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SWC-28KF-E1-ML and SWC-28KM-E1-ML

Ka-Band Waveguide to Coax Adapter, End Launch

SWC-28KF-E1-ML and SWC-28KM-E1-ML is a military grade end launch (180°) Ka-Band waveguide to coax adapter that cover the frequency range of 26.5 to 40 GHz. It is designed and manufactured for military 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.

Electrical Specifications:

Parameter	Minimum	Typical	Maximum	
Frequency Range	26.5 GHz		40 GHz	
Insertion Loss		0.35 dB	0.50 dB	
Return Loss	17 dB	20 dB		
Power Handling			50 W (CW)	
Specification Temperature		+25°C		
Operating Temperature	-55°C		+85°C	
Non-Condensing Relative Humidity		85% to 95%		

Mechanical Specifications:

Item	Specification		
Waveguide	WR-28 with UG-599/U Flange		
Coaxial Connector	2.92 mm (K) Female for Model Number: SWC-28KF-E1-ML		
	2.92 mm (M) Male for Model Number: SWC-28KM-E1-ML		
Size (Excluding Coax Connector)	0.49" (L) x 0.75" (S)		
Material	Aluminum		
Finish	Chem Film with Gray Paint		
Weight	0.3 Oz		
Outline	WC-AE-ML		

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FEATURES

- Full Waveguide Band Coverage
- Lower Insertion and VSWR
- Military Grade
- DC Short Circuit

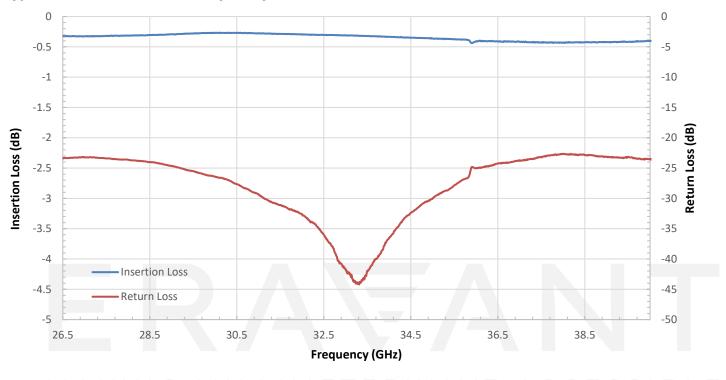
APPLICATIONS

- Test Labs
- Instrumentations
- Communication Systems

SUPPLEMENTAL DETAILS

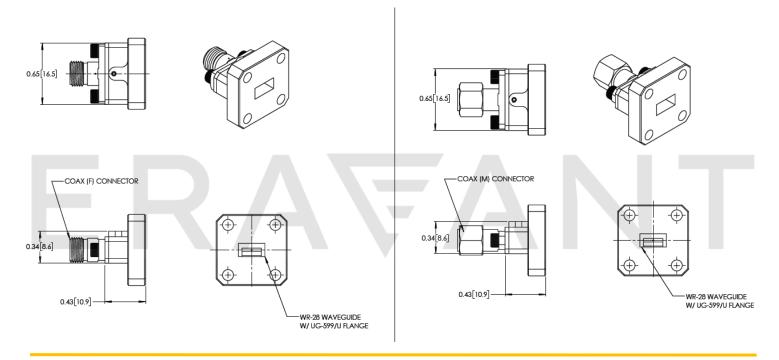


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Typical Performance vs. Frequency

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



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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:

- 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 <u>SCH-08008-S1</u> is highly recommended.

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