

## Waveguide Tunable Load, E Band

### Description:

**Model SWL-1223-T1** is an E-band tunable waveguide load that covers the frequency range of 60 to 90 GHz. The tunable load is constructed with a linear bearing and high precision Mitutoyo micrometer to guarantee smooth, long term repeatable mechanical movements. The tunable load offers 30 dB minimum return loss and up to +23 dBm RF power.



### Features:

- High Return Loss
- Linear Bearing Configuration
- Mitutoyo Micrometer Driven

### Applications:

- Test Labs
- Test Instrumentation
- System Calibration and Tuning

### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	60 GHz		90 GHz
VSWR		1.06:1	
Power Handling		+23 dBm	+25 dBm
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

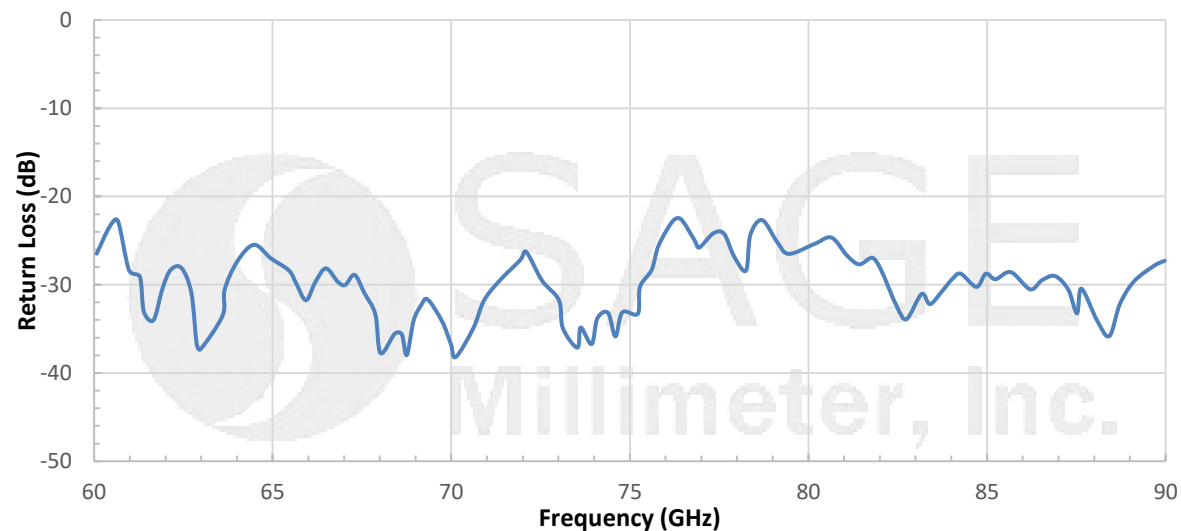
### Mechanical Specifications:

Port	Specifications
Waveguide	WR-12 Waveguide with UG-387/U Flange
Waveguide Material	Copper
Waveguide Flange Material	Brass
Finish	Gold Plated Waveguide; Black Anodized Handle
Weight	3.5 Oz
Outline	WL-ET

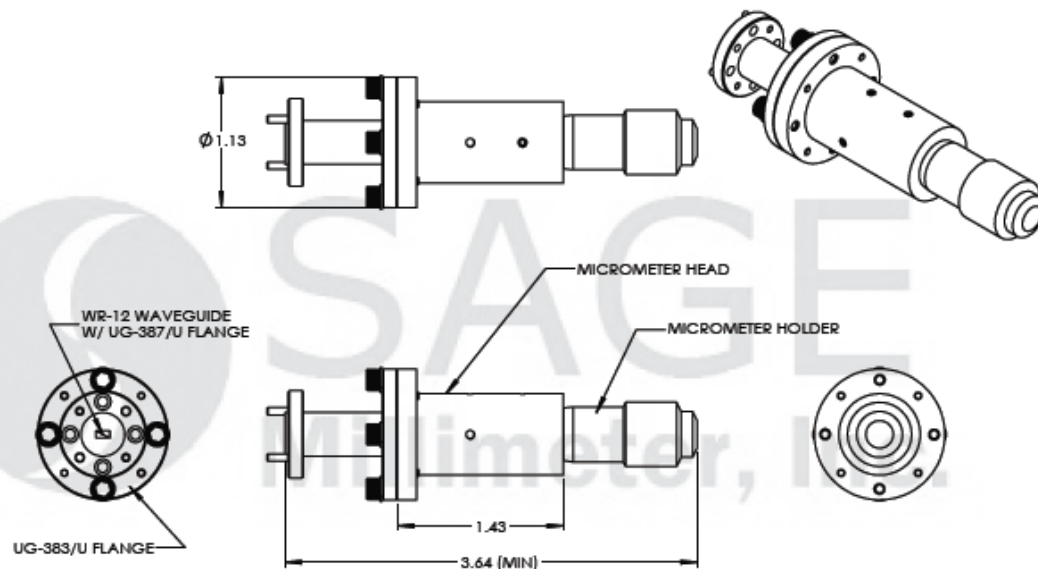


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### Typical Return Loss vs. Frequency



**Mechanical Outline:** (Unless otherwise specified, all dimensions are in inches)



#### Note:

- All data are presented using a limited 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:

- Any foreign objects in the waveguide will degrade performance and/or damage the device.



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