

## D-Band Waveguide to 0.8 mm Connector Adapter, Right Angle

**Models SWC-0608F-R1 and SWC-0608M-R1** are right angle (90°) D-Band waveguide to coax adapters that cover the frequency range of 110 to 173 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 0.8 mm coax connector.



# **Electrical Specifications:**

Parameter	Minimum	Typical	Maximum
Frequency Range	110 GHz		173 GHz*
Insertion Loss*		1.5 dB	
Return Loss		14 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

<sup>\*</sup>Electrical specifications are based on Ideal Matched Condition with male and female adapters tested back-to-back. Theoretical cutoff frequency for 0.8 mm connectors is approximately 166 GHz. Published industry standard operating range of 0.8 mm connectors is DC to 145 GHz.

# **Mechanical Specifications:**

Item	Specification		
Waveguide	WR-06 Waveguide with UG-387/U-M Anti-Cocking Flange		
Coaxial Port	0.8 mm Female for Model Number: SWC-0608F-R1		
Coaxial Port	0.8 mm Male for Model Number: SWC-0608M-R1		
Material	Aluminum		
Finish	Gold Plated		
Weight	0.3 Oz		
Outline	WC-DR-A		

## **ECCN**

EAR99

## **FEATURES**

- Broad Band Coverage
- Lower Insertion Loss and VSWR
- Instrumentation Grade
- DC Open Circuit

### **APPLICATIONS**

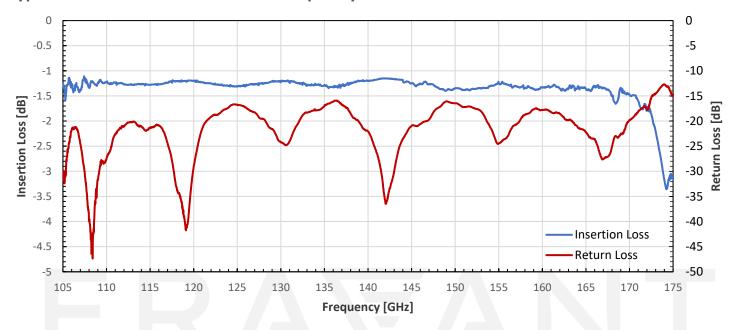
- Test Lab
- Instrumentations
- Sub-assemblies

### SUPPLEMENTAL DETAILS



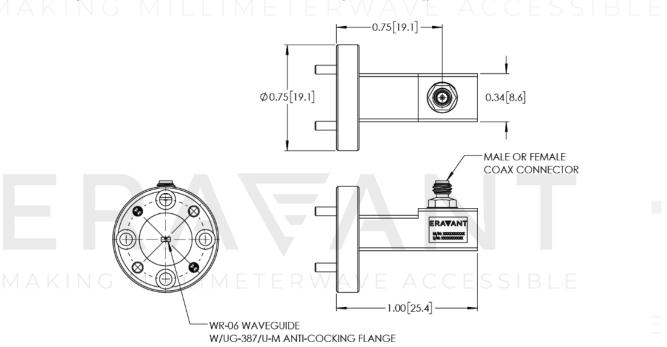
<sup>\*</sup>Insertion loss is tested back-to-back with male and female adapter, the result is divided by 2.

# **Typical Measured Performance vs. Frequency**



# **Mechanical Outline:**

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



# 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.
- On condition that simulated test data is provided, actual measured data may slightly vary.
- 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.
- Proper torque should be applied to prevent damage to the unit: 4.0 ± 0.15 inch-pounds (0.45 ± 0.02 Nm).

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