

U-Band Waveguide to 1.85mm Connector Adapter, Right Angle, UG-599/U Flange**Description:**

Models SWC-19VF-R1-599-WP are right angle (90°) U-Band waveguide to coax adapters with UG-599/U flanges that cover the frequency range of 40 to 60 GHz. They are designed and manufactured for instrumentation grade quality but offered at a commercial grade price, allowing for an efficient transition between the rectangular waveguide and 1.85 mm (V) coax connector. The end launch (180°) versions are offered under model numbers SWC-19VF-E1-599 and SWC-19VM-E1-599.

**Features:**

- Broad Band Coverage
- Low Insertion Loss and VSWR
- Instrumentation Grade
- DC Open Circuit

Applications:

- Test Lab
- Instrumentation
- Sub-assemblies

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	
Power Handling			40 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

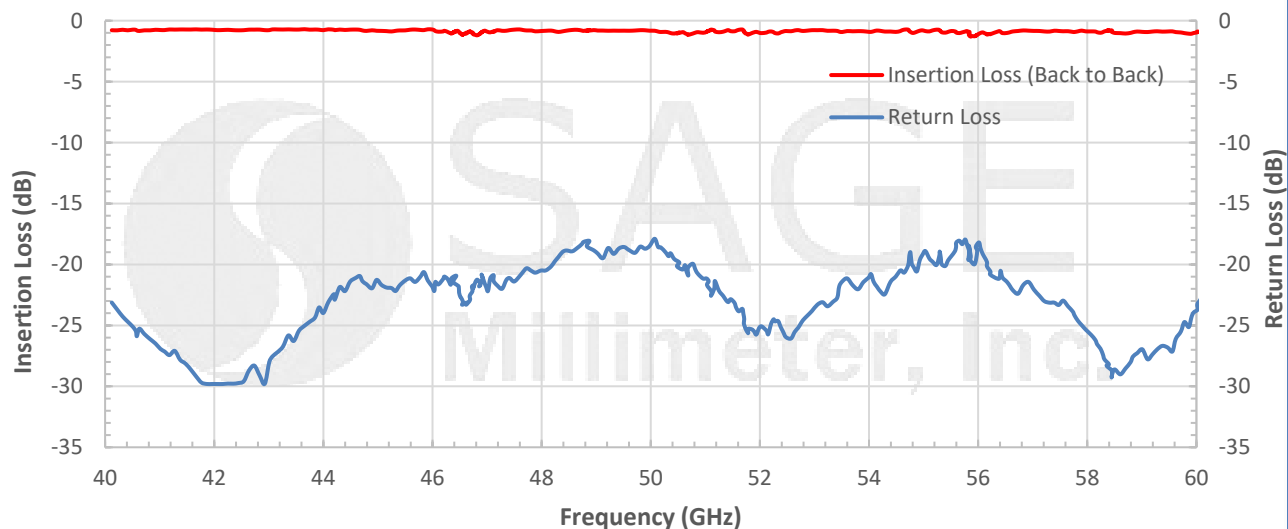
Mechanical Specifications:

Item	Parameter
Waveguide	WR-19 with UG-599/U Flange
Coaxial	1.85 mm (V) Female for Model Number: SWC-19VF-R1-599
Coaxial	1.85 mm (V) Male for Model Number: SWC-19VM-R1-599
Size	1.00" (L) x 0.75" (SQ)
Housing Material	Aluminum
Finish	Gold Plated
Weight	0.4 Oz
Outline	WC-UR-599

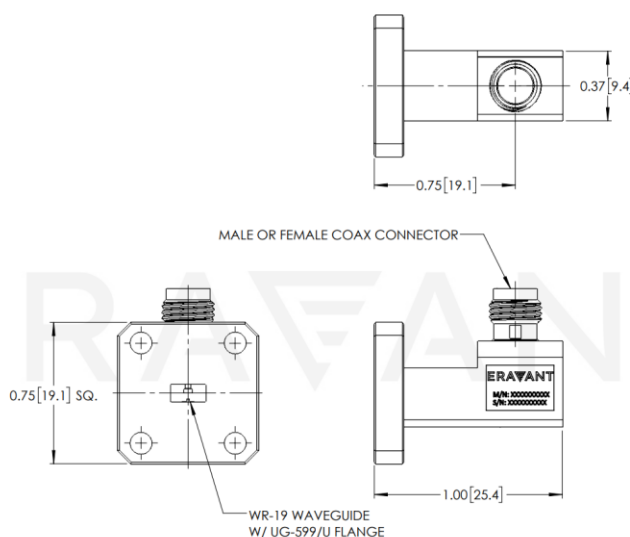


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Typical Return Loss and Back to Back Insertion Loss vs. Frequency



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

**Note:**

- All data presented is collected from a sample lot. Actual data may vary unit to unit, slightly.
- All testing was performed under +25 °C case temperature.
- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.

Caution:

- Any foreign objects in the waveguide will cause performance degradation and may damage the adapter.
- Proper torque, 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm), should be applied. **SAGE Millimeter torque wrench, model SCH-08008-S1, is highly recommended.**



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