



## WR-90 CPR-90G Grooved Flange to N Female Waveguide to Coax Adapter Operating From 8.2 GHz to 12.4 GHz, X Band

### Waveguide to Coax Adapters Technical Data Sheet

PE9873

#### Features

- X Band, 8.2 to 12.4 GHz Frequency Range
- WR-90 Waveguide Interface with CPR-90G Flange
- N Female Coaxial Interface
- Comprehensive waveguide offerings also include E-Bends, H-Bends, Sections, Filters, Terminations, Couplers, and more.

#### Description

The PE9873 is a waveguide to coaxial adapter operating in the X band with a 8.2 to 12.4 GHz frequency range. This adapter offers a WR-90 waveguide interface size coupled with a precision tolerance CPR-90G flange. The PE9873 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-90
Flange	CPR-90G
RF Connector	N Female
Impedance	50 Ohms
Body Geometry	Right Angle

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	8.2		12.4	GHz
VSWR			1.3:1	
Input Power (Peak)			300	Watts

#### Mechanical Specifications

<b>Size</b>	
Length	2.28 in [57.91 mm]
Width	2.09 in [53.09 mm]
Height	1 in [25.4 mm]
Weight	0.141 lbs [63.96 g]

#### RF Connector

Connector Type	N Female
Body Material and Plating	Stainless Steel

#### Waveguide Interface

Waveguide Type	WR-90
Flange Type	CPR-90G
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-90 CPR-90G Grooved Flange to N Female Waveguide to Coax Adapter Operating From 8.2 GHz to 12.4 GHz, X Band PE9873](#)



WR-90 CPR-90G Grooved Flange to N Female Waveguide to Coax Adapter Operating From 8.2 GHz to 12.4 GHz, X Band

Waveguide to Coax Adapters Technical Data Sheet

PE9873

**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

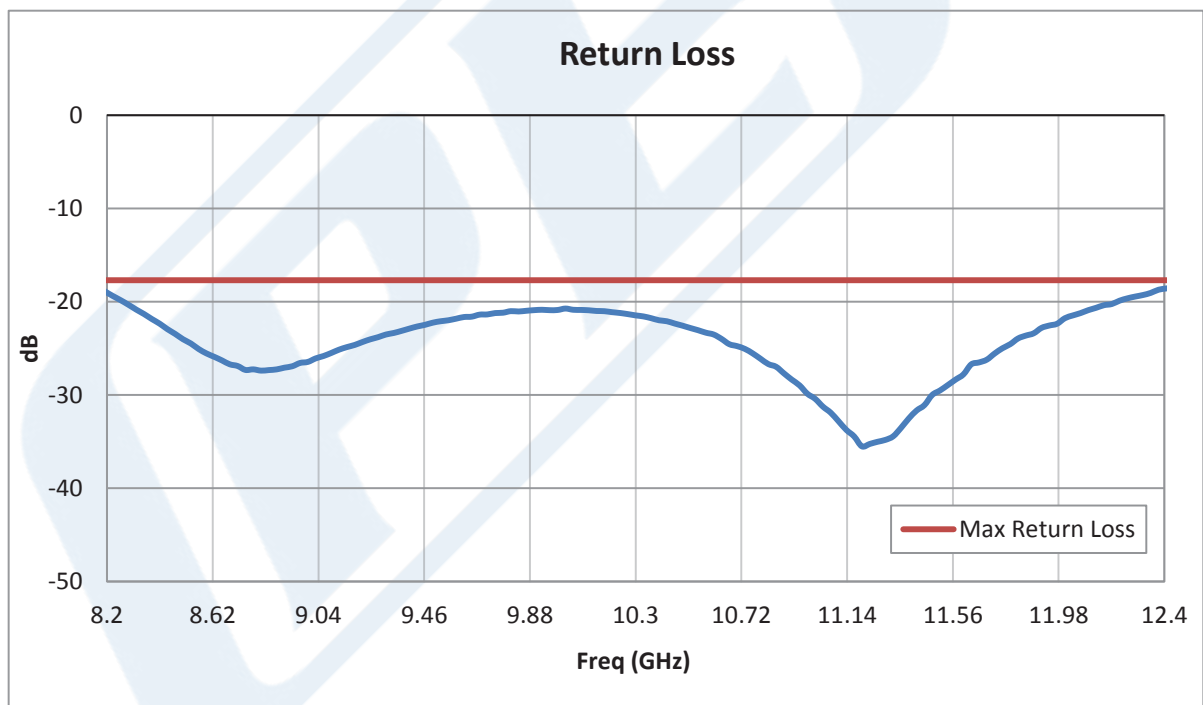
12/17/2015

**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-90 CPR-90G Grooved Flange to N Female Waveguide to Coax Adapter Operating From 8.2 GHz to 12.4 GHz, X Band PE9873](#)





## WR-90 CPR-90G Grooved Flange to N Female Waveguide to Coax Adapter Operating From 8.2 GHz to 12.4 GHz, X Band

### Waveguide to Coax Adapters Technical Data Sheet

PE9873

WR-90 CPR-90G Grooved Flange to N Female Waveguide to Coax Adapter Operating From 8.2 GHz to 12.4 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-90 CPR-90G Grooved Flange to N Female Waveguide to Coax Adapter Operating From 8.2 GHz to 12.4 GHz, X Band PE9873](http://www.pasternack.com/cpr-90g-n-female-waveguide-coax-adapter-8.2-12.4-ghz-pe9873-p.aspx)

