

## W-Band Waveguide Termination Load, 5 Watts

### Description:

Model SWL-1037-S1 is a medium power, W-Band termination load that covers the frequency range of 75 to 110 GHz. The termination load exhibits a typical return loss of 30 dB. It is designed and manufactured to offer a good match for system applications. Custom levels of power handling are available 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                 | 75 GHz  |          | 110 GHz  |
| Return Loss               |         | 30 dB    |          |
| Power Handling            |         | 5 W (CW) | 6 W (CW) |
| Specification Temperature |         | +25°C    |          |
| Operating Temperature     | -40°C   |          | +85°C    |

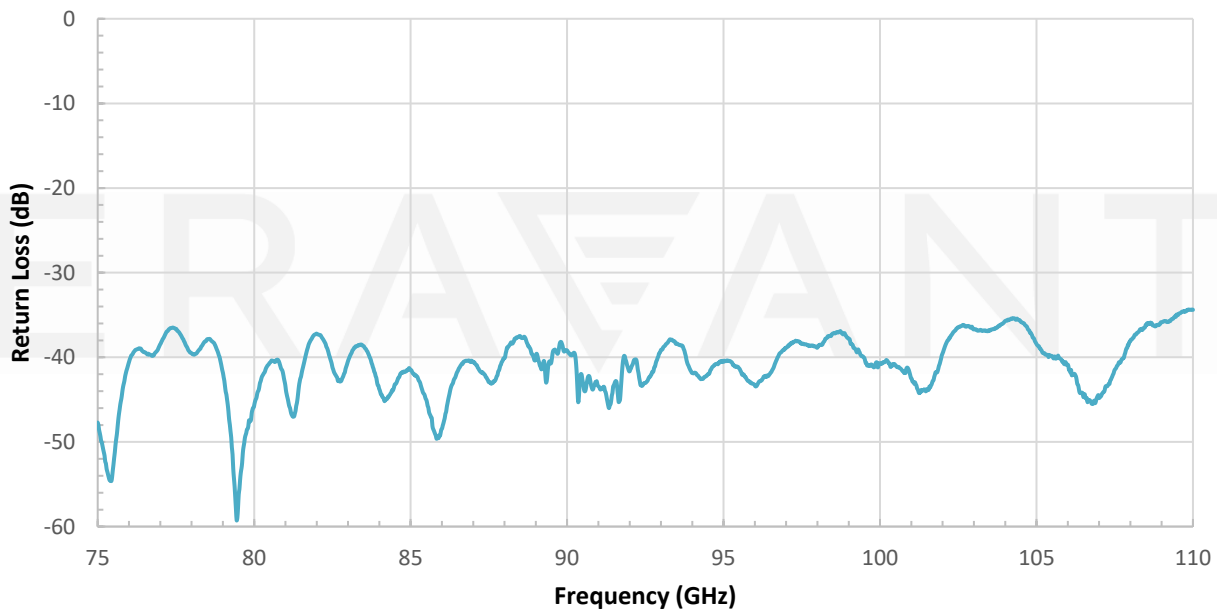
### Mechanical Specifications:

| Item               | Specification                                       |
|--------------------|---|
| RF Ports           | WR-10 Waveguide with UG-387/U-M Anti-Cocking Flange |
| Waveguide Material | Brass   |
| Waveguide Finish   | Gold Plated   |
| Heat Sink Finish   | Black Anodized                                      |
| Weight             | 2.0 Oz  |
| Outline            | WL-WM-A   |

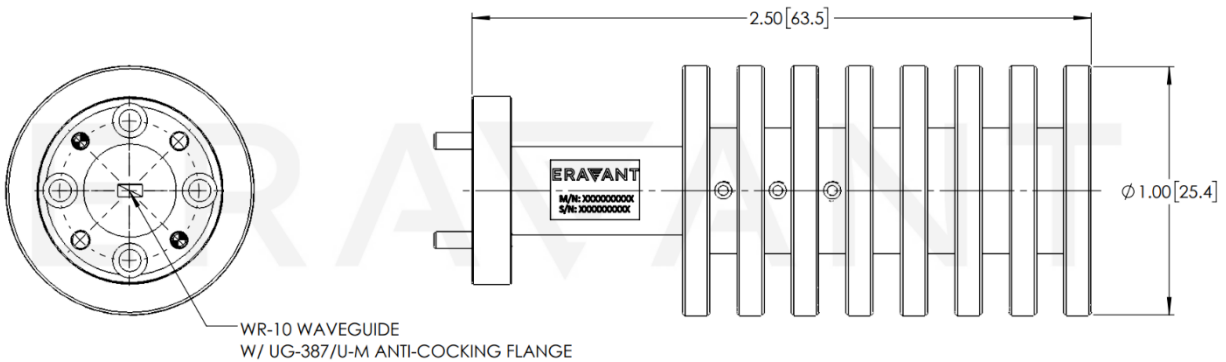


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### Typical Return Loss vs. Frequency



**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.



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