V-Band Waveguide to 1.00 mm Connector Adapter, Right Angle, Thermal Vacuum Safe

SWC-151F-R1-V and SWC-151M-R1-V are right angle (90°) V-Band waveguide to coax adapters that cover the frequency range of 50 to 75 GHz. They are designed and manufactured for instrumentation grade quality and thermal vacuum compatibility, allowing for an efficient transition between the rectangular waveguide and 1.00 mm coax connector.

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	50 GHz		75 GHz
Insertion Loss		0.7 dB	1 dB
Return Loss	12 dB	15 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

Item	Specification
Waveguide	WR-15 with UG-385/U Anti-Cocking Flange
Coaxial	1.00 mm Female for M/N: SWC-151F-R1-V
	1.00 mm Male for M/N: SWC-151M-R1-V
Housing Material	Aluminum
Finish	Gold Plated
Weight	0.4 Oz
Outline	WC-VR-A

ECCN

EAR99

FEATURES

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

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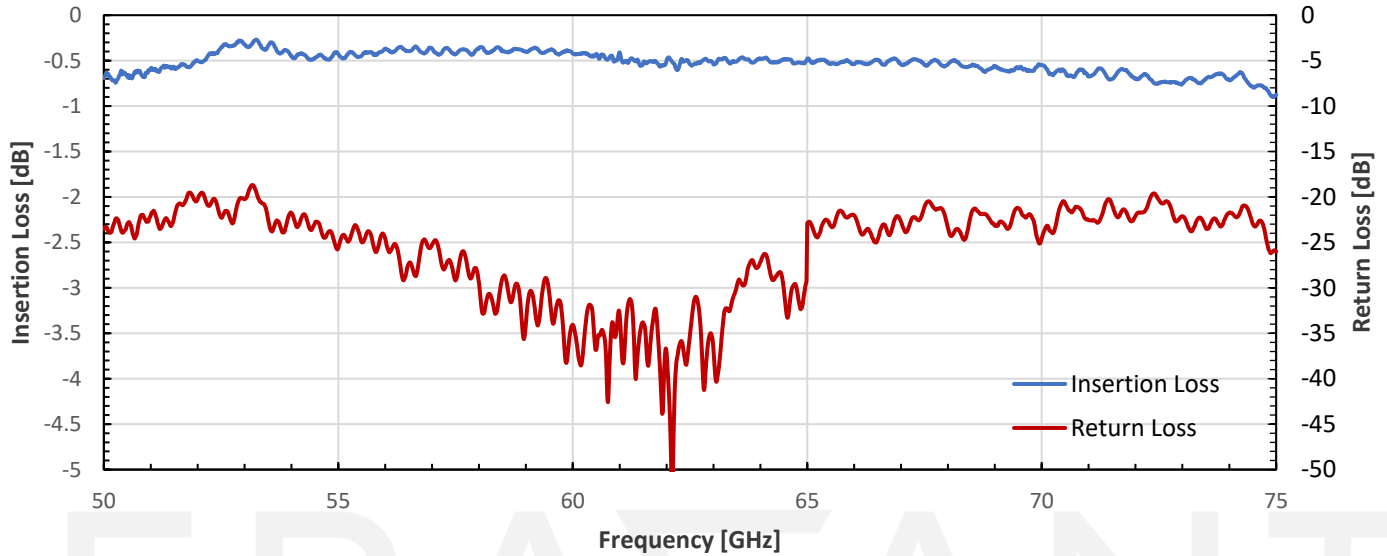
- Thermal Vacuum Chamber
- Test Lab
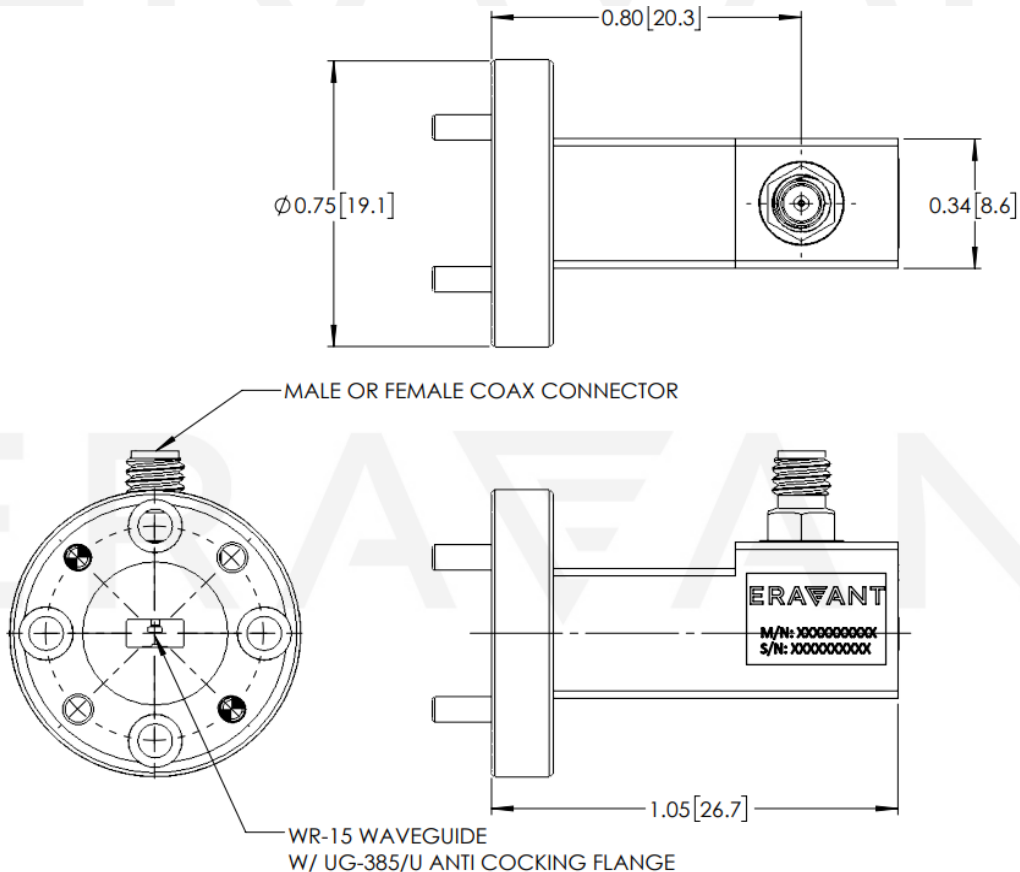- Instrumentations
- Sub-assemblies

SUPPLEMENTAL DETAILS

RoHS

Typical Measured Performance vs. Frequency

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

MALE OR FEMALE COAX CONNECTOR

WR-15 WAVEGUIDE
W/ UG-385/U ANTI COCKING FLANGE

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.
- Eravant reserves the right to change the information presented without notice.

CAUTION:
- If a waveguide is present, any foreign objects in the waveguide will cause performance degradation and may damage or destroy the unit.
- 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