



WR-112 Square Type Flange to N Female Waveguide to Coax Adapter Operating from 7.05 GHz to 10 GHz

Waveguide to Coax Adapters Technical Data Sheet

PE9820

Features

- X Band, 7.05 to 10 GHz Frequency Range
- WR-112 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 PE9820 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 square Type flange. The PE9820 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	Square Type
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	

Mechanical Specifications

Size	
Length	2.47 in [62.74 mm]
Width	1.88 in [47.75 mm]
Height	1.14 in [28.96 mm]
Weight	0.254 lbs [115.21 g]

RF Connector

Connector Type	N Female
Body Material and Plating	Stainless Steel

Waveguide Interface

Waveguide Type	WR-112
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-112 Square Type Flange to N Female Waveguide to Coax Adapter Operating from 7.05 GHz to 10 GHz PE9820](#)



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Environmental Specifications

Temperature

Operating Range

-40 to +85 deg C

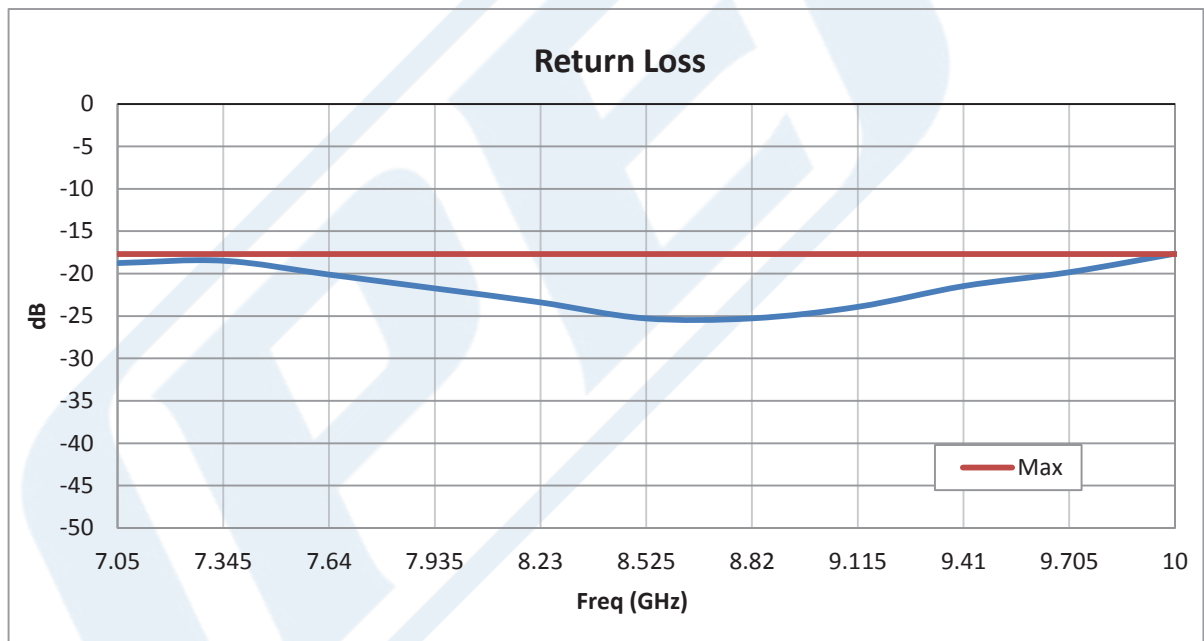
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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

Typical Performance Data



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WR-112 Square Type Flange to N Female Waveguide to Coax Adapter Operating from 7.05 GHz to 10 GHz 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.

