

STA-60-19-D1-WP

U-Band Direct Reading Attenuator

STA-60-19-D1-WP is a direct reading, rotary vane attenuator for use in millimeter wave systems across the standard U-band frequency range of 40 to 60 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 0.7 dB nominal insertion loss and up to maximum 60 dB attenuation. The accuracy of the attenuator is 0.1 dB or 3% of the reading, whichever is larger, up to 40 dB and “for reference only” above 40 dB, up to 40 dB, 5% up to 50 dB, and “for reference only” above 50 dB.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	40 GHz		60 GHz
Insertion Loss			0.7 dB
Return Loss		22 dB	
Attenuation Range	0 dB		60 dB
Attenuation Accuracy	0.1 dB or 3% of reading, whichever is larger, up to 40 dB		
Power Handling			500 mW (CW)
Specification Temperature		+25°C	
Operating Temperature		+25°C	

Mechanical Specifications:

Item	Specification
RF Ports	WR-19 Waveguide with UG-383/U-M Flange
Reading	Large Scale Dial
Insertion Length	5.94"
Scale Increment	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)
Finish	Black Anodized
Weight	2.78 lb
Outline	TA-DU

ECCN

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FEATURES

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

APPLICATIONS

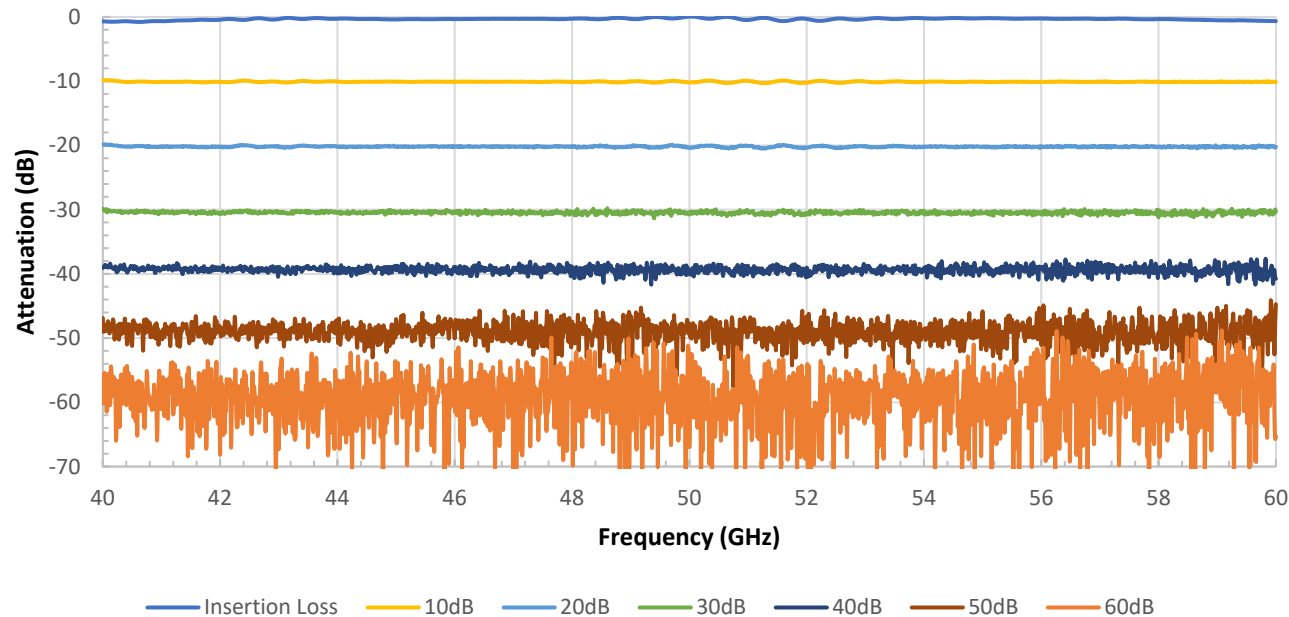
- Test Lab
- Instrumentations
- Manual Test Set

SUPPLEMENTAL DETAILS

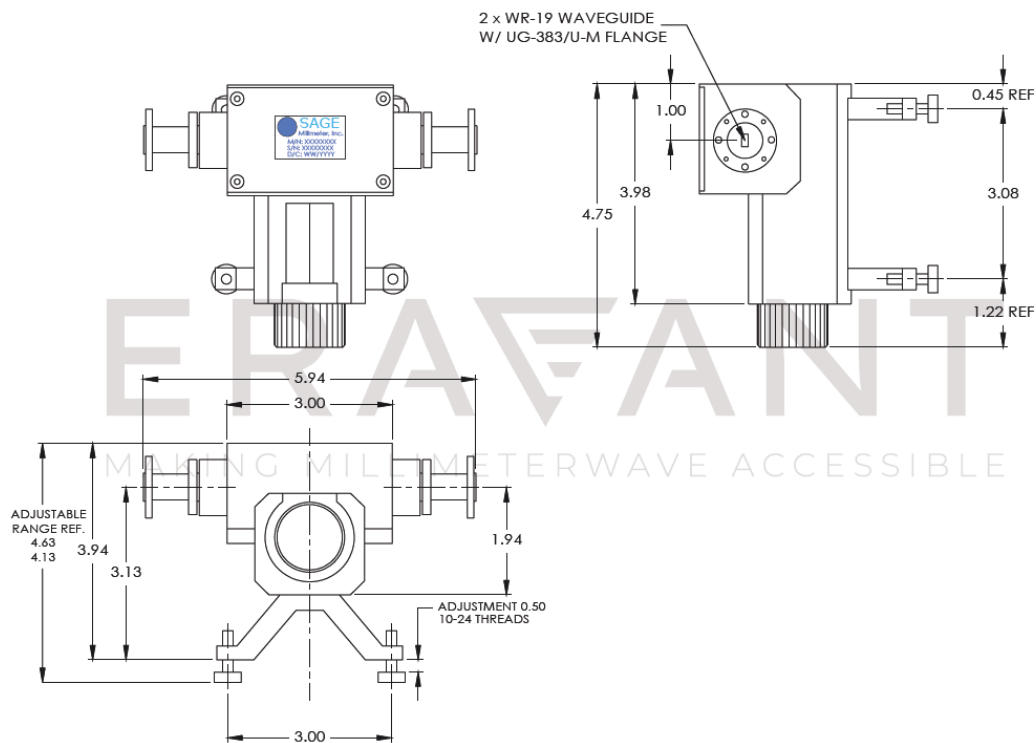


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Typical Measured Attenuation vs Frequency



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 $\pm 2\%$ 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.

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