



## 0 to 50 dB Waveguide Direct Read Attenuator, WR-42, From 18 GHz to 26.5 GHz, Flange

### Waveguide Direct Read Attenuators Technical Data

PE-W42AT5001

#### Features

- WR-42
- 18 to 26.5 GHz
- 0 to 50 dB minimum attenuation range
- Stable base with height adjustable feet (1/2 inch)
- UG-595/U Flange
- 1.15:1 Maximum VSWR
- 2% attenuation accuracy over most of the attenuation range.
- 1 Watt Maximum Power
- Easy to read drum scale

#### Description

The PE-W42AT5001 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-42 frequency range (18 to 26.5 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	18		26.5	GHz
Attenuation	0		50	dB
Accuracy		±2	±4	%
VSWR			1.15:1	
Insertion Loss			0.5	dB
Input Power (CW)			1	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-42, From 18 GHz to 26.5 GHz, Flange PE-W42AT5001](#)



0 to 50 dB Waveguide Direct Read Attenuator, WR-42, From 18 GHz to 26.5 GHz, Flange

Waveguide Direct Read Attenuators Technical Data

PE-W42AT5001

**Mechanical Specifications**

**Size**

Length 4.74 in [120.4 mm]  
Width 9.38 in [238.25 mm]

Tuner Body Material and Plating Aluminum  
Tuner Finish Black

Description	Flange 1	Waveguide	Flange 2
Interface	UG-595/U	WR-42	UG-595/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:

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-42, From 18 GHz to 26.5 GHz, Flange PE-W42AT5001](#)

