

STA-60-06-D5-WP

D-Band Direct Reading Attenuator

STA-60-06-D5-WP is a direct reading, rotary vane attenuator for use in millimeter wave systems across the standard D-band frequency range of 110 to 170 GHz. The attenuator has a digital screen 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 3.0 dB typical insertion loss and up to maximum 60 dB attenuation. The accuracy of the attenuator is 0.1 dB or 5% of the setting, whichever is larger, up to 40 dB and “for reference only” above 40 dB. The attenuator is powered by a rechargeable built-in battery, which can support up to 10 hours continuous operation with the back light “on” and 40 hours with the back light “off”. The battery can be charged by a provided AC adapter via a standard USB C cable or the attenuator can be operated while charging by using the AC adapter.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	110 GHz		170 GHz
Insertion Loss		3 dB	
Attenuation Range		Up to 60 dB	
Attenuation Accuracy	0.1 dB or 5% of reading, whichever is larger, up to 40 dB		
Attenuation Step Size	0.01 dB from 0 to 20 dB 0.10 dB from 20 to 60 dB		
Return Loss		17 dB	
Power Handling			100 mW (CW)
Specification Temperature		+25°C	
Operating Temperature		+25°C	

ECCN

EAR99

FEATURES

- Full Band Coverage
- High Attenuation Accuracy
- Digital Screen with Back Light

