



V-Band Fixed Attenuator, 3 dB, Insertion Length 1.2”

Description:

Model STA-03-15-F1-C-1.2 is a compact fixed attenuator with insertion length of 1.2”. The attenuator is used in millimeterwave systems and operates from 50 to 75 GHz. The attenuator has a fixed attenuation value of 3 dB at the 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.



Features:

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

Applications:

- Test Lab
- Instrumentations
- System Integration

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	50 GHz		75 GHz
Attenuation @ 62.5 GHz		3 dB	
Return Loss		20 dB	
Power Handling			0.5 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

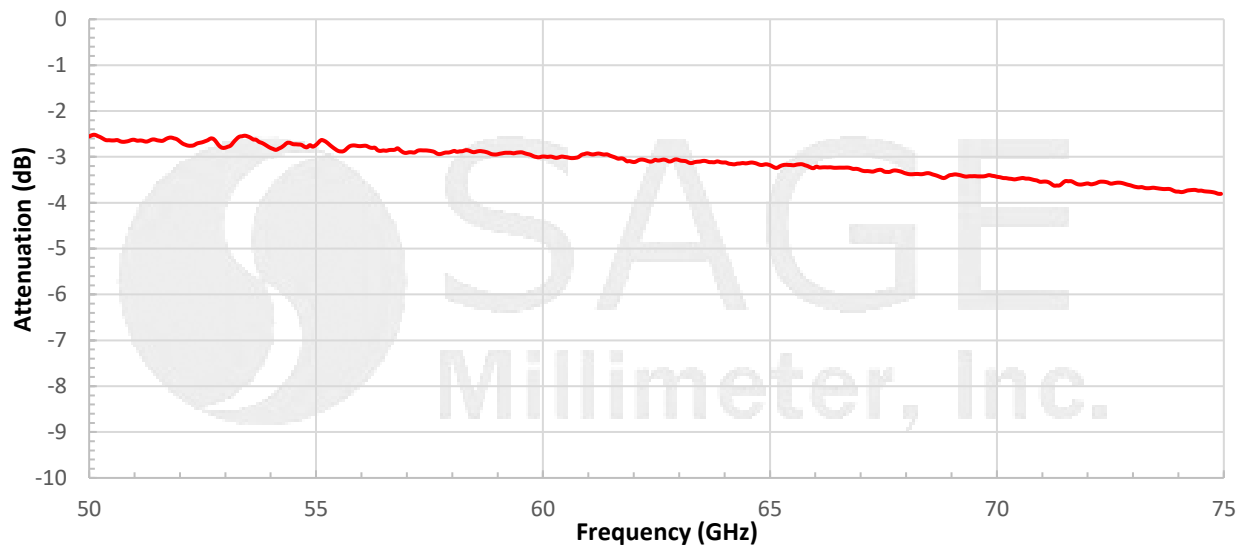
Mechanical Specifications:

Item	Specification
RF Ports	WR-15 Waveguide with UG-385/U Flange
Setting	Fixed
Material	Aluminum
Finish	Gold Plated
Weight	0.4 Oz
Insertion Length	1.2”
Outline	WF-BV

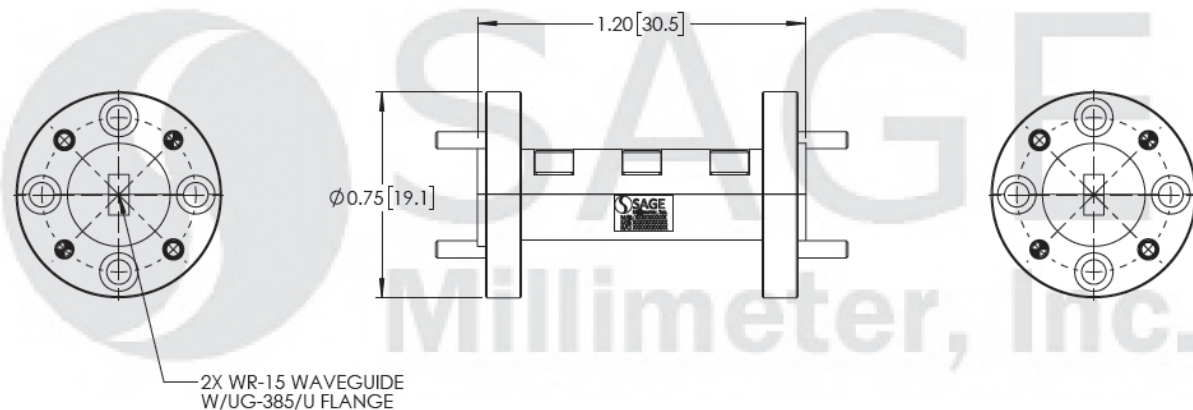


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Typical Attenuation Vs. Frequency



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



Note:

- All data presented is collected from a sample lot. Actual data may vary unit to unit.
- 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.



www.sagemillimeter.com | 3043 Kashiwa Street, Torrance, CA 90505
 Phone: 424-757-0168 | Fax: 424-757-0188 | Email: sales@sagemillimeter.com