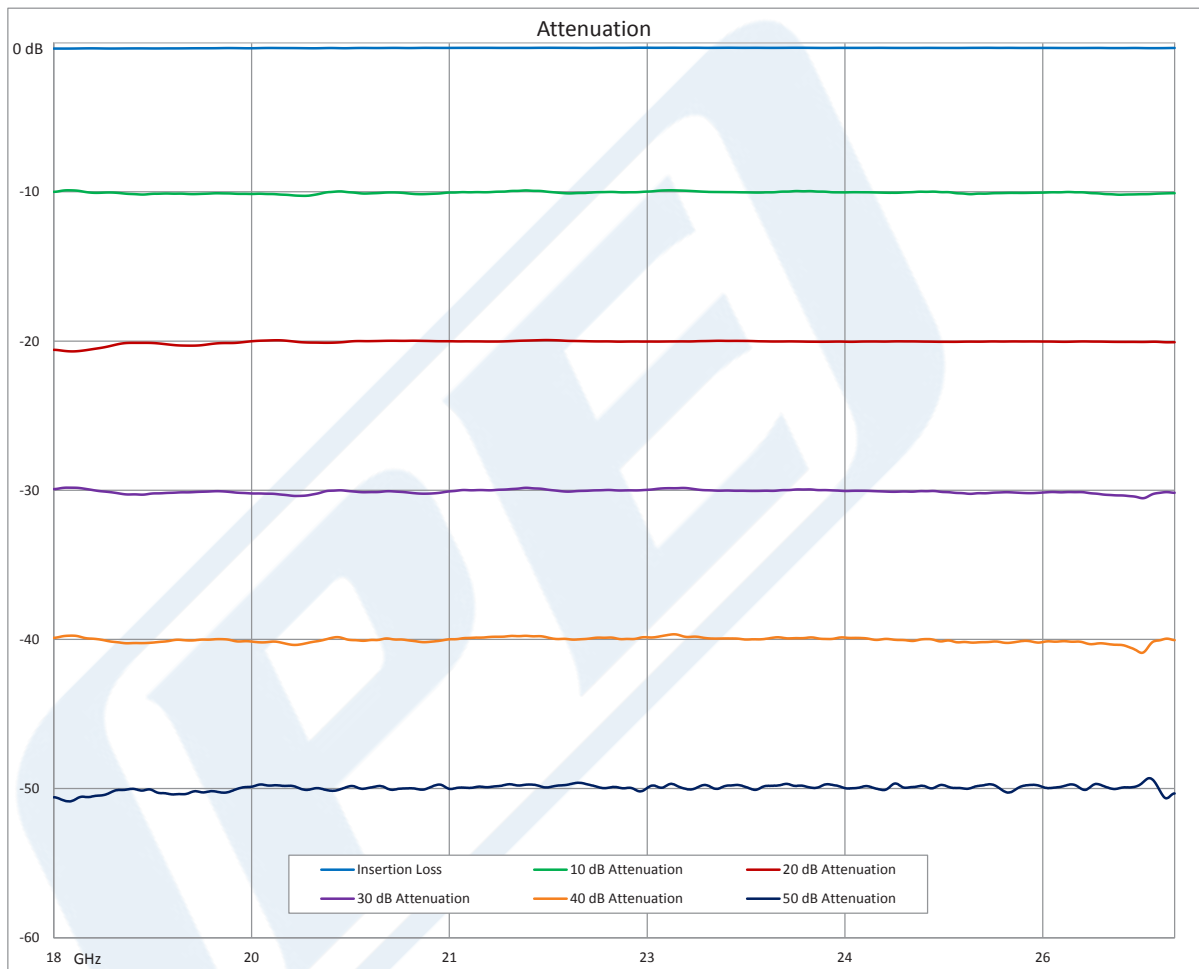


0 to 50 dB Waveguide Direct Read Attenuator, WR-42, From 18 GHz to 26.5 GHz, Flange

Waveguide Direct Read Attenuators Technical Data

PE-W42AT5001

Typical Performance Data



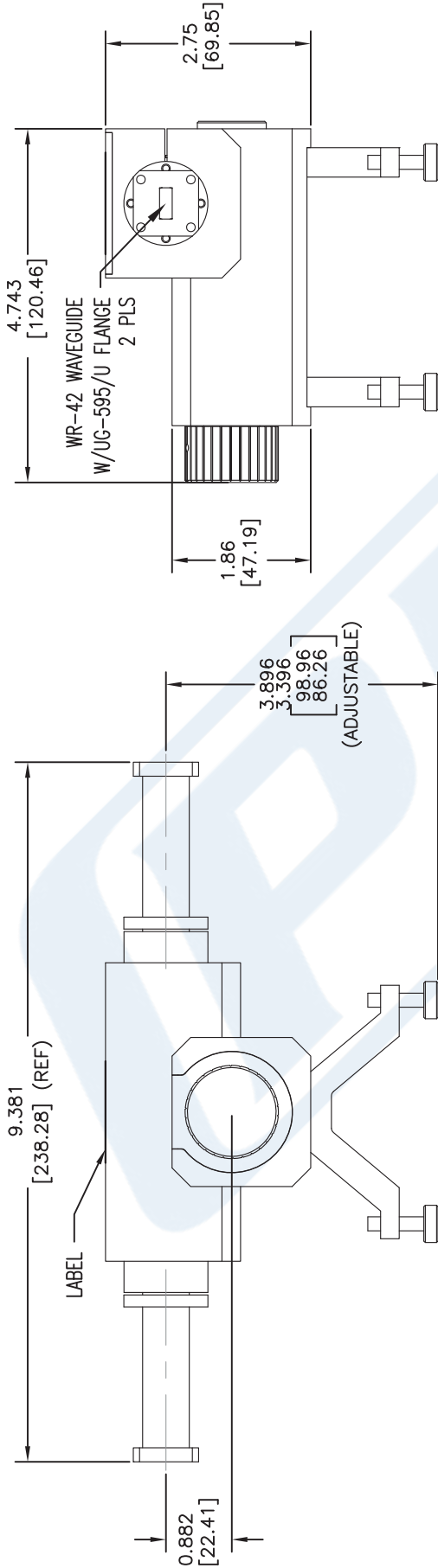
0 to 50 dB Waveguide Direct Read Attenuator, WR-42, From 18 GHz to 26.5 GHz, Flange from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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-42, From 18 GHz to 26.5 GHz, Flange PE-W42AT5001](http://www.pasternack.com/50-db-waveguide-direct-read-attenuators-wr-42-26.5-ghz-pe-w42at5001-p.aspx)

URL: <http://www.pasternack.com/50-db-waveguide-direct-read-attenuators-wr-42-26.5-ghz-pe-w42at5001-p.aspx>

# PE-W42AT5001 CAD Drawing

0 to 50 dB Waveguide Direct Read Attenuator, WR-42, From 18 GHz to 26.5 GHz, Flange



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.

DWG TITLE  
**PE-W42AT5001**

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].

**PE PASTERNAK**  
 THE ENGINEER'S RF SOURCE  
 Pasternack Enterprises, Inc.  
 P.O. Box 16759 | Irvine | CA | 92623  
 Phone: (949) 261-1920 | Fax: (949) 261-7451  
 Website: www.pasternack.com | E-Mail: sales@pasternack.com

FSCM NO. 53919

CAD FILE 121415

SCALE N/A

SIZE A

2233