



WR-10 UG-387/U-Mod Round Cover Flange to 1.0mm Female Waveguide to Coax Adapter Operating from 75 GHz to 110 GHz

Waveguide to Coax Adapters Technical Data Sheet

PE-W10CA003

Features

- W Band, 75 to 110 GHz Frequency Range
- WR-10 Waveguide
- UG-387/U-Mod Round Cover Flange
- 1.0 mm Female Coaxial RF Interface
- Comprehensive waveguide offerings also include E-Bends, H-Bends, Sections, Filters, Terminations, Couplers, and more.

Description

The PE-W10CA003 is a waveguide to coaxial adapter operating in the W Band with a 75 to 110 GHz frequency range. This adapter offers a WR-10 waveguide interface size coupled with a precision tolerance UG-387/U-Mod Round Cover flange. The PE-W10CA003 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 mm Female Connector endorsed by the International Electrotechnical Commission (IEC).

Configuration

Waveguide Size	WR-10
Flange	UG-387/U-Mod Round Cover
RF Connector	1.0mm Female
Impedance	50 Ohms
Body Geometry	Right Angle

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	75		110	GHz
VSWR		1.32:1		
Insertion Loss		1		dB
Input Power (CW)			10	Watts

Mechanical Specifications

Size	
Length	1 in [25.4 mm]
Width	0.75 in [19.05 mm]
Height	0.92 in [23.37 mm]
Weight	1.016 lbs [460.85 g]
RF Connector	
Connector Type	1.0mm Female
Body Material and Plating	Stainless Steel

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-10 UG-387/U-Mod Round Cover Flange to 1.0mm Female Waveguide to Coax Adapter Operating from 75 GHz to 110 GHz PE-W10CA003](#)



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Waveguide Interface

Waveguide Type	WR-10
Flange Type	Round Cover
Flange Designation	UG-387/U-Mod
Body Material and Plating	Aluminum, Gold
Plating Specification	ASTMB488

Environmental Specifications

Temperature

Operating Range	-40 to +85 deg C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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

WR-10 UG-387/U-Mod Round Cover Flange to 1.0mm Female Waveguide to Coax Adapter Operating from 75 GHz to 110 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/wr10-ug387-mod-round-flange-to-1.0mm-female-waveguide-coax-adapter-pe-w10ca003-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-W10CA003 CAD Drawing

WR-10 UG-387/U-Mod Round Cover Flange to 1.0mm Female Waveguide to Coax Adapter Operating from 75 GHz to 110 GHz

