



WR-137 CPR-137G Grooved Flange to SMA Female Waveguide to Coax Adapter Operating From 5.85 GHz to 8.2 GHz, C Band

Waveguide to Coax Adapters Technical Data Sheet

PEWCA1015

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

Description

The PEWCA1015 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 PEWCA1015 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	Minimum	Typical	Maximum	Units
Frequency Range	5.85		8.2	GHz
VSWR		1.25:1		

Mechanical Specifications

Weight	0.478 lbs [216.82 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 Alloy, Paint

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-137 CPR-137G Grooved Flange to SMA Female Waveguide to Coax Adapter Operating From 5.85 GHz to 8.2 GHz, C Band PEWCA1015](#)



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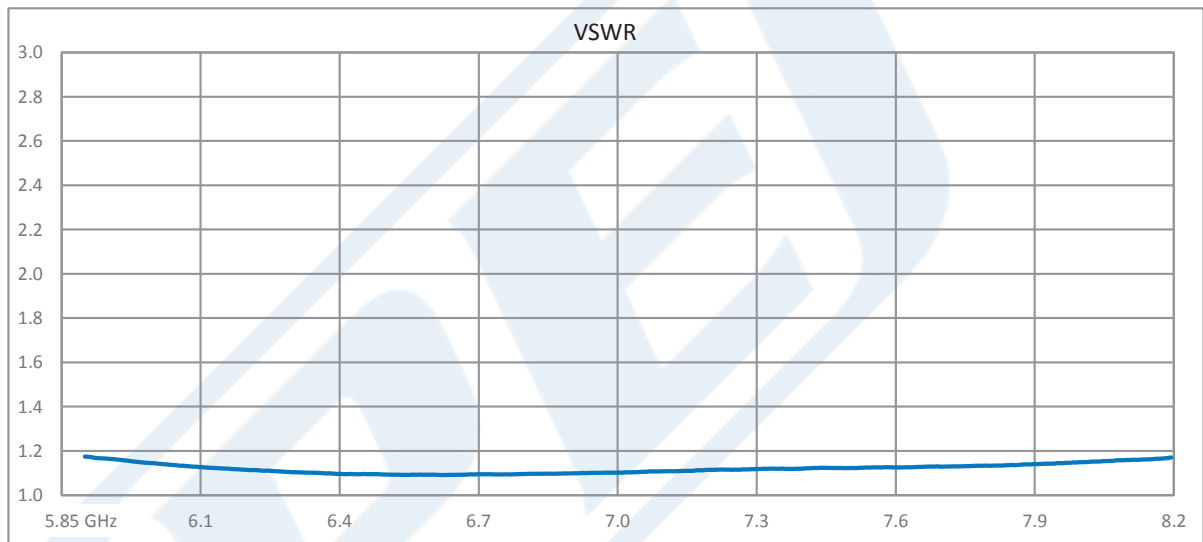
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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

Typical Performance Data



WR-137 CPR-137G Grooved Flange to SMA Female Waveguide to Coax Adapter Operating From 5.85 GHz to 8.2 GHz, C Band from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

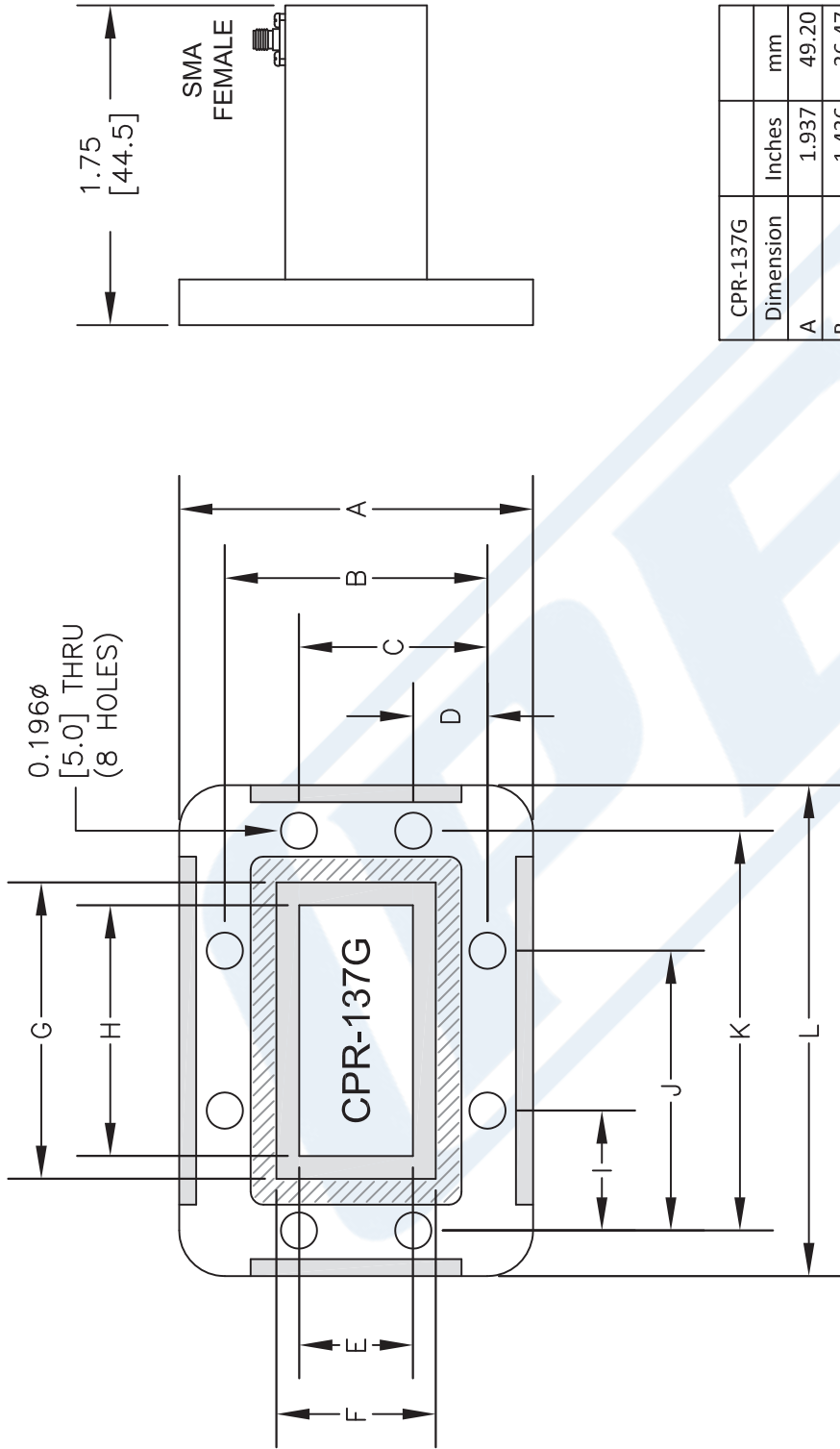
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URL: <https://www.pasternack.com/wr-137-cpr-137g-grooved-sma-female-waveguide-coax-adapter-8.2-ghz-pewca1015-p.aspx>

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. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PEWCA1015 CAD Drawing

WR-137 CPR-137G Grooved Flange to SMA Female Waveguide to Coax Adapter Operating From 5.85 GHz to 8.2 GHz, C Band



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.

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].

DWG TITLE
PEWCA1015

FSCM NO. 53919

CAD FILE 092316

SCALE N/A

SIZE A

2233

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