SWL-6250-S1-V

Ku-Band, WR-62 Waveguide Termination Load, 100 Watts, TVAC

SWL-6250-S1-V is a high power WR-62 waveguide termination load that covers the frequency range from 12.4 to 18 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	12.4 GHz		18 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-62
Flange	UG-419/U
Material	Aluminum
Finish	None
Weight	8.0 Oz
Outline	WL-6H-100-V

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FEATURES

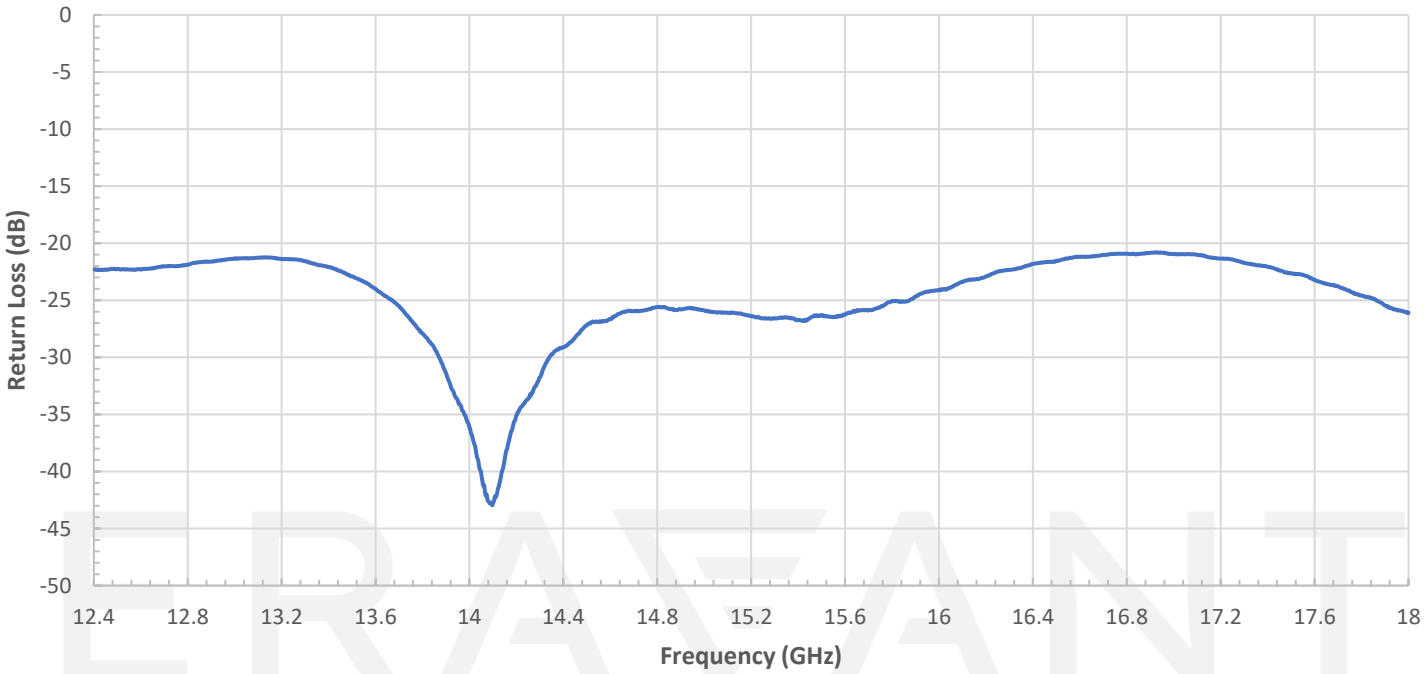
- Full Band Coverage
- High Return Loss
- Vacuum Compatible
- Vent Holes
- Low Outgassing Ceramic Absorber

APPLICATIONS

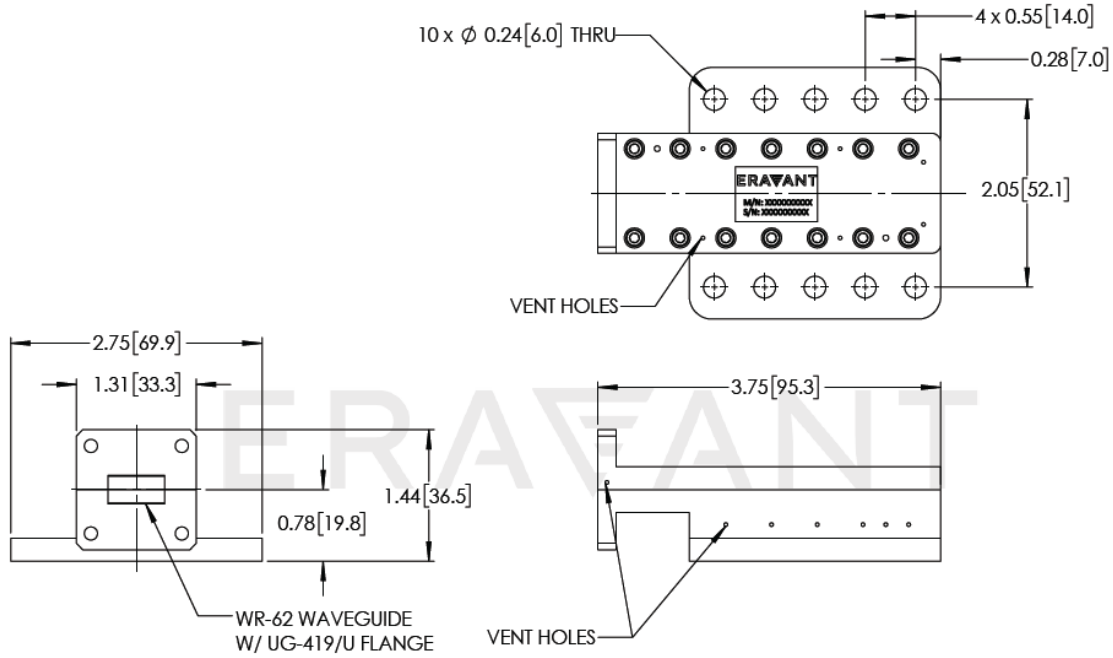
- TVAC Testing
- Sub-Assemblies

SUPPLEMENTAL DETAILS

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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