STA-60-12-P8-WP

E-Band Programmable Attenuator, High Precision, 50 dB Attenuation

STA-60-12-P8-WP is an instrumentation grade, high precision and high attenuation range motorized programmable attenuator for use in millimeterwave systems across the standard E-band frequency range of 60 to 90 GHz. The attenuation control and power interface is an integrated and pre-configured Lantronix Xport AR device with an Ethernet port (RJ45) which is used to accommodate remote operations from 0 to 50 dB attenuation value. The attenuator can be accurately controlled with the increments of 0.1 dB between 0 and 40 dB and 0.2 dB between 40 and 50 dB. To operate remotely, download the 'DeviceInstaller' program and firmware from Latronix onto a local computer. The attenuator is powered and controlled with a PoE enabled Ethernet cord via the Ethernet cable provided.

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	60 GHz		90 GHz
Insertion Loss		1.0 dB	
Attenuation Range	0 dB		50 dB
Return Loss		25 dB	
Power Handling			100 mW (CW)
Specification Temperature		+25°C	
Operating Temperature	+5°C		+35°C

Mechanical Specifications:

Item	Specification
RF Ports	WR-12 Waveguide with UG-387/U Flange
Control/Power Interface	Cat 5, Ethernet (RJ45)
Finish	Gold Plated Waveguide Flange; Black Painted Body
Weight	2.4 lbs. [1.09 kg]
Insertion Length	3.5" [89 mm]
Outline	TA-PE-F1

ECCN

EAR99

FEATURES

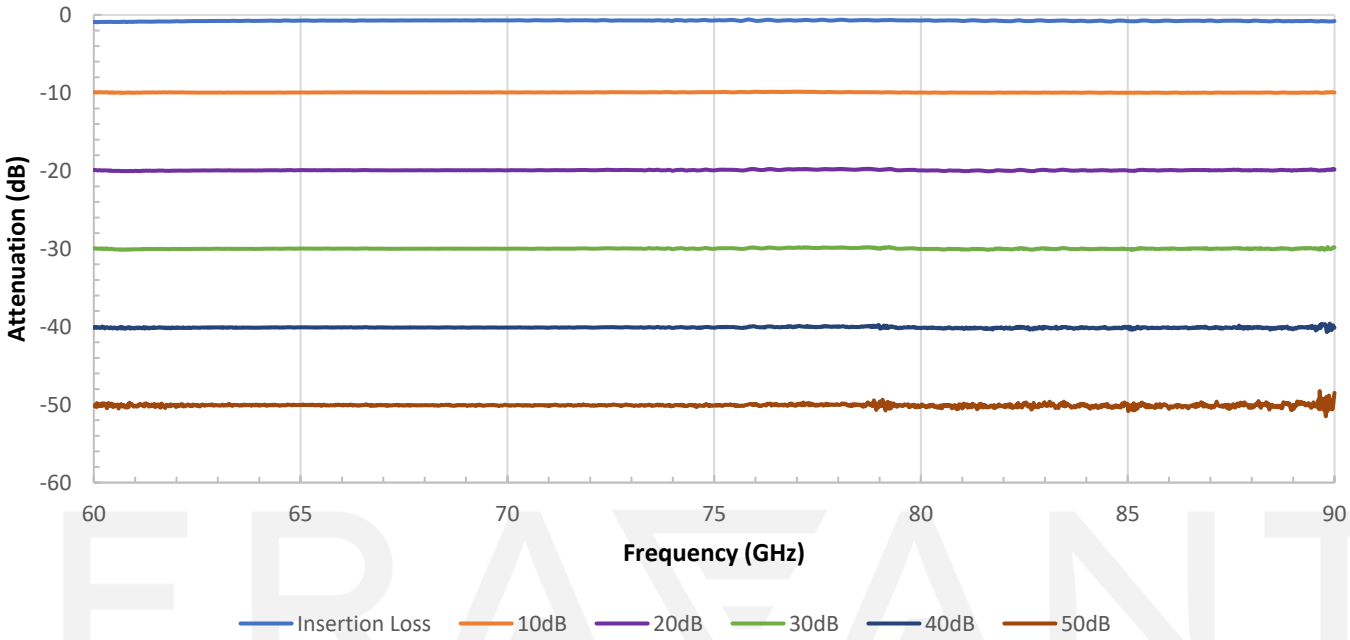
- Full Waveguide Band Coverage
- Power and Control Via PoE Ethernet Port
- High Attenuation Accuracy
- High Attenuation Range up to 50 dB
- Waveguide Moding Free

