



## Coaxial High-pass Filter, Passband 30 GHz and Higher

### Description:

**SCF-30328330-2F2F-H3** is a coaxial high-pass filter to pass the frequency of 30 to 50 GHz. The typical insertion loss of the high-pass filter is 2.5 dB and passband ripple is  $\pm 0.5$  dB. The rejection frequencies are 28 GHz or less and the typical rejection is 30 dB. The RF connectors of the the filter are 2.4 mm female connectors. The typical passband return loss of the filter is 10 dB.



### Features:

- Low Insertion Loss
- Step Rejection Skirts

### Applications:

- Instrumentations
- Sub-assemblies

### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Passband Frequency	30 GHz		50 GHz
Passband Insertion Loss		2.5 dB	3.0 dB
Rejection Frequency	DC		28 GHz
Rejection Value		30 dB	
Passband Return Loss		10 dB	
Impedance		50 $\Omega$	
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+75 °C

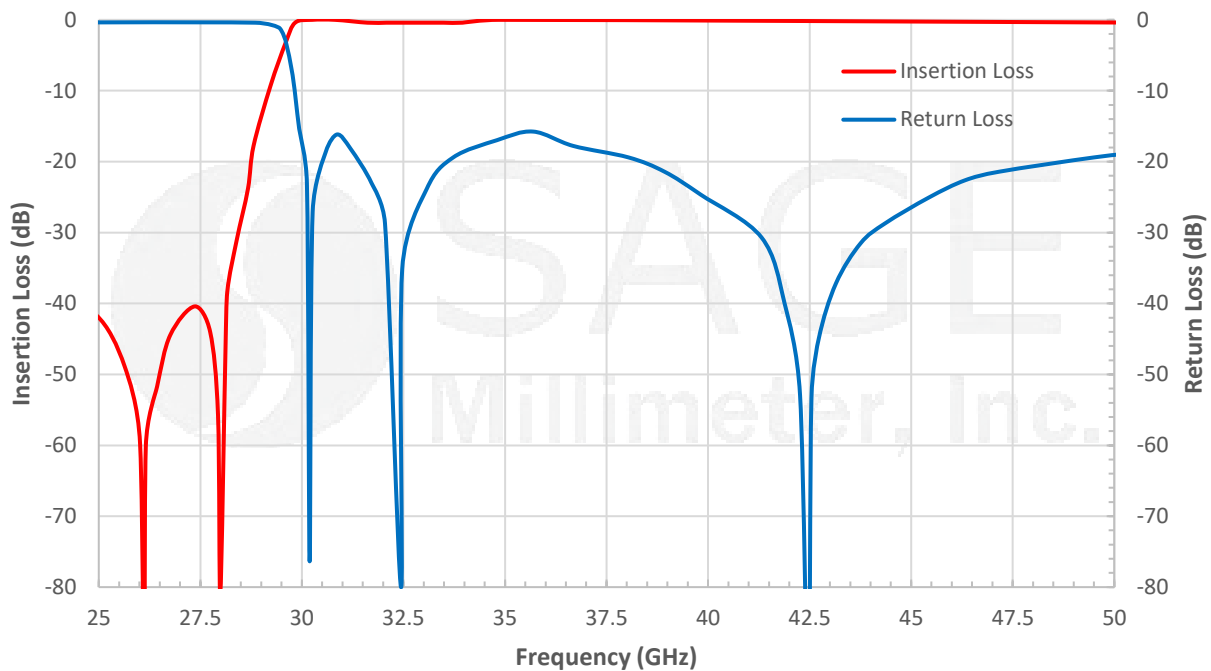
### Mechanical Specifications:

Item	Specifications
RF Ports	2.4 mm Female
Case Material	Aluminum
Finishing	Black Paint
Size	0.52" (L) x 0.50" (W) x 0.47" (H)
Outline	CF-HA-LJ1

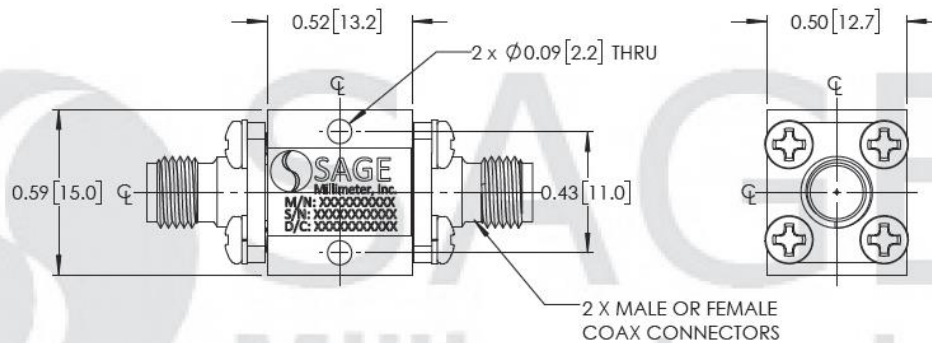


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### Typical Performance vs. Frequency



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



#### 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-U3, is highly recommended.**

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