



# WR-112 CPR-112G Grooved Flange to N Female Waveguide to Coax Adapter Operating From 7.05 GHz to 10 GHz, X Band

## Waveguide to Coax Adapters Technical Data Sheet

PE9837

### Features

- X Band, 7.05 to 10 GHz Frequency Range
- WR-112 Waveguide Interface with CPR-112G Flange
- N Female Coaxial Interface
- Comprehensive waveguide offerings also include E-Bends, H-Bends, Sections, Filters, Terminations, Couplers, and more.

### Description

The PE9837 is a waveguide to coaxial adapter operating in the X band with a 7.05 to 10 GHz frequency range. This adapter offers a WR-112 waveguide interface size coupled with a precision tolerance CPR-112G flange. The PE9837 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-112
Flange	CPR-112G
RF Connector	N Female
Impedance	50 Ohms
Body Geometry	Right Angle

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	7.05		10	GHz
VSWR			1.3:1	
Input Power (Peak)			200	Watts

### Mechanical Specifications

<b>Size</b>	
Length	2.5 in [63.5 mm]
Width	2.32 in [58.93 mm]
Height	1.16 in [29.46 mm]
Weight	0.221 lbs [100.24 g]
<b>RF Connector</b>	
Connector Type	N Female
Body Material and Plating	Stainless Steel
<b>Waveguide Interface</b>	
Waveguide Type	WR-112
Flange Type	CPR-112G
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-112 CPR-112G Grooved Flange to N Female Waveguide to Coax Adapter Operating From 7.05 GHz to 10 GHz, X Band PE9837](#)





WR-112 CPR-112G Grooved Flange to N Female Waveguide to Coax Adapter Operating From 7.05 GHz to 10 GHz, X Band

Waveguide to Coax Adapters Technical Data Sheet

PE9837

**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

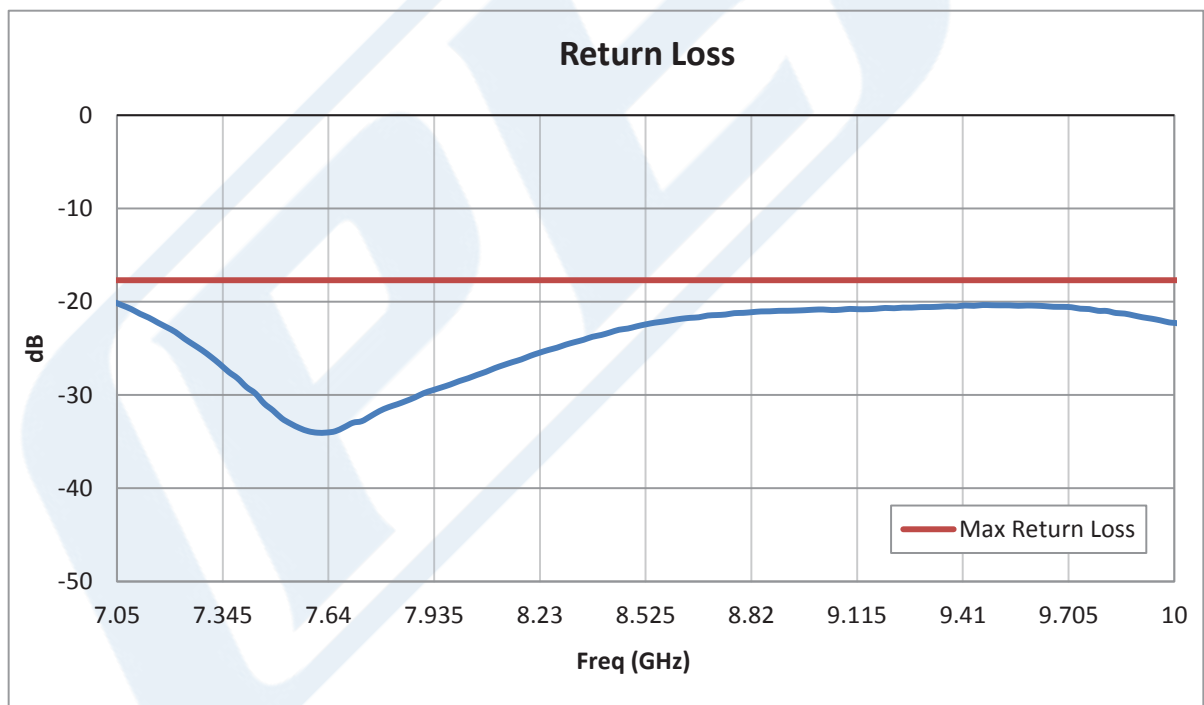
12/17/2015

**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-112 CPR-112G Grooved Flange to N Female Waveguide to Coax Adapter Operating From 7.05 GHz to 10 GHz, X Band PE9837](#)





## WR-112 CPR-112G Grooved Flange to N Female Waveguide to Coax Adapter Operating From 7.05 GHz to 10 GHz, X Band

### Waveguide to Coax Adapters Technical Data Sheet

PE9837

WR-112 CPR-112G Grooved Flange to N Female Waveguide to Coax Adapter Operating From 7.05 GHz to 10 GHz, X 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-112 CPR-112G Grooved Flange to N Female Waveguide to Coax Adapter Operating From 7.05 GHz to 10 GHz, X Band PE9837](http://www.pasternack.com/grooved-wr-112-n-female-waveguide-coax-adapter-7.05-ghz-10-ghz-pe9837-p.aspx)

