

## STA-10-05-F1

### G-Band Fixed Attenuator, 10 dB

**STA-10-05-F1** is a 10 dB fixed attenuator that is used in millimeterwave systems and operates from 140 to 220 GHz. The attenuator has a fixed attenuation value of 10 dB at center frequency, 180 GHz. While the attenuator is designed for full waveguide band applications, the attenuation value does show a minor slope within the band due to its distinct mechanical configuration. Various attenuation values are available under different model numbers.



### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	140 GHz		220 GHz
Attenuation @ 180 GHz		10 dB	
Return Loss		16 dB	
Power Handling			100 mW
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

### ECCN

EAR99

### FEATURES

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

### APPLICATIONS

- Test Lab
- Instrumentations
- System Integration

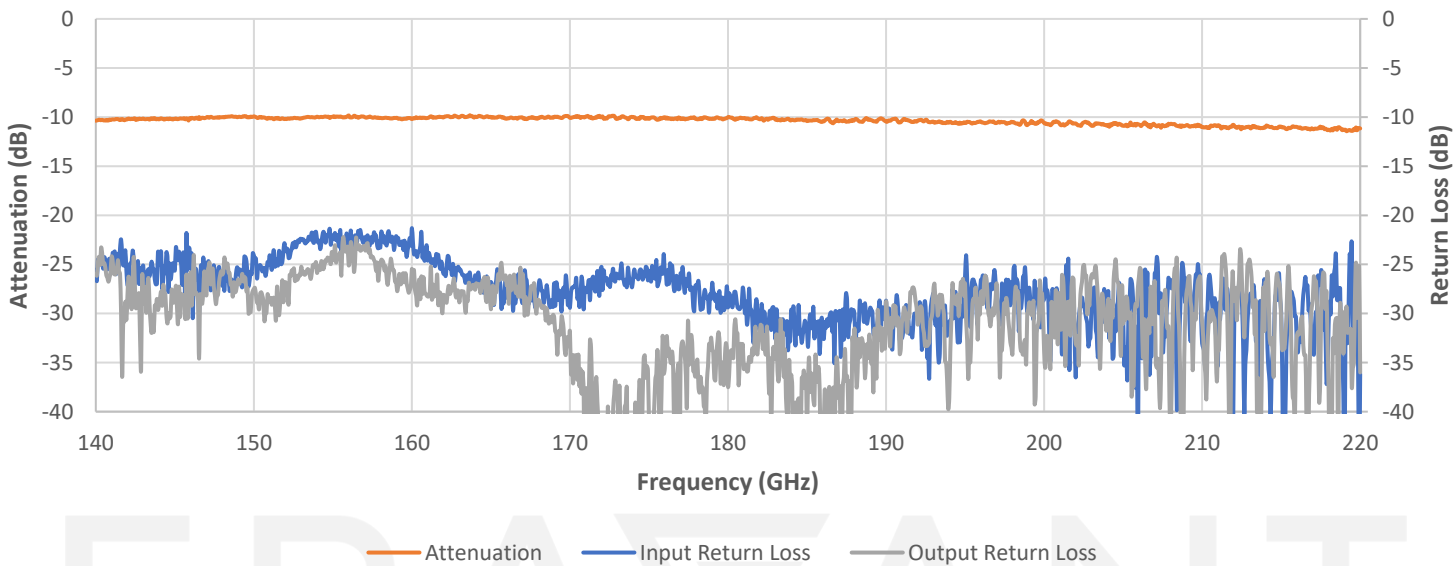
### SUPPLEMENTAL DETAILS

### Mechanical Specifications:

Item	Specification
Waveguide Ports	WR-05 Waveguide with UG-387/U-M Anti-Cocking Flange
Attenuation Setting	Fixed
Insertion Length	1.00"
Material	Aluminum
Finish	Gold Plated
Weight	0.4 Oz
Outline	TA-FG-A

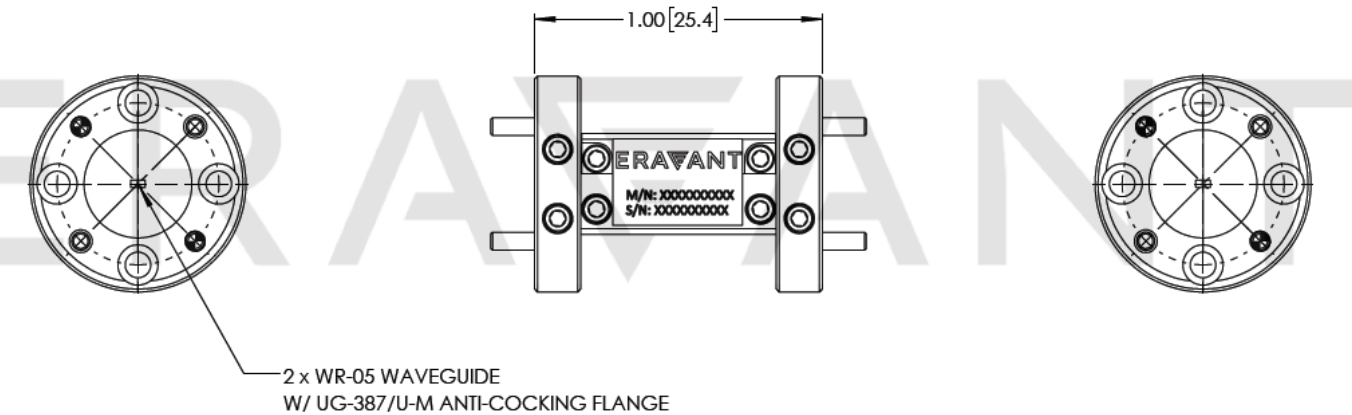


Typical Performance vs. Frequency



**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.
- For 1 mm connectors proper torque should be applied:  $4.0 \pm 0.15$  inch-pounds ( $0.45 \pm 0.02$  Nm). Torque wrench model SCH-06004-S1 is highly recommended.
- For 1.35 mm, 1.85 mm, 2.4 mm, 2.92 mm, and SMA connectors proper torque should be applied:  $8.0 \pm 0.15$  inch-pounds ( $0.90 \pm 0.02$  Nm). Torque wrench model SCH-08008-S1 is highly recommended.

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