

SWC-192F-E1 and SWC-192M-E1

U-Band Waveguide to 2.4 mm Connector Adapter, End Launch

SWC-192F-E1 and **SWC-192M-E1** are end launch (180°) U-Band waveguide to coax adapters that cover the frequency range of 40 to 50 GHz. The adapters 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 2.4 mm coax connector. The right angle (90°) versions are offered under model numbers SWC-192F-R1 and SWC-192M-R1.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range*	40 GHz		50 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	-40°C		+85°C

*Operating frequency is limited by the 2.4 mm connector. Actual bandwidth may be wider.

*Insertion Loss is tested back-to-back with a male and female adapter; the result is divided by 2.

Mechanical Specifications:

Item	Specification
RF Ports	WR-19 Waveguide with UG-383/U-M Anti-Cocking Flange
Coaxial	2.4 mm Female for Model Number: SWC-192F-E1
	2.4 mm Male for Model Number: SWC-192M-E1
Housing Material	Aluminum
Finish	Gold Plated
Weight	0.4 Oz
Outline	WC-UE-A-2

ECCN

EAR99

FEATURES

- Broad Band Coverage
- Lower Insertion Loss
- Instrumentation Grade
- DC Short Circuit

APPLICATIONS

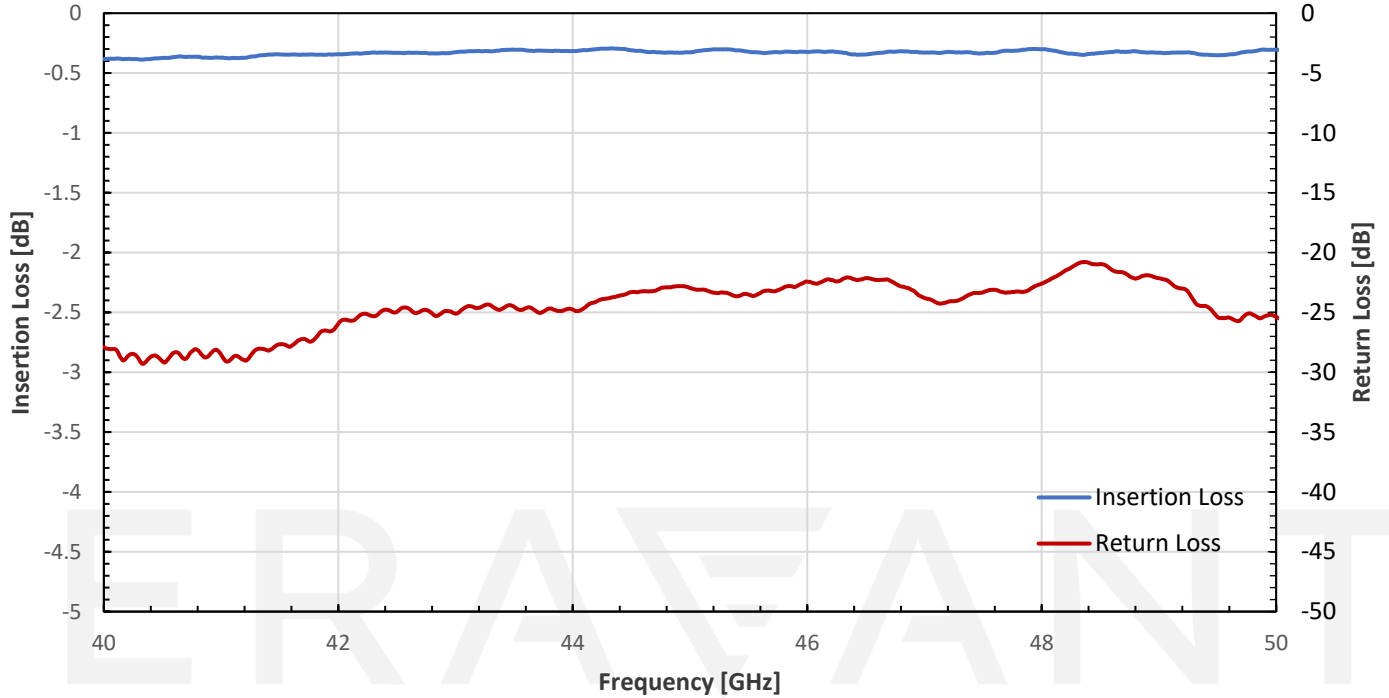
- Test Lab
- Instrumentations
- Sub-assemblies

SUPPLEMENTAL DETAILS



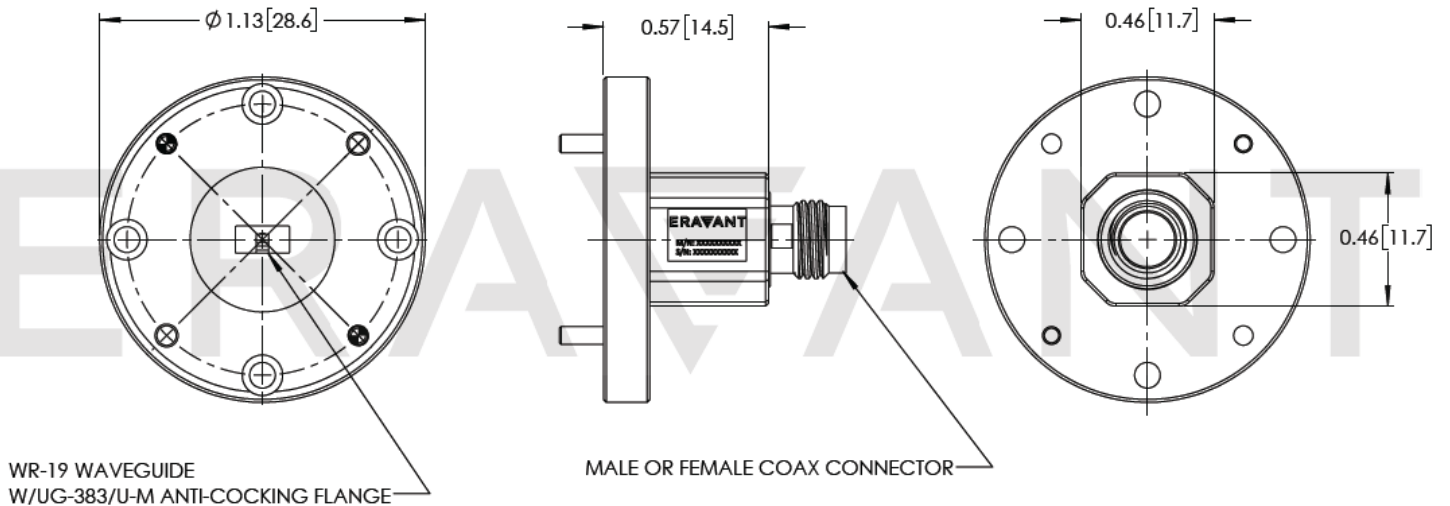
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Typical Measured Performance vs. Frequency



Mechanical Outline:

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



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NOTE:

- 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.
- Other mechanical configurations are available under different model numbers.

CAUTION:

- Any foreign objects in the waveguide will cause performance degradation and may damage the adapter.
- 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.

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