

SWL-1550-S1-V

V-Band, WR-15 Waveguide Termination Load, 100 Watts, TVAC

SWL-1550-S1-V is a high power WR-15 waveguide termination load that covers the frequency range from 50 to 75 GHz. The termination load exhibits a typical return loss of 20 dB and 100 Watts power handling capacity. The load uses high temperature ceramic absorbers to ensure high power handling capability via conduction. The load is designed and manufactured with low outgassing materials and adhesives to ensure that it is safe to use in thermal vacuum environments. It also includes vent holes to assist in the depressurization of the unit in vacuum environments. Other power handling levels are available under different model numbers.



Electrical Specifications:

| Parameter | Minimum | Typical | Maximum |
|---------------------------|---------|---------|------------|
| Frequency Range | 50 GHz | | 75 GHz |
| Return Loss | | 20 dB | |
| Power Handling* | | | 100 W (CW) |
| Specification Temperature | | +25°C | |
| Operating Temperature | -30°C | | +60°C |

*Actual power handling is dependent on the thermal capacity of the cold plate the load is mounted on.

Mechanical Specifications:

| Item | Specification |
|----------------|-----------------------|
| Waveguide Port | WR-15 |
| Flange | UG-385/U Anti-Cocking |
| Material | Aluminum |
| Finish | None |
| Weight | 9.0 Oz |
| Outline | WL-VH-100-A-V |

ECCN

EAR99

FEATURES

- Full Band Coverage
- High Return Loss
- Vacuum Compatible
- Vent Holes
- Low Outgassing Ceramic Absorber

