STA-60-08-D1-WP

F-Band Direct Reading Attenuator

STA-60-08-D1-WP is a direct reading, rotary vane attenuator for use in millimeter wave systems across the standard F-band frequency range of 90 to 140 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 2.2 dB typical insertion loss and up to maximum 60 dB attenuation. The accuracy of the attenuator is 0.2 dB or 5% of the reading, whichever is larger, up to 40 dB, and “for reference only” above 40 dB.

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	90 GHz		140 GHz
Insertion Loss		2.2 dB	
Attenuation Range	0 dB		60 dB
Return Loss		18 dB	
Power Handling			200 mW (CW)
Specification Temperature		+25°C	
Operating Temperature		+25°C	

Mechanical Specifications:

Item	Specification
RF Ports	WR-08 Waveguide with UG-387/U-M Flange
Reading	Large Scale Dial
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); 2.5 dB (above 50 dB)
Insertion Length	3.78”
Finish	Black Anodized
Weight	2.2 lb.
Outline	TA-DF

ECCN

EAR99

FEATURES

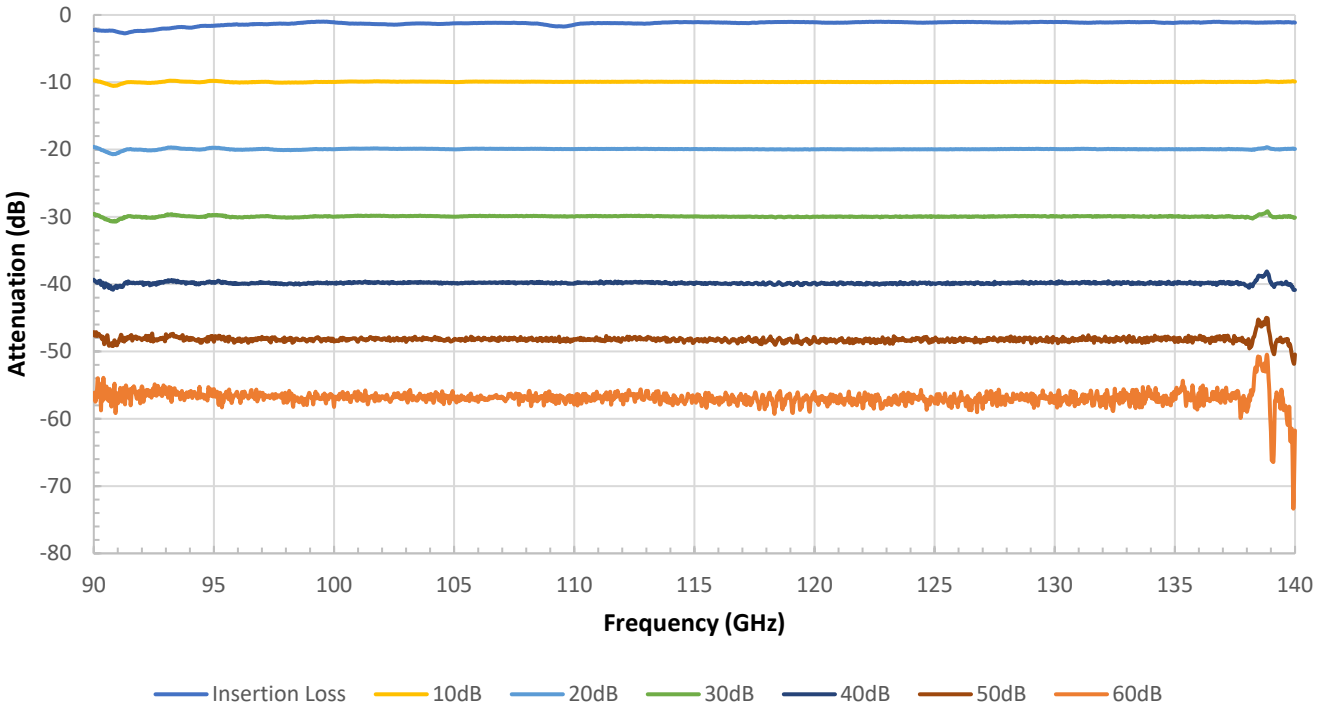
- Full Band Coverage
- High Attenuation Accuracy
- Large Scaled Dial

APPLICATIONS

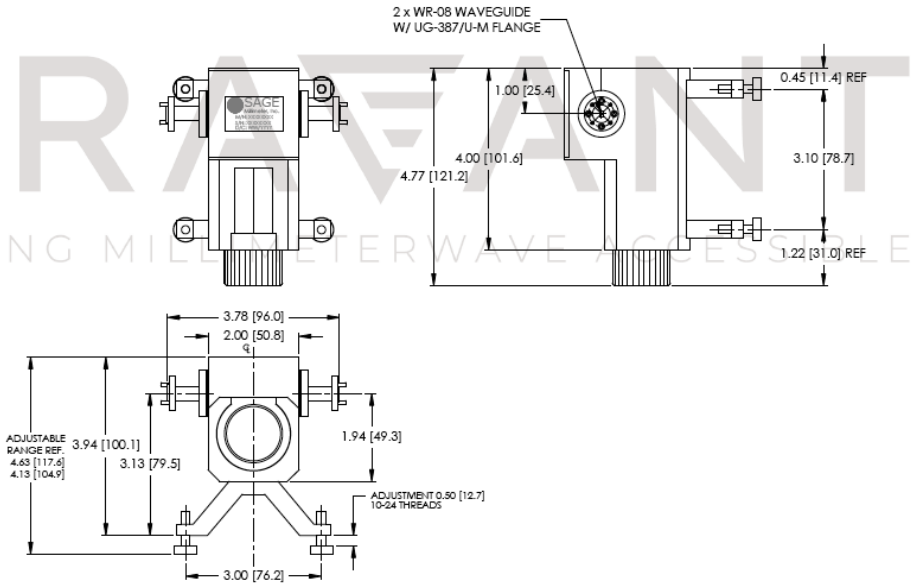
- Test Lab
- Instrumentations
- Manual Test Set

SUPPLEMENTAL DETAILS

Typical Measured Attenuation vs Frequency



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



NOTE:

- Calibration accuracy is 0.2 dB or 5% of the reading, whichever is greater, for attenuation ranges up to 40 dB and “for reference only” above 40 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 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.

MAKING MILLIMETERWAVE ACCESSIBLE