

## STA-20-06-F3

### D-Band Fixed Attenuator, 20dB, Insertion Length 1.60"

**STA-20-06-F3** is a 20 dB fixed attenuator that is used in millimeterwave systems and operates from 110 to 170 GHz. The attenuator has a fixed attenuation value of 20 dB at the center frequency, 140 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.



### Electrical Specifications:

| Parameter                 | Minimum | Typical | Maximum |
|---------------------------|---------|---------|---------|
| Frequency Range           | 110 GHz |         | 170 GHz |
| Attenuation @ 140 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-06 Waveguide with UG-387/U-M Flange |
| Setting Type     | Fixed                                  |
| Insertion Length | 1.60"                                  |
| Material         | Brass                                  |
| Finish           | Gold Plated                            |
| Weight           | 0.9 Oz                                 |
| Outline          | TA-FD-L1                               |

### ECCN

EAR99

### FEATURES

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

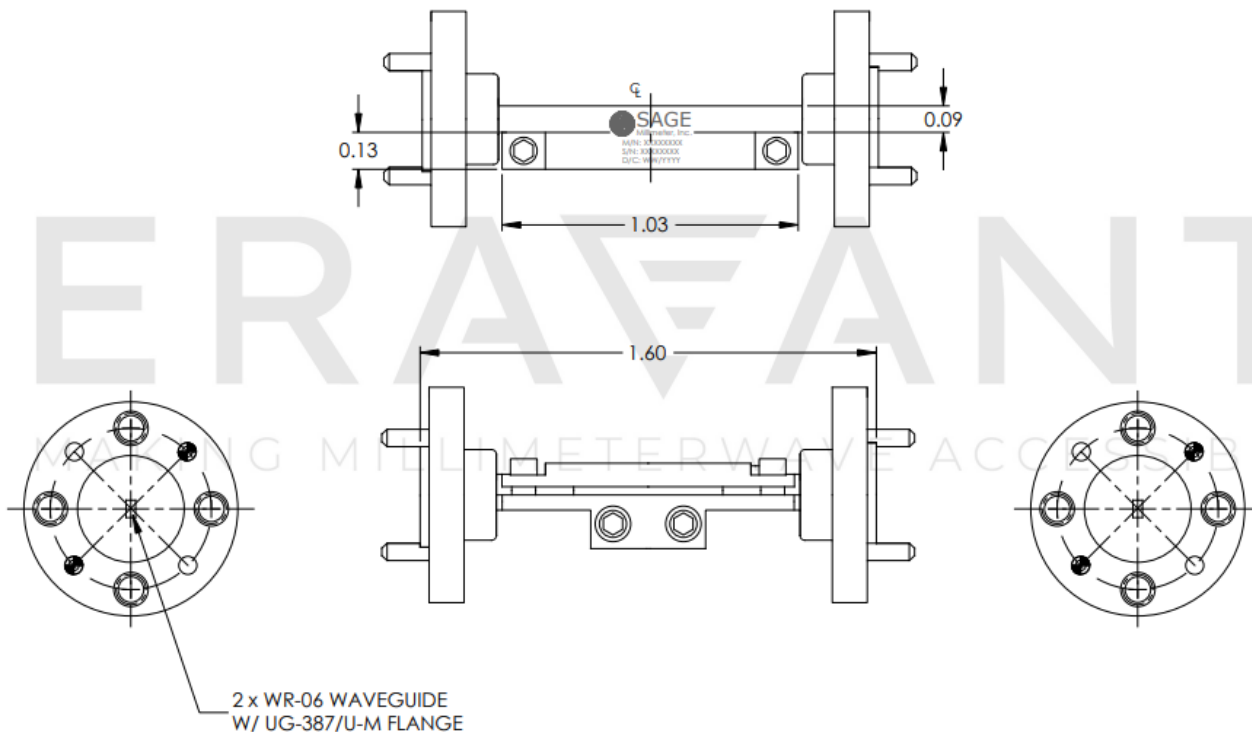
### APPLICATIONS

- Test Lab
- Instrumentations
- System Integration

### SUPPLEMENTAL DETAILS



## Typical Performance vs. Frequency



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**NOTE:**

- On condition that test data is provided it is collected from a sample lot. Actual data may vary slightly from unit to unit. All testing is performed under +25 °C room temperature.
- On condition that simulated test data is provided, actual measured data may slightly vary.
- Eravant reserves the right to change the information presented without notice.

**CAUTION:**

- Exceeding absolute maximum range damage the device.
- Any foreign objects in the waveguide will cause performance degradation and may damage or destroy the unit.

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