



WR-90 Square Type Flange to SMA Male Waveguide to Coax Adapter Operating from 8.2 GHz to 12.4 GHz

Waveguide to Coax Adapters Technical Data Sheet

PE9810

Features

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

Description

The PE9810 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 PE9810 is constructed of aluminum to ensure durability and repeatable RF performance. The SMA male connector mates with commercially available 2.92mm and 3.5mm connectors. The package is REACH and RoHS compliant.

Configuration

Waveguide Size	WR-90
Flange	Square Type
RF Connector	SMA Male
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	

Mechanical Specifications

Size	
Length	1.68 in [42.67 mm]
Width	1.63 in [41.4 mm]
Height	1 in [25.4 mm]
Weight	0.144 lbs [65.32 g]

RF Connector

Connector Type	SMA Male
Body Material and Plating	Stainless Steel
Torque	8 in-lbs [0.9 Nm]

Waveguide Interface

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 SMA Male Waveguide to Coax Adapter Operating from 8.2 GHz to 12.4 GHz PE9810](#)



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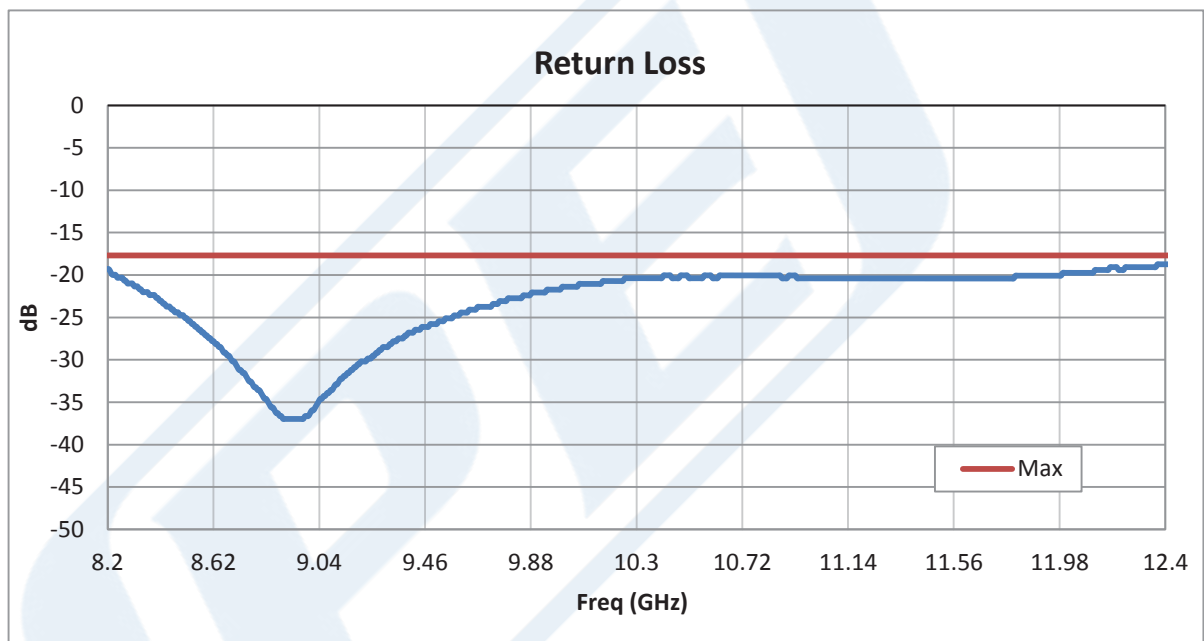
Compliance Certifications (see [product page](#) for current document)

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 SMA Male Waveguide to Coax Adapter Operating from 8.2 GHz to 12.4 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.

