

## G-Band Fixed Attenuator, 20 dB

### Description:

**Model STA-20-05-F2** is a 20 dB fixed attenuator that is used in millimeterwave systems and operates from 140 to 220 GHz. The attenuator has a fixed attenuation value of 20 dB at the center frequency, 180 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
Frequency	140 GHz		220 GHz
Attenuation @ 180 GHz		20 dB	
Return Loss		16 dB	
Power Handling			300 mW
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

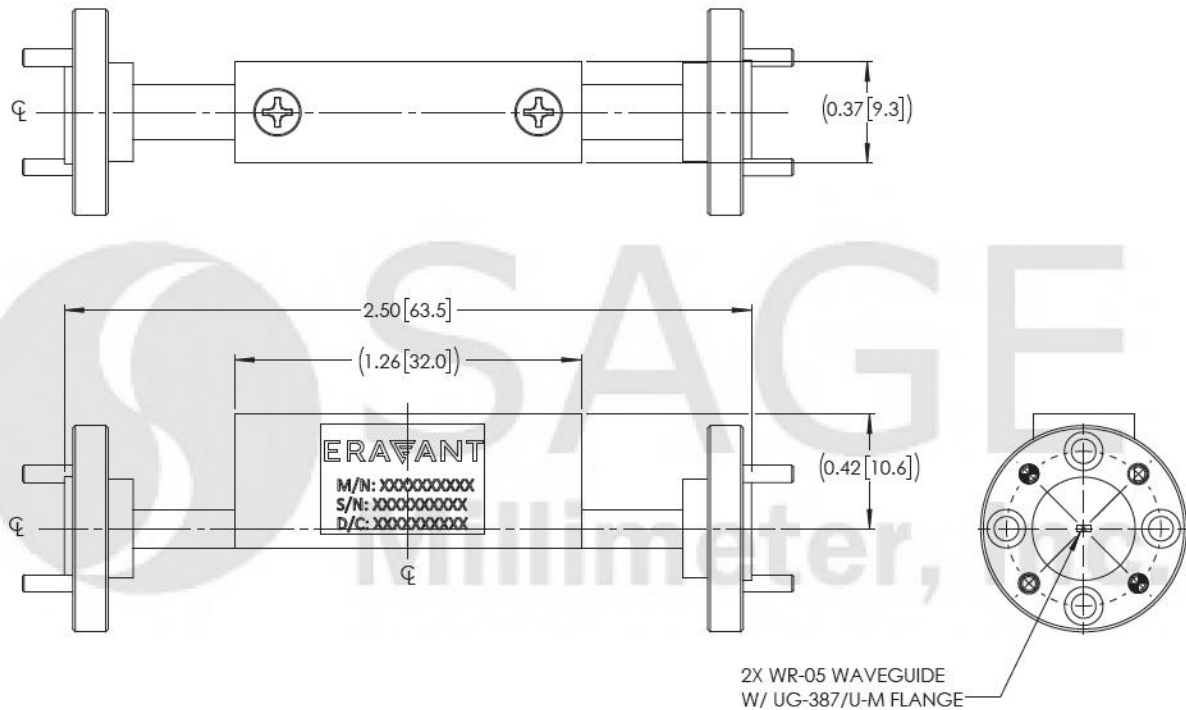
### Mechanical Specifications:

Item	Specification
RF Ports	WR-05 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-FG-L2



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



**Note:**

- 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.