



## WR-42 Square Type Flange to 2.92mm Female Waveguide to Coax Adapter Operating From 18 GHz to 26.5 GHz, K Band

### Waveguide to Coax Adapters Technical Data Sheet

PE9812

#### Features

- K Band, 18 to 26.5 GHz Frequency Range
- WR-42 Waveguide Interface with Square Type Flange
- 2.92mm Female Coaxial Interface
- Comprehensive waveguide offerings also include E-Bends, H-Bends, Sections, Filters, Terminations, Couplers, and more.

#### Description

The PE9812 is a waveguide to coaxial adapter operating in the K band with a 18 to 26.5 GHz frequency range. This adapter offers a WR-42 waveguide interface size coupled with a precision tolerance square Type flange. The PE9812 is constructed of aluminum to ensure durability and repeatable RF performance. The coaxial connector offered by this adapter uses a 2.92mm geometry endorsed by International Electrotechnical Commission (IEC). The 2.92mm female connector mates with commercially available SMA and 3.5mm connectors. The package is REACH and RoHS compliant.

#### Configuration

Waveguide Size	WR-42
Flange	Square Type
RF Connector	2.92mm Female
Impedance	50 Ohms
Body Geometry	Right Angle

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	18		26.5	GHz
VSWR			1.4:1	
Input Power (Peak)			25	Watts

#### Mechanical Specifications

<b>Size</b>	
Length	0.88 in [22.35 mm]
Width	0.69 in [17.53 mm]
Height	1.06 in [26.92 mm]
Weight	0.048 lbs [21.77 g]

#### RF Connector

Connector Type	2.92mm Female
Body Material and Plating	Stainless Steel

#### Waveguide Interface

Waveguide Type	WR-42
Flange Type	Square Type

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-42 Square Type Flange to 2.92mm Female Waveguide to Coax Adapter Operating From 18 GHz to 26.5 GHz, K Band PE9812](#)



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Body Material and Plating

Aluminum

**Environmental Specifications**

**Temperature**

Operating Range

-40 to +85 deg C

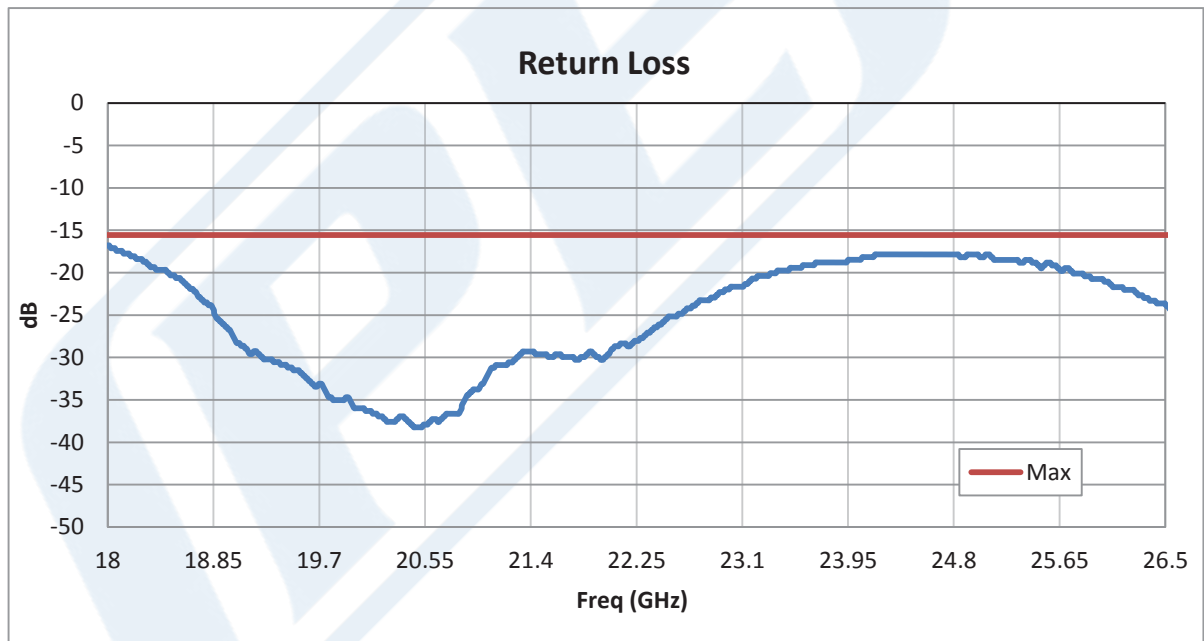
**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Notes:

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

**Typical Performance Data**



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WR-42 Square Type Flange to 2.92mm Female Waveguide to Coax Adapter Operating From 18 GHz to 26.5 GHz, K 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.