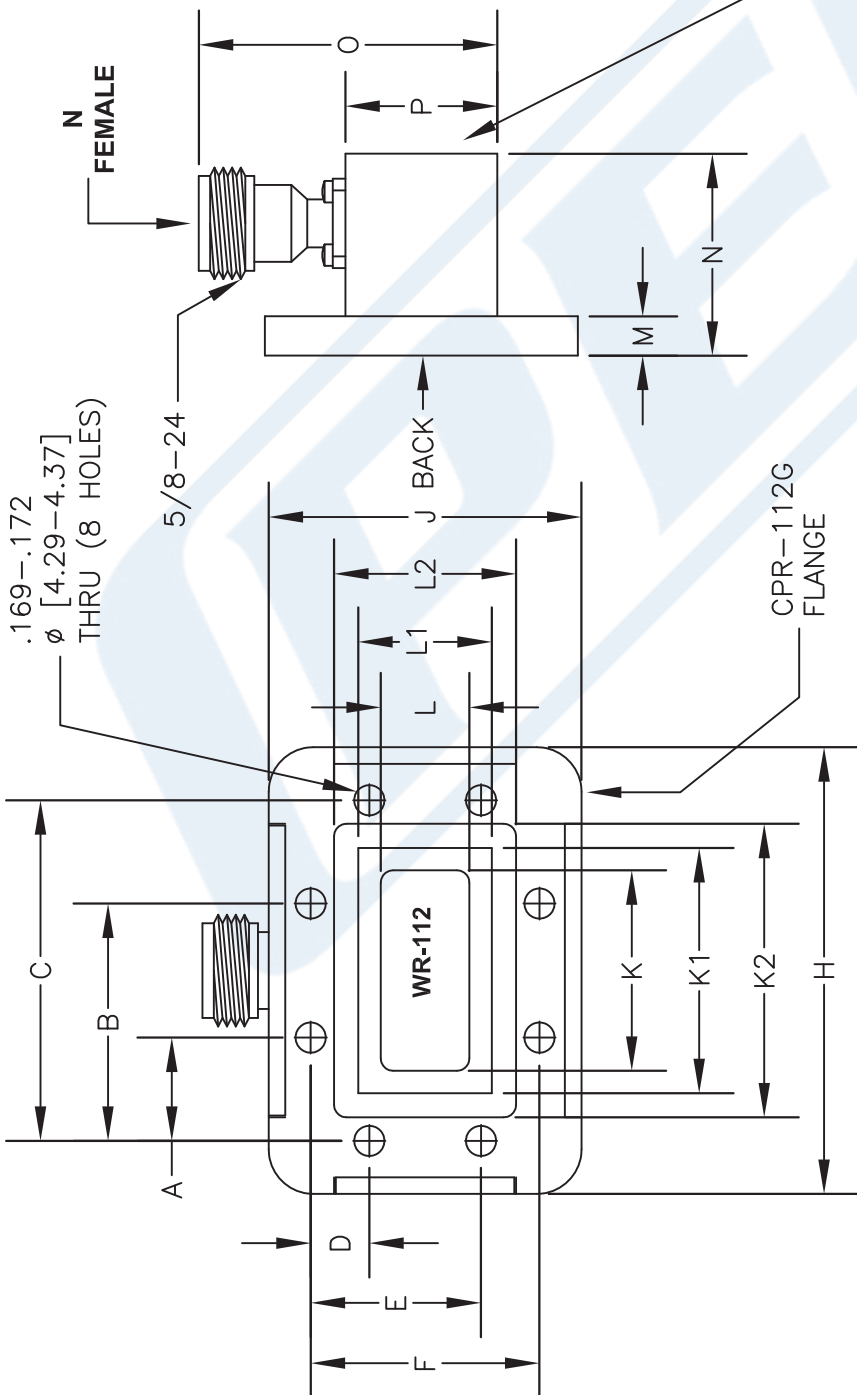
URL: <http://www.pasternack.com/grooved-wr-112-n-female-waveguide-coax-adapter-7.05-ghz-10-ghz-pe9837-p.aspx>

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.

# PE9837 CAD Drawing

WR-112 CPR-112G Grooved Flange to N Female Waveguide to Coax Adapter Operating From 7.05 GHz to 10 GHz, X Band

CPR-112G		Dimension	Inches	mm
A			0.578	14.7
B			1.328	33.7
C			1.906	48.4
D			0.328	8.3
E			0.953	24.2
F			1.279	32.5
H			2.500	63.5
J			1.750	44.5
K			1.122	28.5
K1			1.372	34.8
K2			1.654	42.0
L			0.497	12.6
L1			0.747	19.0
L2			1.029	26.1
M			0.248	6.3
N			1.158	29.4
O (TYP.)			1.955	49.7
P (TYP.)			0.850	21.6



LABEL:  
PASTERNAK  
PE9837 CPR-112G  
7.05 ~ 10 GHz

STANDARD TOLERANCES  
±0.012

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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  
**PE9837**

FSCM NO. 53919

CAD FILE 040616

SCALE N/A

SIZE A

3045

**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