APPLICATIONS

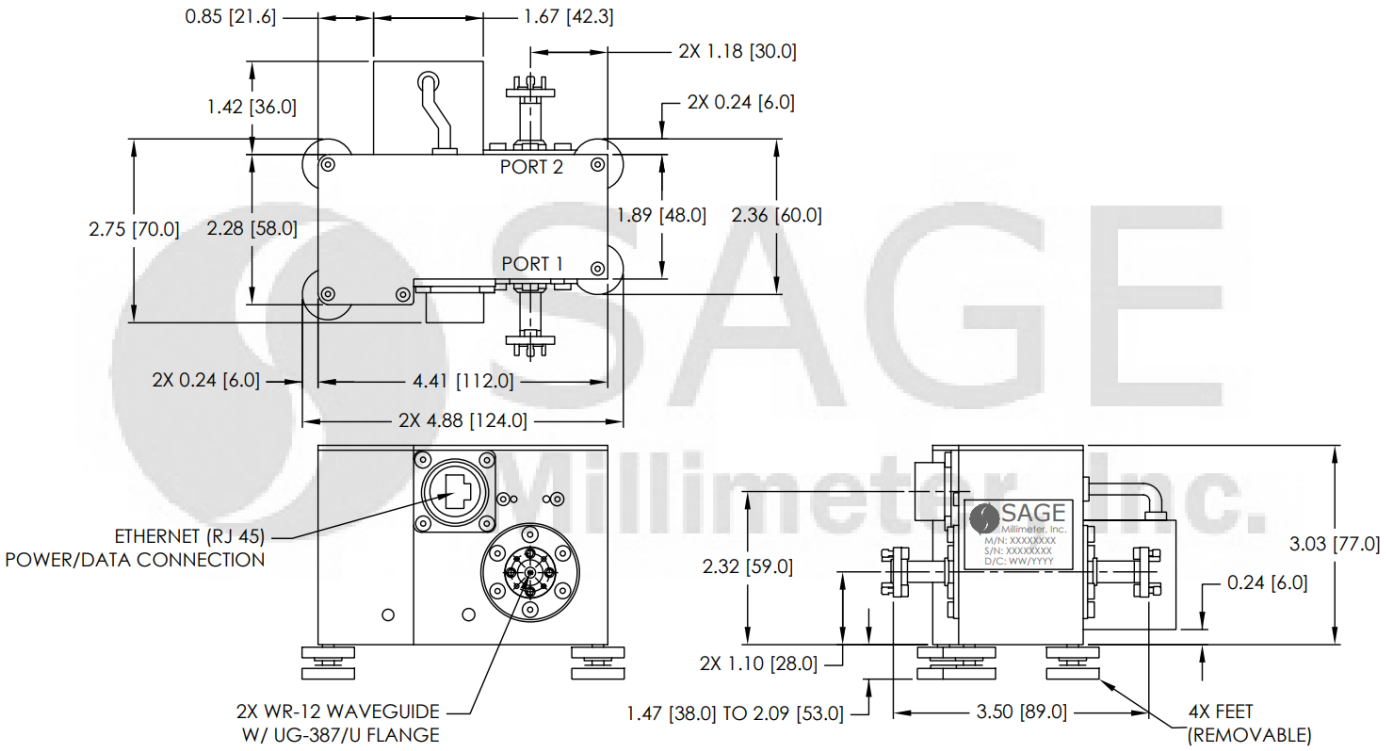
- Test Lab
- Automated Test Equipment
- Bit Error Rate Testing
- Fade Margin
- Transceiver Diversity

SUPPLEMENTAL DETAILS

Typical Measured Attenuation vs Frequency



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



NOTE:

- Calibration accuracy is 0.1 dB or 2% better of the reading, whichever is greater, for attenuation ranges up to 50 dB.
- The phase shift value does change while varying the attenuation.
- All data presented is collected from a sample lot. Actual data may vary unit to unit slightly.
- All testing was performed under +25 ˚C case temperature.
- 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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