



## 0 to 50 dB Waveguide Direct Read Attenuator, WR-28, From 26.5 GHz to 40 GHz, Flange

### Waveguide Direct Read Attenuators Technical Data

PE-W28AT5001

#### Features

- WR-28
- 26.5 to 40 GHz
- 0 to 50 dB minimum attenuation range
- Stable base with height adjustable feet (1/2 inch)
- UG-599/U Flange
- 1.15:1 Maximum VSWR
- 2% attenuation accuracy over most of the attenuation range.
- 0.5 Watt Maximum Power
- Easy to read drum scale

#### Description

The PE-W28AT5001 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-28 frequency range (26.5 to 40 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	26.5		40	GHz
Attenuation	0		50	dB
Accuracy		±2	±4	%
VSWR			1.15:1	
Insertion Loss			0.5	dB
Input Power (CW)			0.5	Watts

#### Attenuation Accuracy

Description						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: [0 to 50 dB Waveguide Direct Read Attenuator, WR-28, From 26.5 GHz to 40 GHz, Flange PE-W28AT5001](#)



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### Mechanical Specifications

#### Size

Length

4.75 in [120.65 mm]

Width

6.87 in [174.5 mm]

Tuner Body Material and Plating

Aluminum

Tuner Finish

Black

Description	Flange 1	Waveguide	Flange 2
Interface	UG-599/U	WR-28	UG-599/U
Material	Brass	Brass	Brass
Plating	Gold	Gold	Gold
Plating Specification	ASTMB488	ASTMB488	ASTMB488
Finish	Gold	Gold	Gold

### Compliance Certifications (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

RoHS Compliant

REACH Compliant

06/14/2015

### Plotted and Other Data

Notes:

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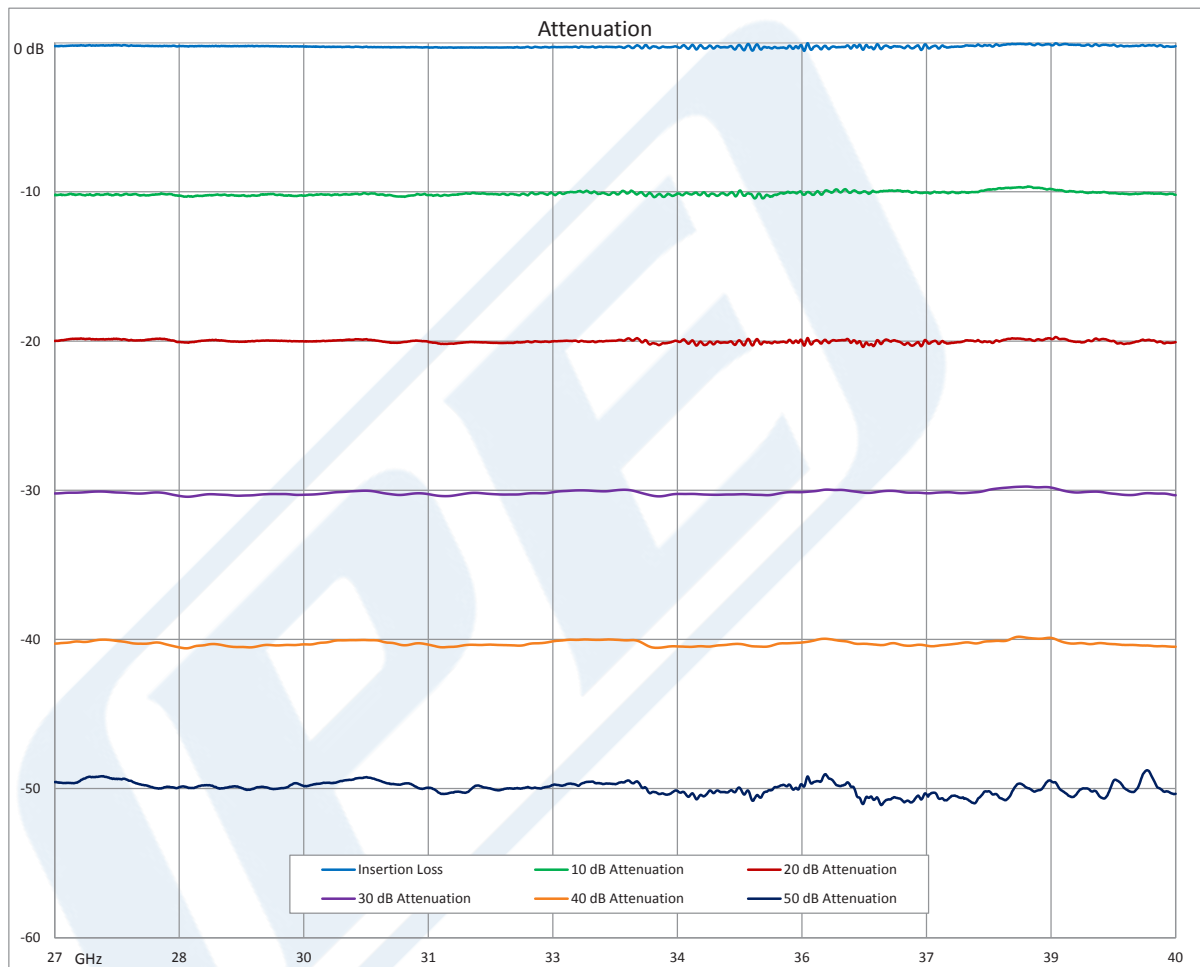


