

## WR-04 Waveguide Termination Load, 50 Watts

### Description:

**Model SWL-0447-S1** is a high power, WR-04 termination load that covers the frequency range of 170 to 260 GHz. The termination load exhibits a typical return loss of 20 dB and 50 Watts power handling capacity. It is designed and manufactured to offer a good match for high power test lab and system applications. Custom levels of power handling are offered under different model numbers.



### Features:

- Full Waveguide Band Coverage
- High Return Loss
- Instrumentation Grade

### Applications:

- Test Lab
- Instrumentations
- Sub-assemblies

### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	170 GHz		260 GHz
Return Loss		20 dB	
Power Handling			50 W (CW)
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

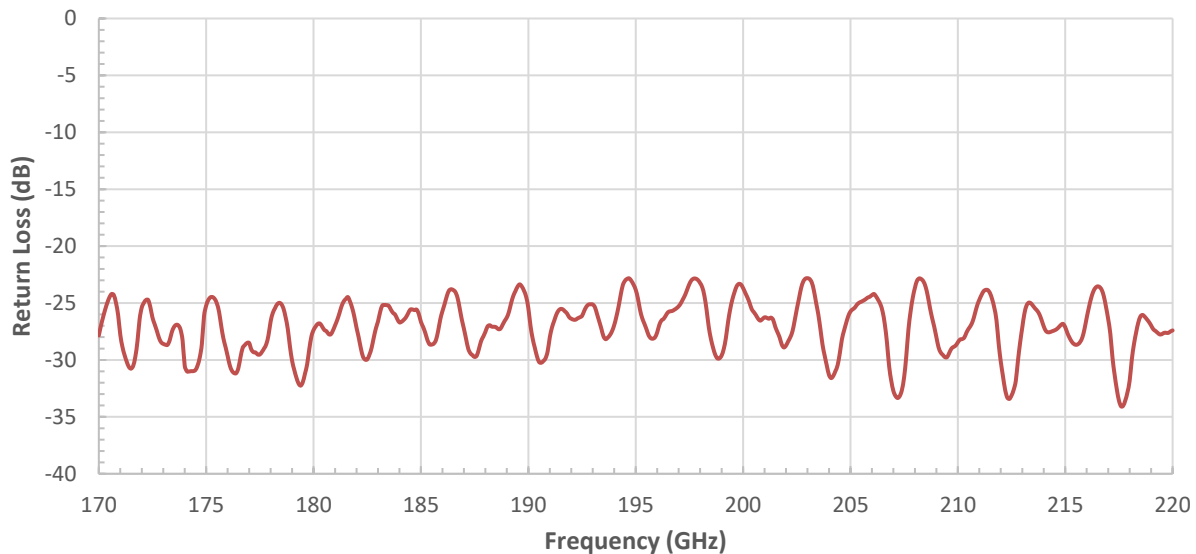
### Mechanical Specifications:

Item	Specification
RF Ports	WR-04 Waveguide with UG-387/U-M Anti-Cocking Flange
Waveguide Material	Brass
Waveguide Finish	Gold Plated
Heat Sink Finish	Aluminum
Heat Sink Finish	Black Anodized
Weight	2.0 Oz
Outline	WL-04H-50-A

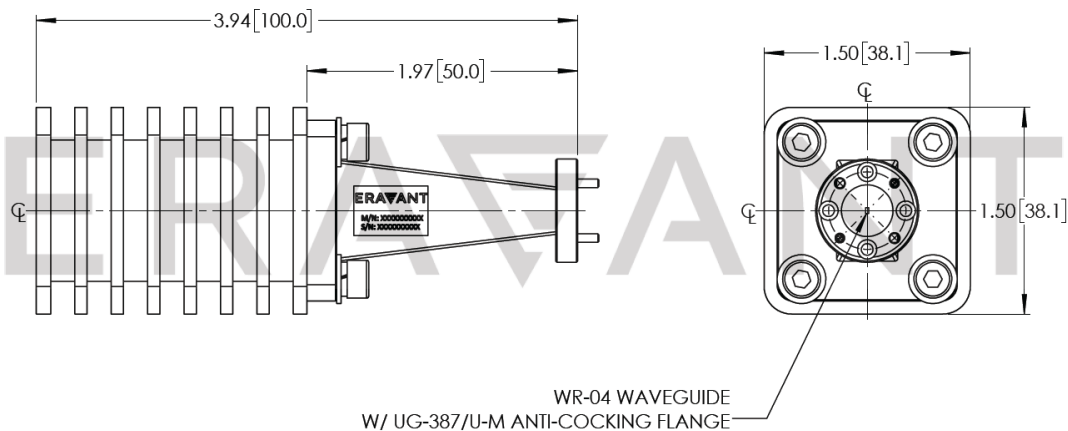


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### Measured Return Loss Vs Frequency



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



#### Note:

- Return loss data presented was measured under low power conditions (0 dBm). Actual return loss under high power conditions will be worse than what is shown on the plot.
- 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.
- Eravant 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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