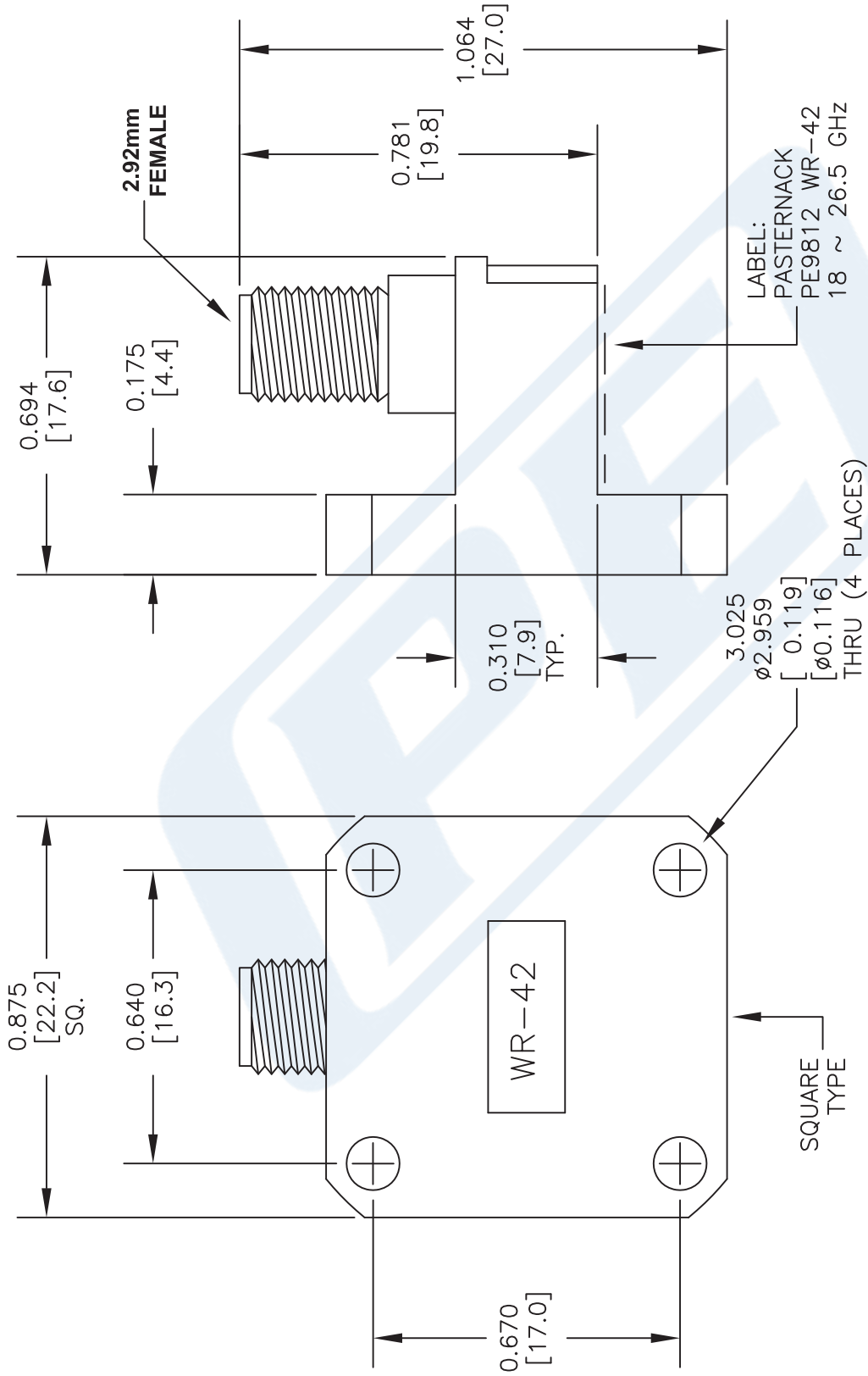
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-42 Square Type Flange to 2.92mm Female Waveguide to Coax Adapter Operating From 18 GHz to 26.5 GHz, K Band PE9812](https://www.pasternack.com/wr-42-sma-female-waveguide-coax-adapter-18-ghz-26.5-ghz-pe9812-p.aspx)

URL: <https://www.pasternack.com/wr-42-sma-female-waveguide-coax-adapter-18-ghz-26.5-ghz-pe9812-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.

# PE9812 CAD Drawing

WR-42 Square Type Flange to 2.92mm Female Waveguide to Coax Adapter Operating From 18 GHz to 26.5 GHz, K Band



STANDARD TOLERANCES

±0.012

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

DWG TITLE

**PE9812**

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].

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CAD FILE 060717

SCALE N/A

SIZE A

2233