

## STA-03-22-F1-C-599-2.0

### Q-Band Compact Fixed Attenuator, 3 dB, UG-599/U Flange, 2.0" Length

**STA-03-22-F1-C-599-2.0** is a compact fixed attenuator with an insertion length of 2.0". The attenuator is used in millimeterwave systems and operates from 33 to 50 GHz. The attenuator has a fixed attenuation value of 3 dB at the center frequency, 41.5 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. Other attenuation values are available under different model numbers as **STA-XX-22-F1-C-599-2.0**, where **XX** is the desired attenuation value.



#### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	33 GHz		50 GHz
Attenuation @ 41.5 GHz		3 dB	
Return Loss		20 dB	
Power Handling			1.0 W (CW)
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

#### Mechanical Specifications:

Item	Specification
Waveguide Ports	WR-22 Waveguide with UG-599/U Flange
Setting	Fixed
Insertion Length	2.00"
Material	Aluminum
Finish	Gold Plated
Weight	0.8 Oz
Outline	WF-BQ-599

#### ECCN

EAR99

#### FEATURES

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

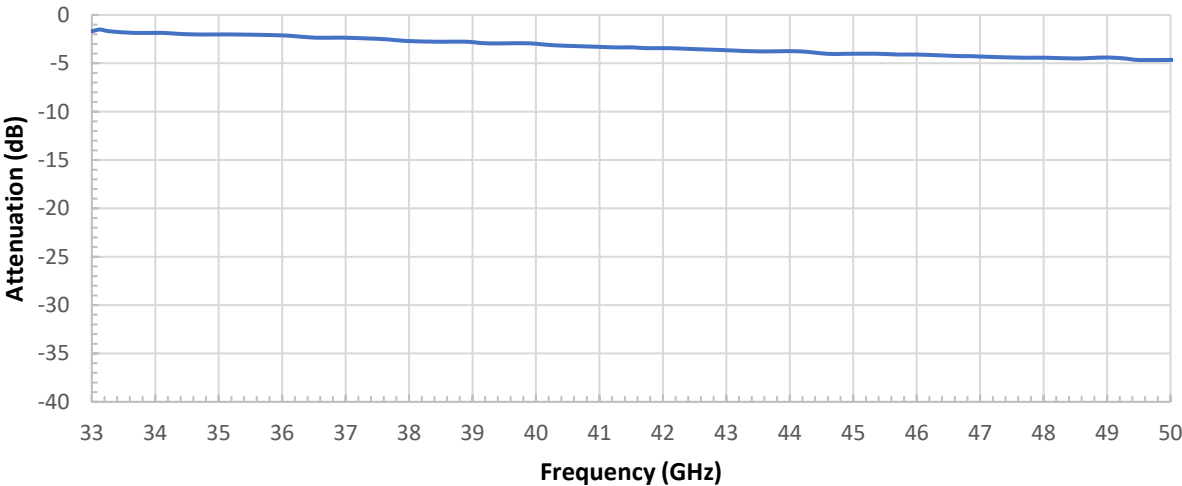
#### APPLICATIONS

- Test Lab
- Instrumentations
- System Integration

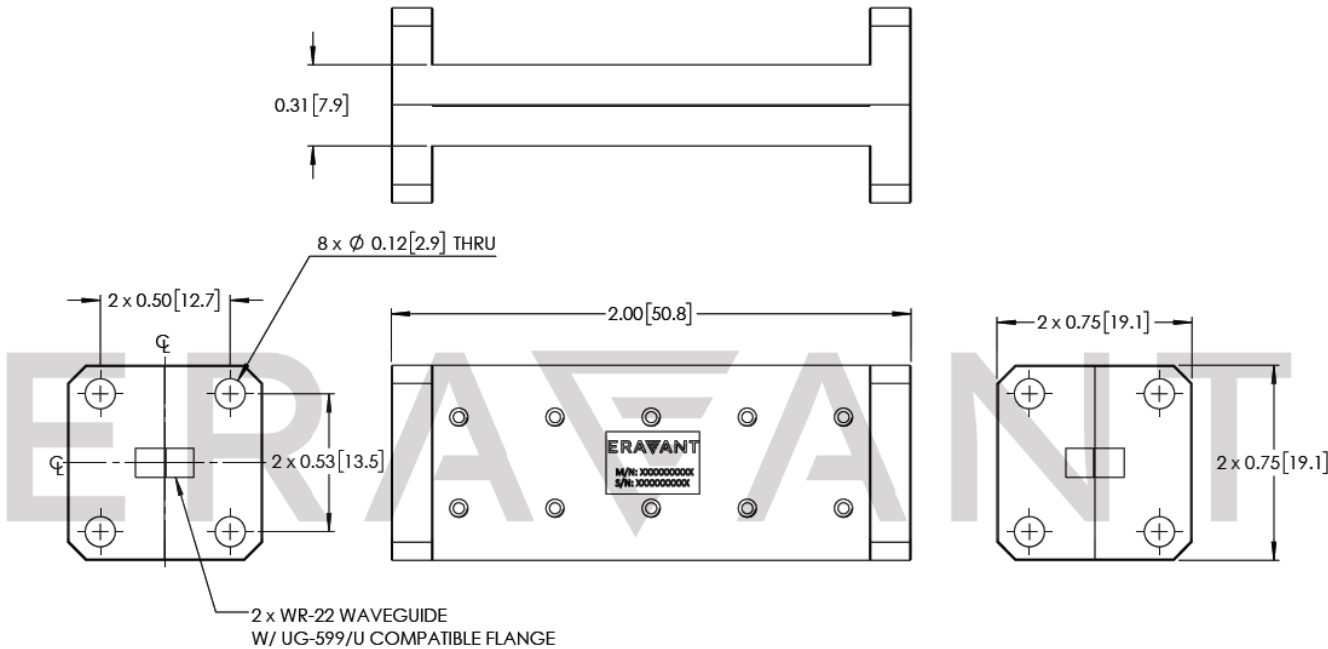
#### SUPPLEMENTAL DETAILS



Typical Measured Attenuation 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.

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