

SCF-23304340-SMSM-BA

Coaxial Bandpass Filter, 20.5 to 24.5 GHz, 40 dB Rejection

SCF-23304340-SMSM-BA is a coaxial bandpass filter with a passband frequency of 20.5 to 24.5 GHz. The typical insertion loss of the bandpass filter is 3.0 dB and the passband ripple is ± 0.75 dB. The rejection frequencies are 19 GHz or lower and 24.5 to 30 GHz. The typical rejection is 40 dB and the typical passband return loss of the filter is 10 dB. The RF connectors of the filter are SMA Male connectors. Other configurations are available under different model numbers.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Passband Frequency	20.5 GHz		24.5 GHz
Passband Insertion Loss		3.0 dB	
Passband Ripple		± 0.75 dB	± 1.0 dB
Rejection Frequency, Low Side	DC		19 GHz
Rejection, Low Side		40 dB	
Rejection Frequency, High Side	24.75 GHz		30 GHz
Rejection, High Side		40 dB	
Passband Return Loss		10 dB	
Impedance		50 Ω	
Power Handling			1 W (CW)
Specification Temperature		+25 $^{\circ}\text{C}$	
Operating Temperature	-30 $^{\circ}\text{C}$		+85 $^{\circ}\text{C}$

Mechanical Specifications:

Item	Specification
RF Port 1	SMA Male
RF Port 2	SMA Male
Material	Aluminum
Finish	Black Paint
Size	3.51" (L) x 0.67" (W) x 0.31" (H), excluding connectors
Outline	CF-BK-JX2

ECCN

EAR99

FEATURES

- Low Insertion Loss
- High Rejection
- Steep Rejection Skirts
- Field Replaceable RF Connectors

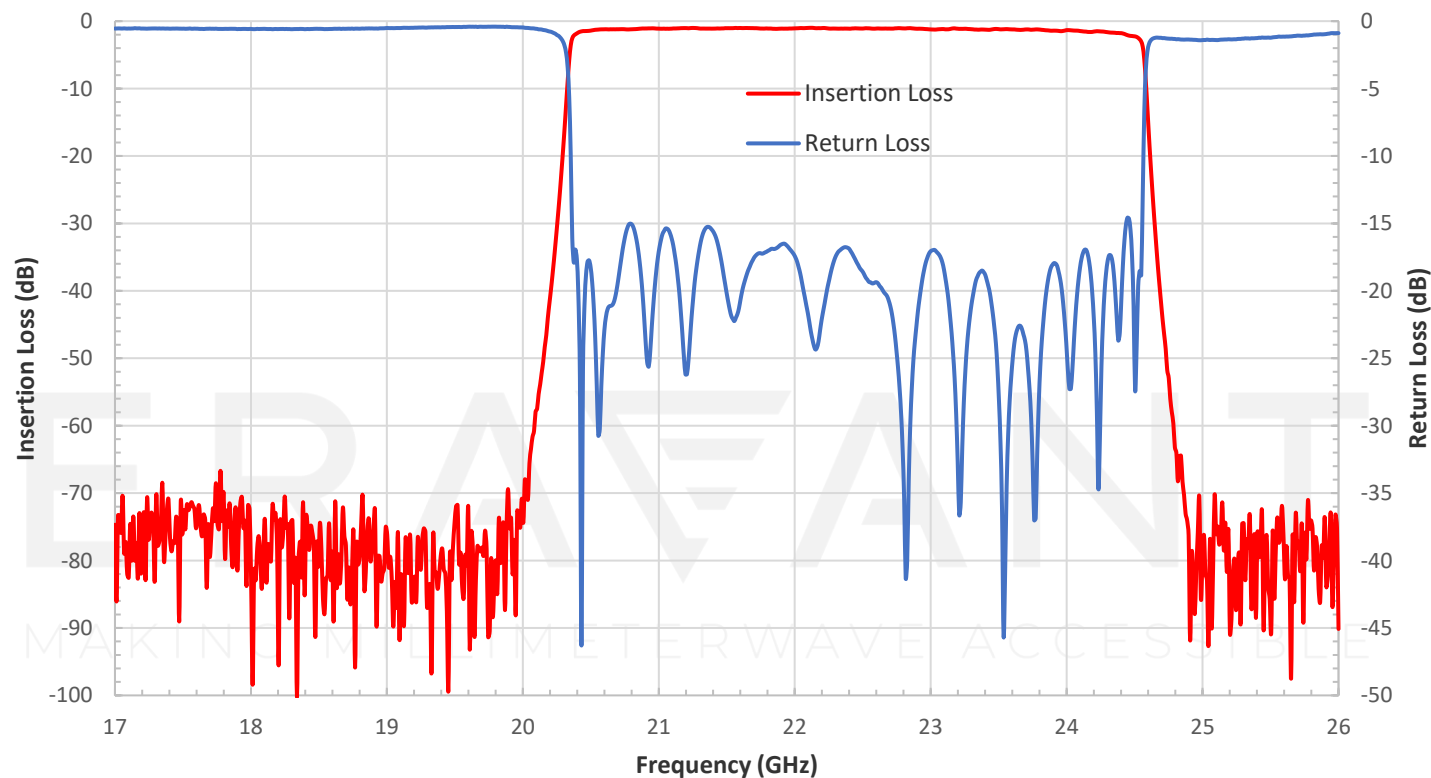
APPLICATIONS

- Instrumentations
- Sub-assemblies
- System Integrations

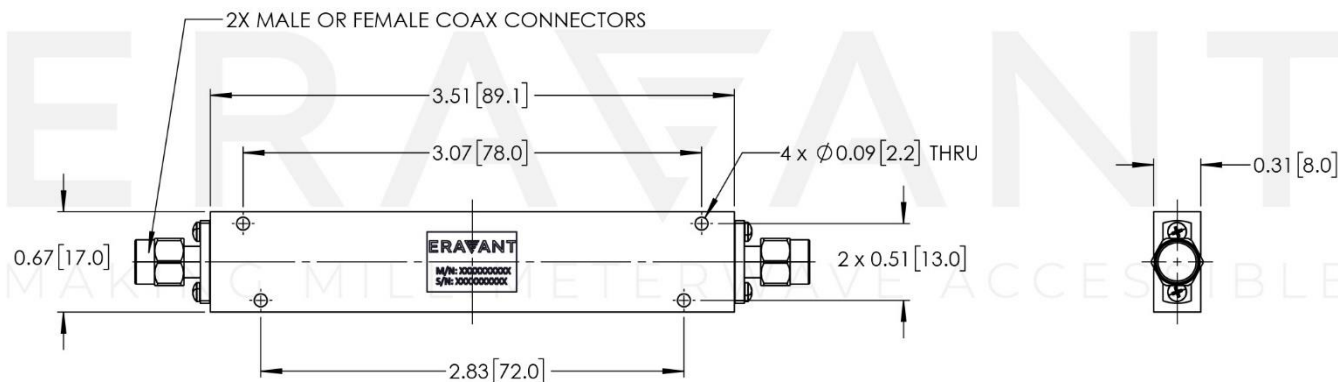
SUPPLEMENTAL DETAILS



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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