



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

Waveguide to Coax Adapters Technical Data Sheet

PE9878

Features

- K Band, 18 to 26.5 GHz Frequency Range
- WR-42 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 PE9878 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 cover flange. The PE9878 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 Cover
RF Connector	2.92mm Female
Impedance	50 Ohms
Body Geometry	End Launch

Electrical Specifications

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

Mechanical Specifications

Size	
Length	0.87 in [22.1 mm]
Width	0.87 in [22.1 mm]
Height	1.39 in [35.31 mm]
Weight	0.2 lbs [90.72 g]
RF Connector	
Connector Type	2.92mm Female
Body Material and Plating	Stainless Steel
Waveguide Interface	
Waveguide Type	WR-42
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-42 Square Cover Flange to End Launch 2.92mm Female Waveguide to Coax Adapter Operating From 18 GHz to 26.5 GHz, K Band PE9878](#)





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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

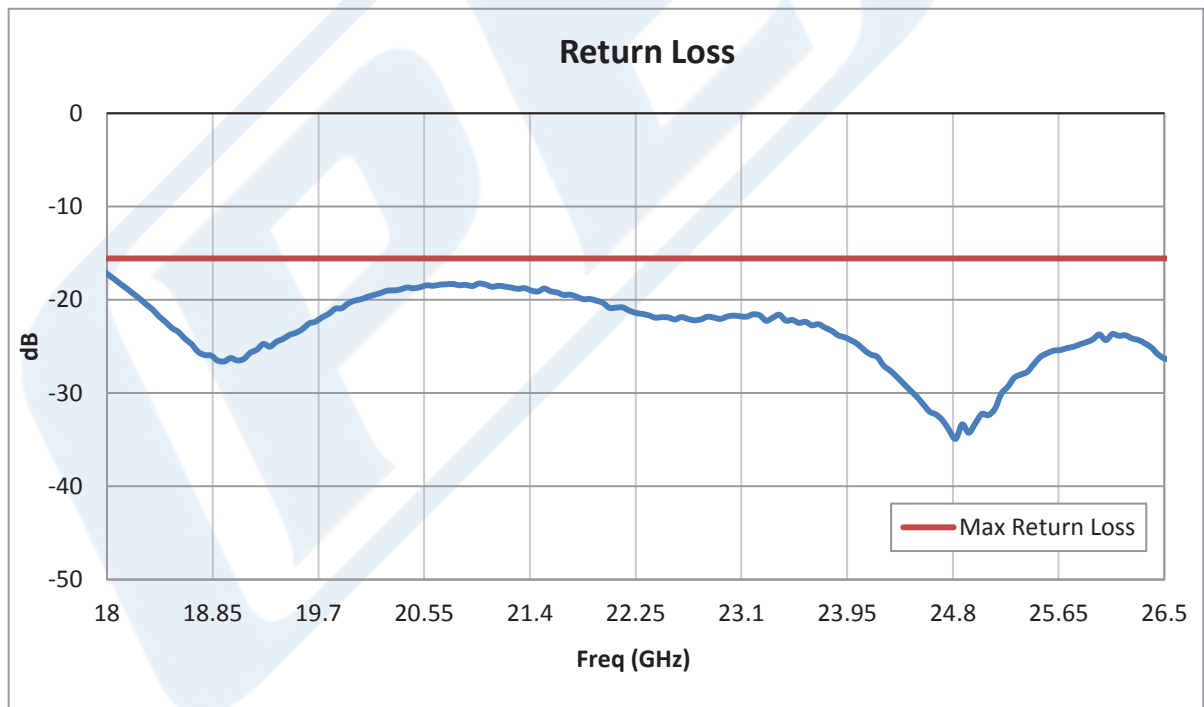
12/17/2015

Plotted and Other Data

Notes:

