

STA-40-15-F2

V-Band Fixed Attenuator, 40 dB

STA-40-15-F2 is a 40 dB fixed attenuator that is used in millimeterwave systems and operates from 50 to 75 GHz. The attenuator has a fixed attenuation value of 40 dB at center frequency, 62.5 GHz. While the attenuator is designed and fabricated for full waveguide band applications, the attenuation value of this model does show a minor slope within the band due to its distinct mechanical configuration. Various attenuation values are available under different model numbers.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
RF Frequency Range	50 GHz		75 GHz
Attenuation @ 62.5 GHz		40 dB	
Return Loss		21 dB	
Power Handling		500mW	750 mW
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

Item	Specification
RF Input	WR-15 Waveguide with UG-385/U Flange
RF Output	WR-15 Waveguide with UG-385/U Flange
Setting	Fixed
Insertion Length	2.50"
Finish	Gold Plated Waveguide Faces; Black Painted Body
Weight	1.3 Oz
Outline	TA-FV-BX1

ECCN

EAR99

FEATURES

- Full Band Coverage
- Low Cost
- Accurate Attenuation Value at Center Frequency

APPLICATIONS

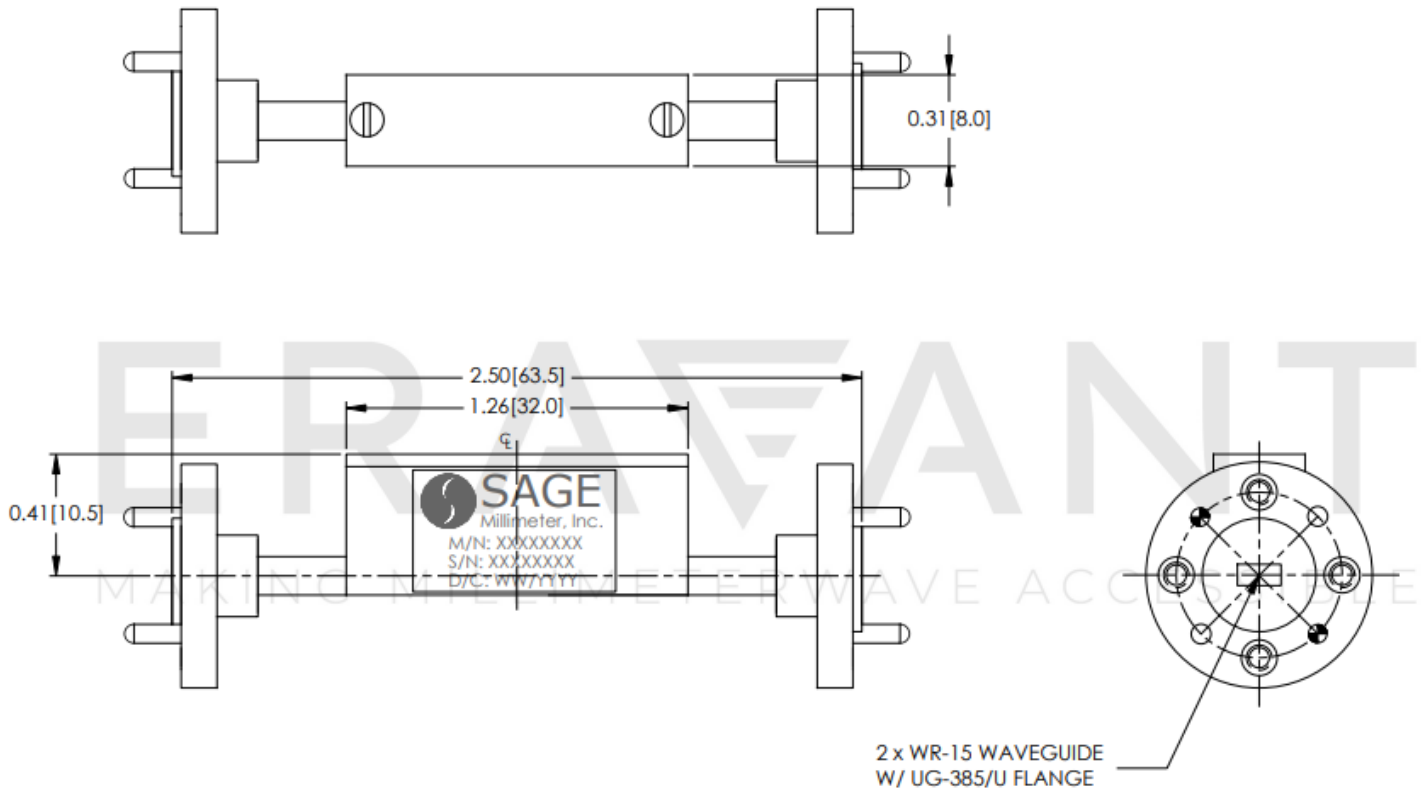
- Test Lab
- Instrumentations
- System Integration

SUPPLEMENTAL DETAILS



STA-40-15-F2

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



NOTE:

WAVEGUIDE FRONT FACES: GOLD PLATED
BODY: BLACK PAINT

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.
- Eravant reserves the right to change the information presented without notice.

CAUTION:

- RF power should never exceed 750 mW.
- 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.