

SWL-1937-S1

U-Band Waveguide Termination Load, 5 Watts

SWL-1937-S1 is a medium power, U-Band termination load that covers the frequency range of 40 to 60 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..



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency	40 GHz		60 GHz
Return Loss		30 dB	
Power Handling		5 W (CW)	6 W (CW)
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

ECCN

EAR99

FEATURES

- Full Waveguide Band Coverage
- High Return Loss
- Instrumentation Grade

APPLICATIONS

- Test Lab
- Instrumentations
- Sub-assemblies

SUPPLEMENTAL DETAILS

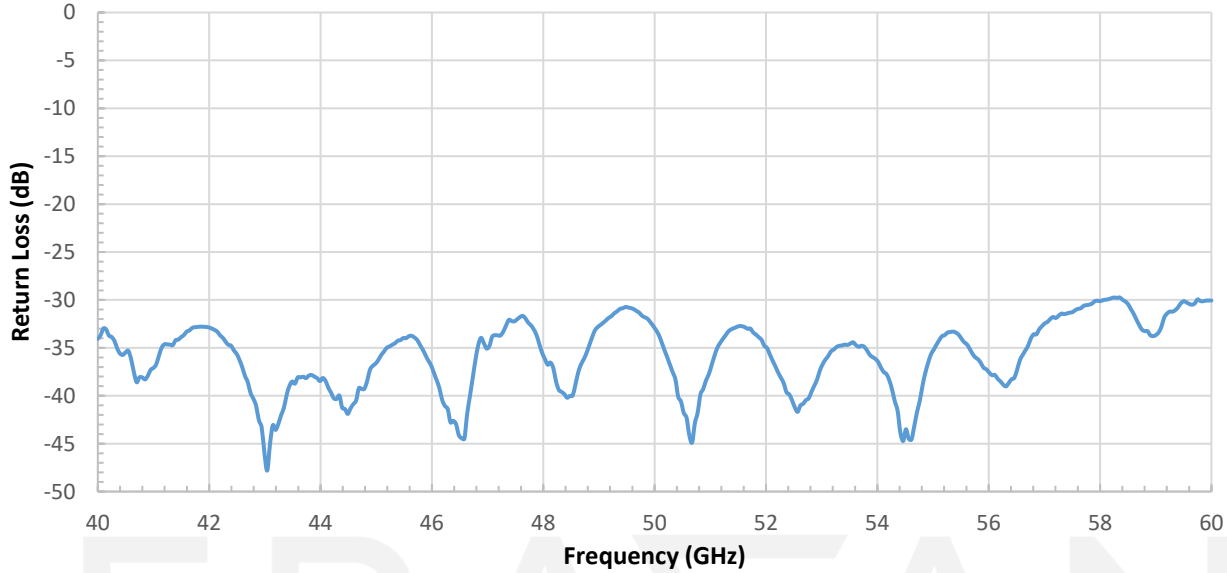
Mechanical Specifications:

Item	Specification
RF Ports	WR-19 Waveguide with UG-383/U-M Anti-Cocking Flange
Waveguide Material	Brass
Waveguide Finish	Gold Plated
Heat Sink Finish	Black Anodized
Weight	3.5 Oz
Outline	WL-UM-A

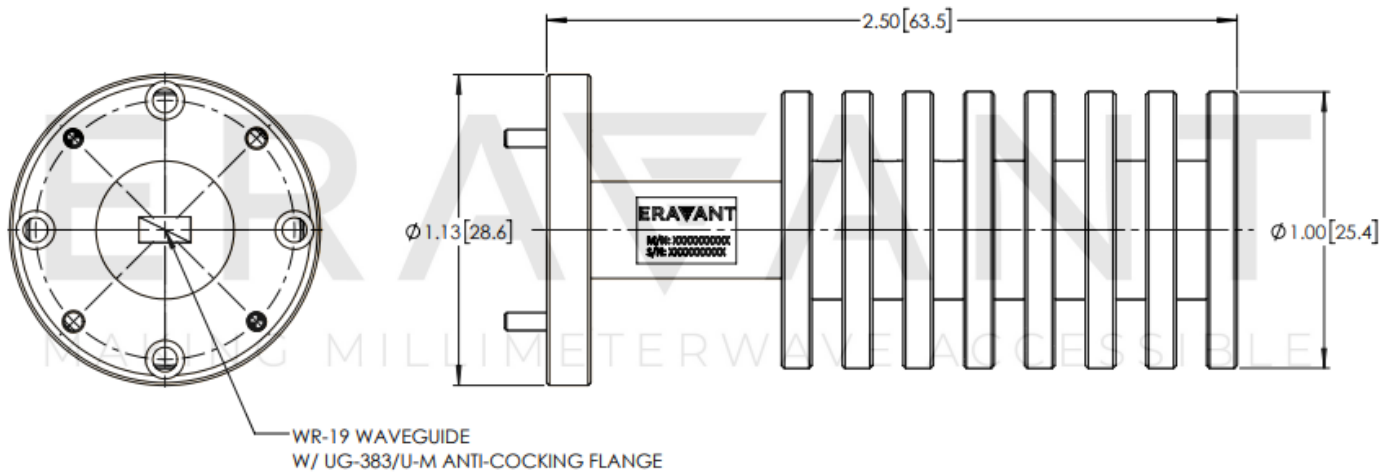


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Typical Return Loss vs. Frequency



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.**
- 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.
- Eravant reserves the right to change the information presented without notice.

CAUTION:

- Exceeding absolute maximum ratings shown will damage the device.
- If a waveguide is present, any foreign objects in the waveguide will cause performance degradation and may damage or destroy the unit.
- For 1 mm connectors proper torque should be applied: 4.0 ± 0.15 inch-pounds (0.45 ± 0.02 Nm). Torque wrench model [SCH-06004-S1](#) is highly recommended.
- For 1.35 mm, 1.85 mm, 2.4 mm, 2.92 mm, and SMA connectors proper torque should be applied: 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm). Torque wrench model [SCH-08008-S1](#) is highly recommended.

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