

SWC-5036531410-15VF-E1-WP

V-Band Waveguide to 1.85 mm Connector Adapter, End Launch

SWC-5036531410-15VF-E1-WP is an end launch (180°) V-Band waveguide to coax adapter that covers the frequency range of 50 to 65 GHz. The adapter is 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.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	50 GHz		65 GHz
Insertion Loss*		1 dB	
Return Loss		14 dB	
Power Handling			40 W (CW)
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

*Insertion loss is tested back-to-back with a male and female adapter. The result is divided by 2.

Mechanical Specifications:

Item	Specification
Waveguide Port	WR-15 Waveguide with UG-383/U Anti-Cocking Flange
Coax Port	1.85 mm (V) Female
Material	Aluminum
Finish	Gold Plated
Weight	0.4 Oz
Outline	WC-VE-A

ECCN

EAR99

FEATURES

- Low Insertion Loss and VSWR
- Instrumentation Grade
- DC Open Circuit

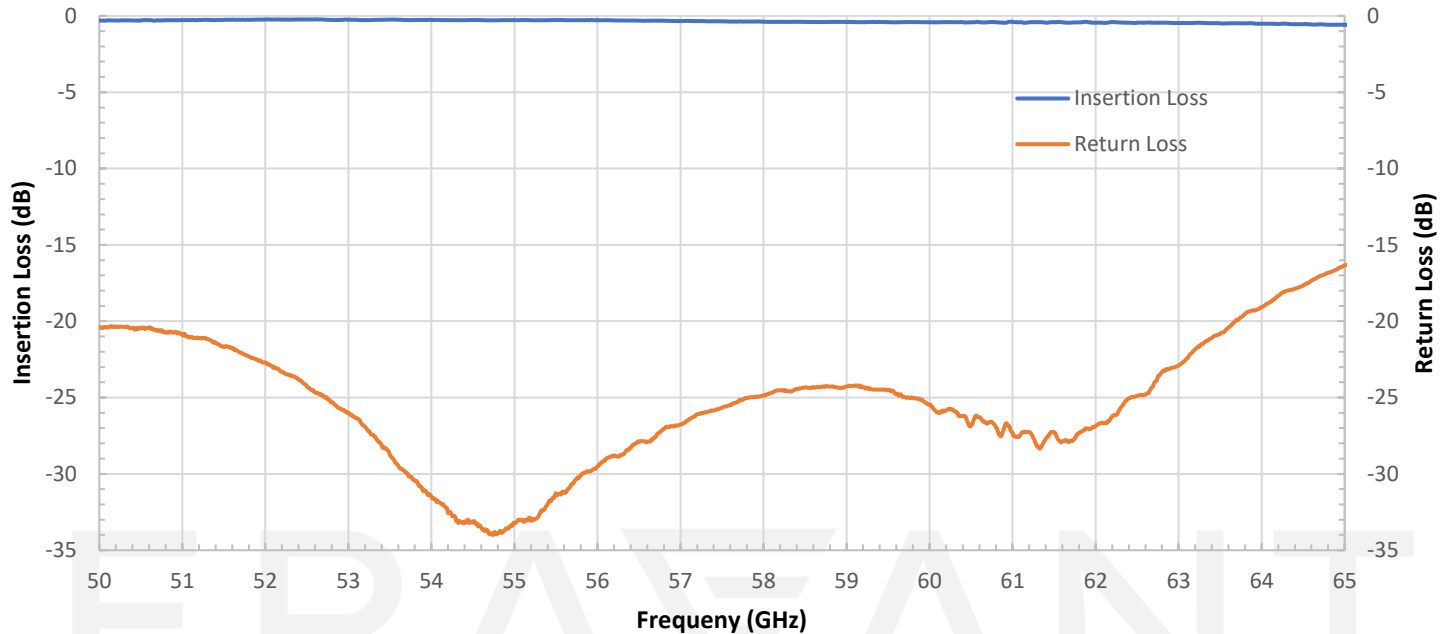
APPLICATIONS

- Test Lab
- Instrumentations
- Sub-assemblies

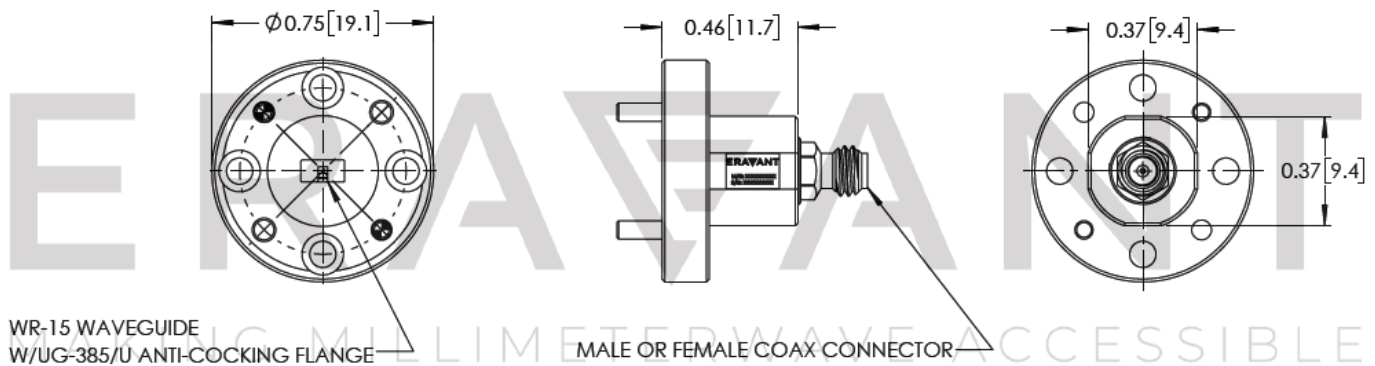
SUPPLEMENTAL DETAILS



Typical Return Loss and Insertion Loss vs Frequency



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



NOTE:

- Data provided 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:

- 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.