



## V-Band Fixed Attenuator, 6 dB, Insertion Length 1.2”

### Description:

**Model STA-06-15-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 6 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		6 dB	
Return Loss		20 dB	
Power Handling			0.5 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

### Mechanical Specifications:

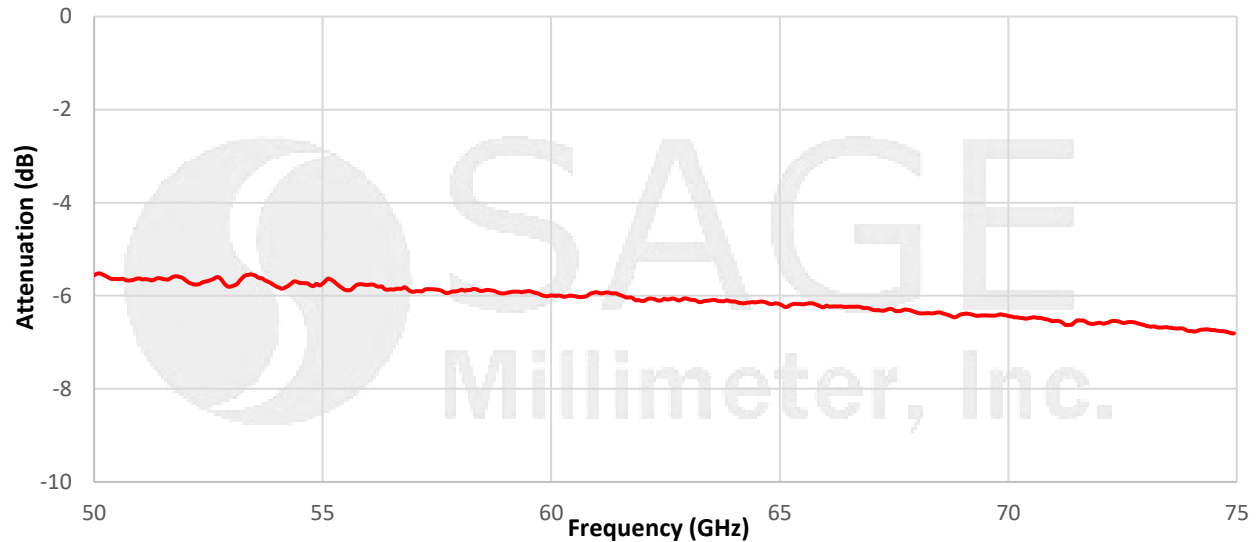
Item	Specification
RF Ports	WR-15 Waveguide with UG-385/U Flange
Setting	Fixed
Material	Aluminum
Finish	Gold Plated
Weight	0.4 Oz
Insertion Length	1.2”
Outline	WF-BV



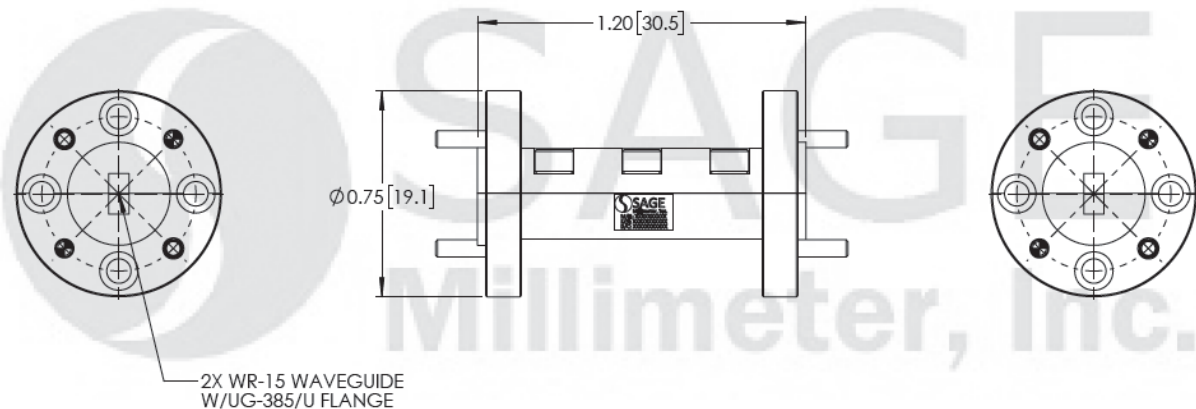


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### Typical Attenuation Vs. Frequency



### 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.

