STA-10-15-FS-40

V-Band Fixed Attenuator, 10 dB, 10 Watts

STA-10-15-FS-40 is a 10 watt fixed attenuator that is used in millimeterwave systems and operates from 50 to 75 GHz. The attenuator has a nominal fixed attenuation value of 10 dB across the entire V band. The attenuator is uniquely designed and fabricated for full waveguide band applications and displays an extremely flat frequency response across the full bandwidth. Various attenuation values are available under different model numbers.

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
RF Frequency Range	50 GHz		75 GHz
Attenuation		10 dB	
Return Loss		20 dB	
Power Handling		10 W	12 W
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

Item	Specification
RF Ports	WR-15 Waveguide with UG-385/U Anti-Cocking Flange
Setting Type	Fixed
Insertion Length	3.60”
Finish	Gold Plated
Weight	2.2 Oz
Outline	TA-FV-A-40

ECCN

EAR99

FEATURES

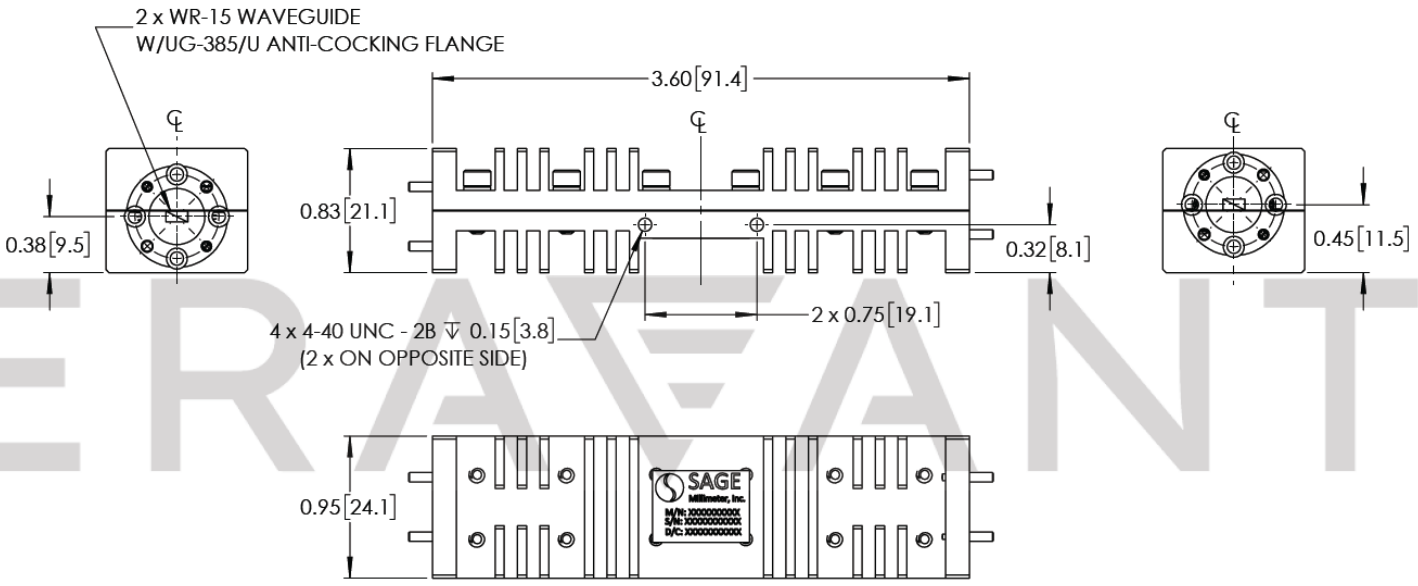
- Full Band Coverage
- Low Cost

APPLICATIONS

- Test Lab
- Instrumentations
- System Integration

SUPPLEMENTAL DETAILS

