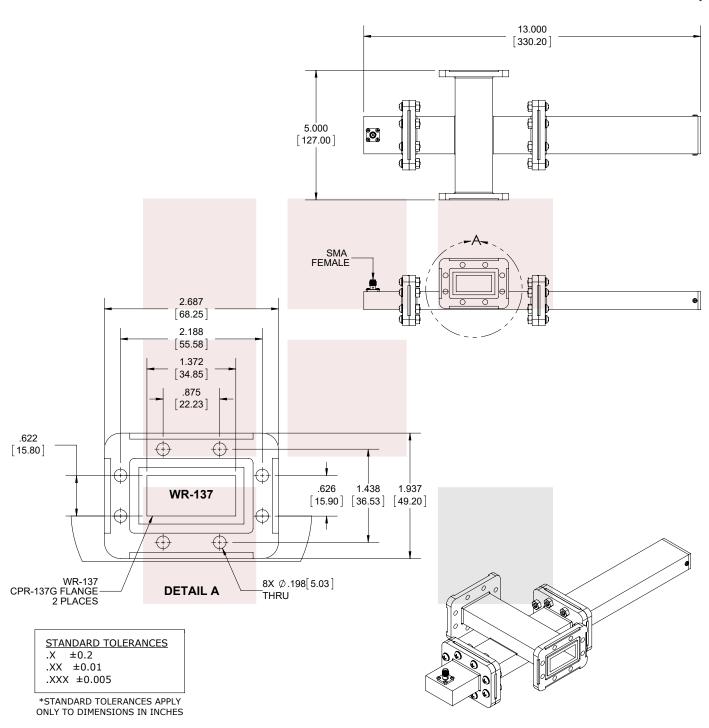
For additional information on this product, please click the following link: 30 dB WR-137 Waveguide Crossguide Coupler with CPR-137G Flange and SMA Female Coupled Port from 5.85 GHz to 8.2 GHz in Bronze FMWCT1105

URL: https://www.fairviewmicrowave.com/30db-wr137-waveguide-crossguide-coupler-cpr-137g-sma-8.2ghz-fmwct1105-p.aspx

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	CAD FILE 062817	SHEET 1 OF 1	SCAL	E N/A	SIZE A	9999	