



WR-19 UG-383/U-Mod Round Cover Flange to 1.85mm Male Waveguide to Coax Adapter Operating from 40 GHz to 60 GHz

Waveguide to Coax Adapters Technical Data Sheet

PE-W19CA002

**Features**

- U Band, 40 to 60 GHz Frequency Range
- WR-19 Waveguide Interface with Precision Tolerance UG-383/U-Mod Flange
- 1.85 mm Male RF Interface
- Comprehensive waveguide offerings also include E-Bends, H-Bends, Sections, Filters, Terminations, Couplers, and more.

**Description**

The PE-W19CA002 is a waveguide to coaxial adapter operating in the U Band with a 40 to 60 GHz frequency range. This adapter offers a WR-19 waveguide interface size coupled with a precision tolerance UG-383/U-Mod flange. The PE-W19CA002 is constructed of aluminum and plated in gold to ensure durability and repeatable RF performance. The coaxial connector offered by this adapter uses a 1.85mm geometry endorsed by the International Electrotechnical Commission (IEC).

**Configuration**

|                |                          |
|----------------|--------------------------|
| Waveguide Size | WR-19                    |
| Flange         | UG-383/U-Mod Round Cover |
| RF Connector   | 1.85mm Male              |
| Impedance      | 50 Ohms                  |
| Body Geometry  | Right Angle              |

**Electrical Specifications**

| Description     | Minimum | Typical | Maximum | Units |
|-----------------|---------|---------|---------|-------|
| Frequency Range | 40      |         | 60      | GHz   |
| VSWR            |         |         | 1.38:1  |       |
| Insertion Loss  |         |         | 0.4     | dB    |

**Mechanical Specifications**

|             |                     |
|-------------|---------------------|
| <b>Size</b> |                     |
| Length      | 1 in [25.4 mm]      |
| Width       | 1.13 in [28.7 mm]   |
| Height      | 1.275 in [32.39 mm] |
| Weight      | 0.047 lbs [21.32 g] |

|                           |                 |
|---------------------------|-----------------|
| <b>RF Connector</b>       |                 |
| Connector Type            | 1.85mm Male     |
| Body Material and Plating | Stainless Steel |

|                            |             |
|----------------------------|-------------|
| <b>Waveguide Interface</b> |             |
| Waveguide Type             | WR-19       |
| Flange Type                | Round Cover |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-19 UG-383/U-Mod Round Cover Flange to 1.85mm Male Waveguide to Coax Adapter Operating from 40 GHz to 60 GHz PE-W19CA002](#)



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|                           |                |
|---------------------------|----------------|
| Flange Designation        | UG-383/U-Mod   |
| Body Material and Plating | Aluminum, Gold |
| Plating Specification     | ASTMB488       |

**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

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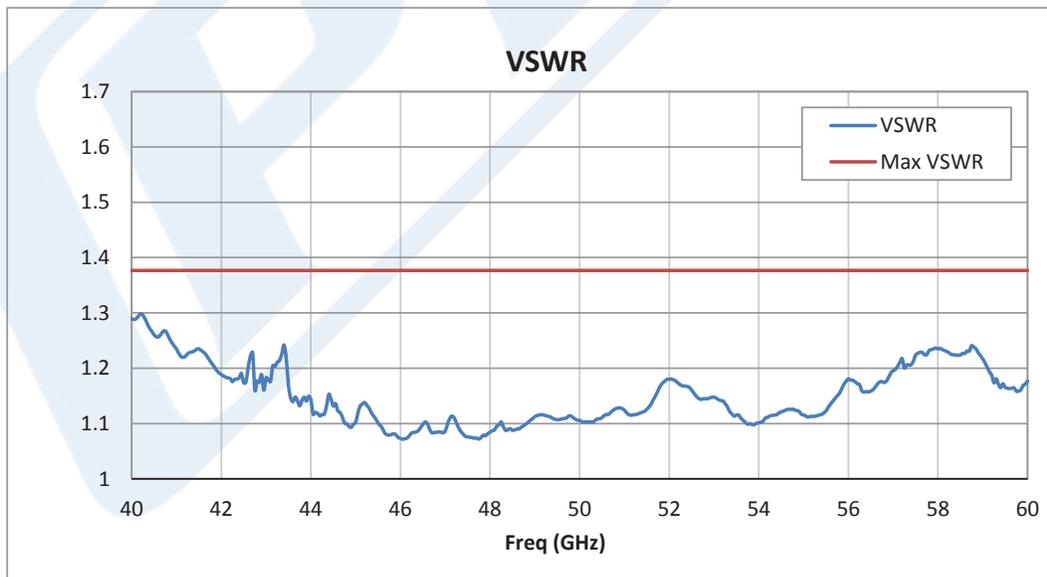
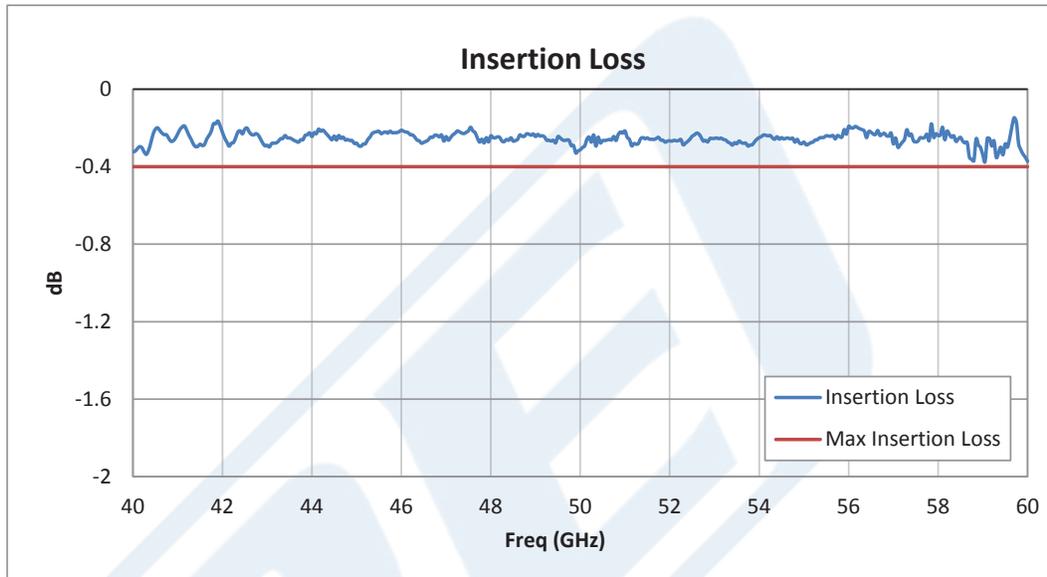


