



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**

|                            |                    |
|----------------------------|--------------------|
| <b>Size</b>                |                    |
| 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]  |
| <b>RF Connector</b>        |                    |
| Connector Type             | 2.92mm Female      |
| Body Material and Plating  | Stainless Steel    |
| <b>Waveguide Interface</b> |                    |
| 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](http://www.Pasternack.com) for current document)

RoHS Compliant

REACH Compliant

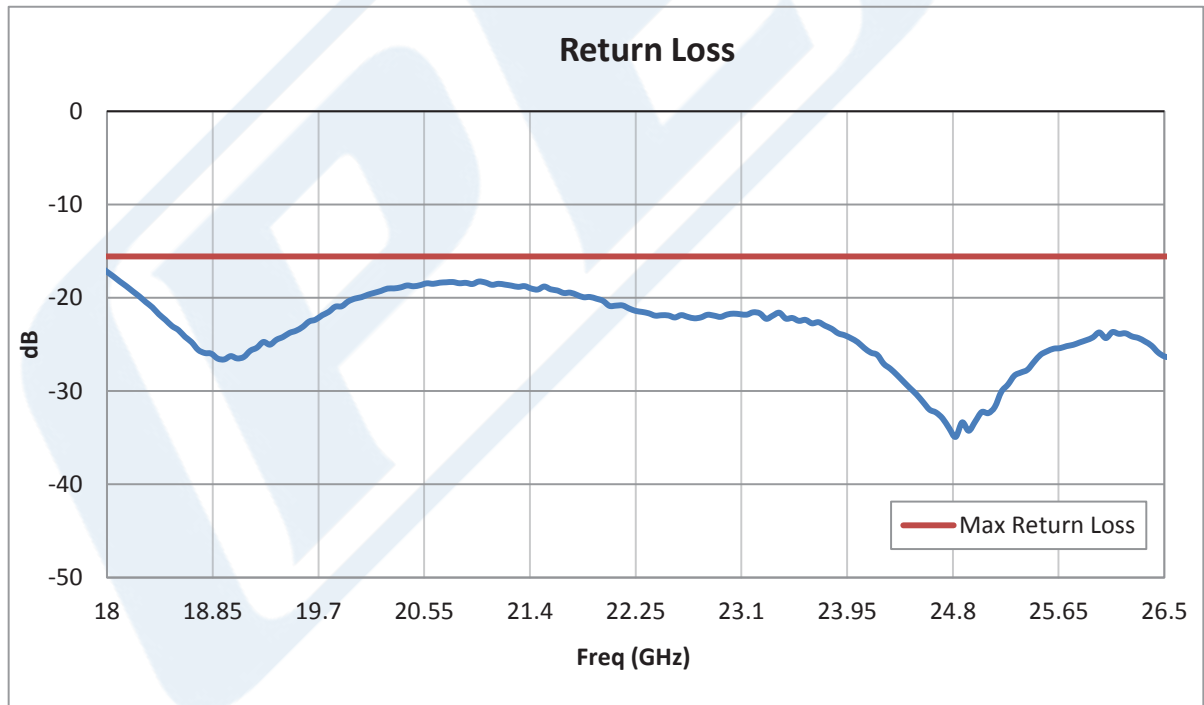
12/17/2015

**Plotted and Other Data**

Notes:

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

**Typical Performance Data**



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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 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.

