



WR-22 Coaxial Highpass Filter, 27 to 50 GHz Passband, 40 dB Rejection

Description:

Model **SCF-27324340-222F2F-H1** is a coaxial highpass filter with a passband frequency from 27 to 50 GHz. The filter rejects frequencies from DC to 24 GHz and provides a nominal insertion loss of 0.8 dB in its passband with low ripple. Typical rejection for this model is 40 dB. The RF ports offer female 2.4 mm connectors. However, the models with other connector type, such as male connector, are also available under different model numbers.



Features:

- Low Cost
- Low Insertion Loss
- High Rejection
- DC Short Circuit

Applications:

- Communication Systems
- Radar Systems
- Sub-assemblies

Electrical Specifications:

| Parameter | Minimum | Typical | Maximum |
|---------------------------|---------|---------|-----------|
| Passband Frequency | 27 GHz | | 50 GHz |
| Passband Insertion Loss | | 0.8 dB | |
| Rejection Frequency | DC | | 24 GHz |
| Rejection | | 40 dB | |
| Passband Return Loss | | 14 dB | |
| Impedance | | 50 Ω | |
| Power Handling | | | 40 W (CW) |
| Specification Temperature | | +25 °C | |
| Operating Temperature | -40 °C | | +85 °C |

Mechanical Specifications:

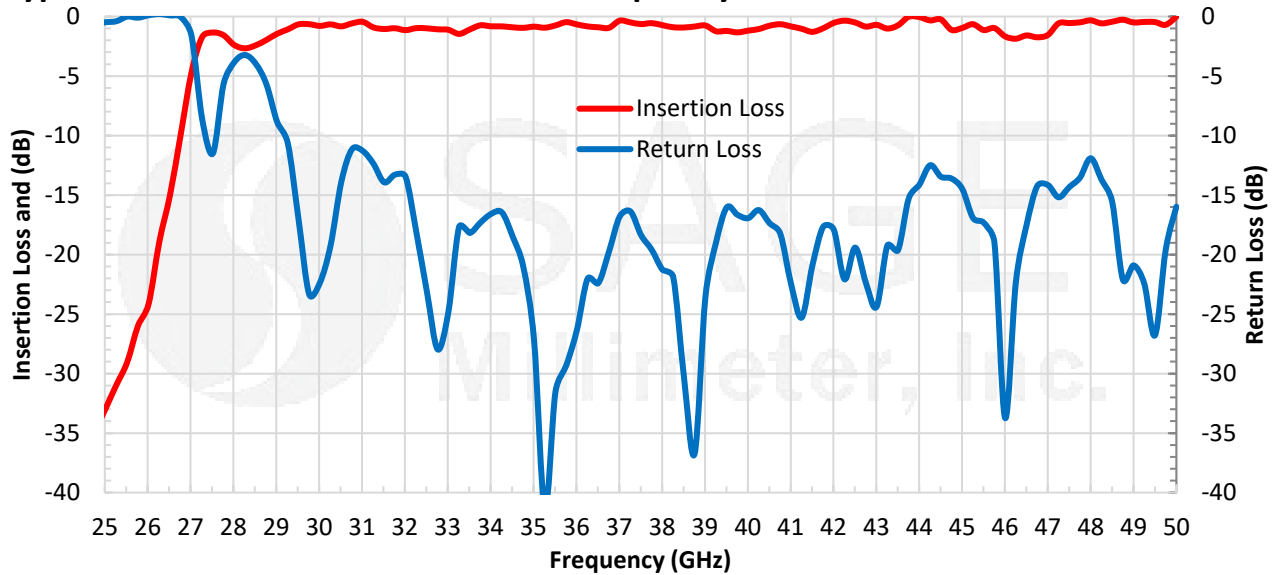
| Item | Specifications |
|----------|--|
| RF Ports | 2.4 mm (F) or 2.4 mm (M) |
| Material | Aluminum |
| Finish | Gold Plated |
| Weight | 0.83 oz |
| Size | 1.75" (L) x 1.13" (Ø) for SCF-27324340-222F2F-H1 |
| Size | 2.09" (L) x 1.13" (Ø) for SCF-27324340-222M2M-H1 |
| Outline | CF-HQ-B |



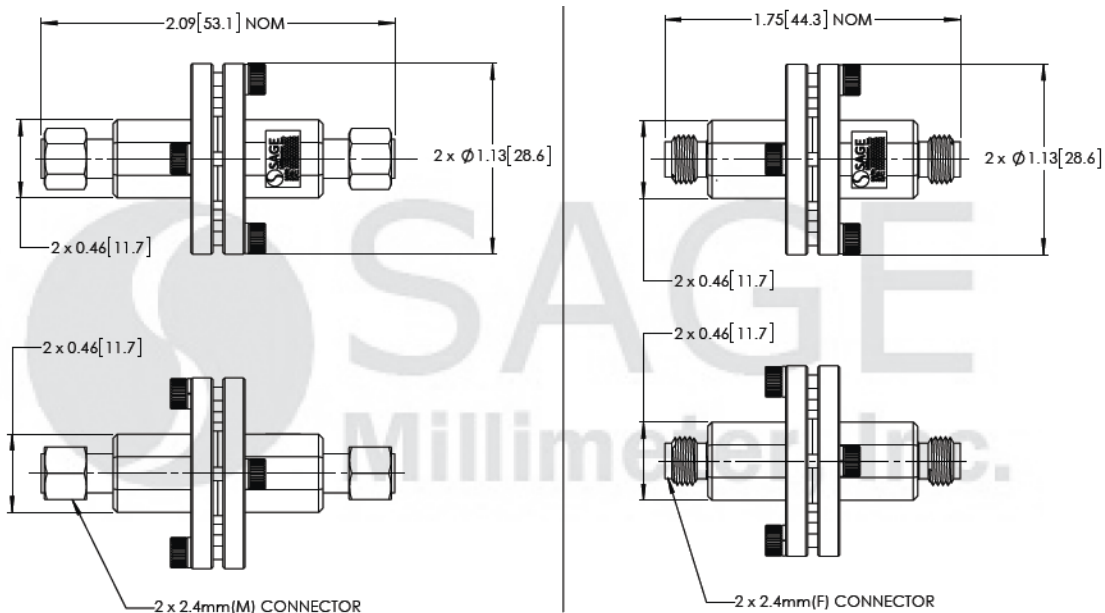


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Typical Insertion and Return Loss vs. Frequency



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.
- 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 ± 0.15 inch-pounds (0.90 ± 0.02 Nm), should be used. **SAGE Millimeter torque wrench, model SCH-8008-U3, is highly recommended.**

