



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

### Waveguide to Coax Adapters Technical Data Sheet

PE9838

#### Features

- C Band, 5.85 to 8.2 GHz Frequency Range
- WR-137 Waveguide Interface with CPR-137G Flange
- N Female Coaxial Interface
- Comprehensive waveguide offerings also include E-Bends, H-Bends, Sections, Filters, Terminations, Couplers, and more.

#### Description

The PE9838 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 coupled with a precision tolerance CPR-137G flange. The PE9838 is constructed of aluminum to ensure durability and repeatable RF performance. The coaxial connector offered by this adapter uses a N type Female connector and the package is REACH and RoHS compliant.

#### Configuration

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

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	5.85		8.2	GHz
VSWR			1.3:1	
Input Power (Peak)			300	Watts

#### Mechanical Specifications

<b>Size</b>	
Length	2.69 in [68.33 mm]
Width	2.5 in [63.5 mm]
Height	1.35 in [34.29 mm]
Weight	0.191 lbs [86.64 g]

#### RF Connector

Connector Type	N Female
Body Material and Plating	Stainless Steel

#### Waveguide Interface

Waveguide Type	WR-137
Flange Type	CPR-137G
Body Material and Plating	Aluminum

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 N Female Waveguide to Coax Adapter Operating From 5.85 GHz to 8.2 GHz, C Band PE9838](#)



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

Waveguide to Coax Adapters Technical Data Sheet

PE9838

**Environmental Specifications**

**Temperature**

Operating Range

-40 to +85 deg C

**Compliance Certifications** (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

RoHS Compliant

REACH Compliant

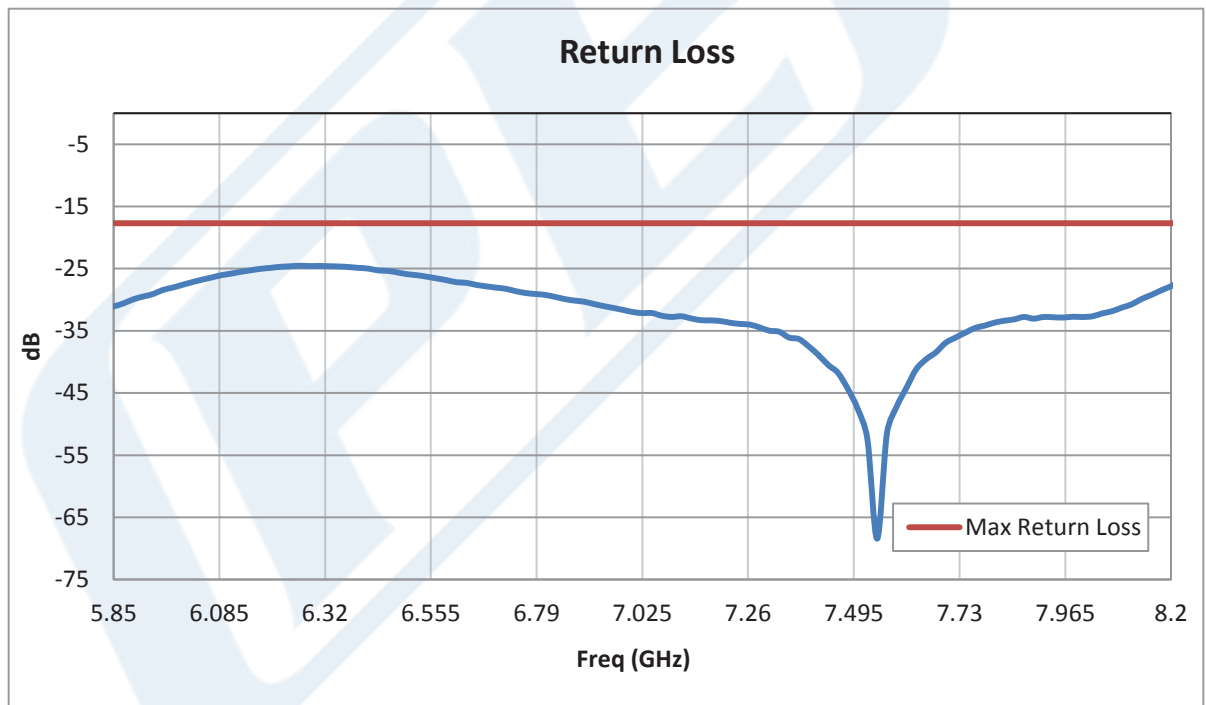
12/17/2015

**Plotted and Other Data**

Notes:

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

**Typical Performance Data**



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 N Female Waveguide to Coax Adapter Operating From 5.85 GHz to 8.2 GHz, C Band PE9838](#)



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

### Waveguide to Coax Adapters Technical Data Sheet

PE9838

WR-137 CPR-137G Grooved Flange to N 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% availability and are part of the broadest selection in the industry.

