



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

### Waveguide to Coax Adapters Technical Data Sheet

PE-W19CA001

#### Features

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

#### Description

The PE-W19CA001 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-W19CA001 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 Female
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	1.13 in [28.7 mm]
Weight	0.0625 lbs [28.35 g]
<b>RF Connector</b>	
Connector Type	1.85mm Female
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 Female Waveguide to Coax Adapter Operating from 40 GHz to 60 GHz PE-W19CA001](#)



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Flange Designation  
Body Material and Plating  
Plating Specification

UG-383/U-Mod  
Aluminum, Gold  
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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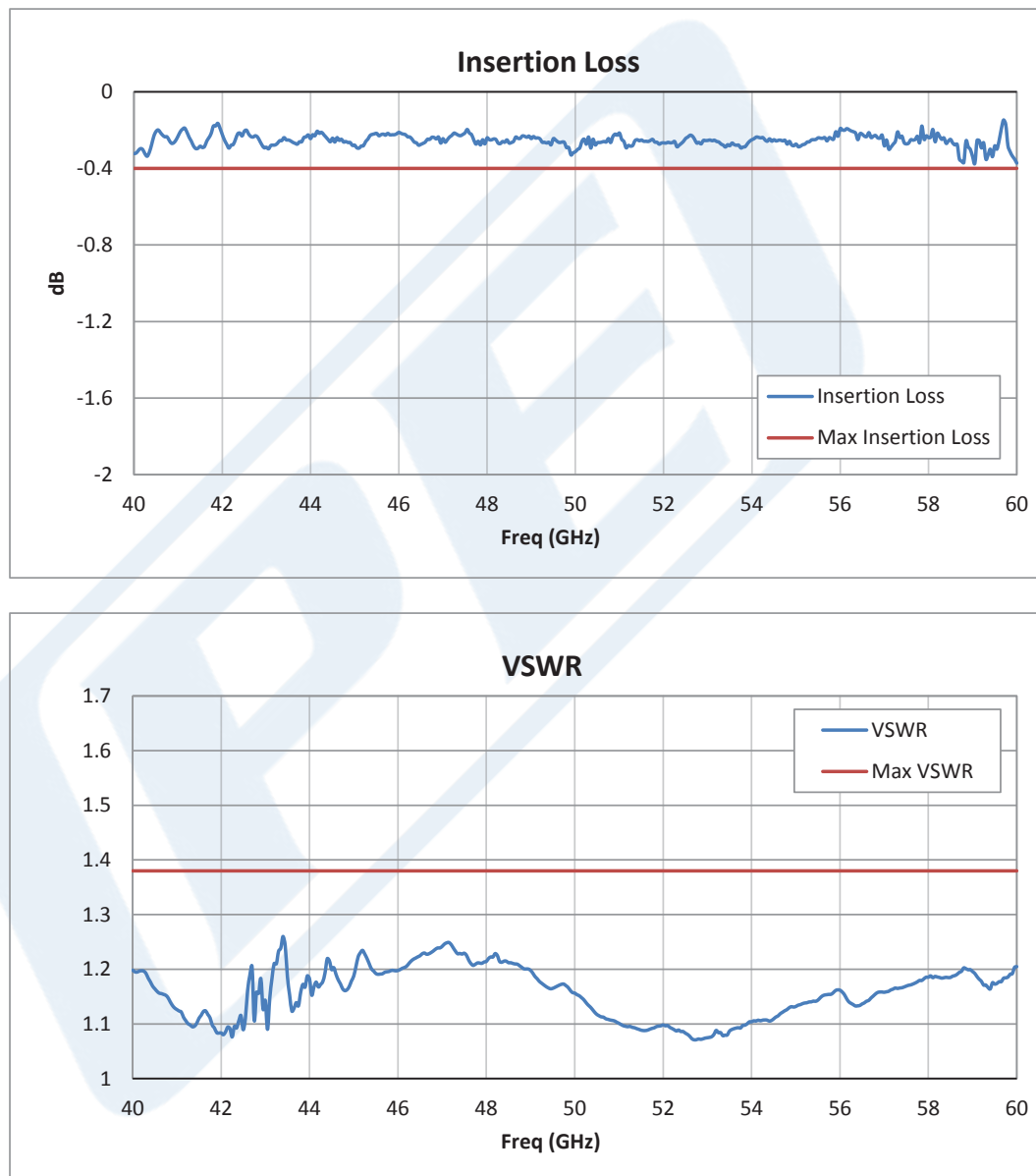


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Typical Performance Data



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

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WR-19 UG-383/U-Mod Round Cover Flange to 1.85mm Female 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.

