SCF-18317330-KFKF-HA

Coaxial High-pass Filter, Passband 17.9 GHz and Higher

SCF-18317330-KFKF-HA is a coaxial high-pass filter to pass the frequency of 17.9 to 40 GHz. The maximum insertion loss of the high-pass filter is 2.5 dB. The rejection frequencies are 17 GHz or less and the minimum rejection is 30 dB. The RF connectors of the filter are 2.92mm Female. The typical passband return loss of the filter is 11.7 dB.

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Passband Frequency	17.9 GHz		40 GHz
Insertion Loss @17.9 - 18 GHz			2.5 dB
Insertion Loss @18 – 19.5 GHz			2.0 dB
Insertion Loss @19.5 - 40 GHz			1.0 dB
Rejection Frequency	DC		17 GHz
Rejection @ DC-16.2 GHz	60 dB		
Rejection @ 16.2-17 GHz	30 dB		
Passband Return Loss		11.7 dB	
Impedance		50 Ω	
Power Handling			10 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-10 °C		+70 °C

Mechanical Specifications:

Item	Specification
RF Port 1	2.92 mm Female, Removable
RF Port 2	2.92 mm Female, Removable
Material	Aluminum
Finish	Black Paint
Length	0.91” (L) x 0.63” (W) x 0.39” (H), excluding connectors
Outline	CF-HKA-JX1

ECCN

EAR99

FEATURES

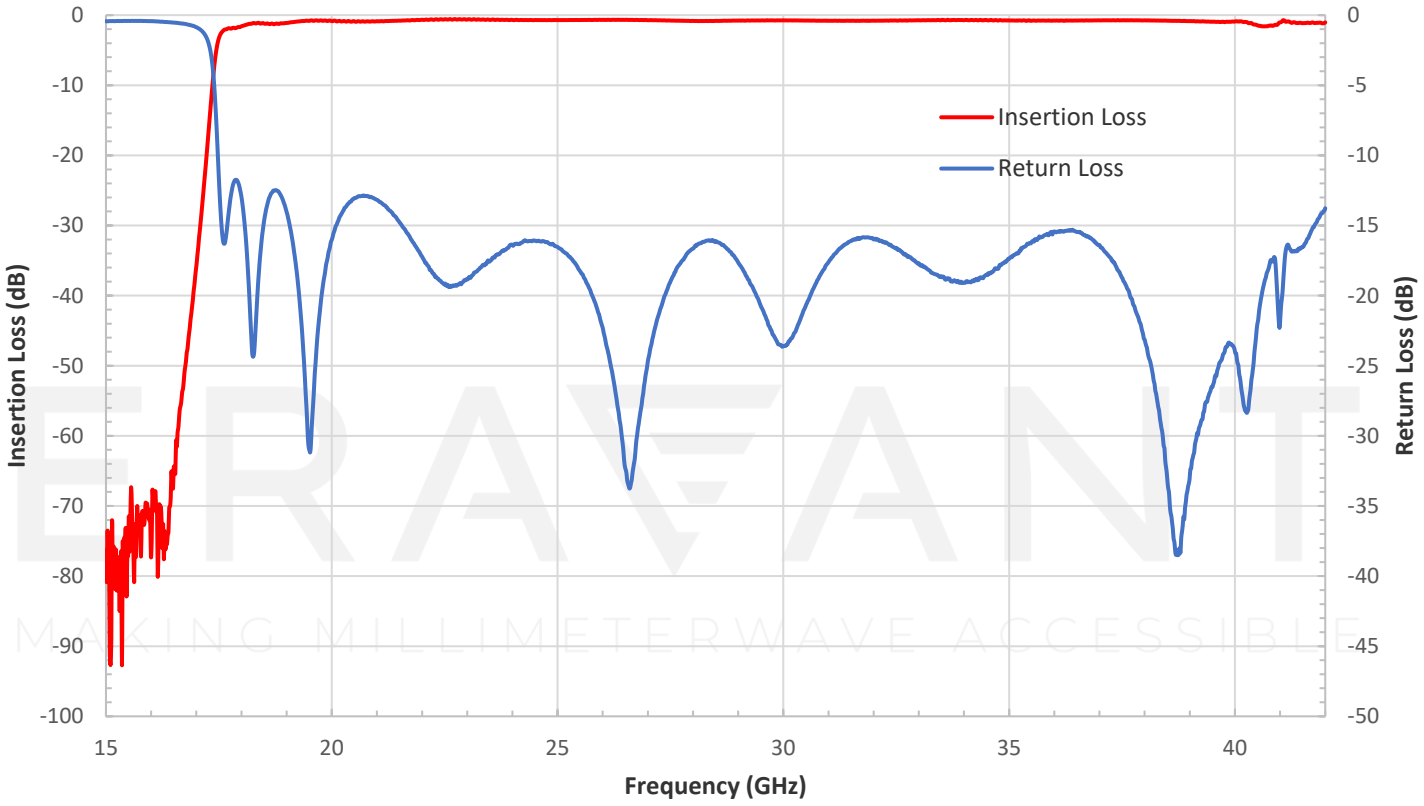
- Low Insertion Loss
- High Rejection
- Steep Rejection Skirts

APPLICATIONS

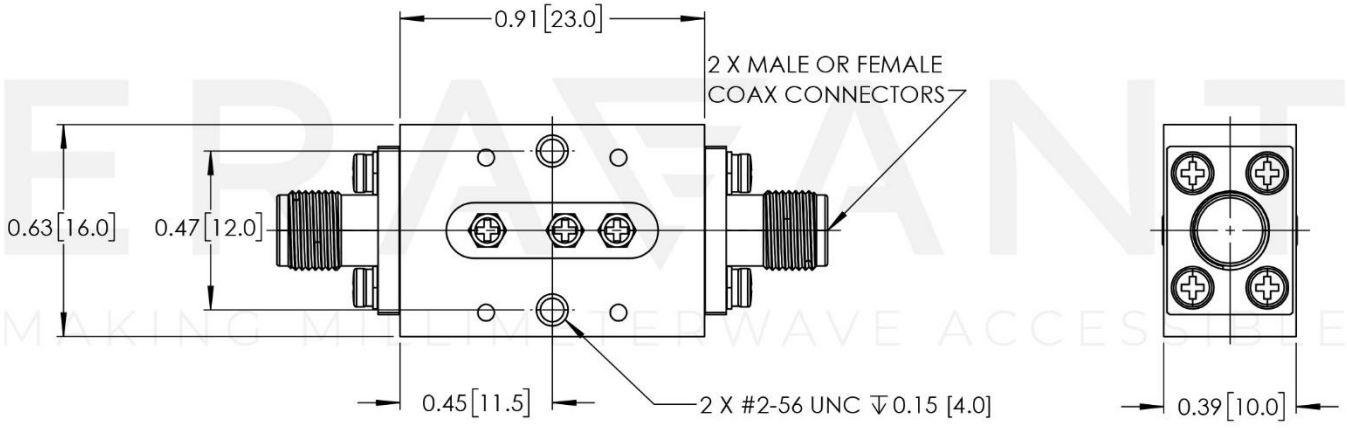
- Instrumentations
- Sub-assemblies
- System Integrations

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.

ERAVANT
MAKING MILLIMETERWAVE ACCESSIBLE