SWC-34KF-E1 and SWC-34KM-E1

Rev 1.2

WR-34 Waveguide to K Connector Adapter, End Launch

Description:

Models SWC-34KF-E1 and SWC-34KM-E1 are end launch (180°) WR-34 waveguide to coax adapters that cover the frequency range of 22 to 33 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 2.92 mm (K) coax connector. The right angle (90°) versions are offered under model numbers **SWC-34KF-R1** and **SWC-34KM-R1**.

Features:

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

Applications:

- Test Lab
- Instrumentations
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Frequency Range	22 GHz		33 GHz
Insertion Loss		0.35 dB	0.5 dB
Return Loss	17 dB	20 dB	
Power Handling			50 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

Mechanical Specifications:

Item	Parameter
Waveguide Port	WR-34 with UG-1530/U Anti-Cocking Flange
Coaxial Port	2.92 mm Female for Model Number: SWC-34KF-E1
	2.92 mm Male for Model Number: SWC-34KM-E1
Material	Aluminum
Finish	Gold Plated
Weight	0.5 Oz
Outline	WC-3E

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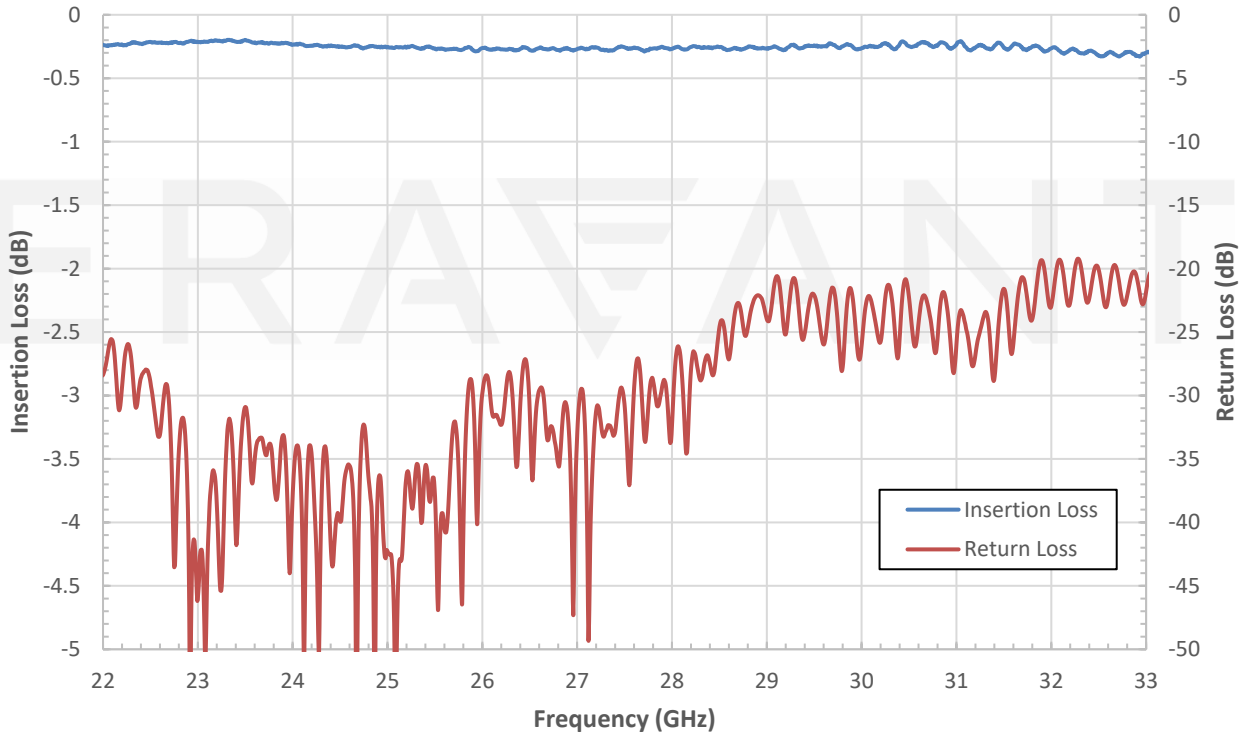
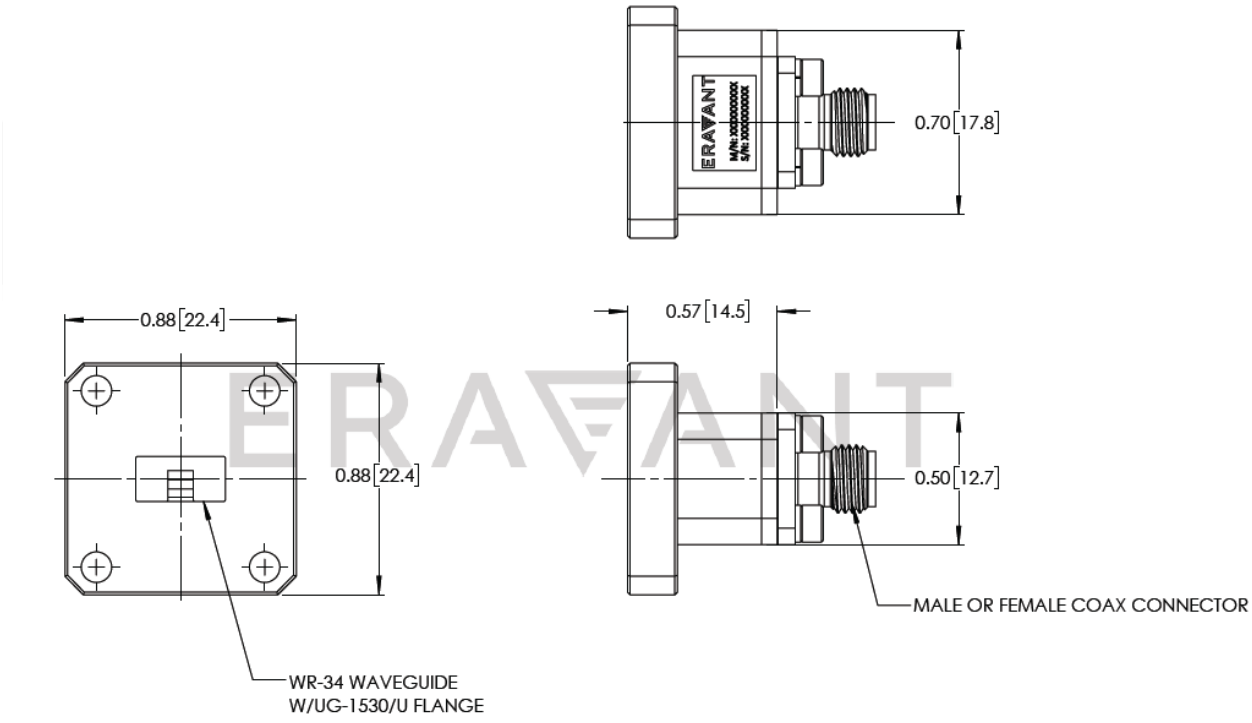
Typical Measured Performance vs Frequency



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.

Caution:

- Any foreign objects in the waveguide will cause performance degradation and may damage the adapter.
- Proper torque, 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm), should be applied. **Eravant**
- **torque wrench, model SCH-08008-S1, is highly recommended.**

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