



WR-34 Square Cover Flange to 2.92mm Female Waveguide to Coax Adapter Operating From 22 GHz to 33 GHz, K-Ka Band

Waveguide to Coax Adapters Technical Data Sheet

PE9827

Features

- K-Ka Band, 22 to 33 GHz Frequency Range
- WR-34 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 PE9827 is a waveguide to coaxial adapter operating in the K-Ka band with a 22 to 33 GHz frequency range. This adapter offers a WR-34 waveguide interface size coupled with a precision tolerance square cover flange. The PE9827 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-34
Flange	Square Cover
RF Connector	2.92mm Female
Impedance	50 Ohms
Body Geometry	Right Angle

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	22		33	GHz
VSWR			1.4:1	
Input Power (Peak)			20	Watts

Mechanical Specifications

Size	
Length	1.06 in [26.92 mm]
Width	0.88 in [22.35 mm]
Height	0.64 in [16.26 mm]
Weight	0.02 lbs [9.07 g]

RF Connector

Connector Type	2.92mm Female
Body Material and Plating	Stainless Steel

Waveguide Interface

Waveguide Type	WR-34
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-34 Square Cover Flange to 2.92mm Female Waveguide to Coax Adapter Operating From 22 GHz to 33 GHz, K-Ka Band PE9827](#)



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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 for current document)

RoHS Compliant

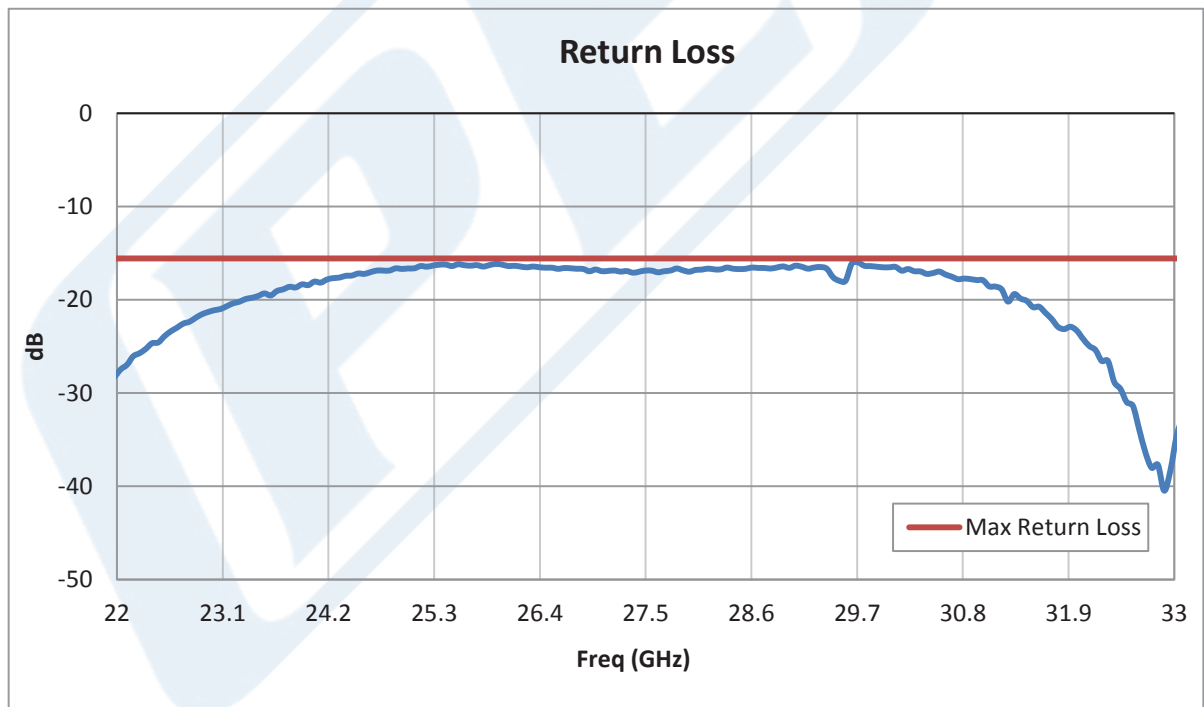
REACH Compliant 12/17/2015

Plotted and Other Data

Notes:

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

Typical Performance Data



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WR-34 Square Cover Flange to 2.92mm Female Waveguide to Coax Adapter Operating From 22 GHz to 33 GHz, K-Ka Band from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