APPLICATIONS

- Test Lab
- Instrumentations
- Manual Test Set

SUPPLEMENTAL DETAILS

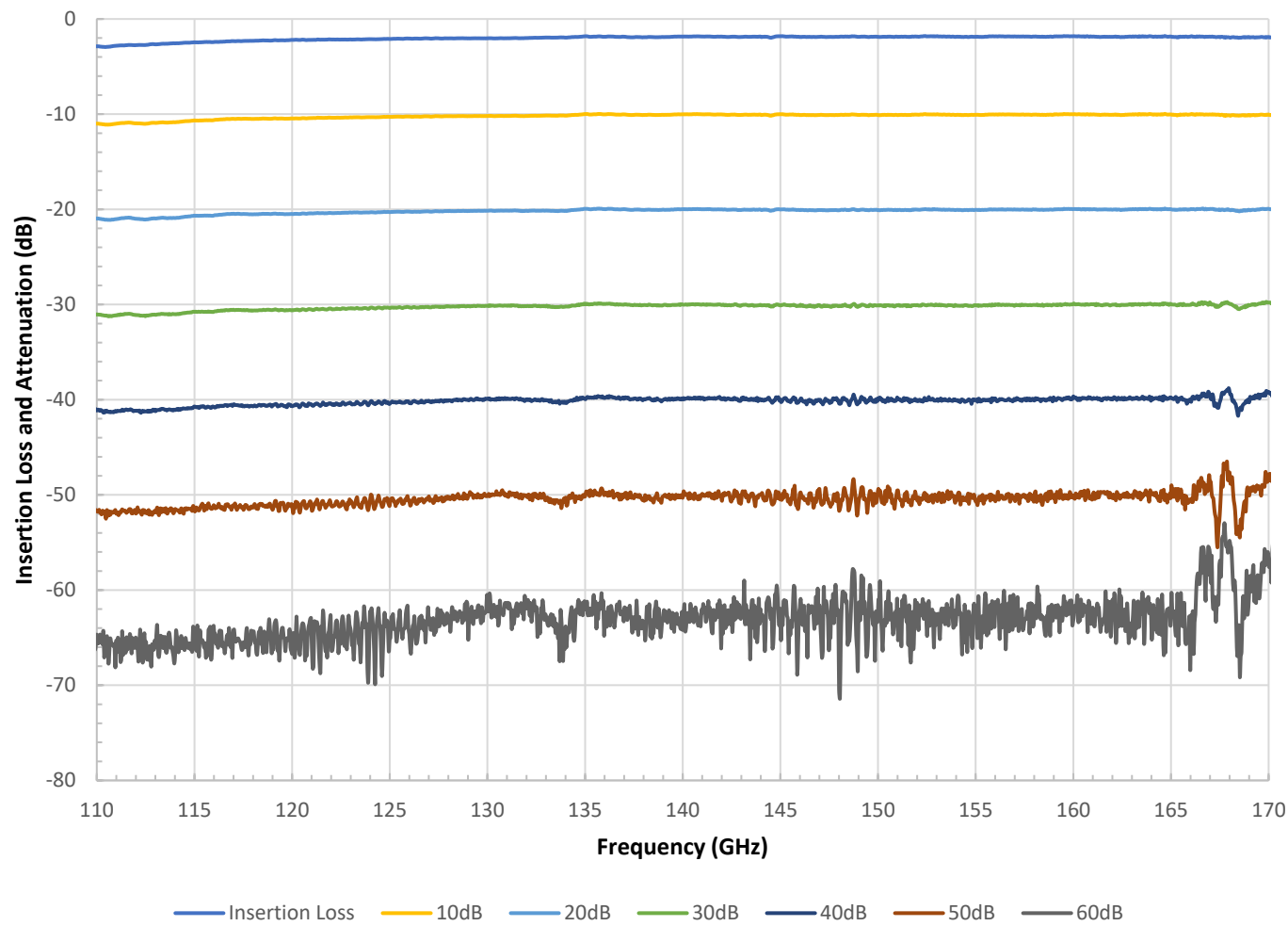


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Mechanical Specifications:

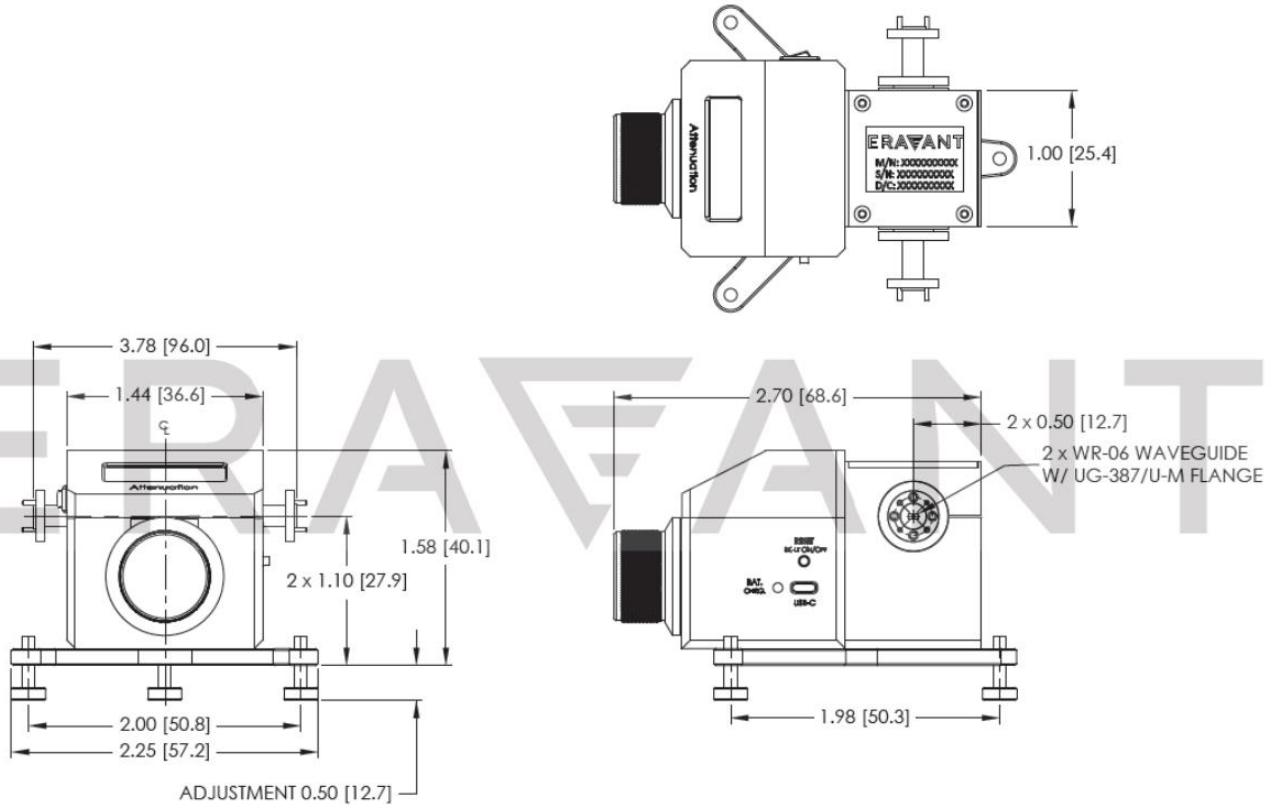
Item	Specification
RF Ports	WR-06 Waveguide with UG-387/U-M Flange
Power Supply Port	USB Type-C
Material	Body, Aluminum; Waveguide and Flange, Brass
Finish	Body, Black Anodized; Waveguide and Flange, Brass
Weight	2.6 lbs (0.45 kg)
Outline	TA-DD-M2

Measured Performance vs. Frequency



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



NOTE:

- Calibration accuracy is 0.1 dB or 5% of the setting, 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.
- Using AC adapter is recommended while perform the testing to avoid the sudden power loss due to low battery power.
- 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