



F-Band Fixed Attenuator, 3 dB, Insertion Length 1.60"

Description:

Model STA-03-08-F3 is a 3 dB fixed attenuator that is used in millimeterwave systems and operates from 90 to 140 GHz. The attenuator has a fixed attenuation value of 3 dB at center frequency, 115 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.



Features:

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

Applications:

- Test Lab
- Instrumentations
- System Integration

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
RF Frequency Range	90 GHz		140 GHz
Attenuation @ 115 GHz		3 dB	
Return Loss		16 dB	
Power Handling			300 mW
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

Mechanical Specifications:

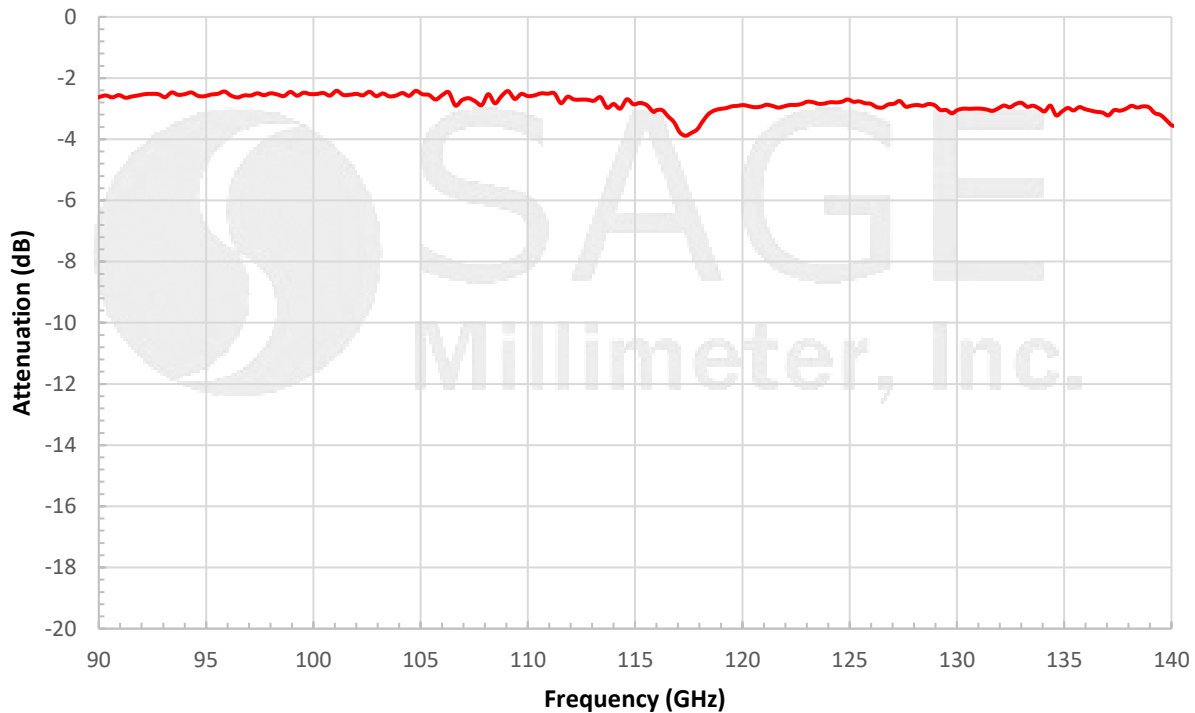
Item	Specification
RF Ports	WR-08 Waveguide with UG-387/U-M Flange
Setting	Fixed
Insertion Length	1.60"
Finish	Gold Plated
Weight	0.9 Oz
Outline	TA-FF-L1



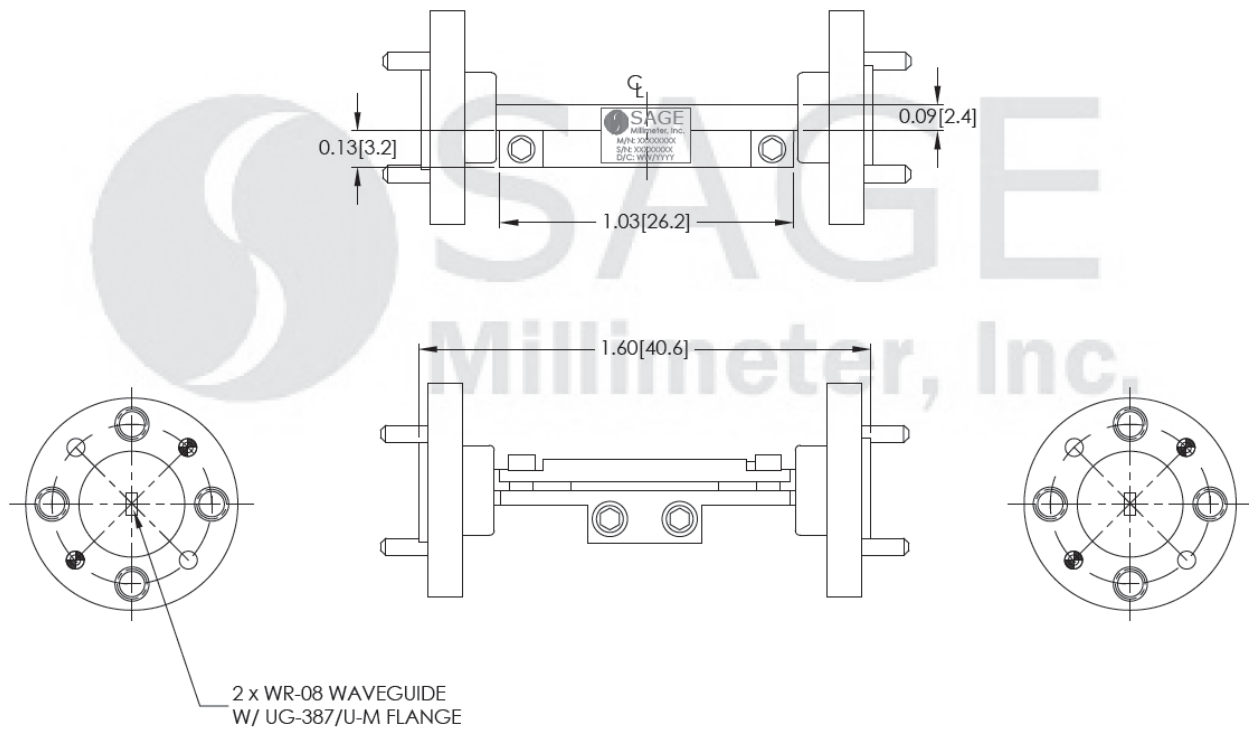


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Typical Performance vs Frequency



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



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Note:

- 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.
- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.
- Other mechanical configurations are available under different model numbers.

Caution:

- Exceeding absolute maximum ratings will damage the device.
- Any foreign objects in the waveguide will cause performance degradation and may damage the device.

Replacement Model: STA-03-08-F2

- Model **STA-03-08-F3** is a **Limited-Run Model** and has been replaced by model **STA-03-08-F2**. While there is no major electrical performance difference, the mechanical specification is different; specifically, *the insertion length is increased from 1.60" to 2.50"*. The outline of replacement model **STA-03-08-F2** is shown below.

