

SWC-19VF-R1-V and SWC-19VM-R1-V

U-Band Waveguide to 1.85mm Connector Adapter, Right Angle, Thermal Vacuum Safe

SWC-19VF-R1-V and SWC-19VM-R1-V are right angle (90°) U-Band waveguide to coax adapters that cover the frequency range of 40 to 60 GHz. They are designed and manufactured for instrumentation grade quality and thermal vacuum compatibility, allowing for an efficient transition between the rectangular waveguide and 1.85 mm (V) coax connector.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	40 GHz		60 GHz
Insertion Loss		0.5 dB	0.8 dB
Return Loss	16 dB	18 dB	
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

Mechanical Specifications:

Item	Specification
Waveguide Port	WR-19 with UG-383/U-M Anti-Cocking Flange
Coaxial Port	1.85 mm (V) Female for M/N: SWC-19VF-R1-V 1.85 mm (V) Male for M/N: SWC-19VM-R1-V
Material	Aluminum
Finish	Gold Plated
Weight	0.4 Oz
Outline	WC-UR-A

ECCN

EAR99

FEATURES

- Thermal Vacuum Safe
- Broad Band Coverage
- Lower Insertion Loss and VSWR
- Instrumentation Grade
- DC Open Circuit

APPLICATIONS

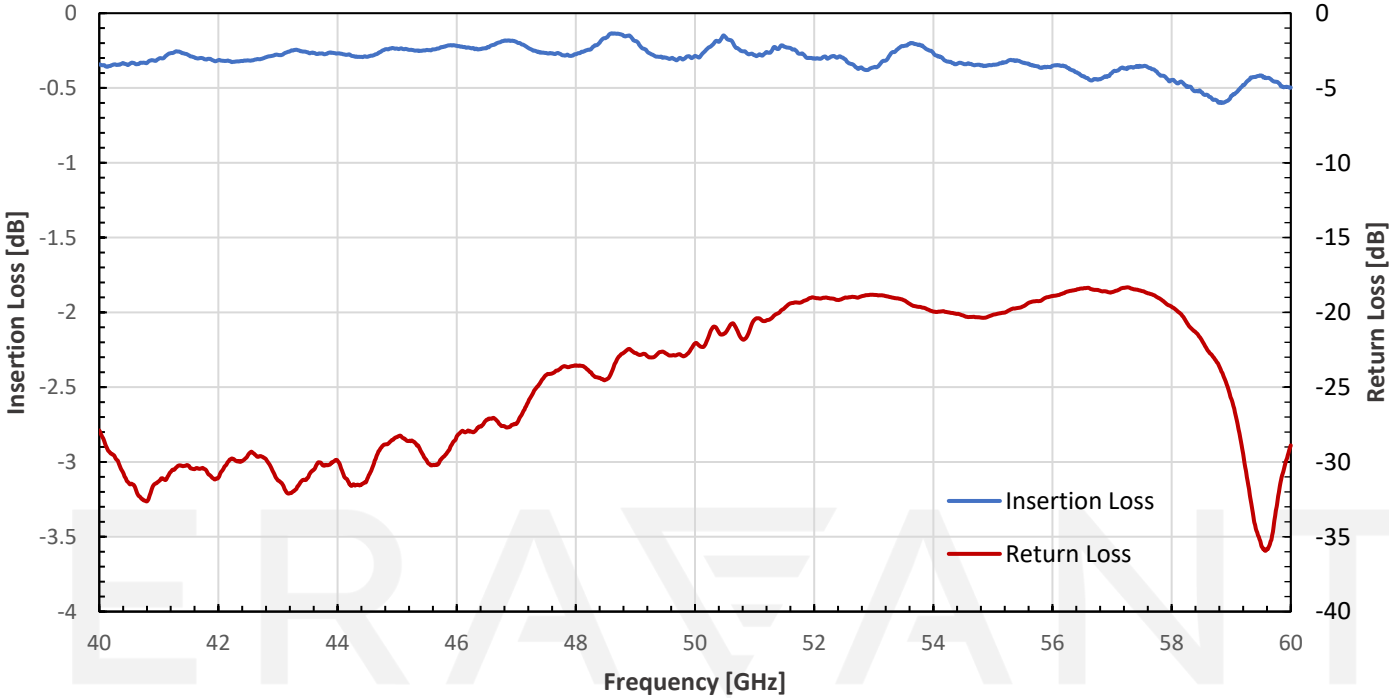
- Thermal Vacuum Chamber
- Test Lab
- Instrumentations
- Sub-assemblies

SUPPLEMENTAL DETAILS

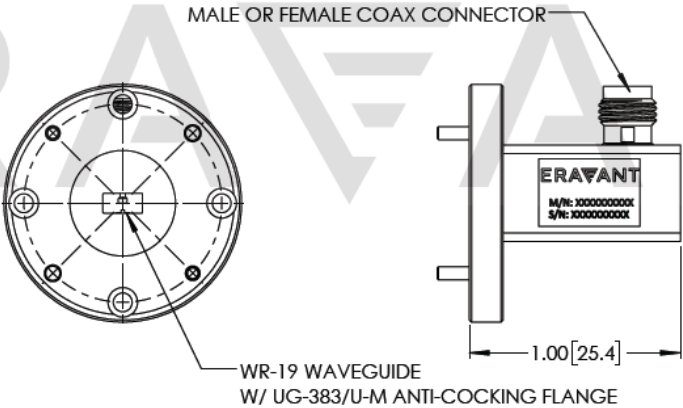
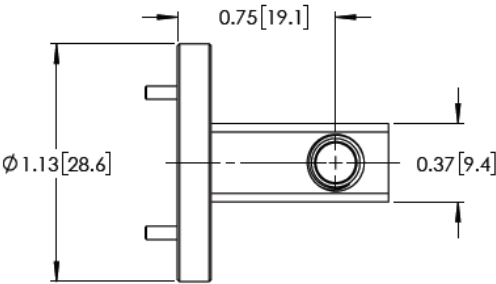


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Typical Measured Performance vs. Frequency



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



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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:

- Any foreign objects in the waveguide will cause performance degradation and possible device damage.
- 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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