



### Waveguide Direct Read Attenuators Technical Data Sheet

PE-W10AT5001

#### **Features**

- WR-10
- 75 to 110 GHz
- 0 to 50 dB minimum attenuation range
- Stable base with height adjustable feet (1/2 inch)
- UG-387/U-Mod Flange

- 1.20:1 Maximum VSWR
- 2% attenuation accuracy over most of the attenuation range.
- 0.2 Watt Maximum Power
- Easy to read drum scale

### **Applications**

- Instrumentation
- System Calibration
- · Research and Development
- Test Benches

#### Description

The PE-W10AT5001 is a continuously variable attenuator that has "direct read" capability which allows the user to dial-in the amount of attenuation needed to within 2% accuracy over most of the attenuation range. Designed for the WR-10 frequency range (75 to 110 GHz), it is constructed using a precision rotary resistive vane in a circular waveguide. The attenuation level is stable, highly repeatable and accurate across the full frequency and attenuation range. This attenuator is ideal for precision measurements in demanding applications like instrumentation and system calibration.

### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	75		110	GHz
Attenuation	0		50	dB
Accuracy		±2	±4	%
VSWR			1.2:1	
Insertion Loss			1	dB
Input Power (CW)			0.2	Watts

#### **Attenuation Accuracy**

Description	F1	F2	F3	F4	F5	Units
Attenuation Setting	10	20	30	40	50	dB
Accuracy	±0.2	±0.4	±0.6	±1.6	±2	dB

**Electrical Specification Notes:** 

Attenuation Accuracy is 0.1 dB or 2% of reading, whichever is greater, to 40 dB and 4% of reading from 40 dB to 50 dB. Maximum attenuation setting is 60 dB

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-10 Waveguide Direct Read Attenuator, 0 to 50 dB, From 75 GHz to 110 GHz, UG-387/U-Mod Round Cover Flange, Dial PE-W10AT5001

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

Sales@Pasternack.com • Techsupport@Pasternack.com





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#### **Mechanical Specifications**

Size

 Length
 4.77 in [121.16 mm]

 Width
 3.78 in [96.01 mm]

 Weight
 2.539 lbs [1.15 Kg]

Tuner Body Material and Plating
Tuner Finish
Aluminum
Black

UG-387/U-Mod	WR-10	UG-387/U-Mod
Round Cover		Round Cover
Brass	Brass	Brass
Gold	Gold	Gold
ASTMB488	ASTMB488	ASTMB488
Gold	Gold	Gold
	Gold ASTMB488	Gold Gold ASTMB488 ASTMB488

Compliance Certifications (see product page for current document)

**Plotted and Other Data** 

Notes:

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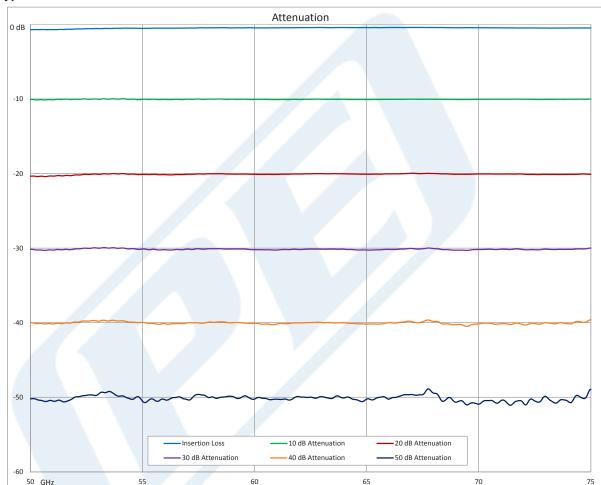




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#### **Typical Performance Data**



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WR-10 Waveguide Direct Read Attenuator, 0 to 50 dB, From 75 GHz to 110 GHz, UG-387/U-Mod Round Cover Flange, Dial 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/50-db-waveguide-direct-read-attenuators-wr-10-110-ghz-pe-w10at5001-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-W10AT5001 CAD Drawing

WR-10 Waveguide Direct Read Attenuator, 0 to 50 dB, From 75 GHz to 110 GHz, UG-387/U-Mod Round Cover Flange, Dial

