STA-30-03-F2

Rev 1.0

WR-03 Fixed Attenuator, 30 dB

Description:

Model STA-30-03-F2 is a 30 dB fixed attenuator that is used in millimeterwave systems and operates from 220 to 330 GHz. The attenuator has a fixed attenuation value of 30 dB at the center frequency, 275 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. Other attenuation values are available under different model numbers as **STA-XX-03-F2**, where **XX** is the desired attenuation value.

Features:

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

Applications:

- Test Lab
- Instrumentations
- System Integration

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	220 GHz		330 GHz
Attenuation @ 275 GHz		30 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-03 Waveguide with UG-387/U-M Flange
Setting	Fixed
Insertion Length	2.50”
Flange Material	360 Brass
Waveguide Material	C10100 Copper
Finish	Gold Plated, Black Paint
Weight	1.6 Oz
Outline	TA-F03-L1

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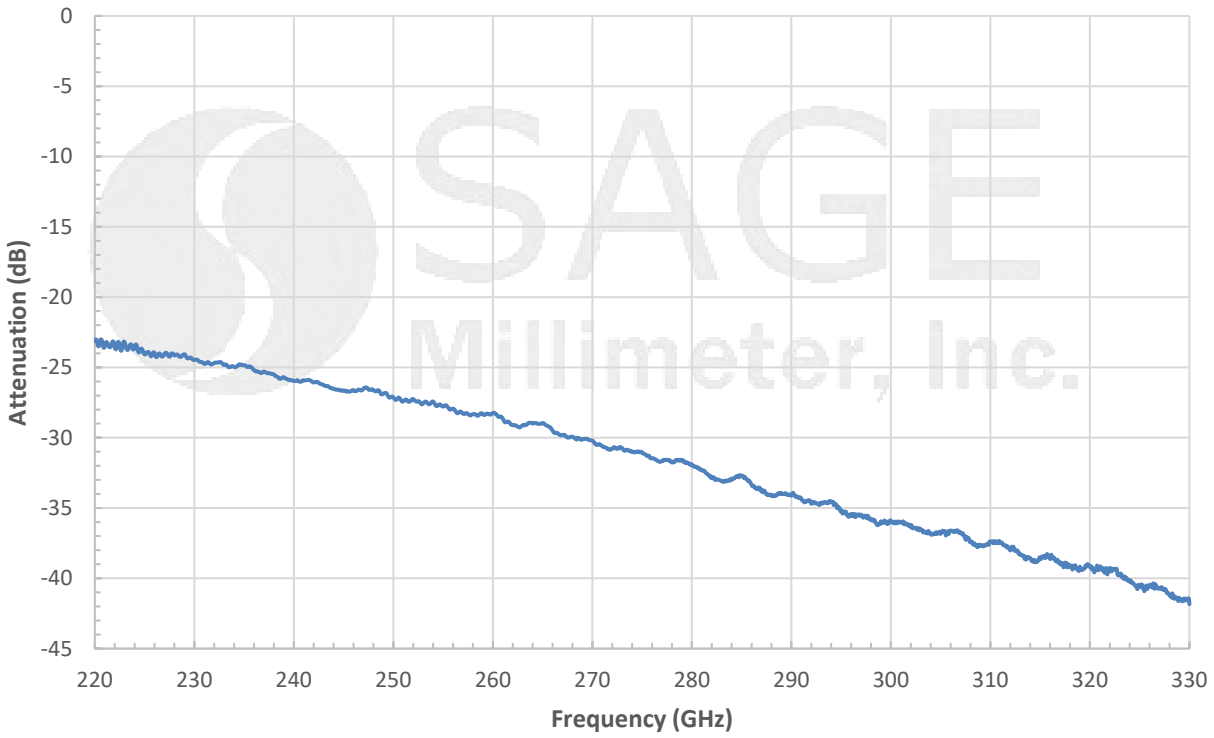
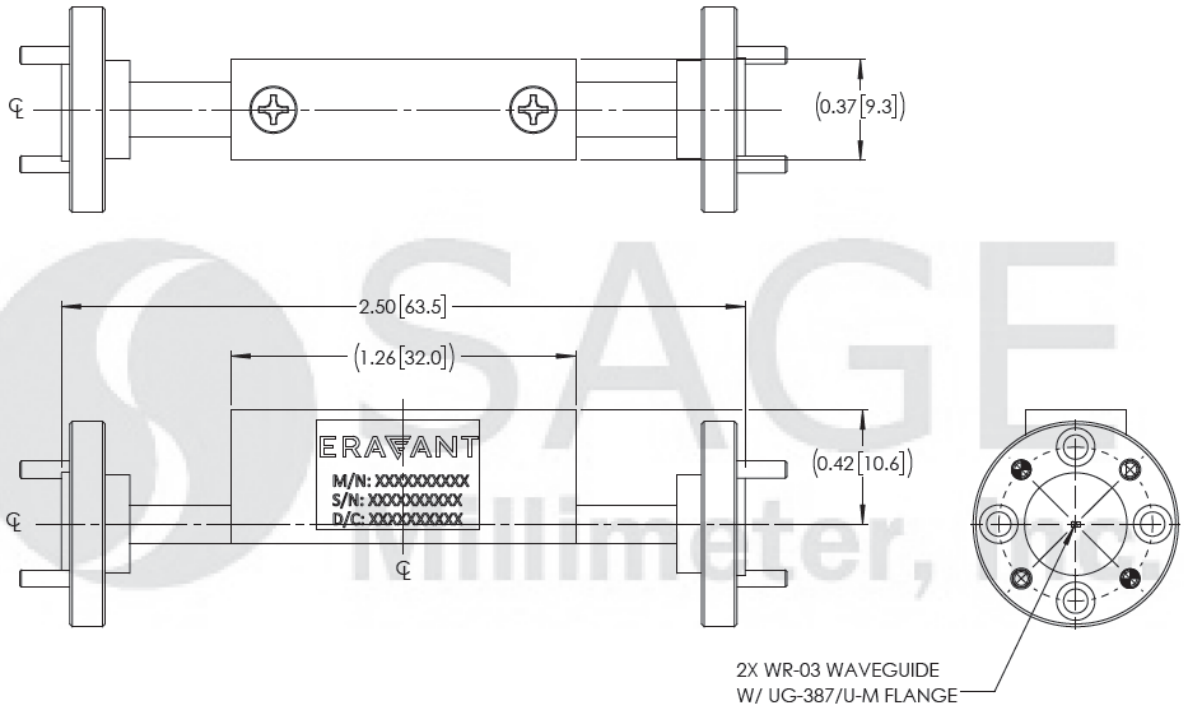
Typical Measured Attenuation vs Frequency



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

Caution:

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

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