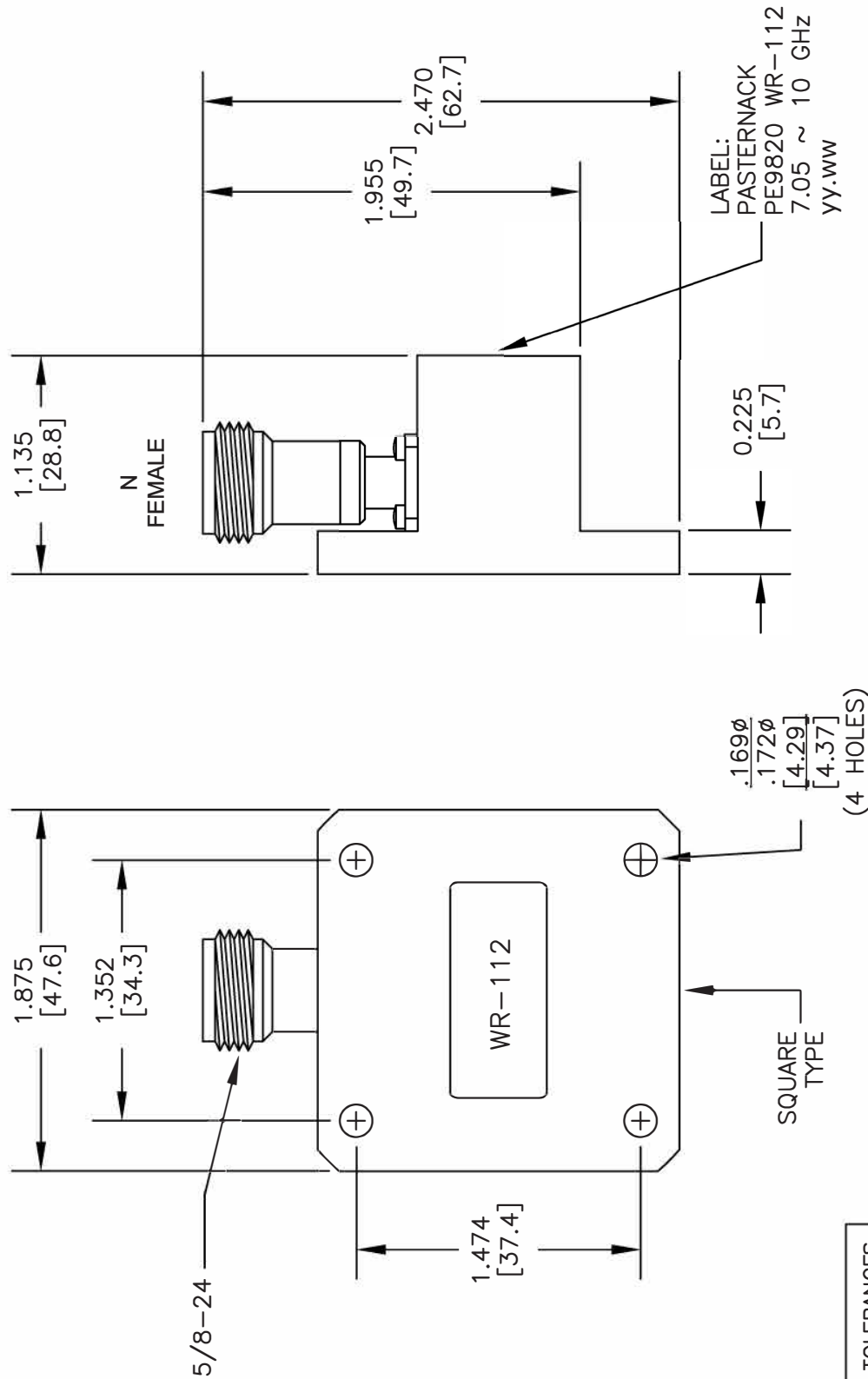
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-112 Square Type Flange to N Female Waveguide to Coax Adapter Operating from 7.05 GHz to 10 GHz PE9820](https://www.pasternack.com/wr-112-n-female-waveguide-coax-adapter-7.05-ghz-10-ghz-pe9820-p.aspx)

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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.

PE9820 CAD Drawing

WR-112 Square Type Flange to N Female Waveguide to Coax
Adapter Operating from 7.05 GHz to 10 GHz



STANDARD TOLERANCES
DECIMAL
±0.012

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES

PEI PASTERNAK®
THE ENGINEER'S RF SOURCE

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DWG TITLE

PE9820

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].

CAGE CODE 53919

CAD FILE 060717

SCALE N/A

SIZE A

2233