# SCF-24201250-SFSF-NA

## Coaxial Band Stop Filter, 2.3 to 2.4 GHz, 50 dB Rejection

**SCF-24201250-SFSF-NA** is a coaxial band stop filter with passband frequencies from DC to 2.15 GHz and 2.55 to 18 GHz and a rejection frequency from 2.3 to 2.4 GHz. The filter provide a typical insertion loss of 2.5 dB across its passband and a rejection of 50 dB at this rejection band. The typical passband return loss of the filter is 12 dB. The RF connectors of the filter are SMA Female connectors. The rejection frequency is customizable and other configurations are available under different model numbers.


### Electrical Specifications:

| Parameter | Minimum | Typical | Maximum |
|---|---|---|---|
| Passband Frequency, Low Side | DC | | 2.15 GHz |
| Passband Frequency, High Side | 2.55 GHz | | 18 GHz |
| Passband Insertion Loss | | 2.5 dB | |
| Rejection Frequency* | 2.3 GHz | | 2.4 GHz |
| Rejection, Low Side | | 50 dB | |
| Passband Return Loss | | 12 dB | |
| Impedance | | 50 Ω | |
| Power Handling | | | 30 W (CW) |
| Specification Temperature | | +25 °C | |
| Operating Temperature | -40 °C | | +85 °C |

*Note: The Rejection Frequency is customizable.

### Mechanical Specifications:

| Item | Specification |
|---|---|
| RF Port 1 | SMA Female |
| RF Port 2 | SMA Female |
| Material | Aluminum |
| Finish | Black Paint |
| Length | 4.72” (L) x 1.18” (W) x 0.47” (H) |
| Outline | CF-N340-JX1 |

**ECCN**

EAR99

**FEATURES**

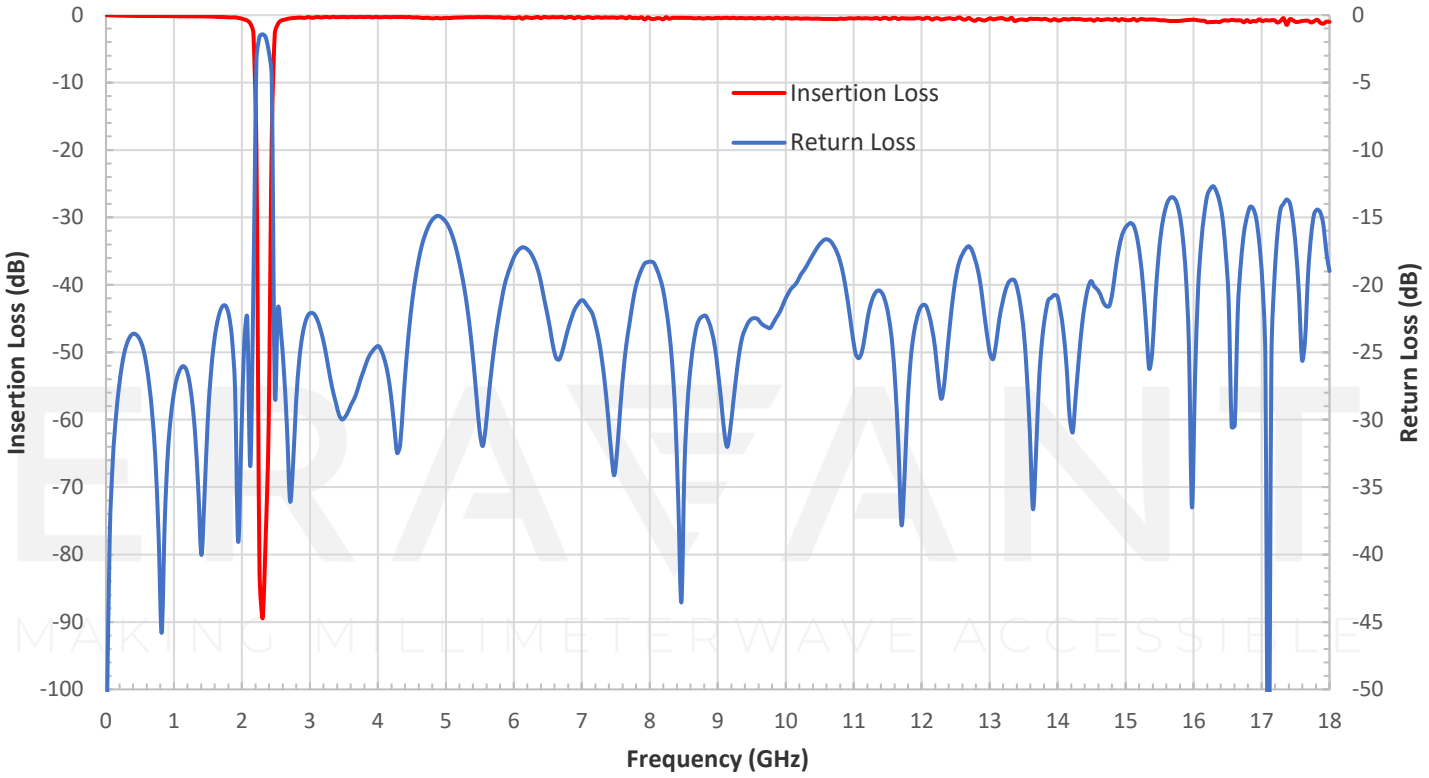
- Notch at 2.35 GHz
- High Rejection
- Narrow Notch Bandwidth
- Other Frequency Available

