STA-06-10-F2

W-Band Fixed Attenuator, 6 dB Attenuation

STA-06-10-F2 is a 6 dB fixed attenuator that is used in millimeterwave systems and operates from 75 to 110 GHz. The attenuator has a fixed attenuation value of 6 dB at center frequency, 92.5 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. Various attenuation values are available under different model numbers.

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	75 GHz		110 GHz
Attenuation @ 92.5 GHz		6 dB	
VSWR		1.2:1	1.3:1
Power Handling		500 mW	750 mW
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

Item	Specification
RF Ports	WR-10 Waveguide with UG-387/U-M Anti-Cocking Flange
Setting Type	Fixed
Insertion Length	2.5”
Finish	Gold Plated Waveguide Faces; Black Painted Body
Weight	1.3 Oz
Outline	TA-FW-A-BX1

ECCN

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FEATURES

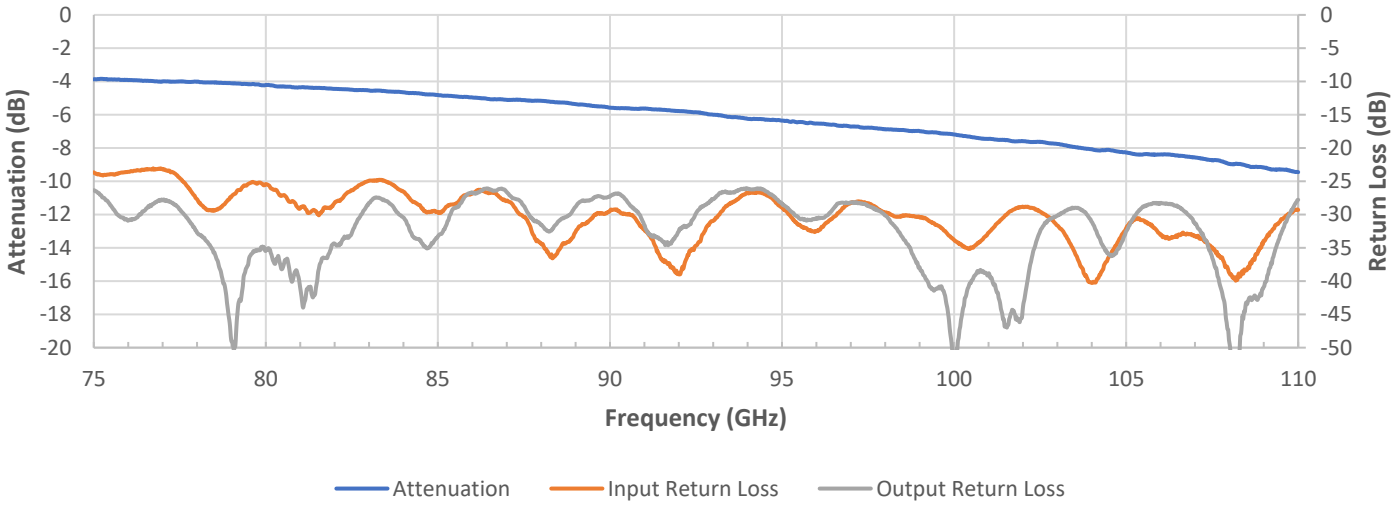
- Full Band Coverage
- Low Cost
- Accurate Attenuation Value at Center Frequency

APPLICATIONS

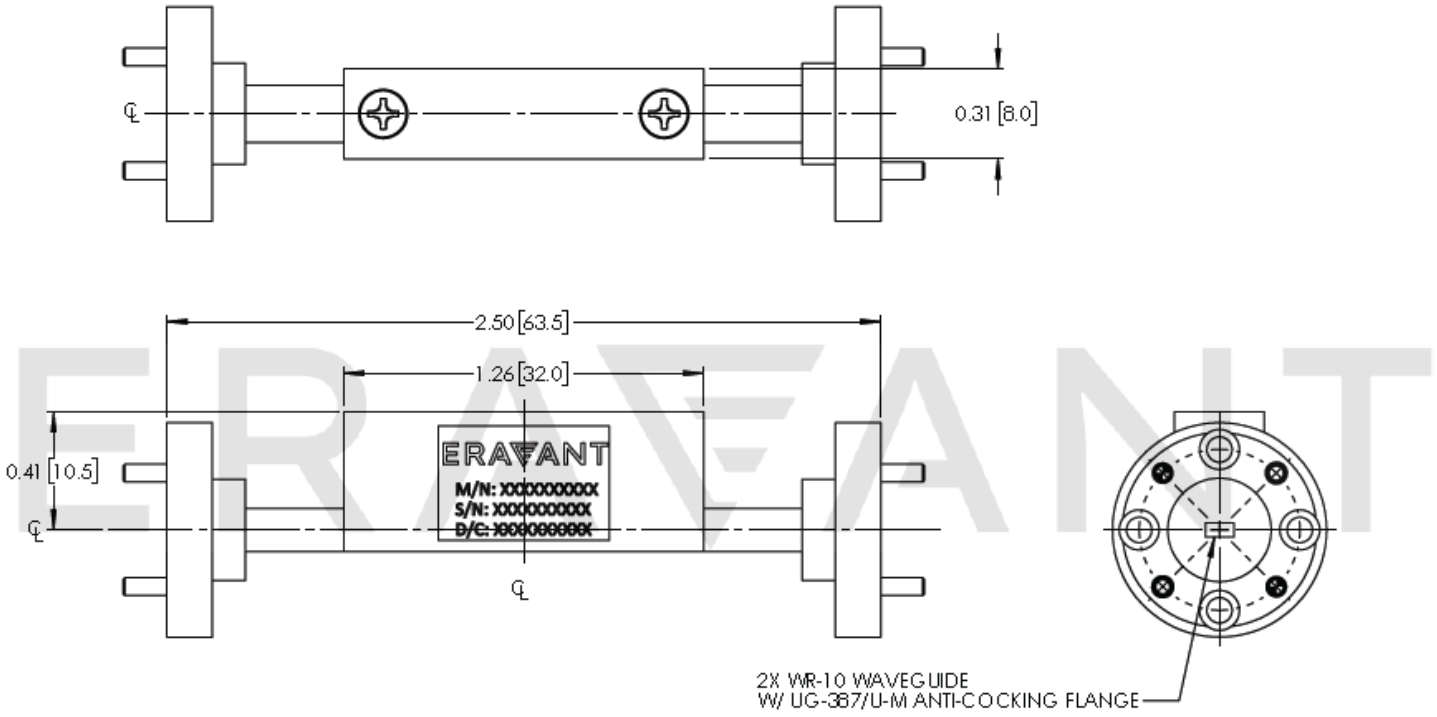
- Test Lab
- Instrumentations
- System Integration

SUPPLEMENTAL DETAILS

Typical Performance vs. Frequency



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



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.
- For more information on the technical details of level-setting attenuators and other types of waveguide attenuators, a short, instructional blog is available here (FIXED, LEVEL SETTING, DIRECT READING, AND PROGRAMMABLE ATTENUATORS).
- Eravant reserves the right to change the information presented without notice.

CAUTION:

- RF power should never exceed 750 mW. Exceeding absolute maximum ratings will damage the device.
- If a waveguide is present, any foreign objects in the waveguide will cause performance degradation and may damage or destroy the unit.

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