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Typical Performance Data



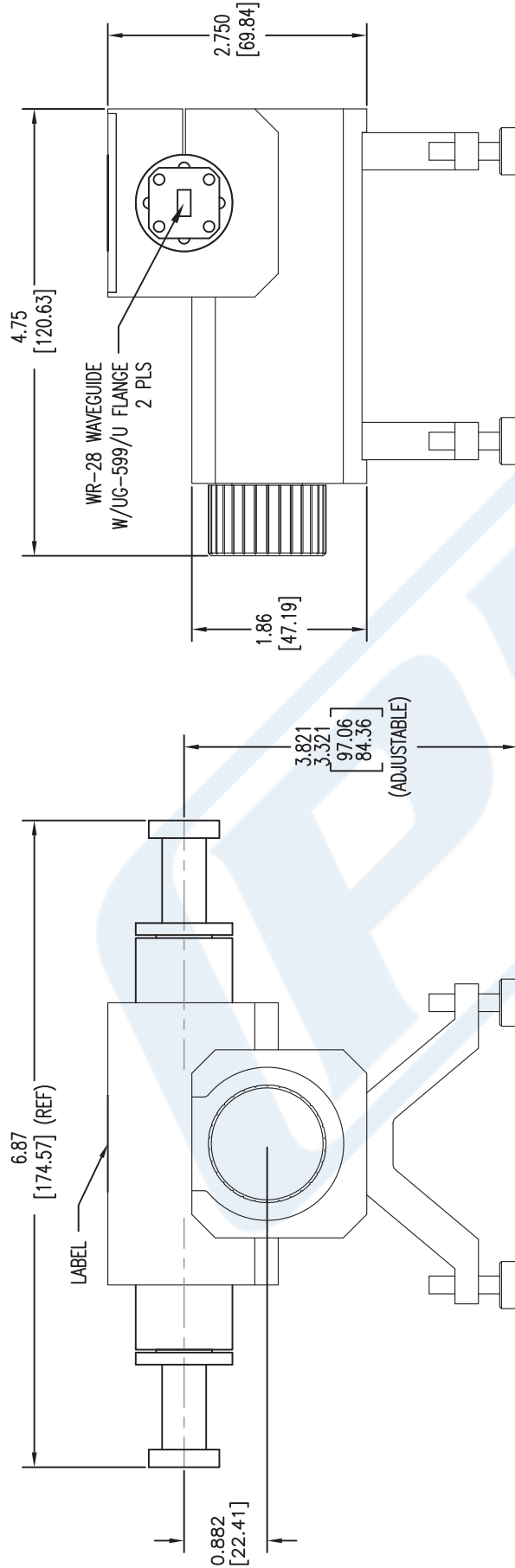
0 to 50 dB Waveguide Direct Read Attenuator, WR-28, From 26.5 GHz to 40 GHz, Flange from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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URL: <http://www.pasternack.com/50-db-waveguide-direct-read-attenuators-wr-28-40-ghz-pe-w28at5001-p.aspx>

# PE-W28AT5001 CAD Drawing

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UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN: inches [mm]

TOLERANCES ARE:

.XX ± .10 [± 2.54]

.XXX ± .005 [± .127]

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

**PE PASTERNAK®**  
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DWG TITLE

**PE-W28AT5001**

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 120415

SCALE N/A

SIZE A

2233