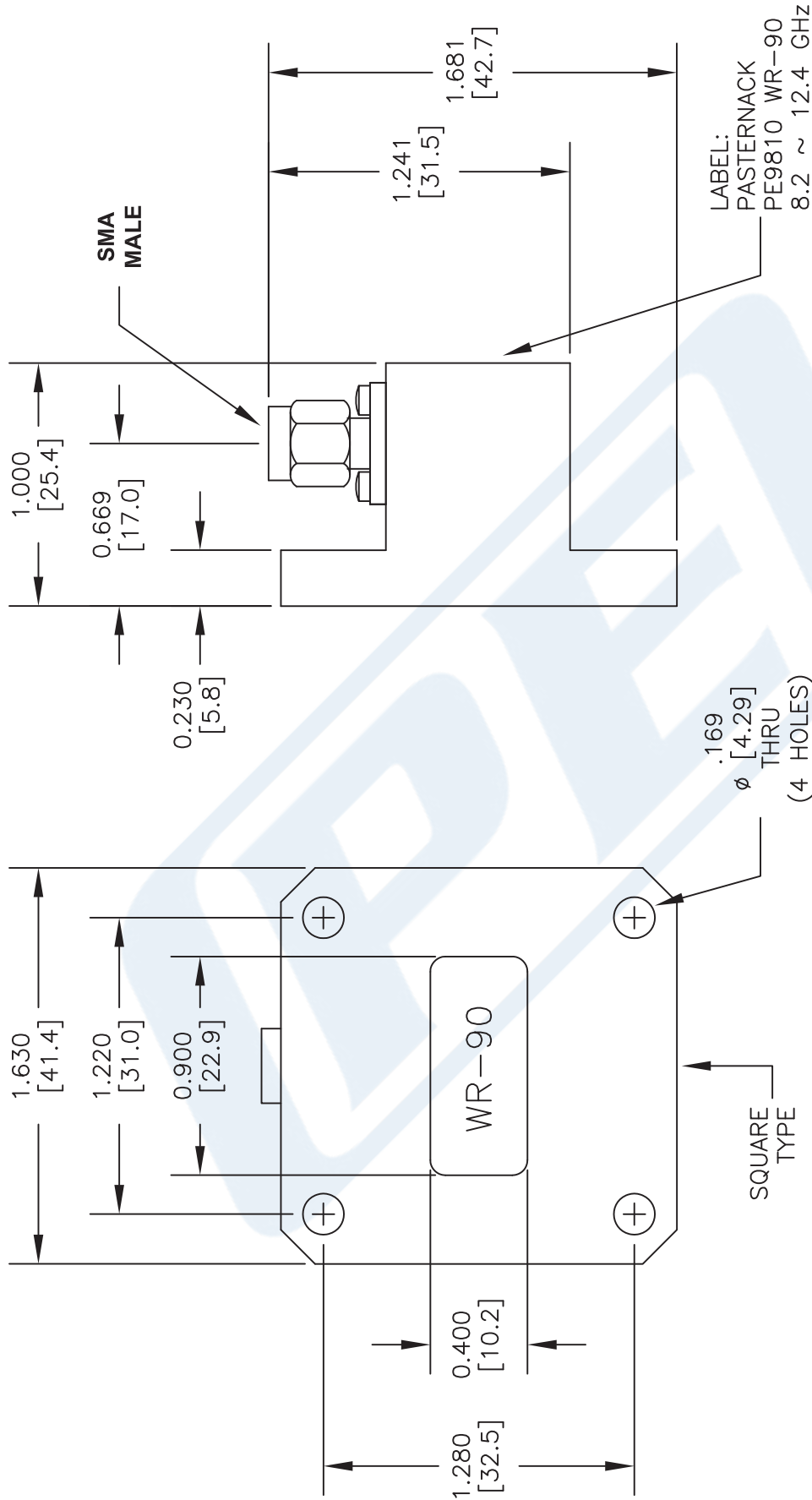
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URL: <https://www.pasternack.com/wr-90-sma-male-waveguide-coax-adapter-8.2-ghz-12.4-ghz-pe9810-p.aspx>

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.

PE9810 CAD Drawing

WR-90 Square Type Flange to SMA Male Waveguide to Coax Adapter Operating from 8.2 GHz to 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
PE9810

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