



WR-90 Square Type 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

PE9801

**Features**

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

**Description**

The PE9801 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 square Type flange. The PE9801 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	Square Type
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	2.3 in [58.42 mm]
Width	1.63 in [41.4 mm]
Height	1 in [25.4 mm]
Weight	0.205 lbs [92.99 g]

<b>RF Connector</b>	
Connector Type	N Female
Body Material and Plating	Stainless Steel

<b>Waveguide Interface</b>	
Waveguide Type	WR-90
Flange Type	Square Type
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 Square Type Flange to N Female Waveguide to Coax Adapter Operating From 8.2 GHz to 12.4 GHz, X Band PE9801](#)





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**Environmental Specifications**

**Temperature**

Operating Range

-40 to +85 deg C

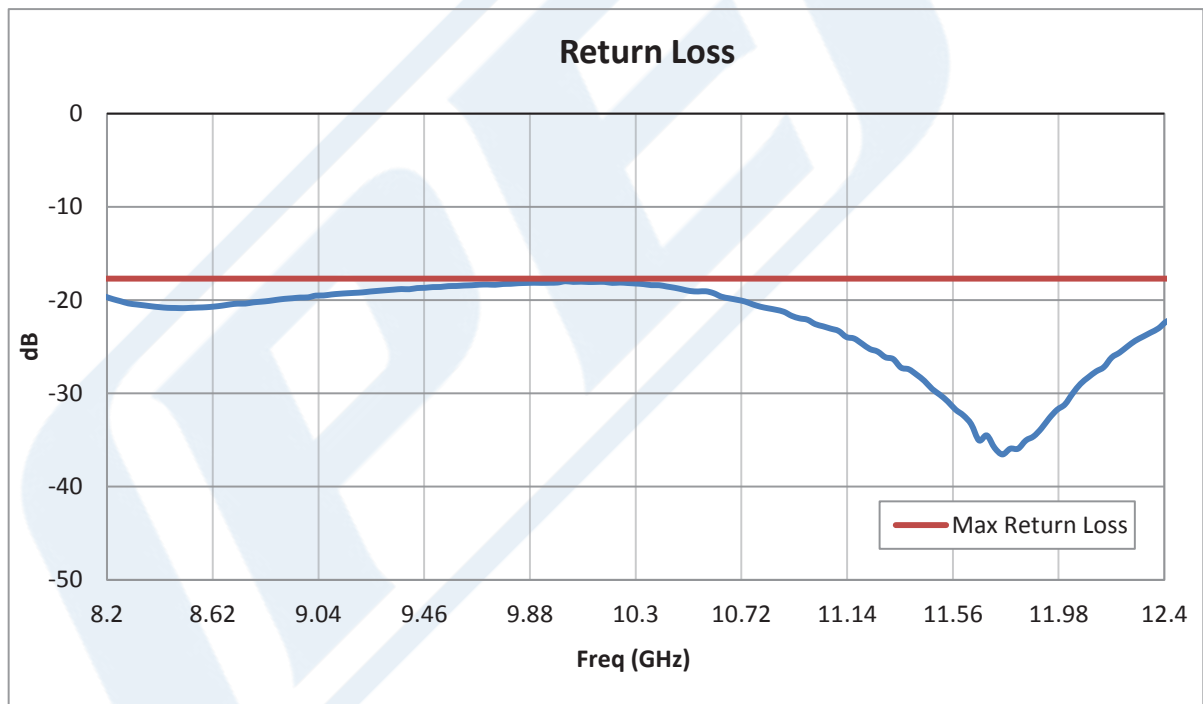
**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Notes:

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

**Typical Performance Data**



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WR-90 Square Type 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 99.4% availability and are part of the broadest selection in the industry.