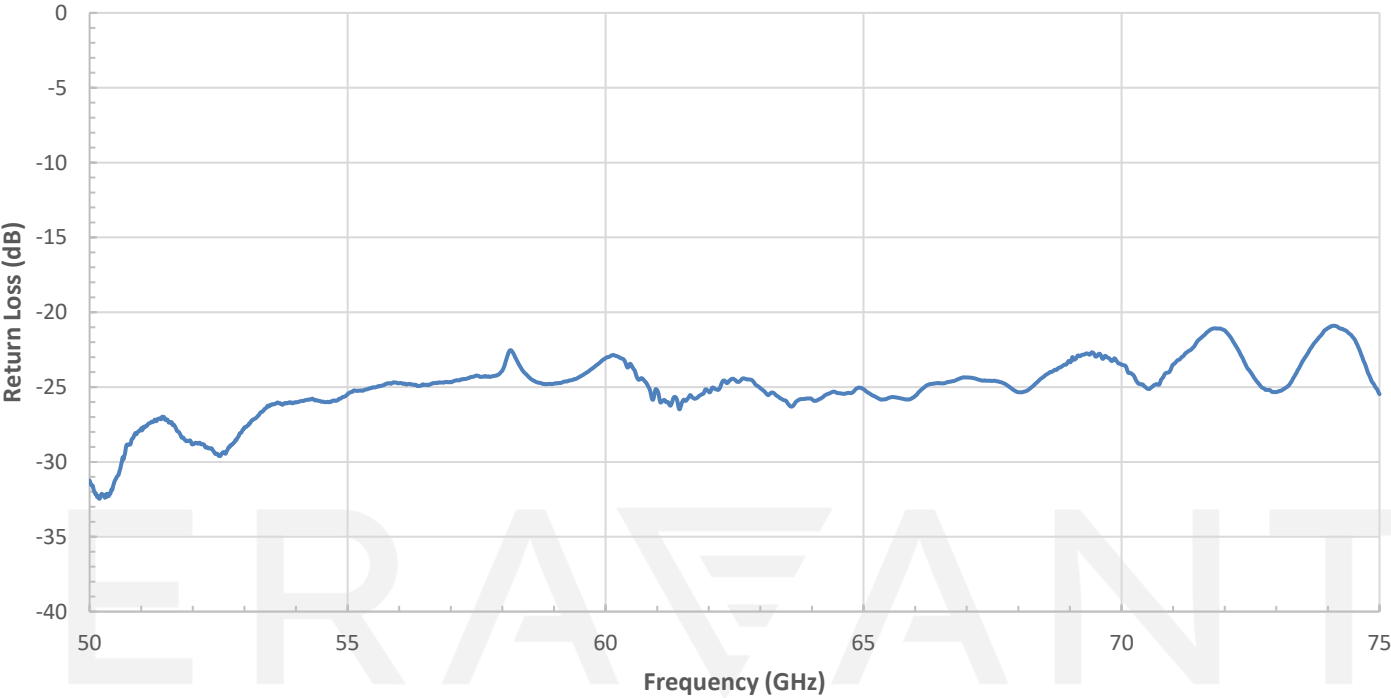
APPLICATIONS

- TVAC Testing
- Sub-Assemblies

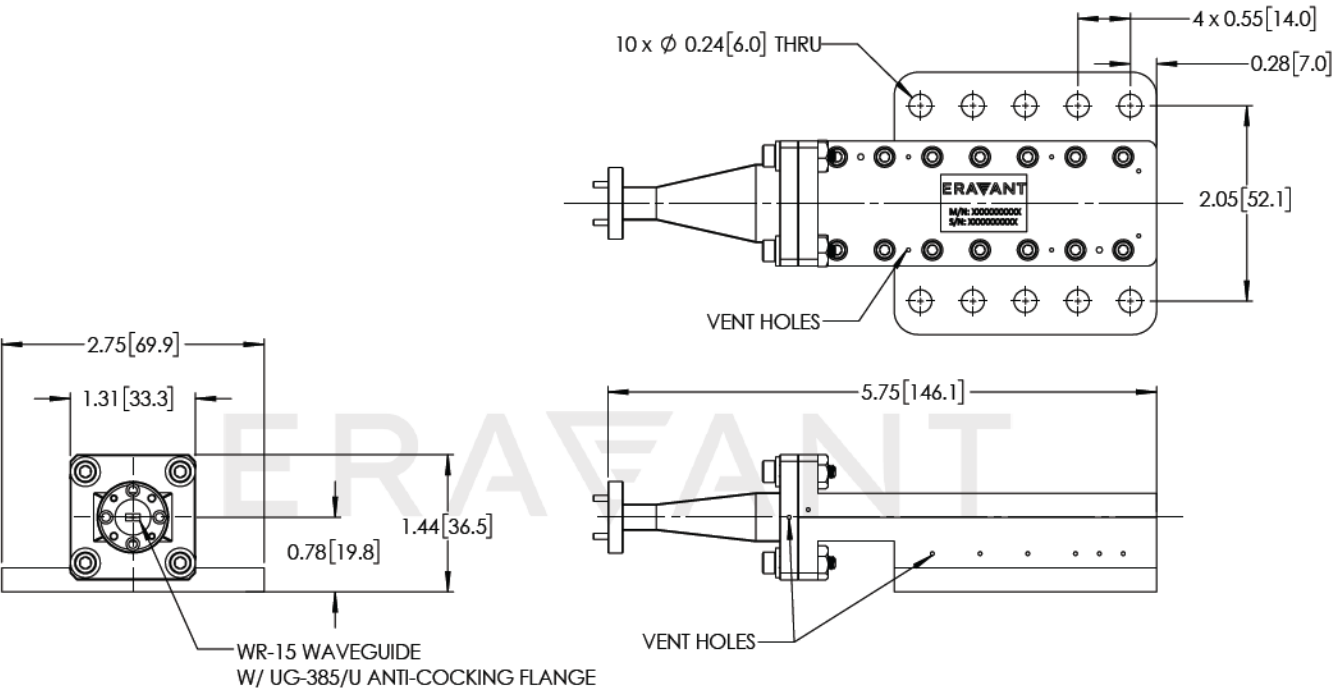
SUPPLEMENTAL DETAILS

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Typical Measured Return Loss vs Frequency



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



NOTE:

- Return loss data presented is measured under low power conditions (0 dBm). Actual return loss under high power conditions will be worse than what is shown on the plot.
- Test data provided is collected from a sample lot. Actual data may vary slightly from unit to unit. All testing is performed under +25 °C room 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 may damage or destroy the unit.

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