



## Waveguide to Coax Adapters Technical Data Sheet

PE-W15CA001

### **Features**

- V Band, 50 to 65 GHz Frequency Range
- WR-15 Waveguide Interface with Precision Tolerance UG-385/U 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-W15CA001 is a waveguide to coaxial adapter operating in the V Band with a 50 to 65 GHz frequency range. This adapter offers a WR-15 waveguide interface size coupled with a precision tolerance UG-385/U flange. The PE-W15CA001 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 Flange RF Connector Impedance Body Geometry WR-15 UG-385/U Round Cover 1.85mm Female

50 Ohms Right Angle

## **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	50		65	GHz
VSWR			1.44:1	
Insertion Loss			0.5	dB

#### **Mechanical Specifications**

### Size

 Length
 1.05 in [26.67 mm]

 Width
 0.75 in [19.05 mm]

 Height
 0.905 in [22.99 mm]

 Weight
 0.0305 lbs [13.83 g]

#### **RF Connector**

Connector Type 1.85mm Female
Body Material and Plating Stainless Steel

#### **Waveguide Interface**

Waveguide Type WR-15
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-15 UG-385/U Round Cover Flange to 1.85mm Female Waveguide to Coax Adapter Operating from 50 GHz to 65 GHz PE-W15CA001

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

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Flange Designation Body Material and Plating Plating Specification UG-385/U 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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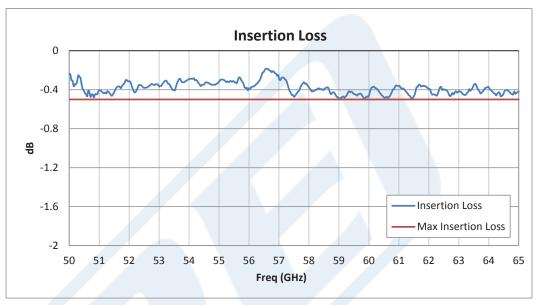


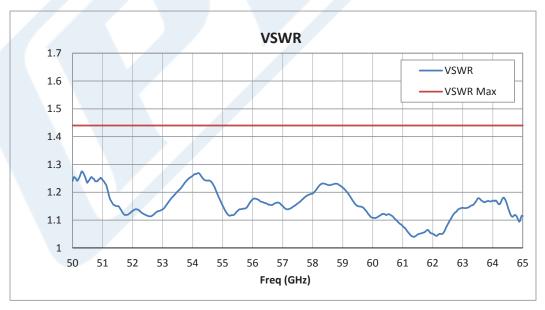


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### **Typical Performance Data**





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WR-15 UG-385/U Round Cover Flange to 1.85mm Female Waveguide to Coax Adapter Operating from 50 GHz to 65 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-15-ug-385-1.85mm-waveguide-coax-adapter-65-ghz-pe-w15ca001-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.

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# PE-W15CA001 CAD Drawing

WR-15 UG-385/U Round Cover Flange to 1.85mm Female Waveguide to Coax Adapter Operating from 50 GHz to 65 GHz

