

SWC-19VF-E1-RL22-599 and SWC-19VM-E1-RL22-599

U-Band Waveguide to 1.85 mm Connector Adapter, End Launch, UG-599/U Flange, Non-Standard Return Loss

SWC-19VF-E1-RL22-599 and **SWC-19VM-E1-RL22-599** are end launch (180°) 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 but offered at a commercial grade price, allowing for an efficient transition between the rectangular waveguide and 1.85 mm (V) coax connector. The adapters offer 22 dB non-standard return loss.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	40 GHz		60 GHz
Insertion Loss		0.6 dB	
Return Loss	20 dB	22 dB	
Power Handling			40 W (CW)
Specification Temperature		+25°C	
Operating Temperature	-45°C		+85°C

Mechanical Specifications:

Item	Specification
Waveguide	WR-19 with UG-599/U Flange
Coaxial	1.85 mm (V) Female for M/N: SWC-19VF-E1-RL22-599
Coaxial	1.85 mm (V) Male for M/N: SWC-19VM-E1-RL22-599
Housing Material	Aluminum
Finish	Gold Plated
Weight	0.4 Oz
Outline	WC-UE-599-2

ECCN

EAR99

FEATURES

- Full Waveguide Band Coverage
- Lower Insertion Loss and VSWR
- Instrumentation Grade
- DC Short Circuit

APPLICATIONS

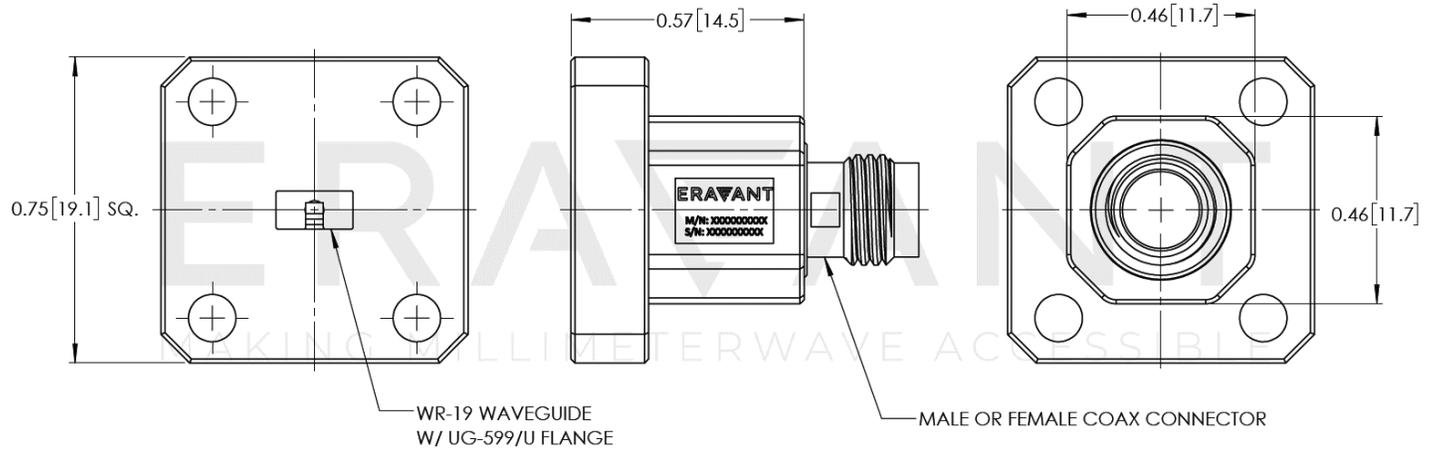
- Test Lab
- Instrumentations
- Sub-assemblies

SUPPLEMENTAL DETAILS



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.
- Eravant 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. Eravant torque wrench, model [SCH-08008-S1](#), is highly recommended.