



## WR-112 Square Type Flange to SMA Female Waveguide to Coax Adapter Operating From 7.05 GHz to 10 GHz, X Band

### Waveguide to Coax Adapters Technical Data Sheet

PE9884

#### Features

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

#### Description

The PE9884 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 PE9884 is constructed of aluminum to ensure durability and repeatable RF performance. The SMA female connector mates with commercially available 2.92mm and 3.5mm connectors. The package is REACH and RoHS compliant.

#### Configuration

Waveguide Size	WR-112
Flange	Square Type
RF Connector	SMA 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)			100	Watts

#### Mechanical Specifications

<b>Size</b>	
Length	1.14 in [28.96 mm]
Width	1.88 in [47.75 mm]
Height	1.88 in [47.75 mm]
Weight	0.22 lbs [99.79 g]

#### RF Connector

Connector Type	SMA 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 SMA Female Waveguide to Coax Adapter Operating From 7.05 GHz to 10 GHz, X Band PE9884](#)



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**Environmental Specifications**

**Temperature**

Operating Range

-40 to +85 deg C

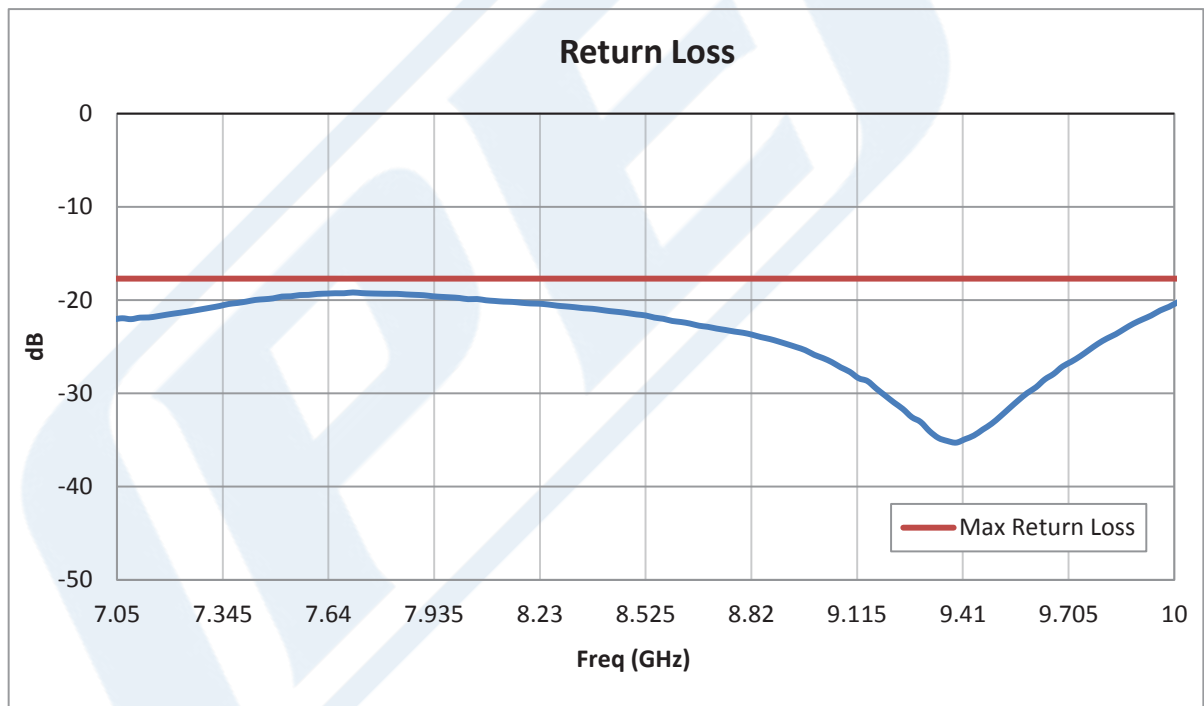
**Compliance Certifications** (see [product page](#) for current document)

**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 SMA 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 99.4% availability and are part of the broadest selection in the industry.