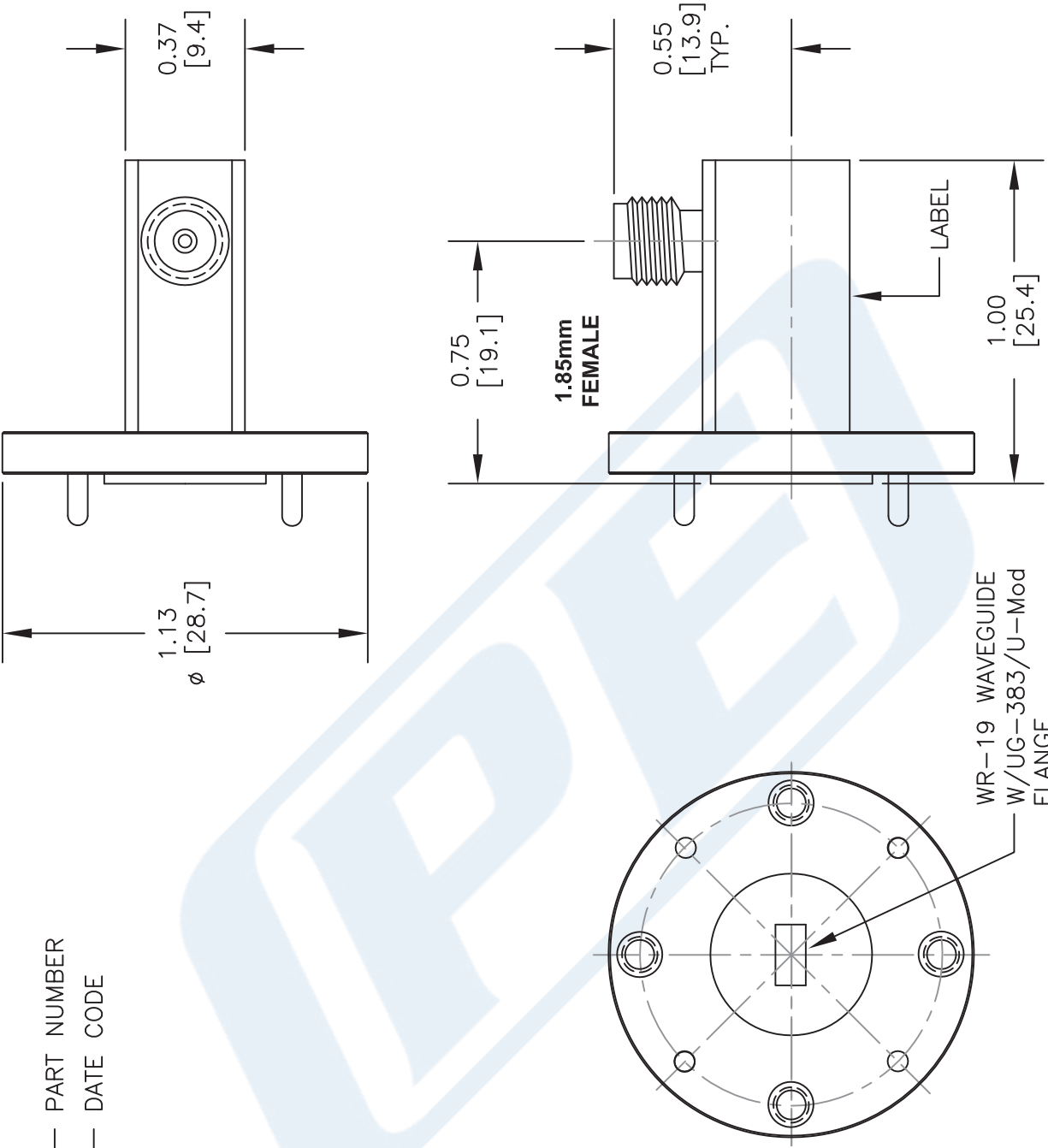
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URL: <https://www.pasternack.com/wr-19-ug383-mod-1.85mm-waveguide-coax-adapter-60-ghz-pe-w19ca001-p.aspx>

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.

PE-W19CA001 CAD Drawing

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



PART NUMBER  
DATE CODE  
PE-W19CA001  
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.

**PE PASTERNAK®**  
THE ENGINEER'S RF SOURCE

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DWG TITLE  
**PE-W19CA001**

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].

FSCM NO. 53919

CAD FILE 101915

SCALE N/A

SIZE A

150