**APPLICATIONS**

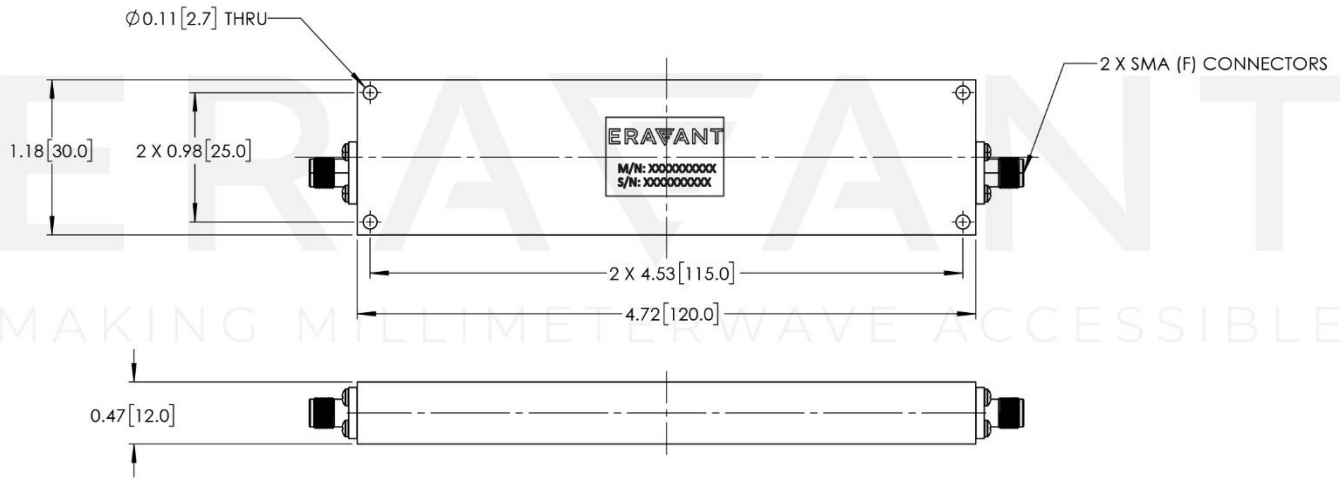
- Radar
- Communication
- 5G Systems

**SUPPLEMENTAL DETAILS**

## 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 slightly from unit to unit.
- All testing is performed under +25 °C case temperature.
- Eravant reserves the right to change the information presented without notice.

**CAUTION:**

- Exceeding absolute maximum ratings shown will damage the device.
- Proper torque should be applied: 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm). Torque wrench model SCH-08008-S1 is highly recommended.



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