#### SWC-19VF-E1 and SWC-19VM-E1

### U-Band Waveguide to 1.85mm Connector Adapter, End Launch

**SWC-19VF-E1** and **SWC-19VM-E1** 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 right angle (90°) versions are offered under model numbers SWC-19VF-R1 and SWC-19VM-R1.



**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	-45°C		+85°C

#### **Mechanical Specifications:**

Item	Specification	
Waveguide	WR-19 with UG383/U-M Anti-Cocking Flange	
Coaxial	1.85 mm (V) Female for Model Number: SWC-19VF-E1	
Coaxial	1.85 mm (V) Male for Model Number: SWC-19VM-E1	
Housing Material	Aluminum	
Finish	Gold Plated	
Weight	0.4 Oz	
Outline	WC-UE-A-2	

#### **ECCN**

EAR99

#### **FEATURES**

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

#### **APPLICATIONS**

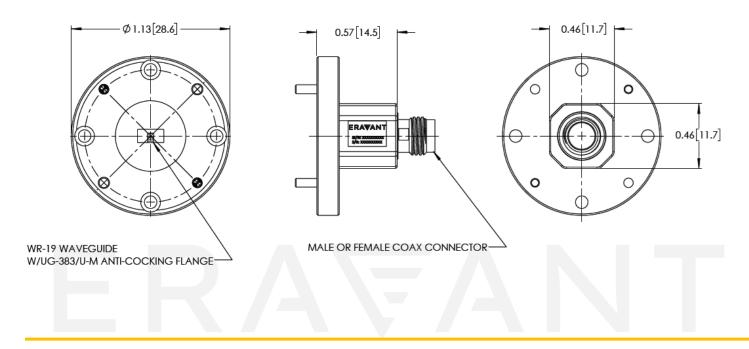
- Test Lab
- Instrumentations
- Sub-assemblies

#### **SUPPLEMENTAL DETAILS**



#### **Mechanical Outline:**

Unless otherwise specified, all dimensions are in inches [millimeters])



#### NOTE: A.K.I.N.G. M.I.L.L.I.M.E.T.E.R.W.A.V.E., A.C.C.E.S.S.I.B.L.

- 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.

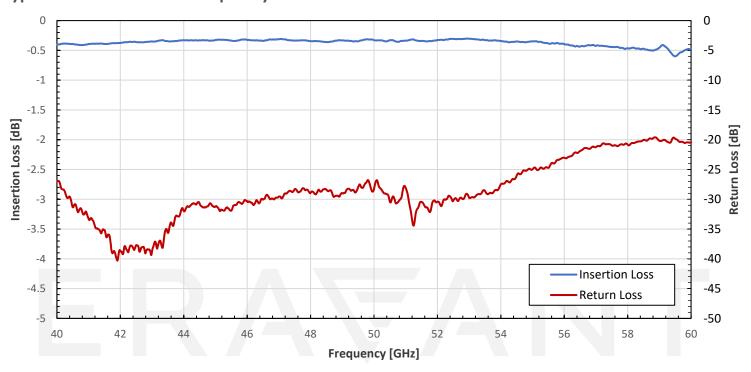
#### **CAUTION:**

- 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.

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#### **Typical Performance vs. Frequency**



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