

## Q-Band Waveguide Termination Load, 250 Watts

### Description:

**Model SWL-2254-S8** is a high power, Q-Band termination load that covers the frequency range of 33 to 50 GHz. The termination load exhibits a typical return loss of 22 dB and 250 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	33 GHz		50 GHz
Return Loss		22 dB	
Power Handling			250 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

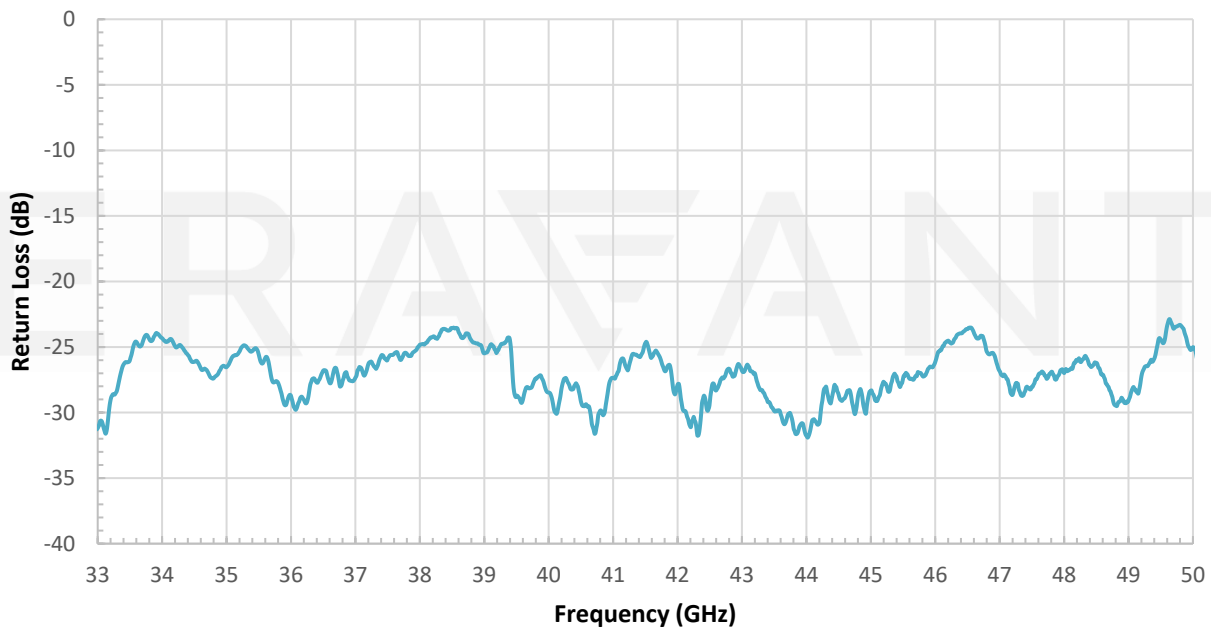
### Mechanical Specifications:

Item	Specification
RF Port	WR-22 Waveguide with UG-383/U Anti-Cocking Flange
Waveguide Material	Brass
Waveguide Finish	Gold Plated
Heat Sink Material	Aluminum
Heat Sink Finish	Black Anodized
Weight	5.2 lbs.
Outline	WL-QH-250-A-SX1

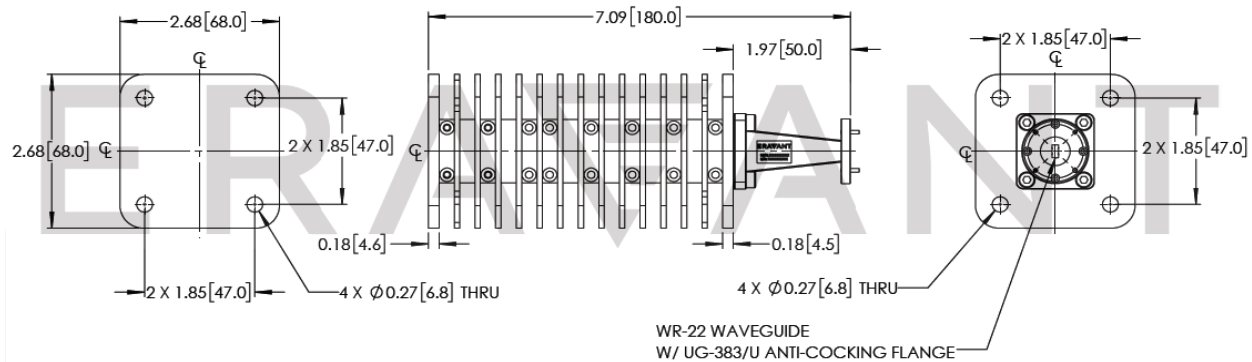


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### Typical Return Loss vs. Frequency



### 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.

