ERAVANT

V-Band Waveguide to 1.0 mm Connector Adapter, Right Angle, 1.0"

SWC-151M-R1-1.0-WP is a right angle (90°) V-Band waveguide to coax adapters that cover the frequency range of 50 to 75 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 1.0 mm coax connector. The end launch (180°) version is offered under model numbers **SWC-151F-E1**.

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	50 GHz		75 GHz
Insertion Loss		0.7 dB	1 dB
Return Loss	13 dB	16 dB	
Power Handling			10 W (CW)
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

ECCN

EAR99

FEATURES

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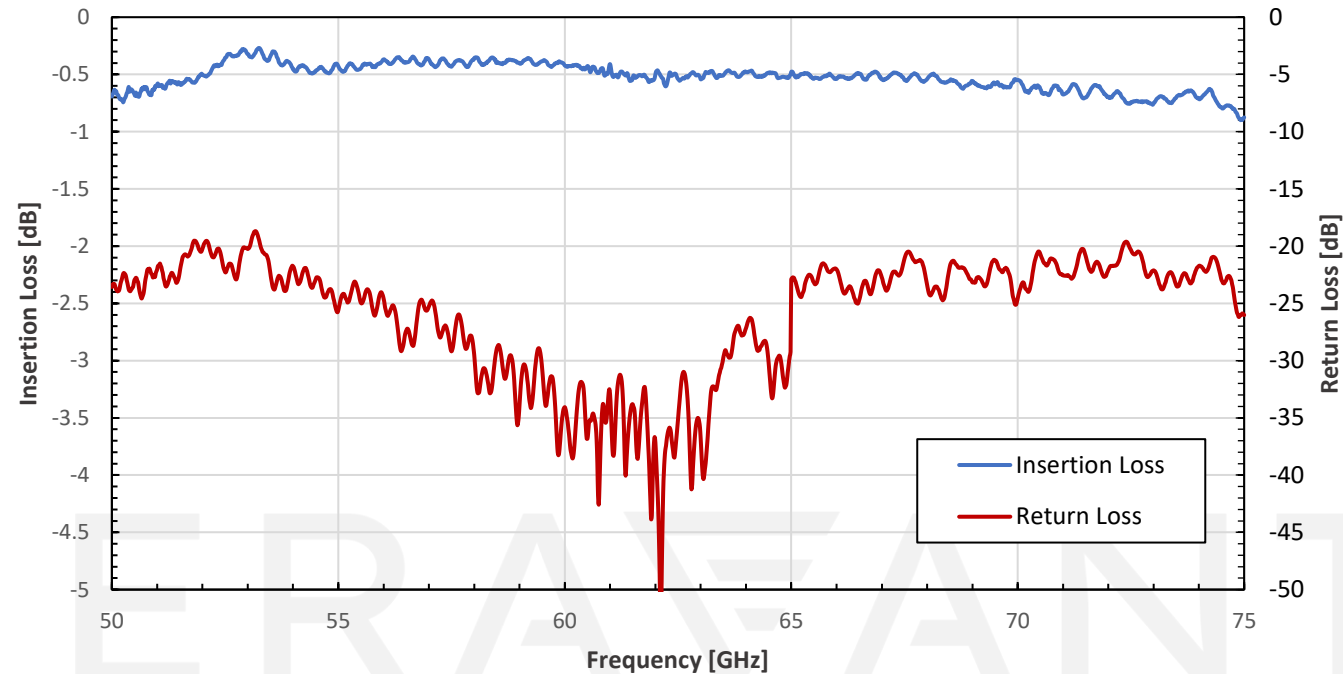- Instrumentation Grade
- DC Open Circuit

APPLICATIONS

- Test Lab
- Instrumentations
- Sub-assemblies

SUPPLEMENTAL DETAILS
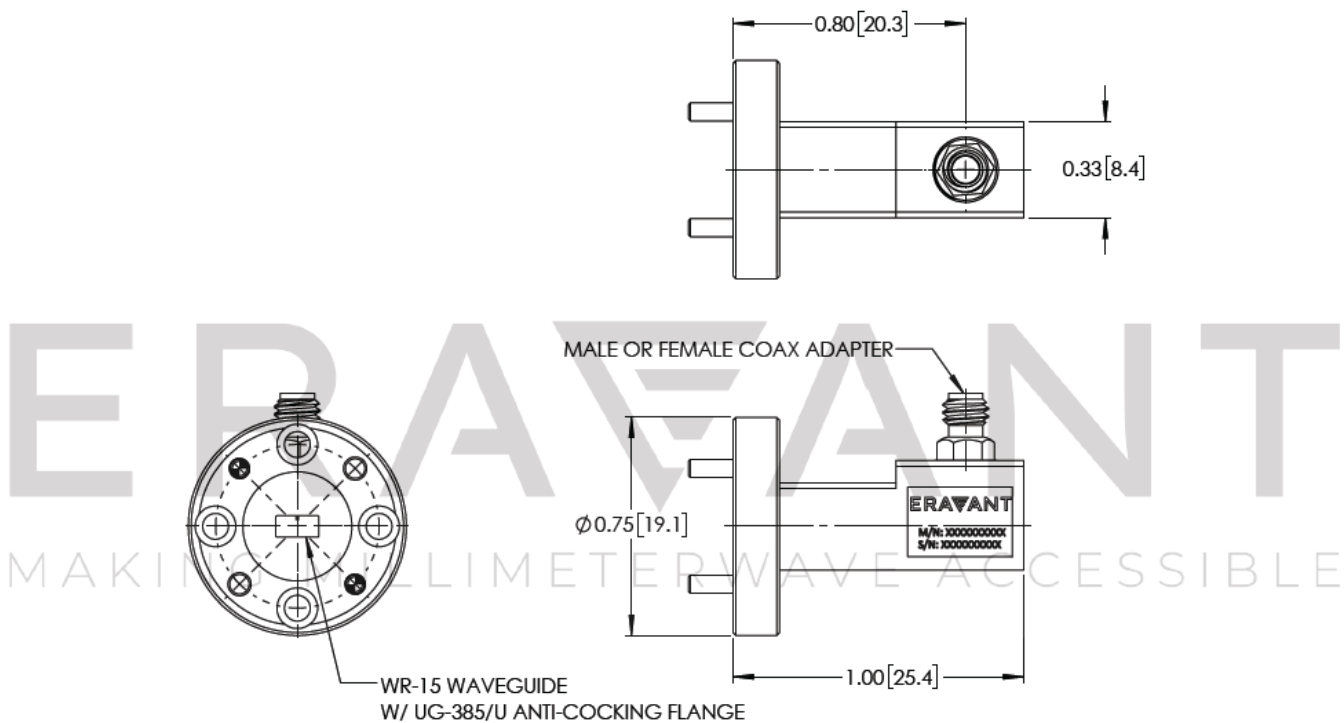
Mechanical Specifications:

Item	Specification
Waveguide Port	WR-15 Waveguide with UG-385/U Anti-Cocking Flange
Coax Port	1.0 mm (M)
Material	Aluminum
Finish	Gold Plated
Weight	0.4 Oz
Outline	WC-VR-A-1.0

MAKING MILLIMETERWAVE ACCESSIBLE

RoHS

Typical Measured Performance vs. Frequency

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

0.80 [20.3]
0.33 [8.4]

MALE OR FEMALE COAX ADAPTER

Ø0.75 [19.1]

1.00 [25.4]

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

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.