

**WR-137 to SMA Female Waveguide to Coax Adapter
 CPR-137G Grooved Flange With 5.85 GHz to 8.2 GHz
 Frequency Range For C Band**

The FMWCA1015 is a waveguide to coaxial adapter operating in the C Band with a 5.85 to 8.2 GHz frequency range. This adapter offers a WR-137 waveguide interface size using a Grooved CPR-137G Flange. The FMWCA1015 is constructed of Copper Alloy and painted to ensure durability. The coaxial connector offered by this adapter uses a SMA Female Nickel Plated Brass Connector.

Configuration

Waveguide Size	WR-137
Flange	CPR-137G
RF Connector	SMA Female
Impedance	50 Ohms
Body Geometry	Right Angle

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	5.85		8.2	GHz
VSWR		1.25:1		

Mechanical Specifications

Weight 0.4795 lbs [217.5 g]

RF Connector

Connector Type SMA Female
 Body Material and Plating Brass, Nickel

Waveguide Interface

Waveguide Type WR-137
 Flange Type CPR-137G
 Body Material and Plating Copper, Paint

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

- Values at +25 °C, sea level unless stated otherwise



Features:

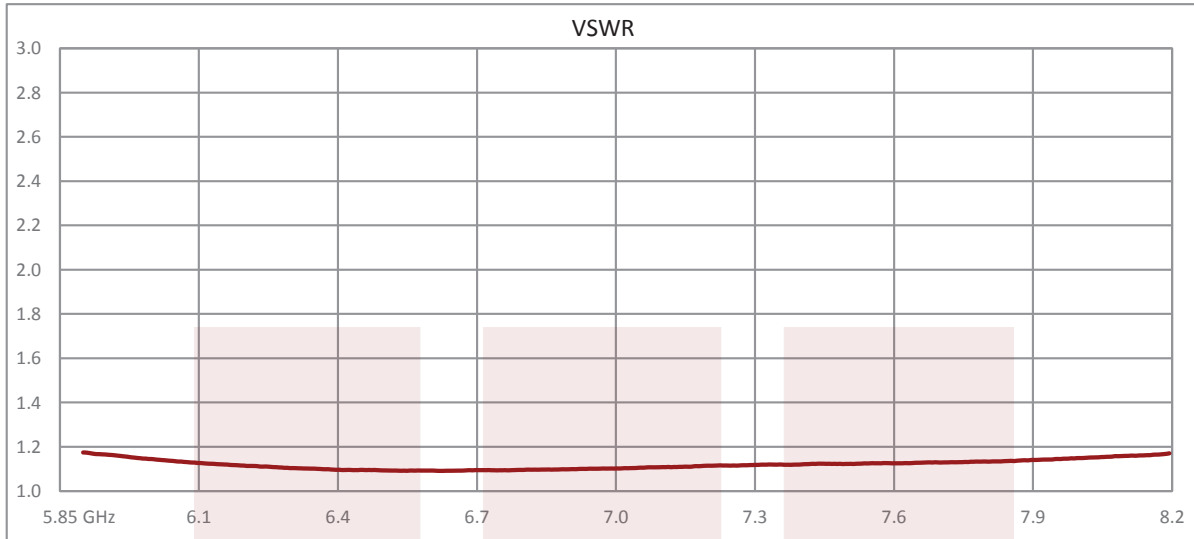
- C Band
- 5.85 to 8.2 GHz Frequency Range
- WR-137 Waveguide Interface
- Grooved CPR-137G Flange
- SMA Female RF Interface

Applications:

- Test Benches
- Radar
- Satellite
- Microwave Radio Systems
- Military and Space
- Communication Systems

