



## Coaxial Lowpass Filter, Passband DC to 30 GHz, Rejection 50 to 75 GHz

### Description:

**Model SCF-30350330-KFKM-L1** is a coaxial lowpass filter with a passband from DC to 30 GHz. The typical insertion loss of the passband is 1.0 dB. The rejection band is from 50 to 75 GHz with a typical rejection value of 30 dB. The RF connectors of the filter are K(F) and K(M) connectors. The passband typical return loss is 15 dB. **This particular model is recommended for use with SAGE Millimeter's SFB-15-N1/SFB-15-E2 and SFU-15-N1/SFU-15-E2 E-band balanced mixers and upconverters in order to reduce LO to IF leakage.** Other configurations, such as different connectors for input and output are available under different model numbers.



### Features:

- Broad Passband
- Low Insertion Loss
- Compact Design

### Applications:

- Test Labs
- Instrumentations
- Sub-assemblies

### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Passband Frequency	DC		30 GHz
Passband Insertion Loss		1.0 dB	
Rejection Frequency	50 GHz		75 GHz
Rejection Value		30 dB	
Passband Return Loss		15 dB	
Impedance		50 Ω	
Power Handling			1 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+75 °C

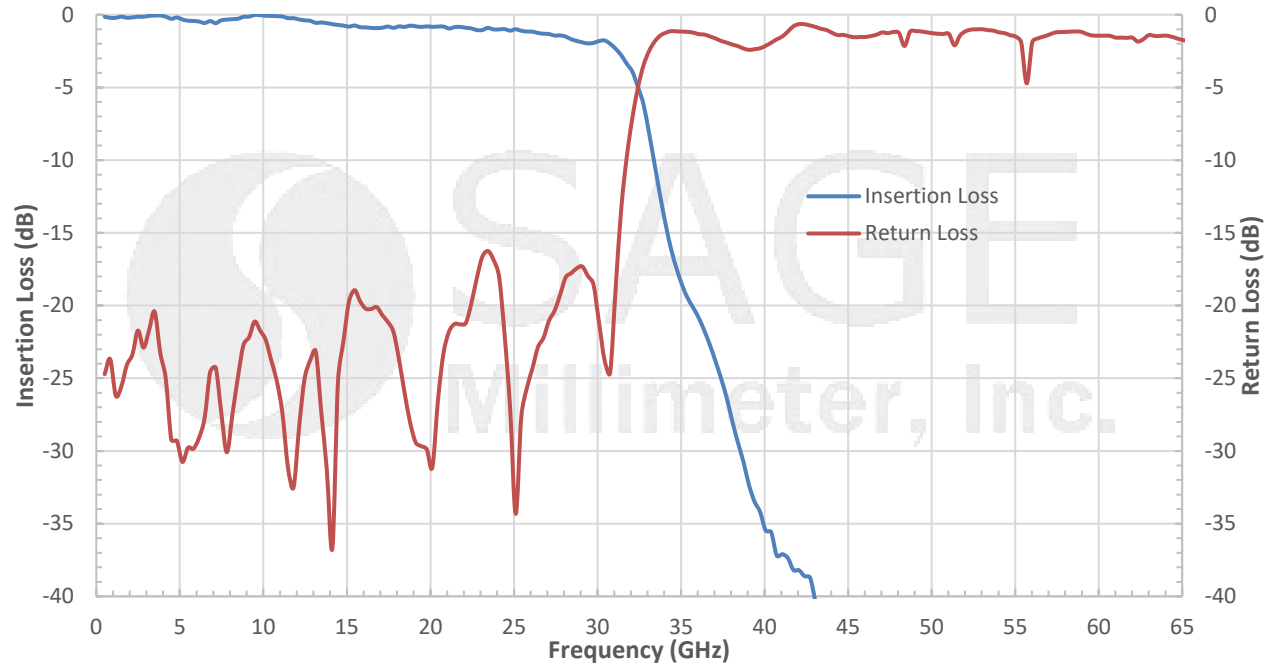
### Mechanical Specifications:

Item	Specifications
RF Ports	K(F) and K(M)
Case Material	Aluminum
Weight	0.5 Oz
Finishing	Gold Plated
Size	0.50" (L) x 0.50" (W) x 0.50" (H)
Outline	CF-LVE

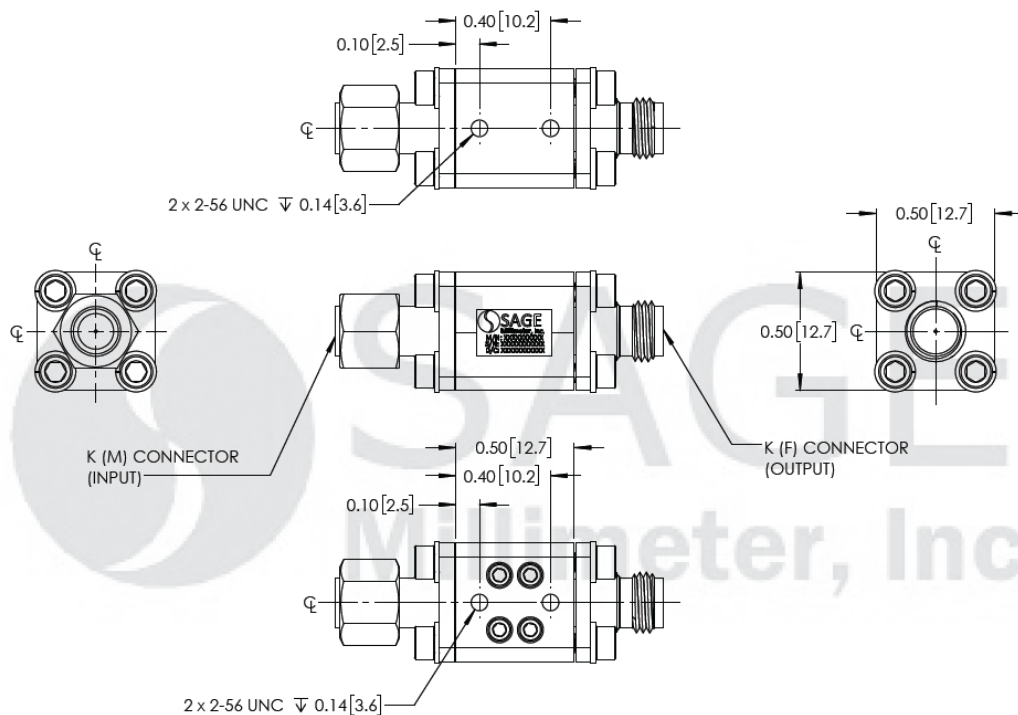


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Typical Insertion and Return Loss vs Frequency



**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.
- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.

### Caution:

- Proper torque,  $8.0 \pm 0.15$  inch-pounds ( $0.90 \pm 0.02$  Nm), should be applied. **SAGE Millimeter torque wrench, model SCH-08008-S1, is highly recommended.**