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



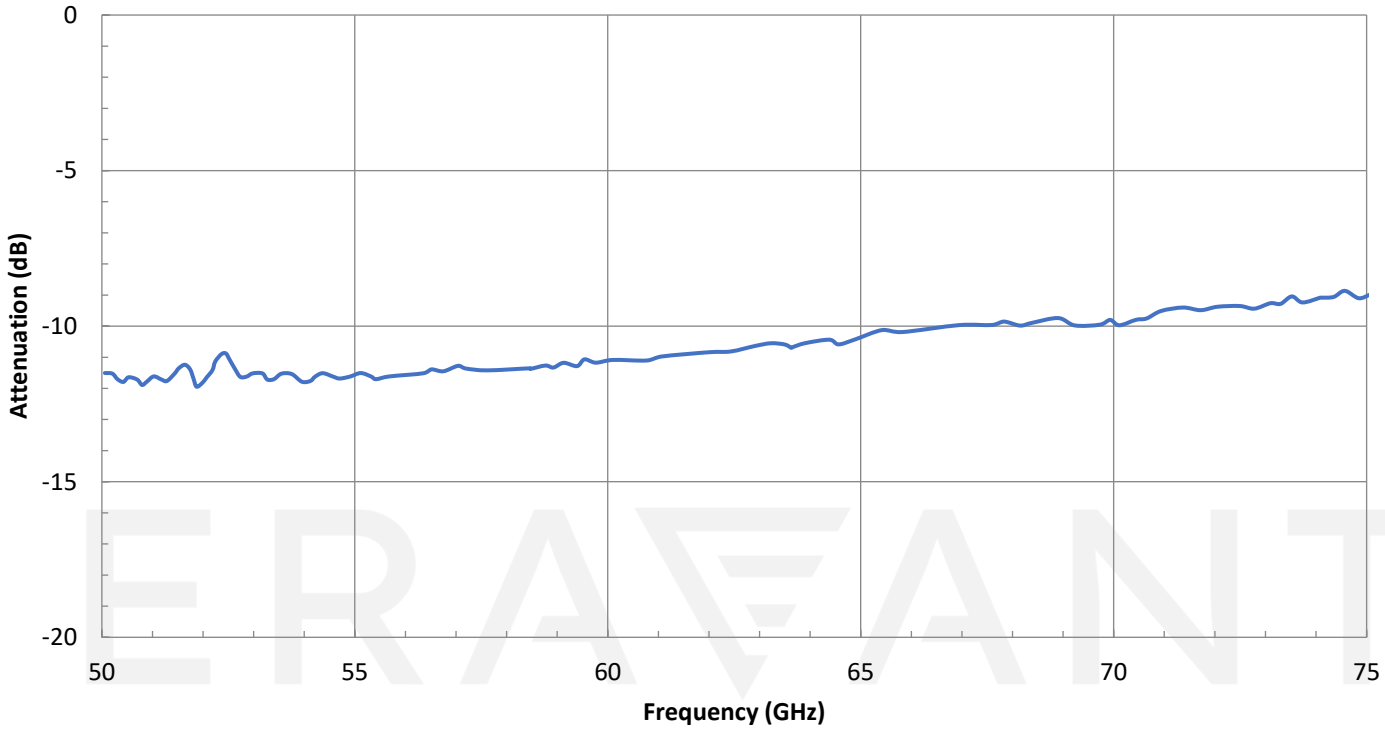
NOTE:

- On condition that test data is provided it is collected from a sample lot. Actual data may vary slightly from unit to unit. All testing is performed under +25 °C room temperature.
- On condition that simulated test data is provided, actual measured data may slightly vary.
- Eravant reserves the right to change the information presented without notice.

CAUTION:

- RF power should never exceed 12 W.
- If a waveguide is present, any foreign objects in the waveguide will cause performance degradation and may damage or destroy the unit.
- For 1 mm connectors proper torque should be applied: 4.0 ± 0.15 inch-pounds (0.45 ± 0.02 Nm). Torque wrench model SCH-06004-S1 is highly recommended.
- For 1.35 mm, 1.85 mm, 2.4 mm, 2.92 mm, and SMA connectors proper torque should be applied: 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm). Torque wrench model SCH-08008-S1 is highly recommended

Typical Attenuation vs. Frequency



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MAKING MILLIMETERWAVE ACCESSIBLE