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Typical Performance Data

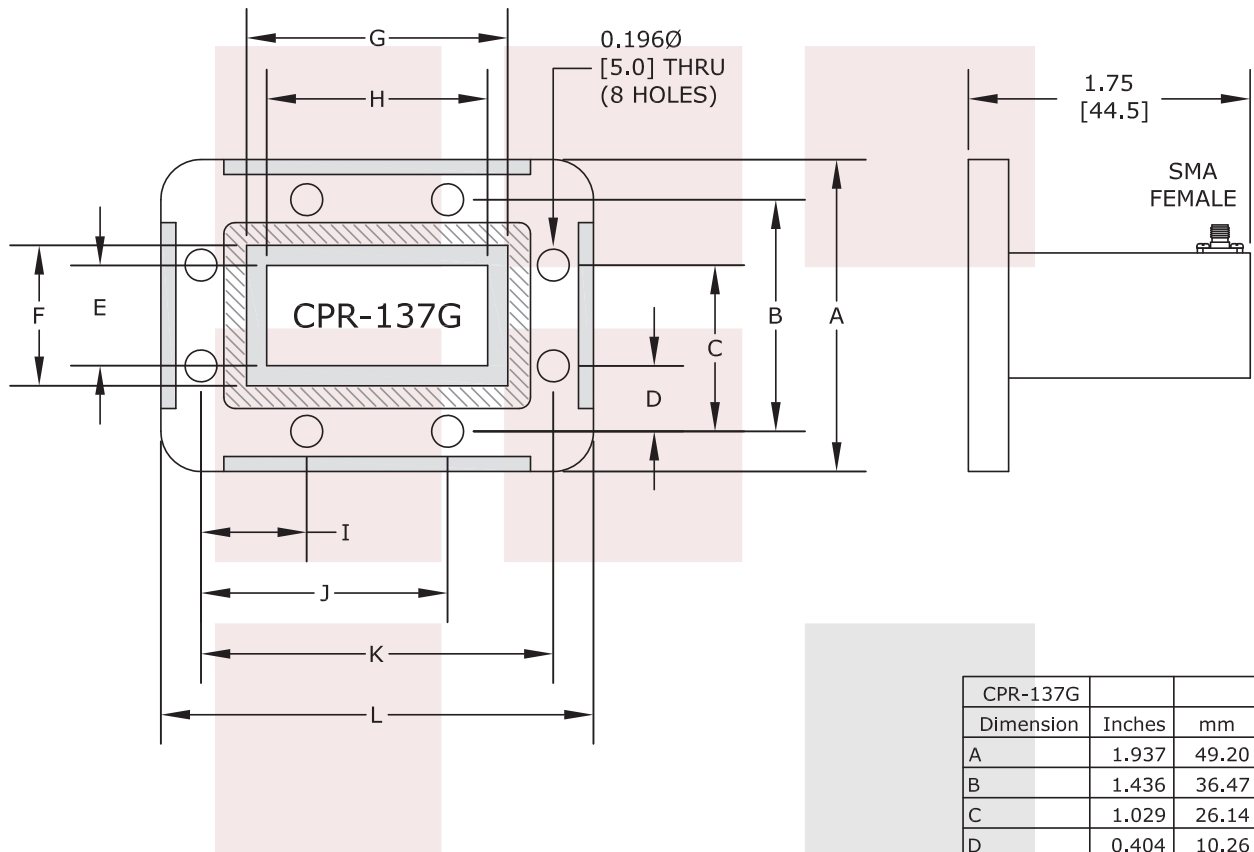


WR-137 to SMA Female Waveguide to Coax Adapter CPR-137G Grooved Flange With 5.85 GHz to 8.2 GHz Frequency Range For C Band from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-137 to SMA Female Waveguide to Coax Adapter CPR-137G Grooved Flange With 5.85 GHz to 8.2 GHz Frequency Range For C Band FMWCA1015](#)

URL: <https://www.fairviewmicrowave.com/wr-137-sma-female-waveguide-coax-adapter-cpr-137g-grooved-8.2-ghz-fmw-ca1015-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	1.937	49.20
B	1.436	36.47
C	1.029	26.14
D	0.404	10.26
E	0.622	15.80
F	0.872	22.15
G	1.622	41.20
H	1.372	34.85
I	0.654	16.61
J	1.529	38.84
K	2.186	55.52
L	2.687	68.25

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES.

DECIMALS	ANGLES
.X ±.030	±1/2 DEG.
.XX ±.015	FRACTIONS
.XXX ±.005	±1/32

* THESE DIMENSIONS AND TOLERANCES
 SUPERSEDE NOTE #1 ON TITLE BLOCK.

FAIRVIEW MICROWAVE INC.		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].			
ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM		DWG NO		CAGE CODE	
TITLE WR-137 to SMA Female Waveguide to Coax Adapter CPR-137G Grooved Flange With 5.85 GHz to 8.2 GHz Frequency Range For C Band		FMWCA1015		3FKR5	
		CAD FILE	092316	SHEET	SCALE
				SIZE	A
					2233