



WR-04 Band Direct Reading Attenuator

Description:

Model STA-60-04-D1 is a direct reading, rotary vane attenuator for use in millimeter wave systems across the standard WR-04 waveguide frequency range of 170 to 260 GHz. The attenuator has a large scale dial which indicates the attenuation value directly. The attenuator is an ideal piece of equipment in waveguide systems where a broad direct reading of attenuation is required. The attenuator exhibits a typical 5.0 dB insertion loss and up to a maximum of 50 dB attenuation. The accuracy of the attenuator is 0.1 dB or 3% of the reading, whichever is larger, up to 40 dB, 5% up to 50 dB, and “for reference only” above 50 dB.



Features:

- Full Band Coverage
- High Attenuation Accuracy
- Large Scaled Dial

Applications:

- Test Lab
- Instrumentations
- Manual Test Set

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
RF Frequency Range	170 GHz		260 GHz
Insertion Loss		5.0 dB	
Return Loss		16 dB	
Attenuation Range	0 dB		50 dB
Attenuation Accuracy	0.1 dB or 3% of reading, whichever is larger, up to 40 dB		
Power Handling			10 mW
Specification Temperature		+25 °C	
Operating Temperature		+25 °C	

*This product is intended to be used in a controlled lab environment.

To ensure best possible accuracy and prevent unintended behavior, please operate the unit as close to +25 °C room temperature as possible.

Mechanical Specifications:

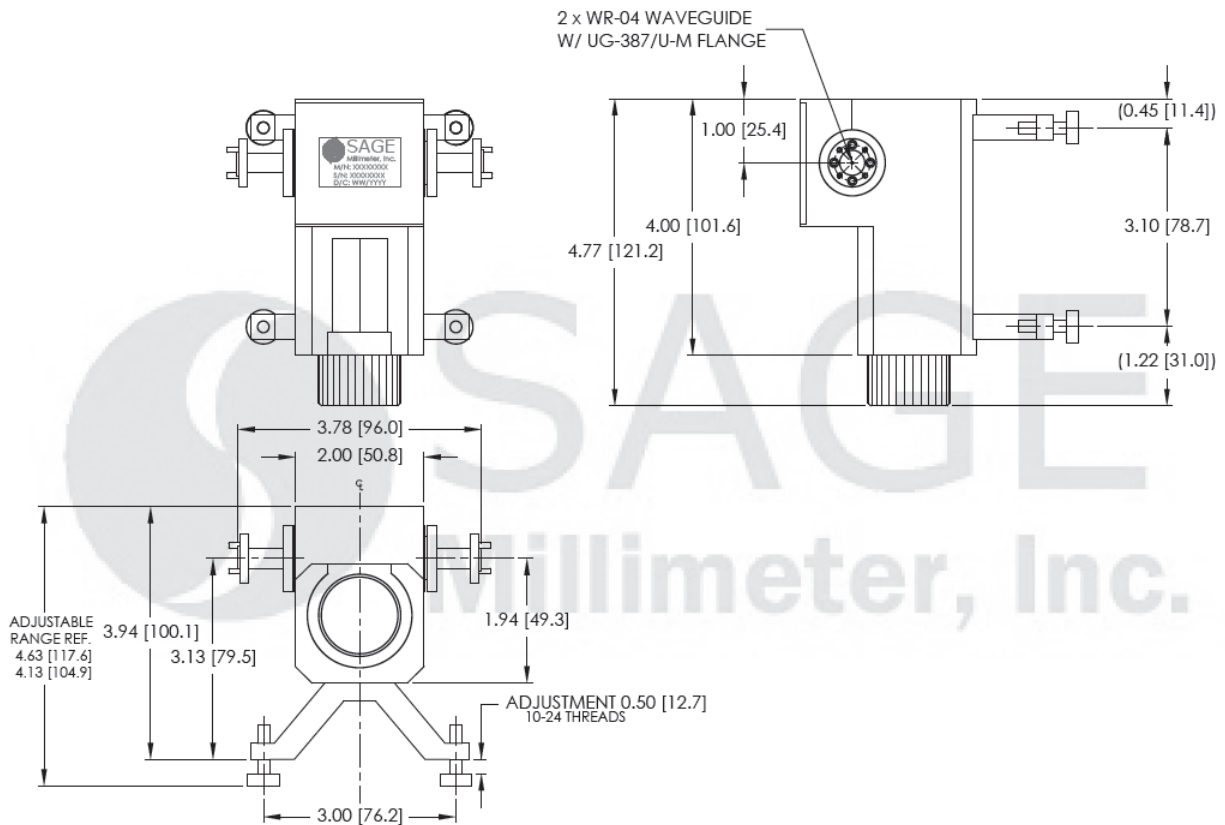
Item	Specification
RF Input	WR-04 Waveguide with UG-387/U-M Flange
RF Output	WR-04 Waveguide with UG-387/U-M Flange
Reading	Large Scale Dial
Scale Increments	0.01 dB (0 to 0.1 dB); 0.05 dB (0.1 to 1.0 dB); 0.1 dB (1.0 to 10 dB) 0.2 dB (10 to 20 dB); 0.5 dB (20 to 30 dB); 1.0 dB (30 to 50 dB)
Insertion Length	3.78"
Finish	Black Anodized
Weight	2.0 lb
Outline	TA-D04-M1





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Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



Note:

- Calibration accuracy is 0.1 dB or 3% of the reading, whichever is greater, for attenuation ranges up to 40 dB, 5% up to 50 dB, and “for reference only” above 50 dB.
- All calibration and testing are performed at +25 °C room temperature.
- **This product is intended to be used in a controlled lab environment. To ensure best possible accuracy and prevent unintended behavior, please operate the unit as close to +25 °C room temperature as possible.**
- The attenuation flatness is ±2% or ±0.5 dB of the indicated value, whichever is greater, for the frequency band.
- The phase shift value does change while varying the attenuation.
- Eravant reserves the right to change the information presented without notice.

Caution:

- Exceeding absolute maximum ratings shown will damage the device.
- Any foreign objects in the waveguide will cause performance degradation and may damage the device.

