



W-Band Fixed Attenuator, 30 dB, 10 Watts

Description:

Model STA-30-10-FS-40 is a 10 watt fixed attenuator that is used in millimeterwave systems and operates from 75 to 110 GHz. The attenuator has a nominal fixed attenuation value of 30 dB across the entire W band. The attenuator is uniquely designed and fabricated for full waveguide band applications and displays an extremely flat frequency response across the full bandwidth. Various attenuation values are available under different model numbers.



Features:

- Broadband Coverage
- Good Gain Flatness

Applications:

- Test Lab
- Instrumentations
- System Integration

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
RF Frequency Range	75 GHz		110 GHz
Attenuation		30 dB	
Return Loss		20 dB	
Power Handling		10 W	12 W
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

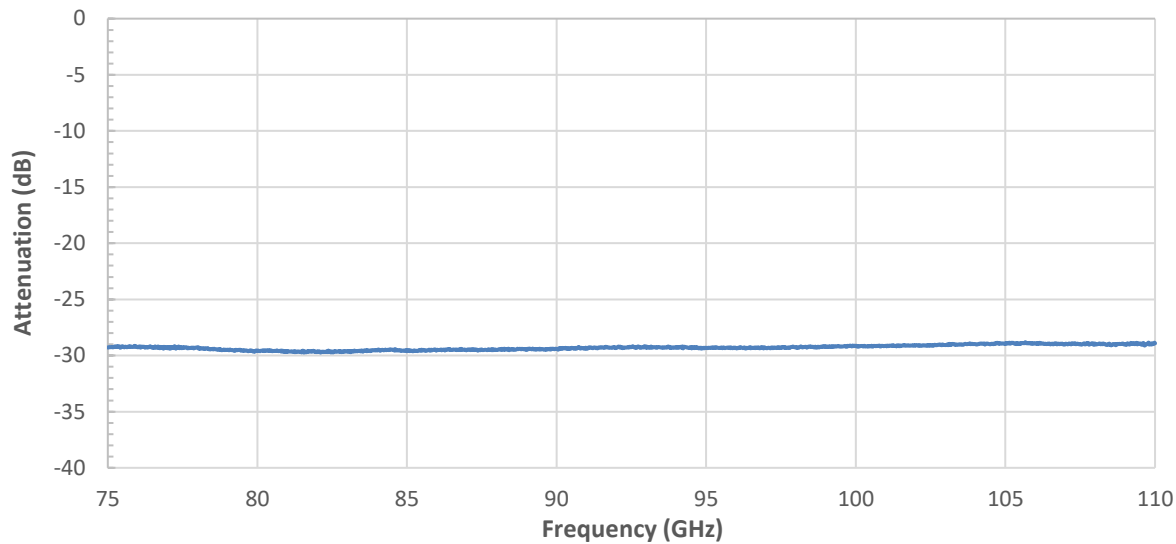
Item	Specification
RF Input	WR-10 Waveguide with UG-387/U-M Anti-Cocking Flange
RF Output	WR-10 Waveguide with UG-387/U-M Anti-Cocking Flange
Setting	Fixed
Insertion Length	3.60"
Finish	Gold Plated
Weight	2.2 Oz
Outline	TA-FW-A-40



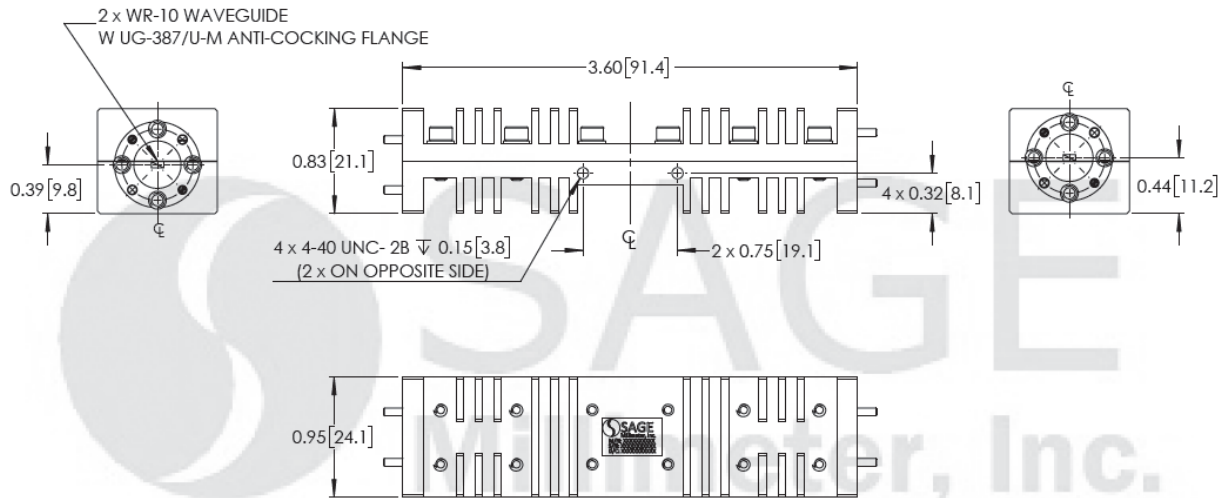


W-Band Fixed Attenuator, 30 dB, 10 Watts

Typical Attenuation vs. Frequency



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



Note:

- All data presented is collected from a sample lot. Actual data may vary unit to unit.
- All testing was performed under +25 °C case temperature.
- 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 12 W.
- Any foreign objects in the waveguide will cause performance degradation and possible device damage.

