



WR-51 Square Type Flange to SMA Female Waveguide to Coax Adapter Operating From 15 GHz to 22 GHz, Ku-K Band

Waveguide to Coax Adapters Technical Data Sheet

PE9828

Features

- Ku-K Band, 15 to 22 GHz Frequency Range
- WR-51 Waveguide Interface with Square Type Flange
- SMA Female Coaxial Interface
- Comprehensive waveguide offerings also include E-Bends, H-Bends, Sections, Filters, Terminations, Couplers, and more.

Description

The PE9828 is a waveguide to coaxial adapter operating in the Ku-K band with a 15 to 22 GHz frequency range. This adapter offers a WR-51 waveguide interface size coupled with a precision tolerance square Type flange. The PE9828 is constructed of aluminum to ensure durability and repeatable RF performance. The SMA female connector mates with commercially available 2.92mm and 3.5mm connectors. The package is REACH and RoHS compliant.

Configuration

| | |
|----------------|-------------|
| Waveguide Size | WR-51 |
| Flange | Square Type |
| RF Connector | SMA Female |
| Impedance | 50 Ohms |
| Body Geometry | Right Angle |

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-----------------|---------|---------|---------|-------|
| Frequency Range | 15 | | 22 | GHz |
| VSWR | | | 1.3:1 | |

Mechanical Specifications

| | |
|-------------|---------------------|
| Size | |
| Length | 1.33 in [33.78 mm] |
| Width | 1.34 in [34.04 mm] |
| Height | 0.75 in [19.05 mm] |
| Weight | 0.101 lbs [45.81 g] |

RF Connector

| | |
|---------------------------|-----------------|
| Connector Type | SMA Female |
| Body Material and Plating | Stainless Steel |

Waveguide Interface

| | |
|---------------------------|-------------|
| Waveguide Type | WR-51 |
| Flange Type | Square Type |
| Body Material and Plating | Aluminum |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-51 Square Type Flange to SMA Female Waveguide to Coax Adapter Operating From 15 GHz to 22 GHz, Ku-K Band PE9828](#)



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Environmental Specifications

Temperature

Operating Range

-40 to +85 deg C

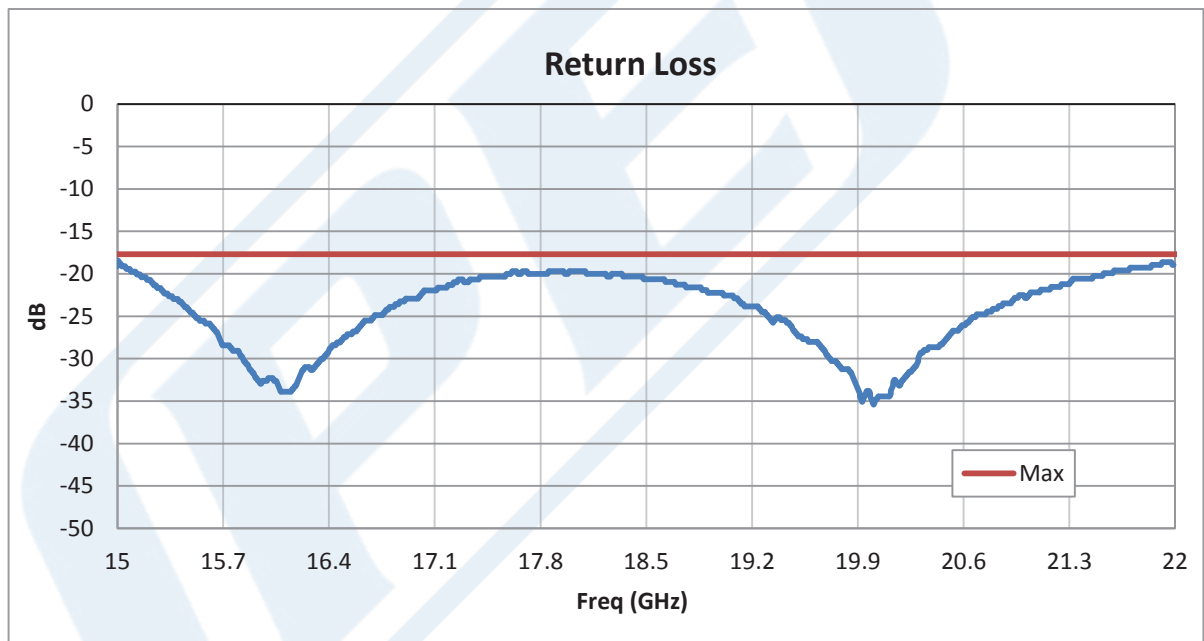
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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

Typical Performance Data



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WR-51 Square Type Flange to SMA Female Waveguide to Coax Adapter Operating From 15 GHz to 22 GHz, Ku-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.

