



WR-28 Square Cover Flange to 2.92mm Female Waveguide to Coax Adapter Operating From 26.5 GHz to 40 GHz, Ka Band

Waveguide to Coax Adapters Technical Data Sheet

PE9826

**Features**

- Ka Band, 26.5 to 40 GHz Frequency Range
- WR-28 Waveguide Interface with Square Cover Flange
- 2.92mm Female Coaxial Interface
- Comprehensive waveguide offerings also include E-Bends, H-Bends, Sections, Filters, Terminations, Couplers, and more.

**Description**

The PE9826 is a waveguide to coaxial adapter operating in the Ka band with a 26.5 to 40 GHz frequency range. This adapter offers a WR-28 waveguide interface size coupled with a precision tolerance square cover flange. The PE9826 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-28
Flange	Square Cover
RF Connector	2.92mm Female
Impedance	50 Ohms
Body Geometry	Right Angle

**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	26.5		40	GHz
VSWR			1.4:1	
Input Power (Peak)			20	Watts

**Mechanical Specifications**

<b>Size</b>	
Length	1.01 in [25.65 mm]
Width	0.59 in [14.99 mm]
Height	0.75 in [19.05 mm]
Weight	0.02 lbs [9.07 g]
<b>RF Connector</b>	
Connector Type	2.92mm Female
Body Material and Plating	Stainless Steel
<b>Waveguide Interface</b>	
Waveguide Type	WR-28
Flange Type	Square Cover

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-28 Square Cover Flange to 2.92mm Female Waveguide to Coax Adapter Operating From 26.5 GHz to 40 GHz, Ka Band PE9826](#)





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Body Material and Plating Aluminum

**Environmental Specifications**

**Temperature**

Operating Range -40 to +85 deg C

**Compliance Certifications** (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

RoHS Compliant

REACH Compliant

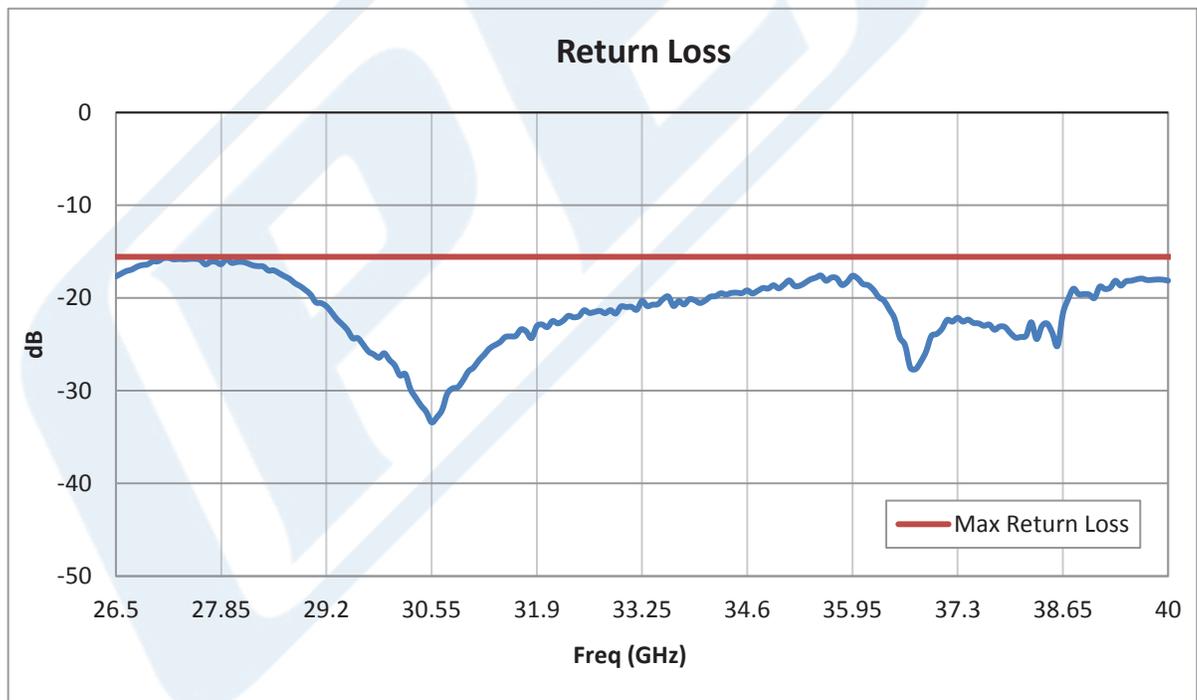
12/17/2015

**Plotted and Other Data**

Notes:

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

**Typical Performance Data**



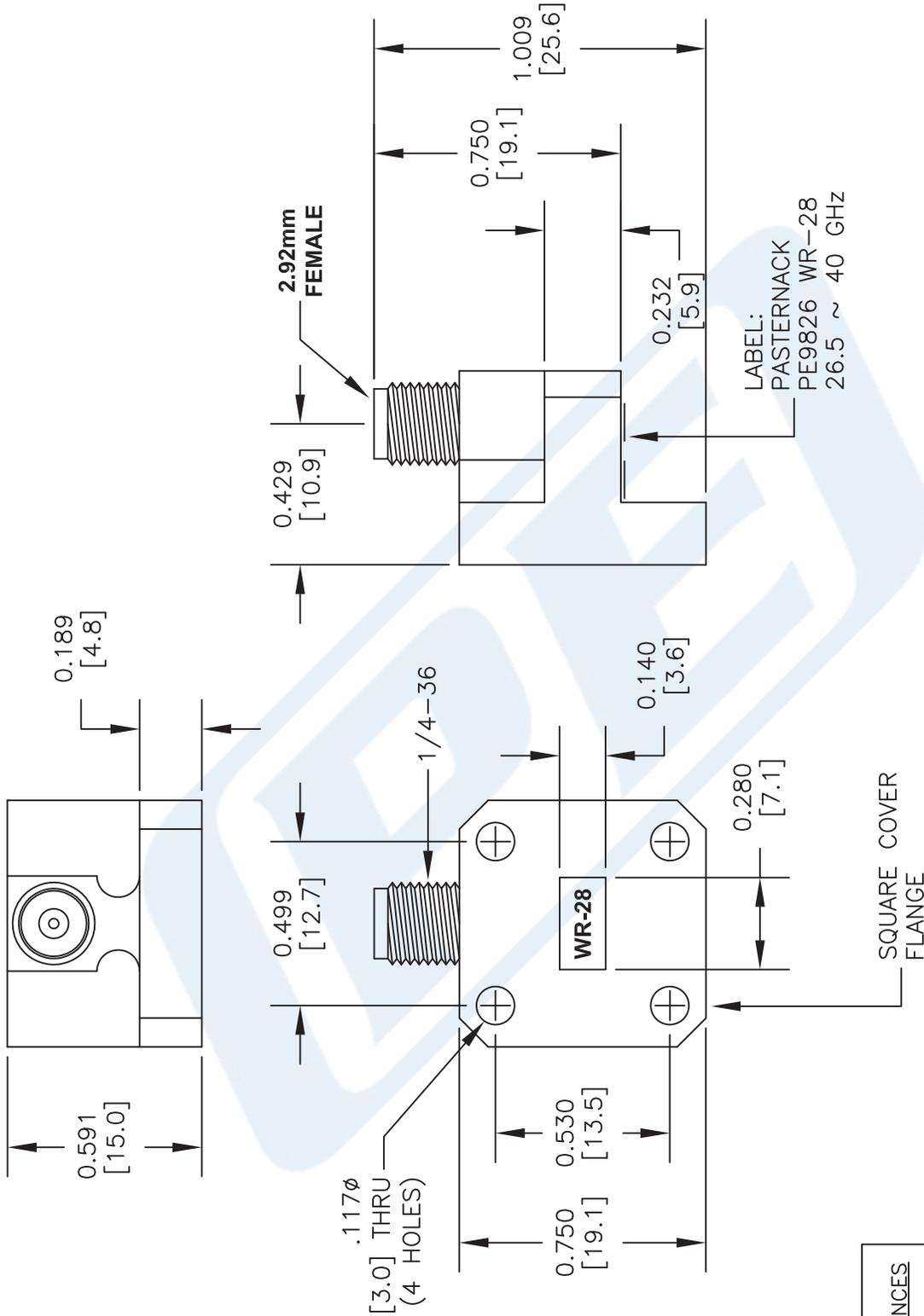
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# PE9826 CAD Drawing

WR-28 Square Cover Flange to 2.92mm Female Waveguide to Coax Adapter Operating From 26.5 GHz to 40 GHz, Ka Band



STANDARD TOLERANCES

±0.012

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

DWG TITLE

**PE9826**

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 040616

SCALE N/A

SIZE A

3045