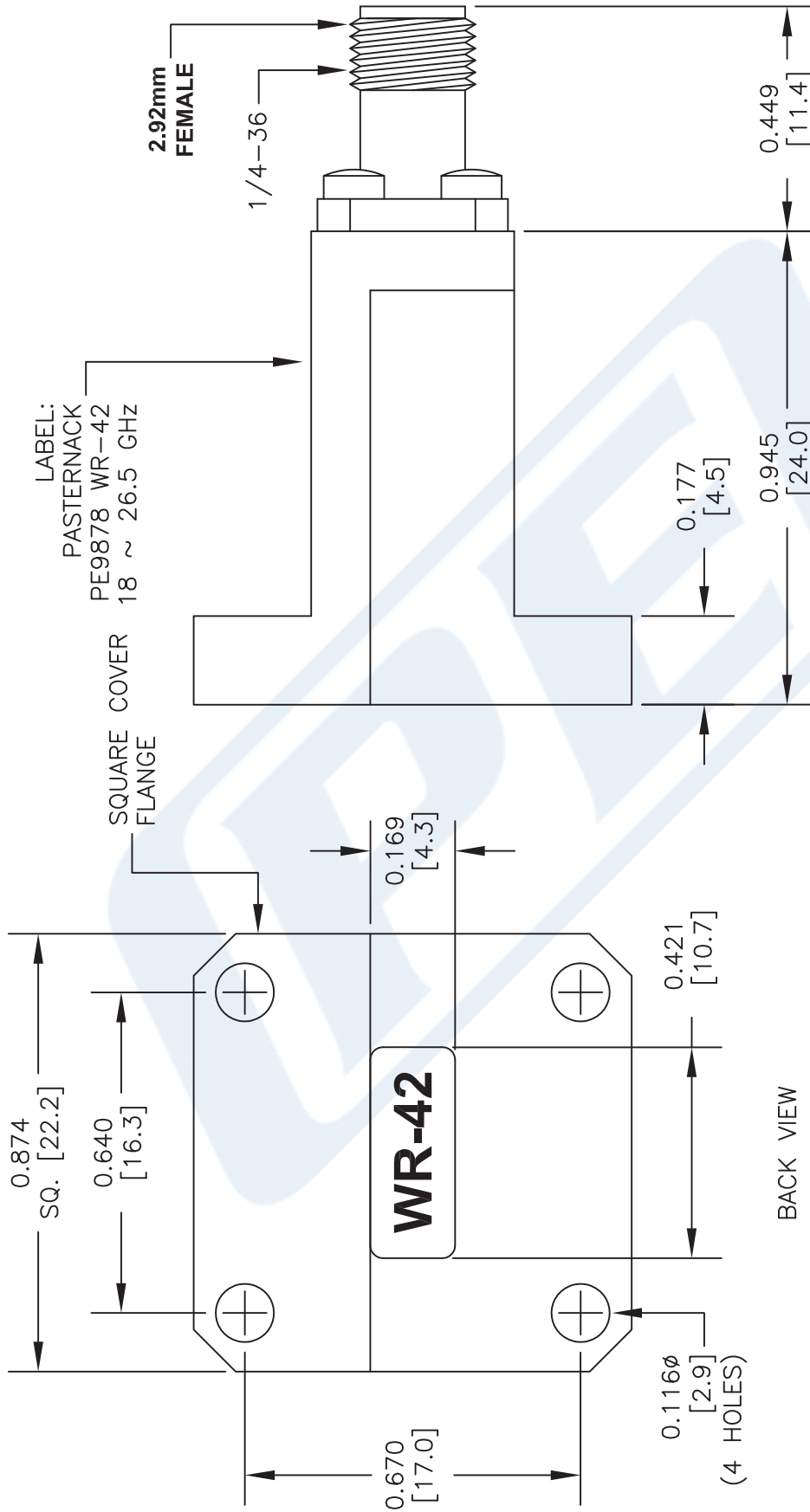
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-42 Square Cover Flange to End Launch 2.92mm Female Waveguide to Coax Adapter Operating From 18 GHz to 26.5 GHz, K Band PE9878](http://www.pasternack.com/wr-42-2.92mm-female-waveguide-coax-adapter-18-26.5-ghz-pe9878-p.aspx)

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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.

# 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

|   |  |  |                  |
|---|--|--|------------------|
| <p><b>DWG TITLE</b><br/><b>PE9878</b></p>   |  | <p>NOTES:<br/>1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.<br/>2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.<br/>3. DIMENSIONS ARE IN INCHES [mm].<br/>4. LENGTH TOLERANCE IS ± 1.5% OR 3/8", WHICHEVER IS GREATER.</p> |                  |
| <p><b>PASTERNAK</b><br/>THE ENGINEER'S RF SOURCE<br/>Pasternack Enterprises, Inc.<br/>P.O. Box 16759   Irvine   CA   92623<br/>Phone: (949) 261-1920   Fax: (949) 261-7451<br/>Website: www.pasternack.com   E-Mail: sales@pasternack.com</p> |  | <p>CAD FILE 040716</p>   | <p>SCALE N/A</p> |
| <p>FSCM NO. 53919</p>   |  | <p>SIZE A</p>  | <p>3045</p>      |