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Typical Performance Data



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WR-19 UG-383/U-Mod Round Cover Flange to 1.85mm Male Waveguide to Coax Adapter Operating from 40 GHz to 60 GHz 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.

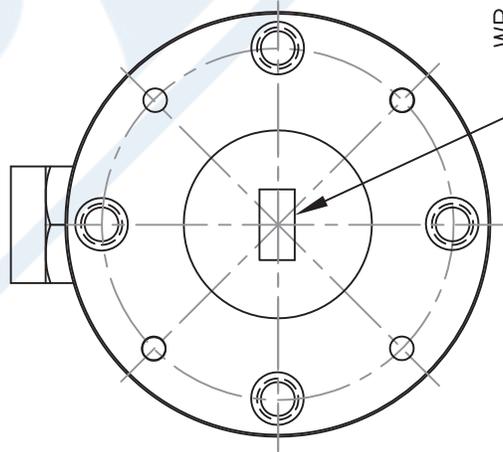
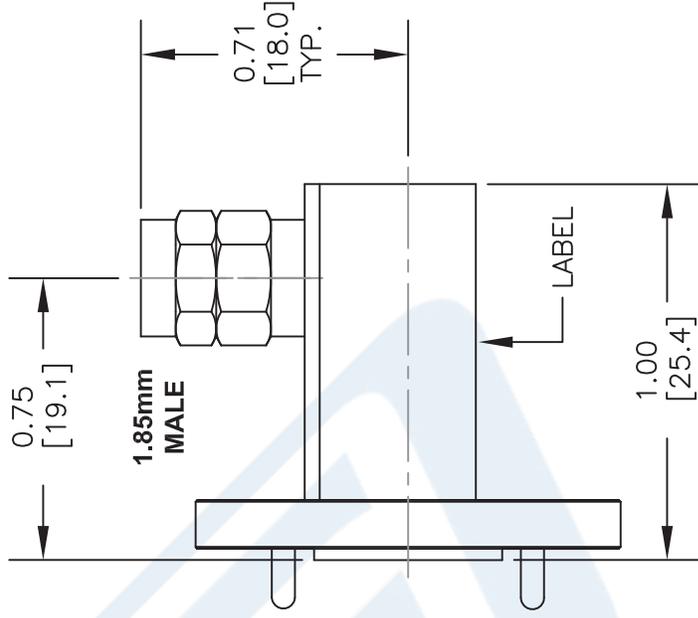
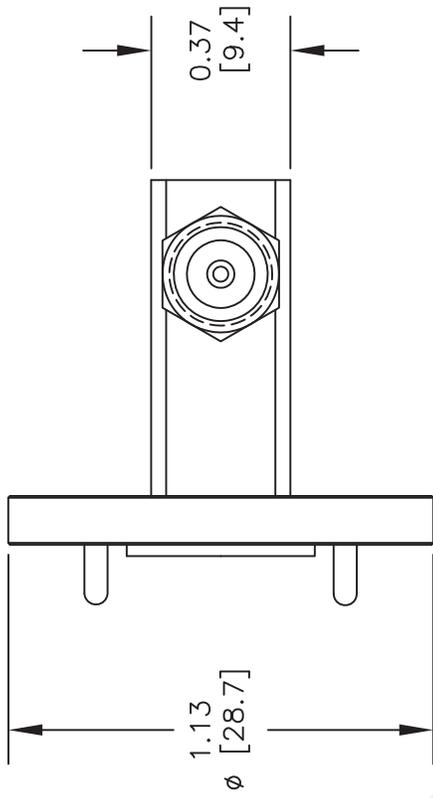
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements.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

# PE-W19CA002 CAD Drawing

WR-19 UG-383/U-Mod Round Cover Flange to 1.85mm Male Waveguide to Coax Adapter Operating from 40 GHz to 60 GHz



PART NUMBER  
DATE CODE

PE-W19CA002  
YYWW

LABEL

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:

| DECIMALS   | ANGLES | FRACTIONS |
|------------|--------|-----------|
| .XX ±.01   | ± 1/2° | ± 1/64    |
| .XXX ±.005 |        |           |

| HOLE DIAMETER  | TOLERANCE     |
|----------------|---------------|
| .0135 TO .125  | + .004/- .001 |
| .126 TO .250   | + .005/- .001 |
| .251 TO .500   | + .006/- .001 |
| .501 TO .750   | + .008/- .001 |
| .751 TO 1.000  | + .010/- .001 |
| 1.001 TO 2.000 | + .012/- .001 |

\* THESE DIMENSIONS AND TOLERANCES SUPERSEDE NOTE #1 ON TITLE BLOCK.

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].

DWG TITLE  
**PE-W19CA002**

FSCM NO. 53919

CAD FILE 101915

SCALE N/A

SIZE A

150



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