

# 0 to 50 dB WR-15 Waveguide Direct Read Attenuator From 50 GHz to 75 GHz, Dial UG-385/U Flange



# SMW15AT5001

#### **Features**

- WR-15
- 50 to 75 GHz
- 0 to 50 dB minimum attenuation range
- Stable base with height adjustable feet (1/2 inch)
- UG-385/U Flange

#### **Applications**

- · System Calibration
- Instrumentation

- 1.20:1 Maximum VSWR
- 2% attenuation accuracy over most of the attenuation range.
- 0.3 Watt Maximum Power
- · Easy to read drum scale
- Test Benches
- · Research and Development

### Description

The SMW15AT5001 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-15 frequency range (50 to 75 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	50		75	GHz
Attenuation	0		50	dB
Accuracy %		±2	±4	%
VSWR			1.2:1	
Insertion Loss			0.8	dB
Input Power, CW			0.3	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

## **Mechanical Specifications**

Size

Length 4.77 in [121.16 mm]
Width 4.05 in [102.87 mm]
Height 0 in [0 mm]
Weight 2.58 lbs [1.17 kg]



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Tuner Body Material and Plating Tuner Finish

Aluminum Black

## Configuration

#### **Connectors**

Flange 1	Waveguide	Flange 2	
UG-385/U	WR-15	UG-385/U	
Round Cover		Round Cover	
Brass	Brass	Brass	
Gold	Gold	Gold	
ASTMB488	ASTMB488	ASTMB488	
Gold	Gold	Gold	
	UG-385/U Round Cover Brass Gold ASTMB488	UG-385/U         WR-15           Round Cover         Brass           Brass         Brass           Gold         Gold           ASTMB488         ASTMB488	

#### **Environmental Specifications**

**Temperature** 

Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:

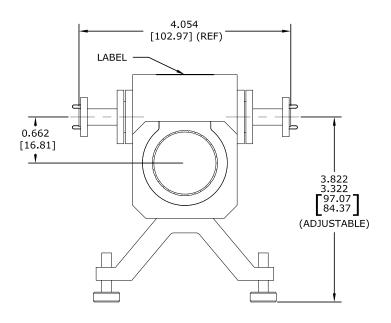
0 to 50 dB WR-15 Waveguide Direct Read Attenuator From 50 GHz to 75 GHz, Dial UG-385/U Flange from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

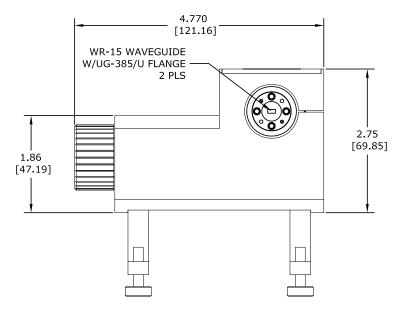
For additional information on this product, please click the following link: 0 to 50 dB WR-15 Waveguide Direct Read Attenuator From 50 GHz to 75 GHz, Dial UG-385/U Flange SMW15AT5001

URL: https://www.fairviewmicrowave.com/50-db-wr-15-waveguide-direct-read-attenuators-75-ghz-smw15at5001-p.aspx

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UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN: inches
[mm]

TOLERANCES ARE:
.XX ± .10 [± 2.54]
.XXX ± .005 [± .127]

<sup>\*</sup> THESE DIMENSIONS AND TOLERANCES SUPERSEDE NOTE #1 ON TITLE BLOCK.

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TITLE	DWG NO SMW15AT5001		CAG	CAGE CODE 3FKR5		
	CAD FILE 121415	SHEET	SCALE N//	A SIZE A	2233	