

STA-20-10-F2

W-Band Fixed Attenuator, 20 dB Attenuation

STA-20-10-F2 is a 20 dB fixed attenuator that is used in millimeter wave systems and operates from 75 to 110 GHz. The attenuator has a fixed attenuation value of 20 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		20 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

EAR99

FEATURES

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

APPLICATIONS

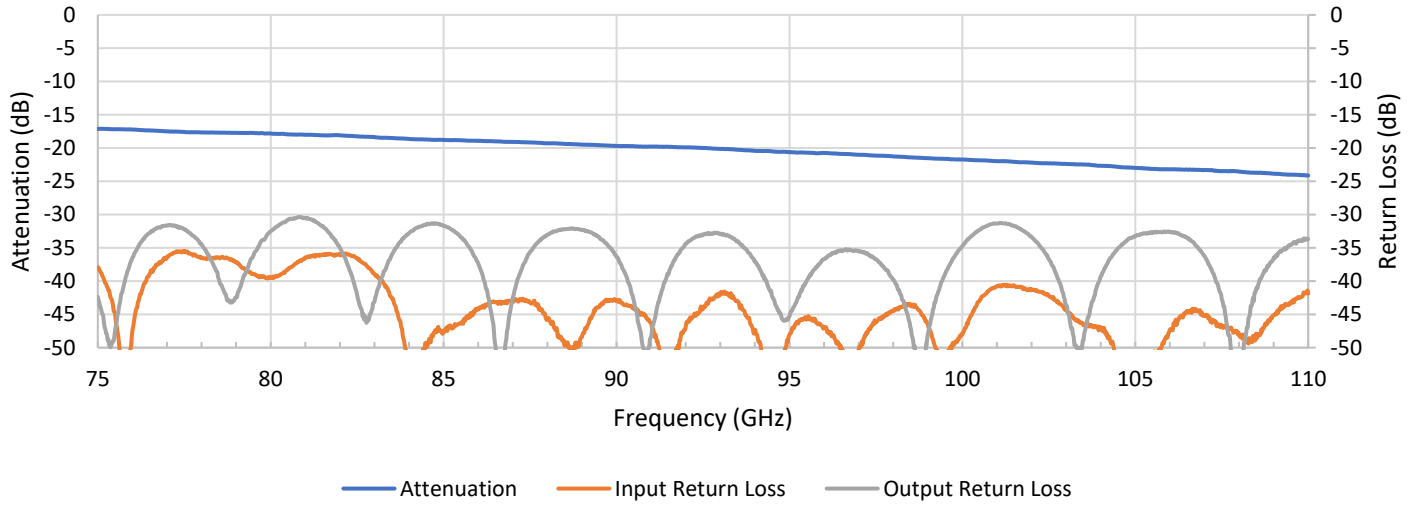
- Test Lab
- Instrumentations
- System Integration

SUPPLEMENTAL DETAILS

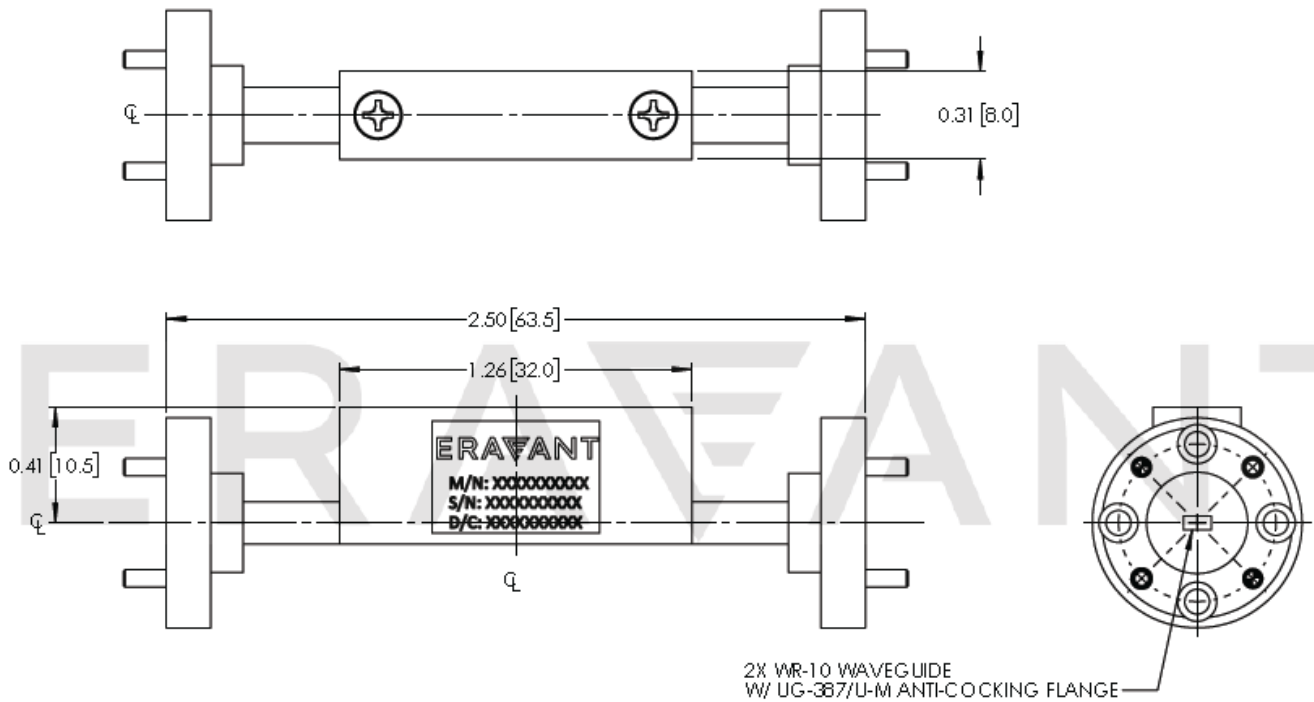


STA-20-10-F2

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 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.

ERAVANT
MAKING MILLIMETERWAVE ACCESSIBLE

ERAVANT
MAKING MILLIMETERWAVE ACCESSIBLE