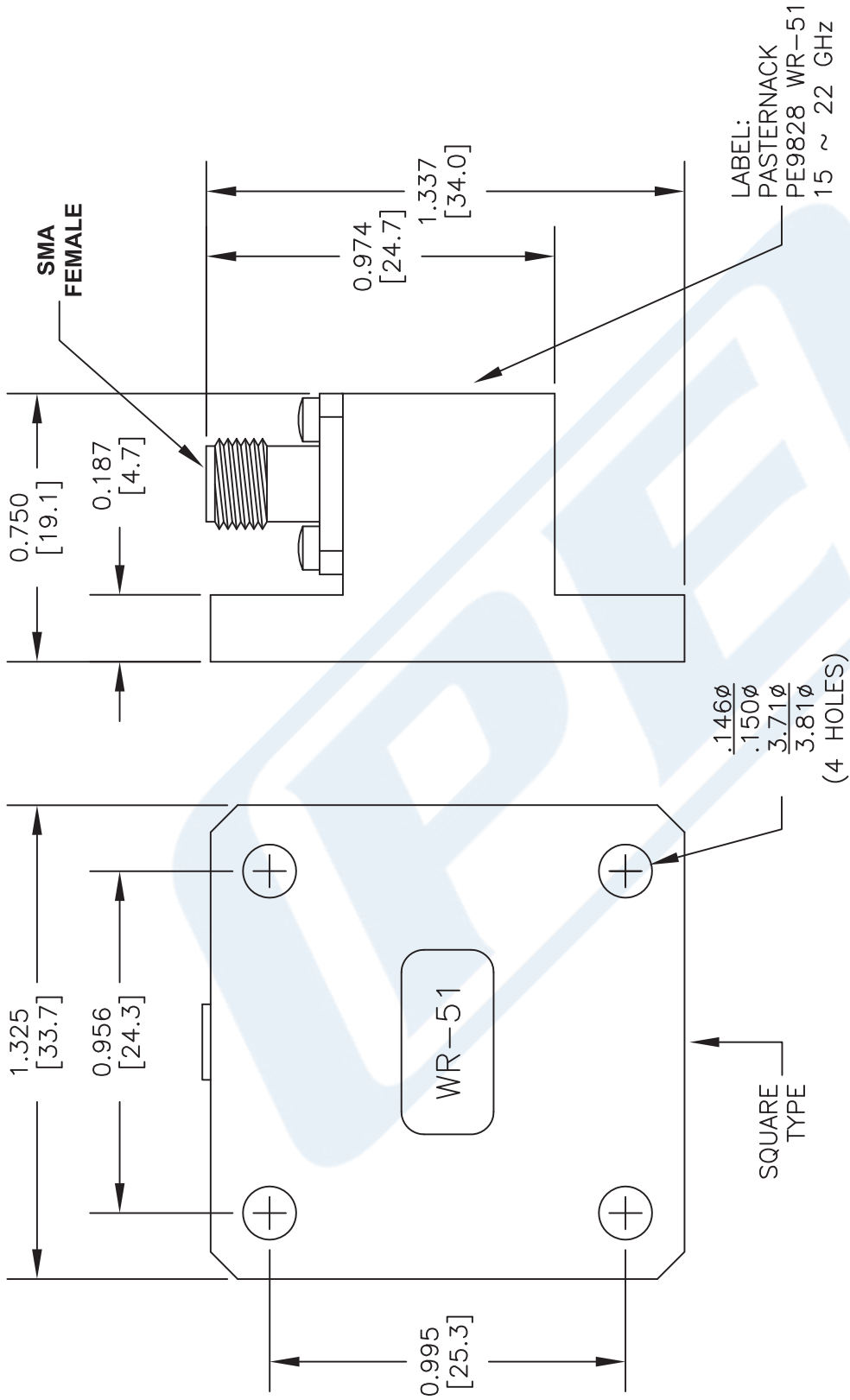
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URL: <https://www.pasternack.com/wr-51-sma-female-waveguide-coax-adapter-15-ghz-22-ghz-pe9828-p.aspx>

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.

PE9828 CAD Drawing

WR-51 Square Type Flange to SMA Female Waveguide to Coax Adapter Operating From 15 GHz to 22 GHz



STANDARD TOLERANCES

±0.012

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

DWG TITLE

PE9828

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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CAGE CODE 53919

CAD FILE 060717

SCALE N/A

SIZE A

2233