



WR-22 Direct Read Waveguide Attenuator with Dial 0 to 60 dB Operationg from 33 GHz to 50 GHz, UG-383/U Round Cover Flange

SMW22AT5002

Features

- · WR-22 Waveguide
- 33 to 50 GHz
- · 0 to 60 dB attenuation range
- Stable base with height adjustable feet (1/2 inch)
- UG-383/U Flange

Applications

- Instrumentation
- · System Calibration

- 1.15:1 Maximum VSWR
- 2% attenuation accuracy over most of the attenuation range.
- · 0.5 Watt Maximum Power
- · Easy to read drum scale
- · Research and Development
- · Test Benches

Description

The SMW22AT5002 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-22 frequency range (33 to 50 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 | 33 | | 50 | GHz |
| Attenuation | 0 | | 60 | dB |
| Accuracy | | ±0.1 | | |
| VSWR | | | 1.15:1 | |
| Insertion Loss | | 0.6 | | |
| Input Power, CW | | | 0.5 | 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 |

Mechanical Specifications

Size

Length Width Height Weight

Tuner Body Material and Plating

Tuner Finish

4.75 in [120.65 mm] 6.25 in [158.75 mm] 0 in [0 mm]

45.83 lbs [20.79 kg]

Aluminum Black





WR-22 Direct Read Waveguide Attenuator with Dial 0 to 60 dB Operationg from 33 GHz to 50 GHz, UG-383/U Round Cover Flange



SMW22AT5002

Configuration

Connectors

| Description | Flange 1 | Waveguide | Flange 2 |
|-----------------------|-------------|-----------|-------------|
| Designation | UG-383/U | WR-22 | UG-383/U |
| Туре | Round Cover | | Round Cover |
| laterial | Brass | Brass | Brass |
| Plating | Gold | Gold | Gold |
| Plating Specification | ASTMB488 | ASTMB488 | ASTMB488 |
| Finish | Gold | Gold | Gold |

Environmental Specifications

Temperature

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

WR-22 Direct Read Waveguide Attenuator with Dial 0 to 60 dB Operationg from 33 GHz to 50 GHz, UG-383/U Round Cover 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.

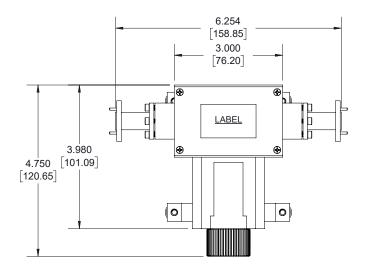
For additional information on this product, please click the following link: WR-22 Direct Read Waveguide Attenuator with Dial 0 to 60 dB Operationg from 33 GHz to 50 GHz, UG-383/U Round Cover Flange SMW22AT5002

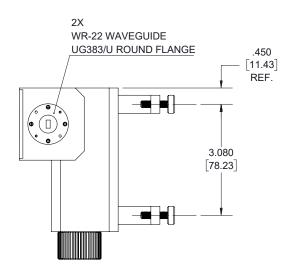
URL: https://www.fairviewmicrowave.com/60-db-wr-22-waveguide-direct-read-attenuators-50-ghz-ug383-round-sm-w22at5002-p.aspx

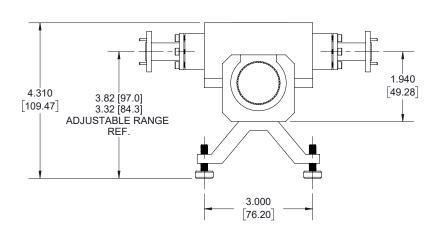
The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to impliment improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume liability arising out of the use of any part or document.

SMW22AT5002 CAD Drawing

WR-22 Direct Read Waveguide Attenuator with Dial 0 to 60 dB Operationg from 33 GHz to 50 GHz, UG-383/U Round Cover Flange







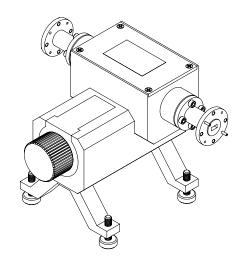
LABEL

FAIRVIEW MICROWAVE SMW22AT5002 D/C: YYWW

STANDARD TOLERANCES
.X ±0.2

.XX ±0.2 .XX ±0.01 .XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



| Fairview Microwave | 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]. | | | TIME. | | |
|--------------------|--|--------------|------|-----------------|--------|------|
| an INFINITe brand | 3. DIMENSIONS ARE IN INCIDES [IIIIII]. | | | | | |
| TITLE | DWG NO SMW22AT5002 | | | CAGE CODE 3FKR5 | | |
| | CAD FILE 08/27/19 | SHEET 1 OF 1 | SCAL | E N/A | SIZE A | 7361 |