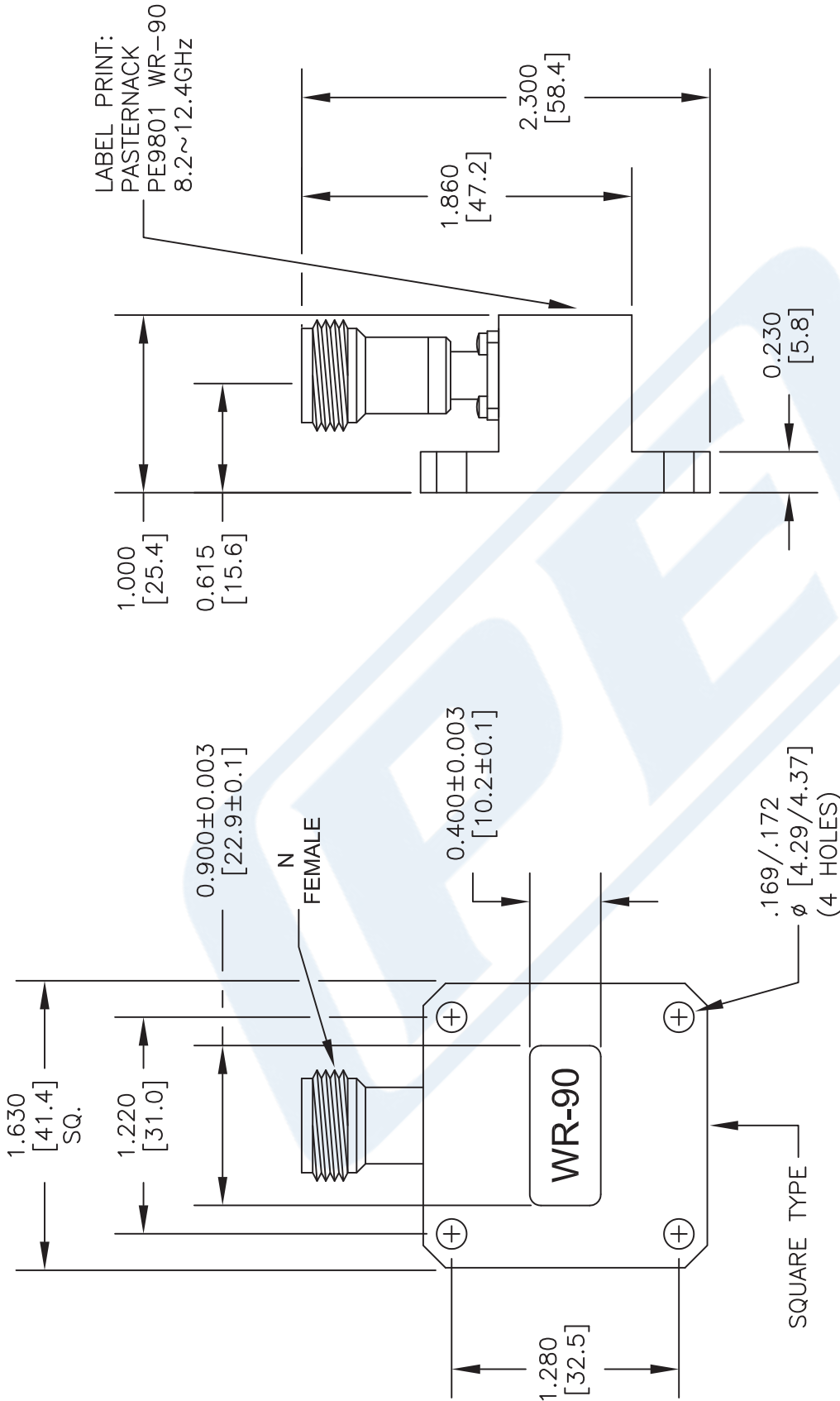
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URL: <https://www.pasternack.com/wr-90-n-female-waveguide-coax-adapter-8.2-ghz-12.4-ghz-pe9801-p.aspx>

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.

# PE9801 CAD Drawing

WR-90 Square Type Flange to N Female Waveguide to Coax Adapter Operating From 8.2 GHz to 12.4 GHz, X Band



### STANDARD TOLERANCES

.X ±0.2  
.XX ±0.1  
.XXX ±0.05

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



**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

DWG TITLE

**PE9801**

CAGE CODE 53919

CAD FILE 060717

SCALE N/A

SIZE A

2233

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].