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

Typical Performance Data

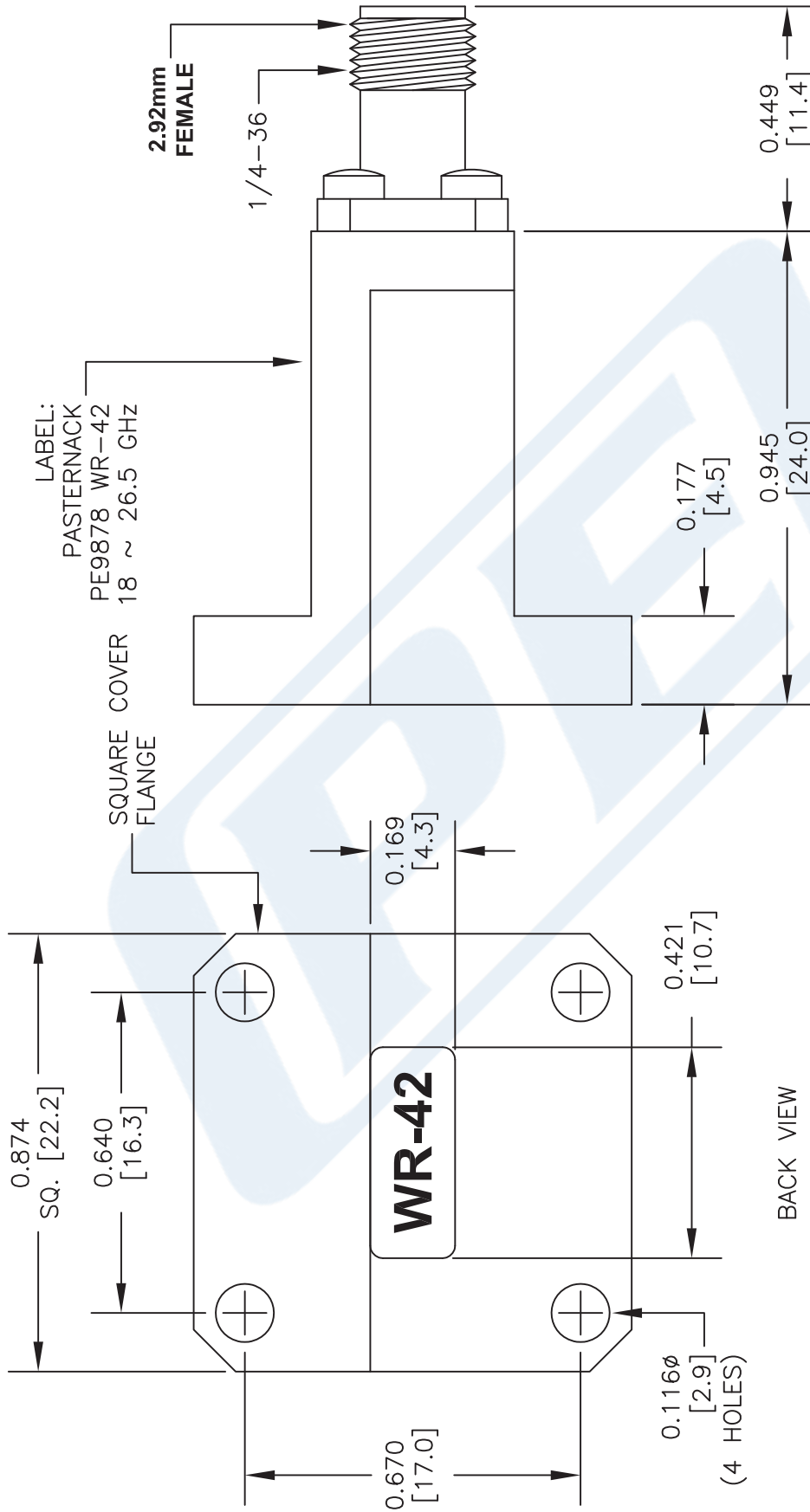


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PE9878 CAD Drawing

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



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].
 4. LENGTH TOLERANCE IS ± 1.5% OR 3/8", WHICHEVER IS GREATER.

DWG TITLE
PE9878

FSCM NO. 53919

CAD FILE 040716

SCALE N/A

SIZE A

3045

(PE) PASTERNAK®
 THE ENGINEER'S RF SOURCE

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