

## SWL-1947-S8

### U-Band Waveguide Termination Load, 50 Watts

**SWL-1947-S8** is a high power, U-Band termination load that covers the frequency range of 40 to 60 GHz. The termination load exhibits a typical return loss of 25 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.



### Electrical Specifications

Parameter	Minimum	Typical	Maximum
Frequency Range	40 GHz		60 GHz
Return Loss	20 dB	25 dB	
Power Handling			50 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

### Mechanical Specifications

Item	Specification
RF Port	WR-19 Waveguide with UG-383/U-M Anti-Cocking Flange
Waveguide Material	Brass
Waveguide Finish	Gold Plated
Heatsink Material	Aluminum
Heatsink Finish	Black Anodized
Size	3.94" (L) x 1.50" (W) x 1.50" (H)
Outline	WL-UH-50-A-SX1

### ECCN

EAR99

### FEATURES

- Full Band Coverage
- High Return Loss
- Instrumentation Grade

### APPLICATIONS

- Test Lab
- Instrumentation
- Sub-assemblies

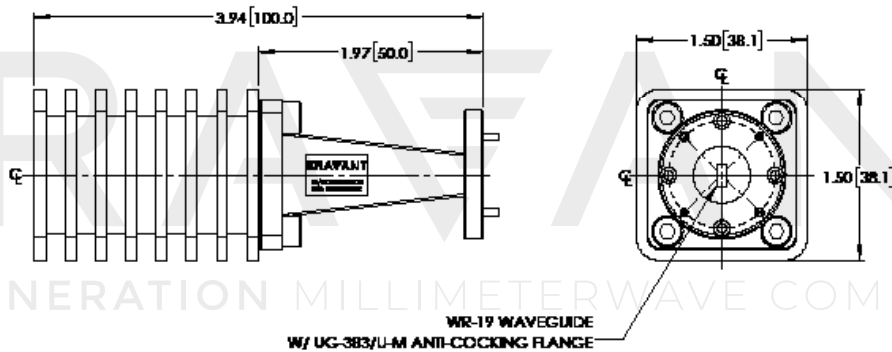
### SUPPLEMENTAL DETAILS



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### Mechanical Outline

Unless otherwise specified, all dimensions are in inches [millimeters]



### NOTE

- On condition that test data is provided it is collected from a sample lot. Actual data may vary slightly from unit to unit. All testing is performed under +25 °C room temperature.
- On condition that simulated test data is provided, actual measured data may slightly vary.
- Eravant reserves the right to change the information presented without notice.

### CAUTION

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

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Typical Return Loss vs. Frequency

