



## Coaxial Lowpass Filter, DC to 33 GHz

### Description:

**SCF-33337325-KFKM-L3** is a coaxial lowpass filter to pass the frequency of DC to 33 GHz. The maximum insertion loss of the bandpass filter is 2.5 dB and passband ripple is  $\pm 0.5$  dB. The rejection band is from 37 to 50 GHz and rejection value is 25 dB typical. The RF connectors of the the filter are K(M) and K(F) connectors. The passband return loss of the filter is 10 dB typical. Other configuration, such as different connectors for input and output are available under different model numbers.



### Features:

- Broad Passband
- Low Insertion Loss

### Applications:

- Test Labs
- Instrumentations
- Sub-assemblies

### Electrical Specifications:

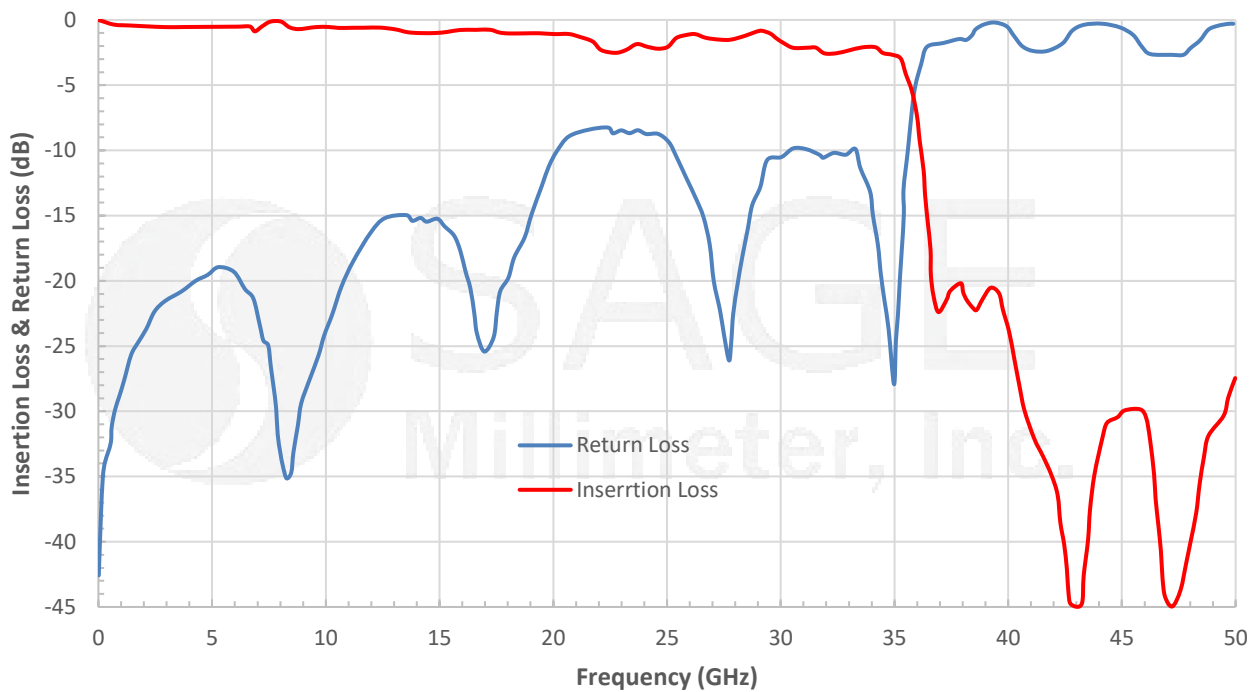
Parameter	Minimum	Typical	Maximum
Passband Frequency	DC		33 GHz
Passband Insertion Loss		2.0 dB	2.5 dB
Rejection Frequency	37 GHz		50 GHz
Rejection Value	20 dB	25 dB	
Passband Return Loss		10 dB	
Impedance		50 $\Omega$	
Power Handling			10 W (CW)
Specification Temperature		+25 $^{\circ}$ C	
Operating Temperature	-40 $^{\circ}$ C		+85 $^{\circ}$ C

### Mechanical Specifications:

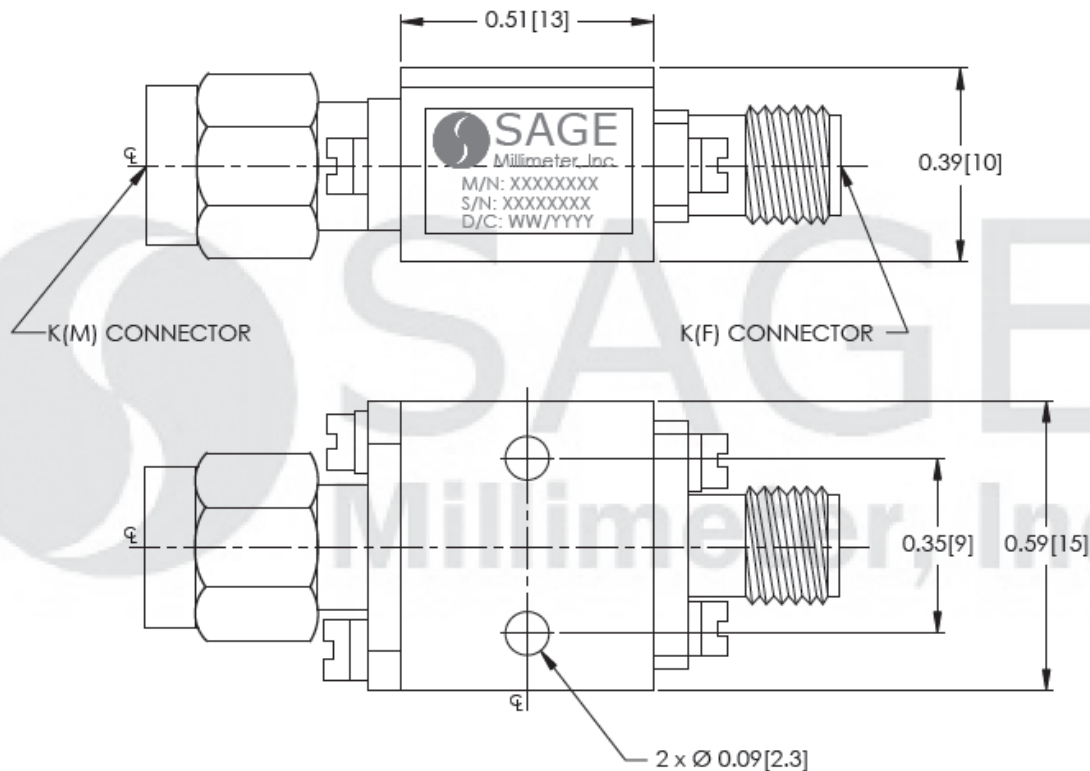
Item	Specifications
RF Ports	K(F) and K(M)
Case Material	Aluminum
Finishing	Gold Plated
Weight	0.5 Oz
Size	0.5" (L) x 0.5" (W) x 0.5" (H)
Outline	CF-LA-LJ1

## Coaxial Lowpass Filter, DC to 33 GHz

### Typical Performance vs. Frequency



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



www.sagemillimeter.com | 3043 Kashiwa Street, Torrance, CA 90505  
 Phone: 424-757-0168 | Fax: 424-757-0188 | Email: sales@sagemillimeter.com

## Coaxial Lowpass Filter, DC to 33 GHz

### Note:

- All data presented is collected from a sample lot. Actual data may vary unit to unit.
- 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-U3, is highly recommended.**