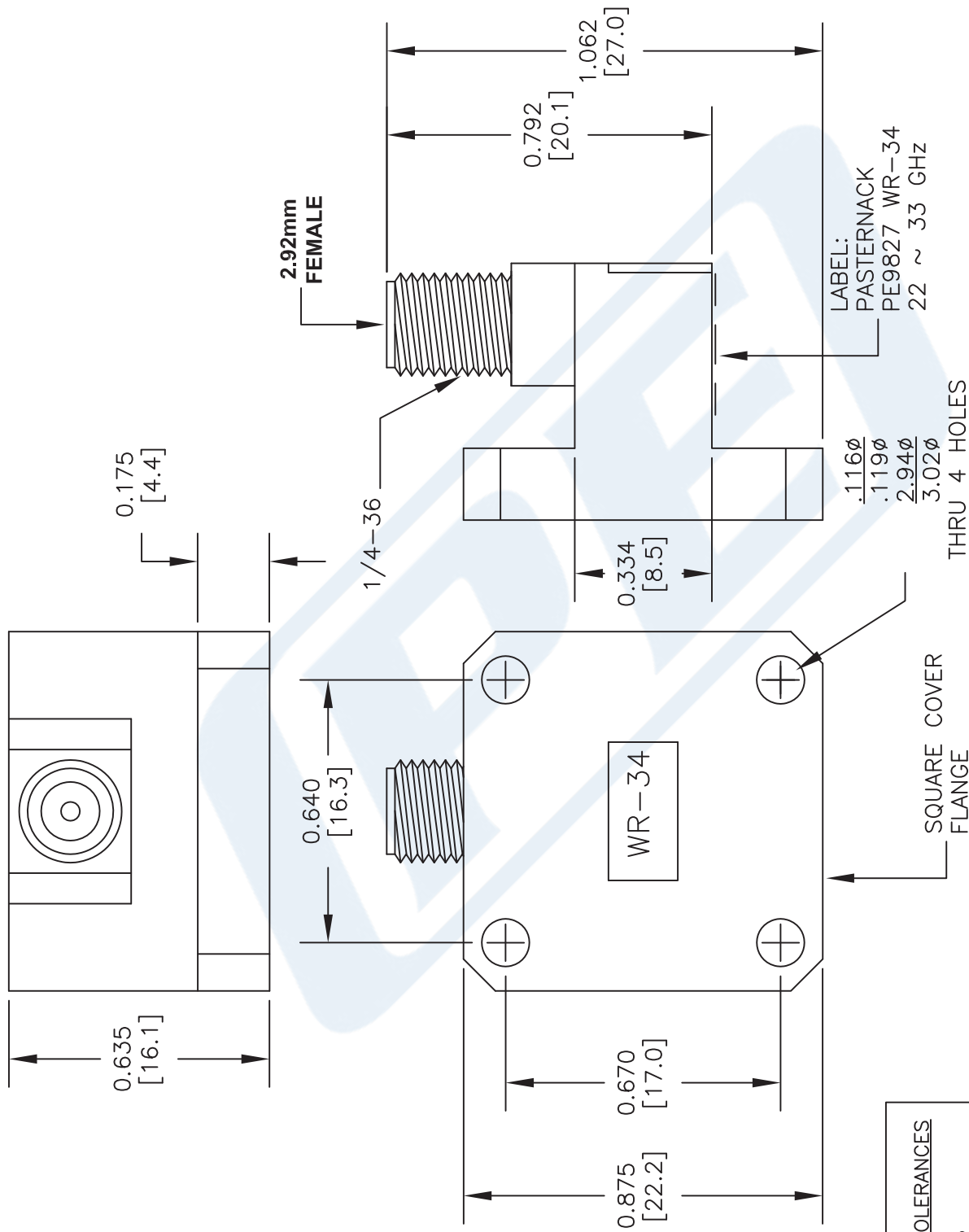
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. 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.

PE9827 CAD Drawing

WR-34 Square Cover Flange to 2.92mm Female Waveguide to Coax Adapter Operating From 22 GHz to 33 GHz, K-Ka Band



STANDARD TOLERANCES
±0.012

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

DWG TITLE

PE9827

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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FSCM NO. 53919

CAD FILE 040616

SCALE N/A

SIZE A

3045