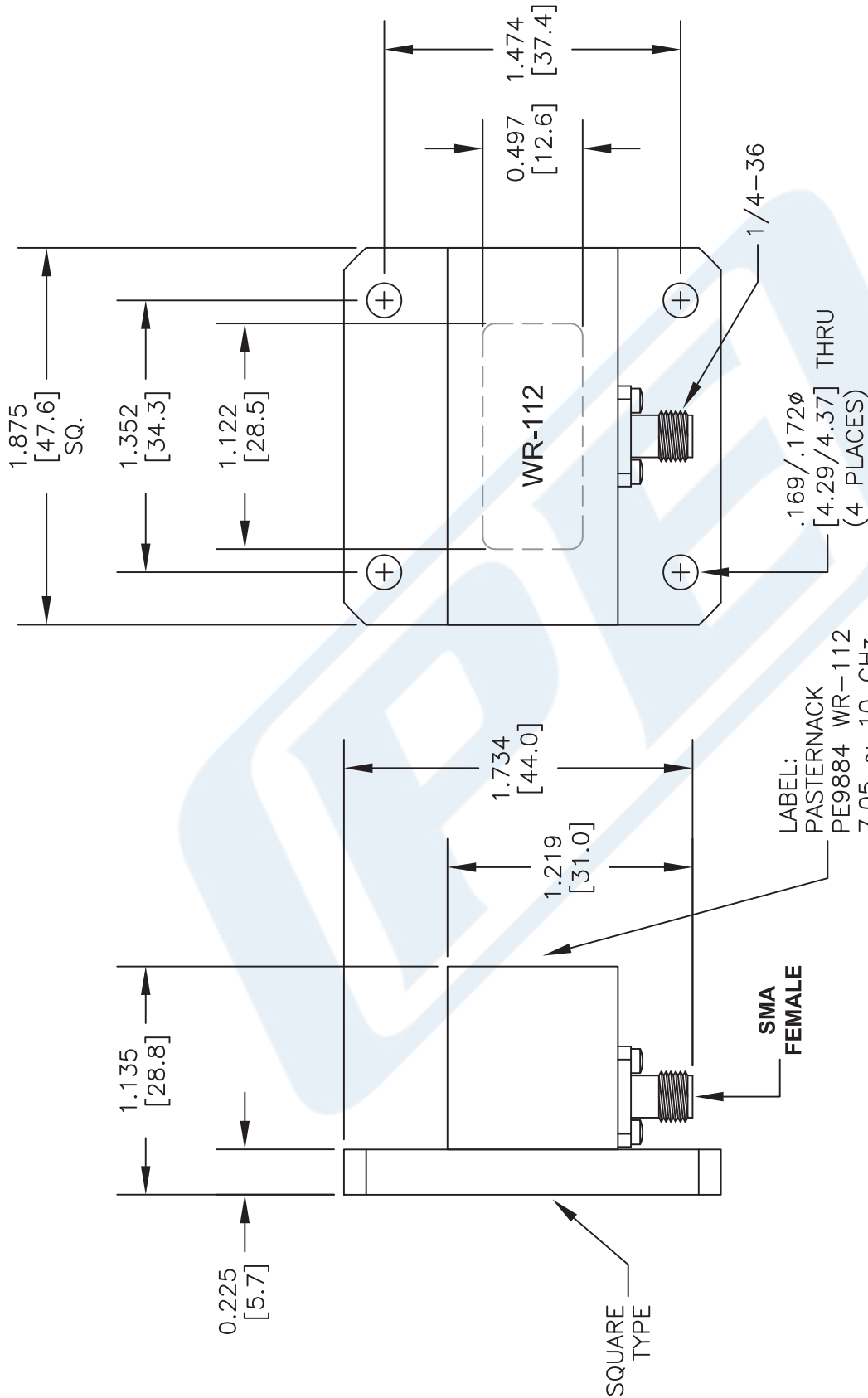
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-112 Square Type Flange to SMA Female Waveguide to Coax Adapter Operating From 7.05 GHz to 10 GHz, X Band PE9884](https://www.pasternack.com/wr-112-square-type-flange-to-sma-female-waveguide-to-coax-adapter-operating-from-7.05-ghz-to-10-ghz-x-band-pe9884)

URL: <https://www.pasternack.com/wr-112-sma-female-waveguide-coax-adapter-7.05-10-ghz-pe9884-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.

# PE9884 CAD Drawing

WR-112 Square Type Flange to SMA Female Waveguide to Coax Adapter Operating From 7.05 GHz to 10 GHz, X Band



**STANDARD TOLERANCES**  
DECIMAL  
±0.004

\*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  
**PE9884**

CAGE CODE 53919

CAD FILE 060717

SCALE N/A

SIZE A

2233

**(PE) PASTERNAK®**  
THE ENGINEER'S RF SOURCE

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