

## E-Band Fixed Attenuator, 20 dB

### Description:

**Model STA-20-12-F2** is a 20 dB fixed attenuator that is used in millimeterwave systems and operates from 60 to 90 GHz. The attenuator has a fixed attenuation value of 20 dB at the center frequency, 75 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	60 GHz		90 GHz
Attenuation @ 75 GHz		20 dB	
VSWR		1.2:1	1.3:1
Power Handling			500 mW
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

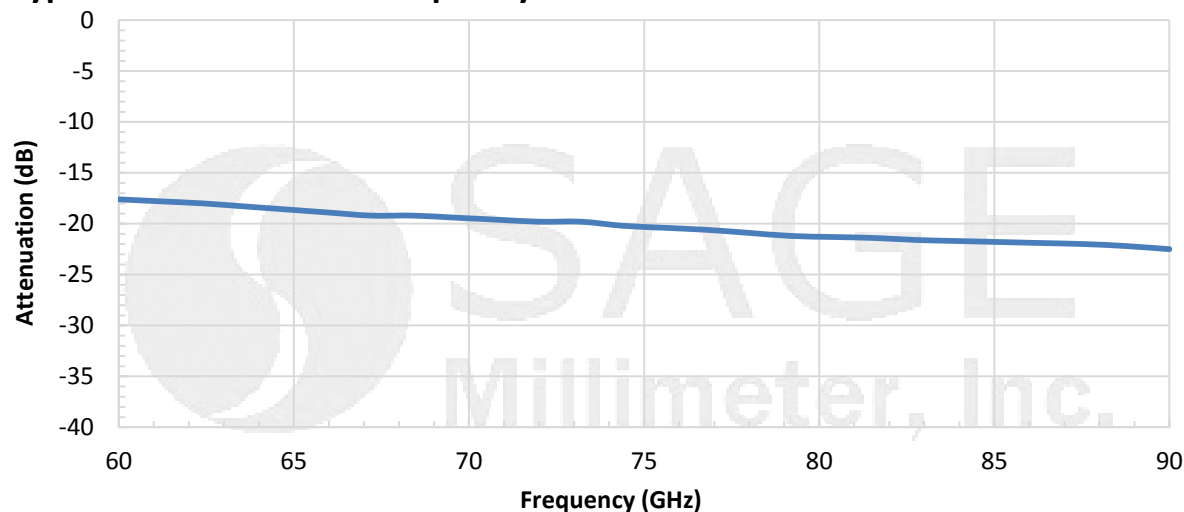
### Mechanical Specifications:

Item	Specification
RF Ports	WR-12 Waveguide with UG-387/U Flange
Setting	Fixed
Flange Material	Brass
Waveguide Material	Copper
Finish	Gold Plated Waveguide Faces; Black Painted Body
Weight	1.3 Oz
Insertion Length	2.50"
Outline	TA-FE-BX1

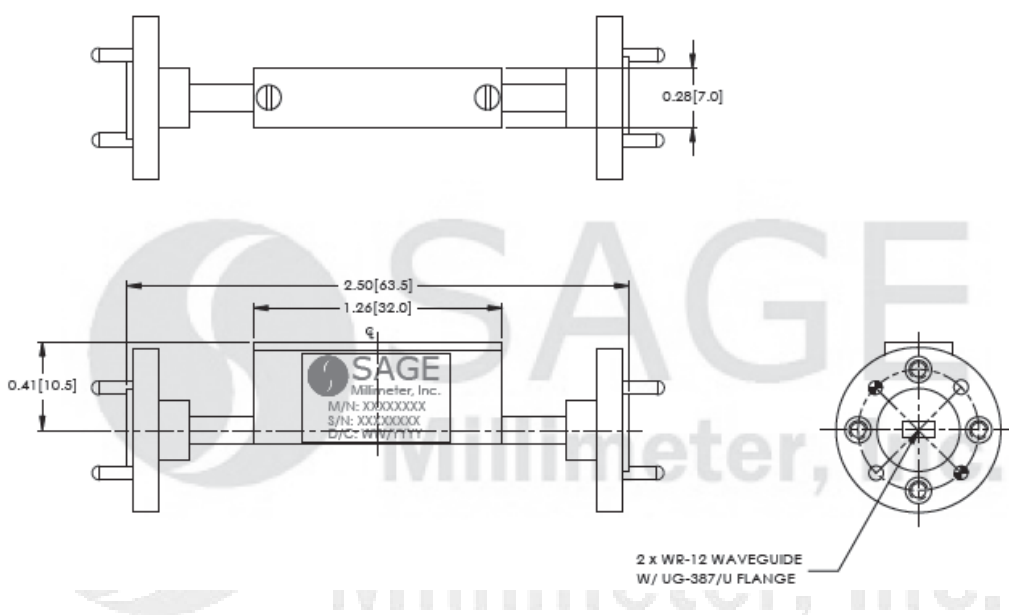


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### Typical Attenuation vs. Frequency



### 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.