URL: <http://www.pasternack.com/cpr-90g-n-female-waveguide-coax-adapter-8.2-12.4-ghz-pe9873-p.aspx>

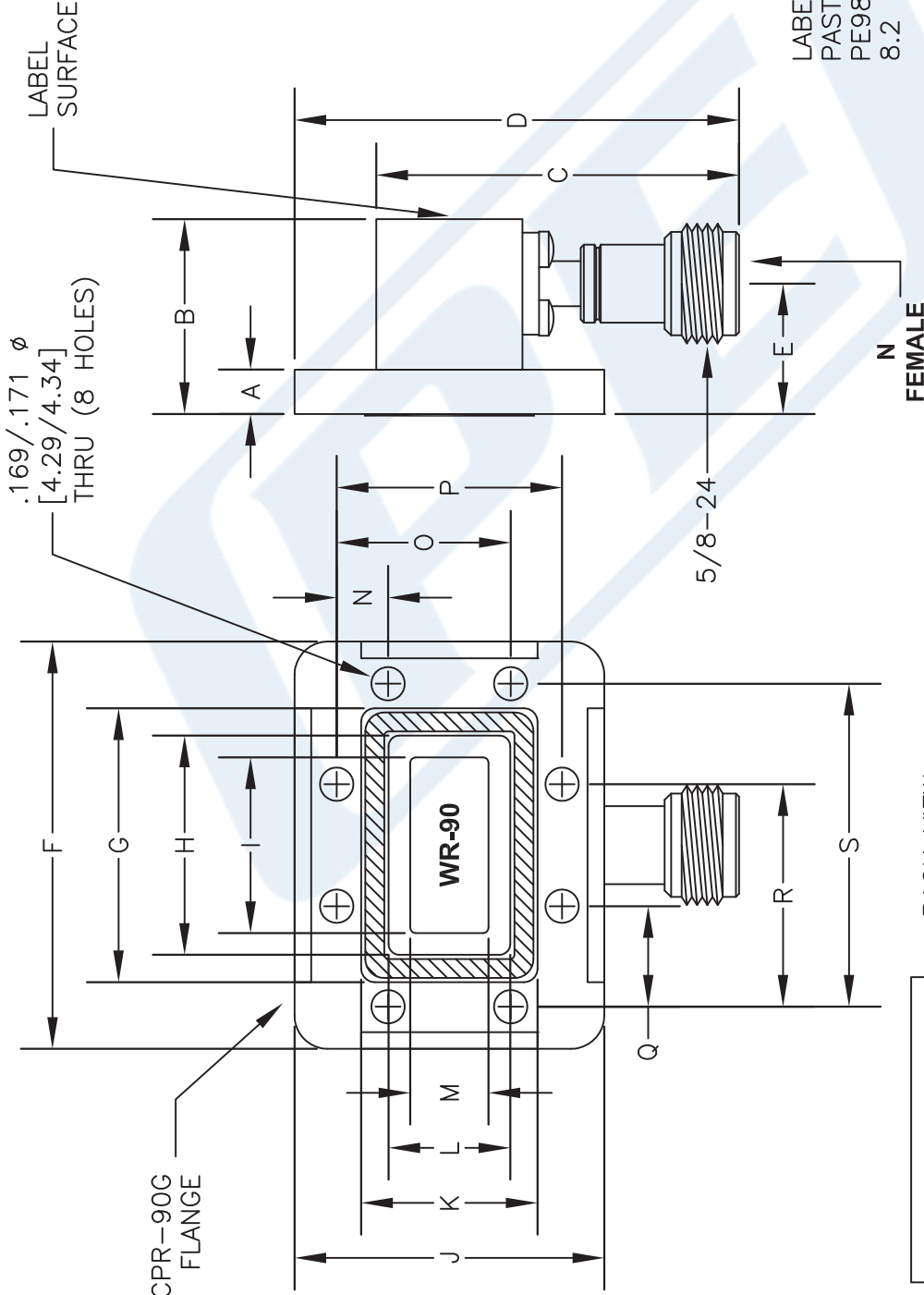
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such 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.

# PE9873 CAD Drawing

WR-90 CPR-90G Grooved Flange to N Female Waveguide to Coax Adapter Operating From 8.2 GHz to 12.4 GHz, X Band

CPR-90G	
Dimension	Inches
F	2.090
G	1.406
H	1.124
I	0.900
J	1.590
K	0.906
L	0.624
M	0.400
N	0.265
O	0.891
P	1.156
Q	0.516
R	1.140
S	1.656

A	0.230
B	1.000
C	1.860
D	2.280
E	0.669



LABEL:  
PASTERNAK  
PE9873 CPR-90G  
8.2 ~ 12.4 GHz

STANDARD TOLERANCES  
DECIMAL  
±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  
**PE9873**

FSCM NO. 53919

CAD FILE 040716

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