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 N Female Waveguide to Coax Adapter Operating From 5.85 GHz to 8.2 GHz, C Band PE9838](http://www.pasternack.com/grooved-wr-137-n-female-waveguide-coax-adapter-5.85-ghz-8.2-ghz-pe9838-p.aspx)

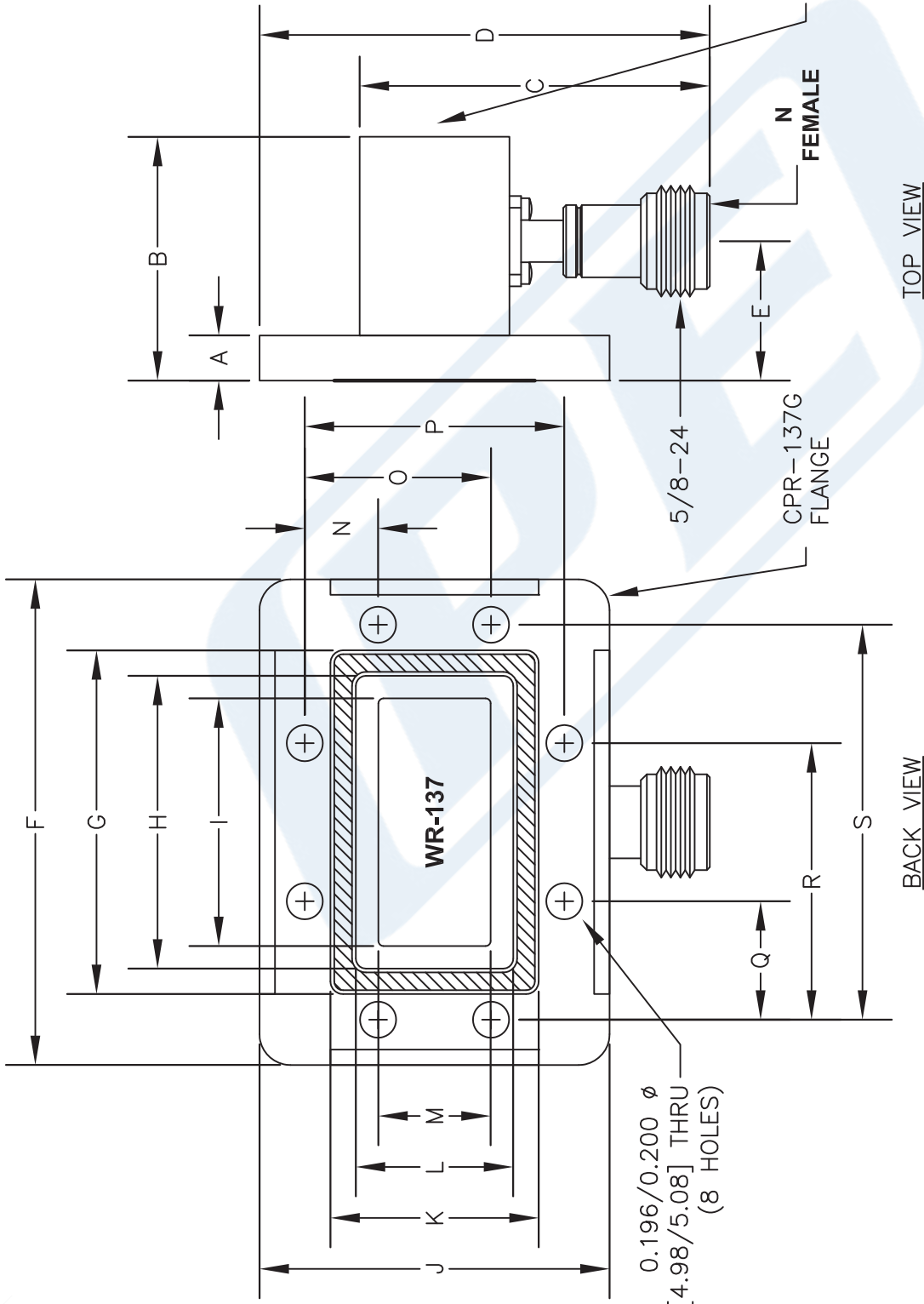
URL: <http://www.pasternack.com/grooved-wr-137-n-female-waveguide-coax-adapter-5.85-ghz-8.2-ghz-pe9838-p.aspx>

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.

# PE9838 CAD Drawing

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

CPR-137G Dimension	Inches	mm
F	2.690	68.33
G	1.904	48.36
H	1.622	41.20
I	1.372	34.85
J	1.940	49.28
K	1.154	29.31
L	0.872	22.15
M	0.622	15.80
N	0.406	10.31
O	1.032	26.21
P	1.438	36.53
Q	0.656	16.66
R	1.532	38.91
S	2.188	55.58
A	0.250	6.35
B	1.350	34.29
C	1.940	49.28
D	2.495	63.37
E	0.772	19.61



LABEL:  
PASTERNAK  
PE9838 CPR-137G  
5.85 ~ 8.2 GHz

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  
**PE9838**

FSCM NO. 53919

CAD FILE 030314

SCALE N/A

SIZE A

2233

**PE PASTERNAK**  
THE ENGINEER'S RF SOURCE  
Pasternack Enterprises, Inc.  
P.O. Box 16759 | Irvine | CA | 92623  
Phone: (949) 261-1920 | Fax: (949) 261-7451  
Website: www.pasternack.com | E-Mail: sales@pasternack.com