



Waveguide Bandpass Filter, Ka Band, 37.4 to 39.6 GHz

Description:

Model SWF-39302360-KFKF-B1 is a Ka band waveguide bandpass filter with two female K connectors, a passband frequency of 37.4 to 39.6 GHz, and rejection frequencies from DC to 36 GHz and 41 to 50 GHz. The nominal insertion loss of the bandpass filter is 2.0 dB and the minimum rejection is 60 dB. Since both low end and high end cut off frequencies can be selected by modifying the design, custom designs are available under different model numbers.



Features:

- Low Cost
- Low Insertion Loss
- High Rejection

Applications:

- 5G Systems
- Communication Systems
- Radar Systems
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Passband Frequency	37.4 GHz		39.6 GHz
Passband Insertion Loss		2.0 dB	
Passband Ripple		±0.2 dB	
Rejection Frequency, Low Side	DC		36 GHz
Rejection Frequency, High Side	41 GHz		50 GHz
Rejection		60 dB	
Passband Return Loss		14 dB	
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

Mechanical Specifications:

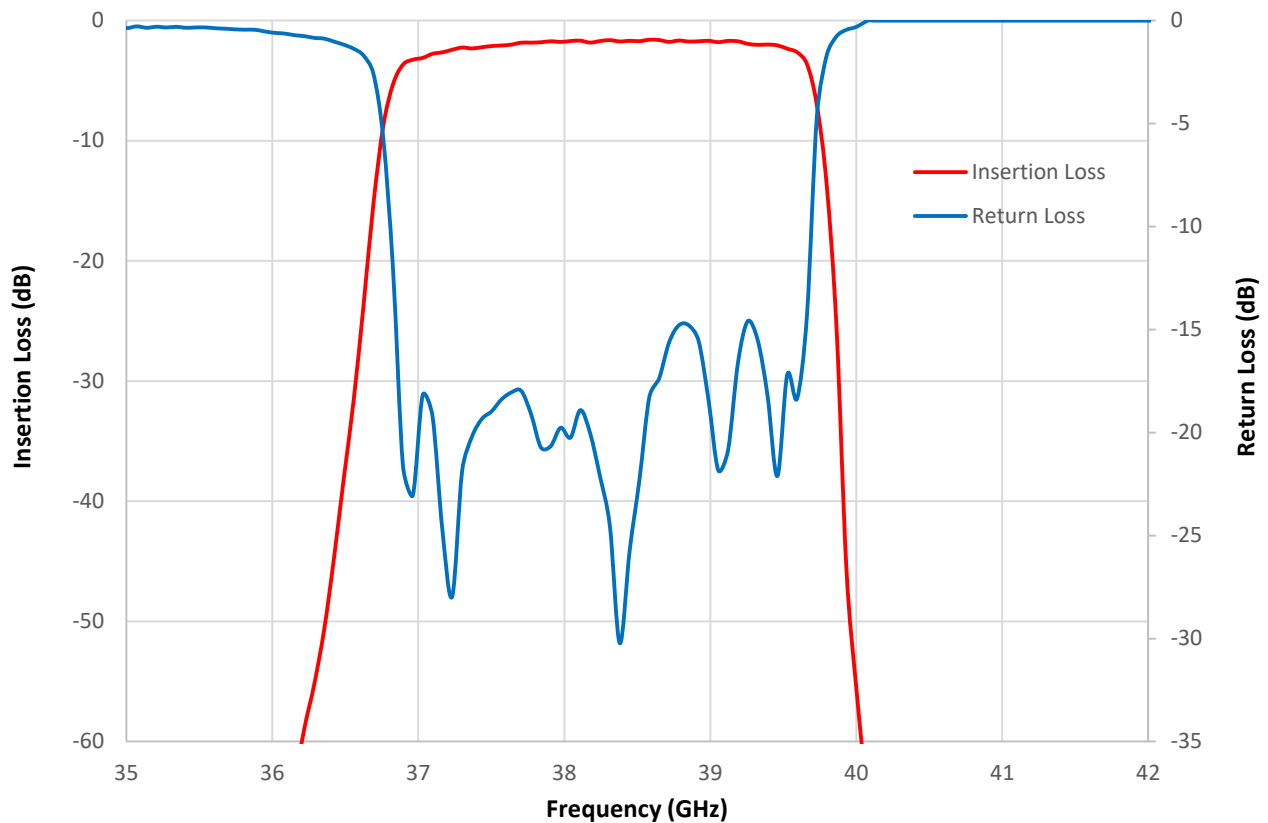
Item	Specification
Waveguide Ports	WR-28 Waveguide to Coax Adapters with K(F) Connectors
Material	Aluminum
Finish	Gold Plated
Weight	2.4 Oz
Size	2.50" (L) x 0.75" (W) x 0.75" (H)
Outline	WF-BA-CE



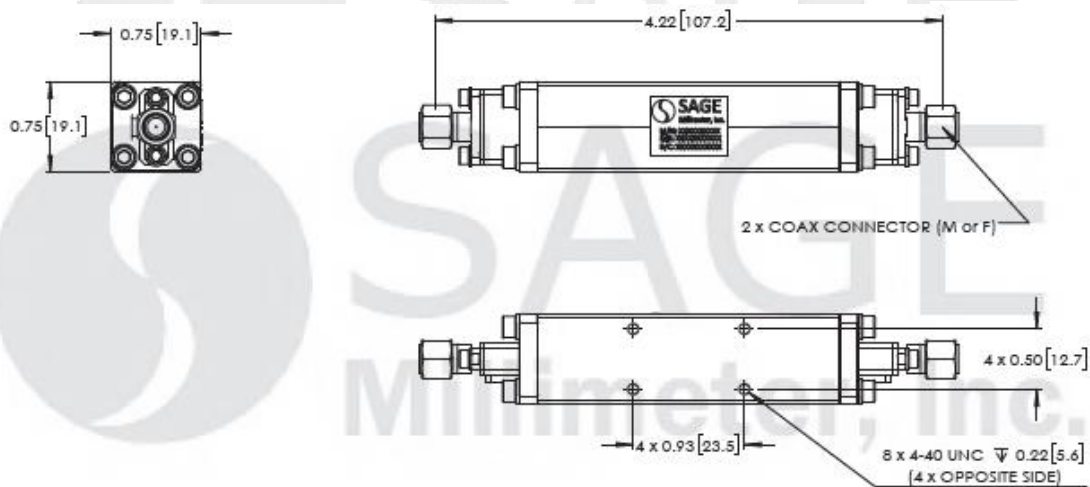


Waveguide Bandpass Filter, Ka Band, 37.4 to 39.6 GHz

Typical Performance vs. Frequency



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





Waveguide Bandpass Filter, Ka Band, 37.4 to 39.6 GHz

Note:

- All data are presented using a limited 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, 4.0 ± 0.15 inch-pounds (0.45 ± 0.02 Nm), should be used. **SAGE Millimeter torque wrench, model SCH-06004-S1, is highly recommended.**

