

## U-Band Fixed Attenuator, 40 dB, 10 Watts

### Description:

**Model STA-40-19-FS-40** is a 10 watt fixed attenuator that is used in millimeterwave systems and operates from 40 to 60 GHz. The attenuator has a nominal fixed attenuation value of 40 dB across the entire U 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:

- Full Band Coverage
- Low Cost

### Applications:

- Test Lab
- Instrumentations
- System Integration

### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	40 GHz		60 GHz
Attenuation		40 dB	
Return Loss		14 dB	
Power Handling		10 W (CW)	12 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

### Mechanical Specifications:

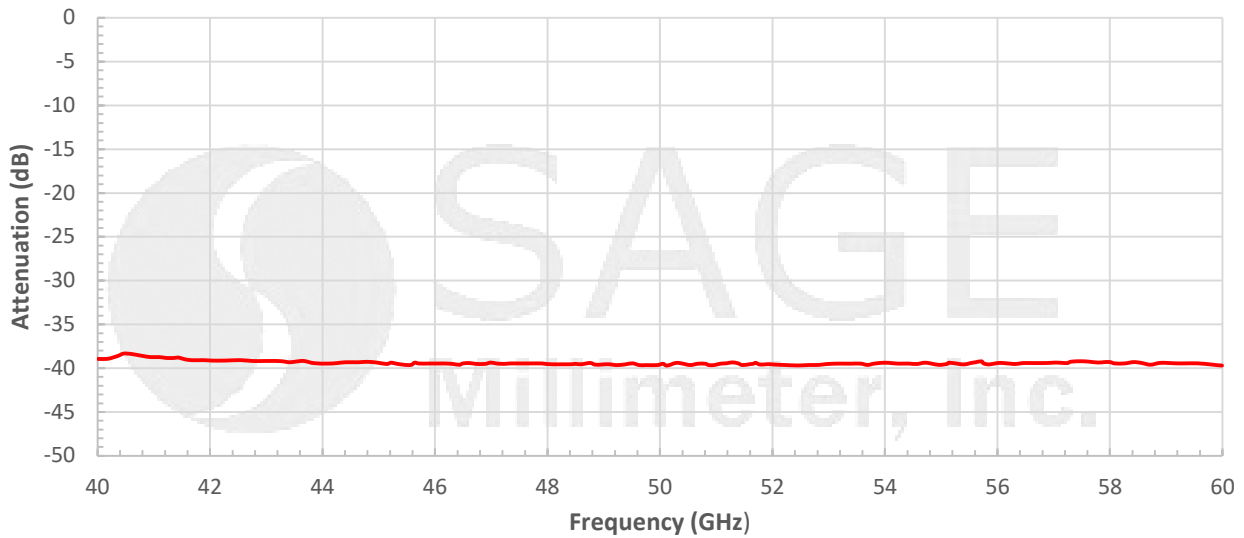
Item	Specification
Input Port	WR-19 Waveguide with UG-383/U-M Flange
Output Port	WR-19 Waveguide with UG-383/U-M Flange
Setting	Fixed
Finish	Gold Plated
Weight	9.0 Oz
Insertion Length	5.50"
Outline	TA-FU-40



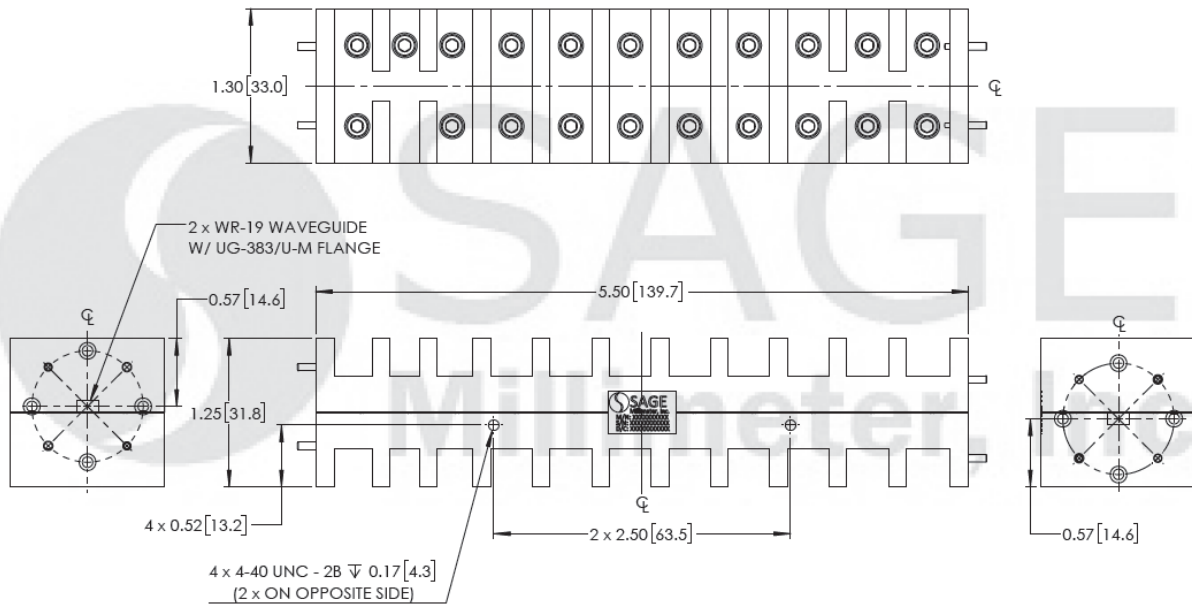


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### Typical Attenuation vs. Frequency



### 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.
- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.

#### Caution:

- Exceeding absolute maximum ratings shown will damage the device.
- Any foreign objects in the waveguide will cause performance degradation and possible device damage.



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