SWF-65304340-12-B1

Rev. 1.0

Waveguide Bandpass Filter, E Band, 63 to 67 GHz

Description:

Model SWF-65304340-12-B1 is an E band waveguide bandpass filter with a passband of 63 to 67 GHz and rejects the frequencies ranging from DC to 57 GHz and 73 to 85 GHz. The nominal insertion loss of the bandpass filter is 2.0 dB and a typical rejection of 40 dB. Since both low end and high end cut off frequencies can be selected by modifying the design, custom design models are available under different model numbers.

Features:

- Low Cost
- Low Insertion Loss
- High Rejection

Applications:

- E Band Communication Systems
- Automotive Radar Systems
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Passband Frequency	63 GHz		67 GHz
Passband Insertion Loss		2.0 dB	2.5 dB
Passband Ripple		±0.3 dB	
Rejection Frequency, Low Side	DC		57 GHz
Rejection Frequency, High Side	73 GHz		85 GHz
Rejection		40 dB	
Passband Return Loss		15 dB	
Specification Temperature		+25 ˚C	
Operating Temperature	-40 ˚C		+85 ˚C

Mechanical Specifications:

Item	Specification
Waveguide Ports	WR-12 Waveguide with UG-387/U Flange
Material	Aluminum
Finish	Gold Plated
Weight	0.4 Oz
Size	1.20” (L) X 0.75” (Ø)
Outline	WF-BE

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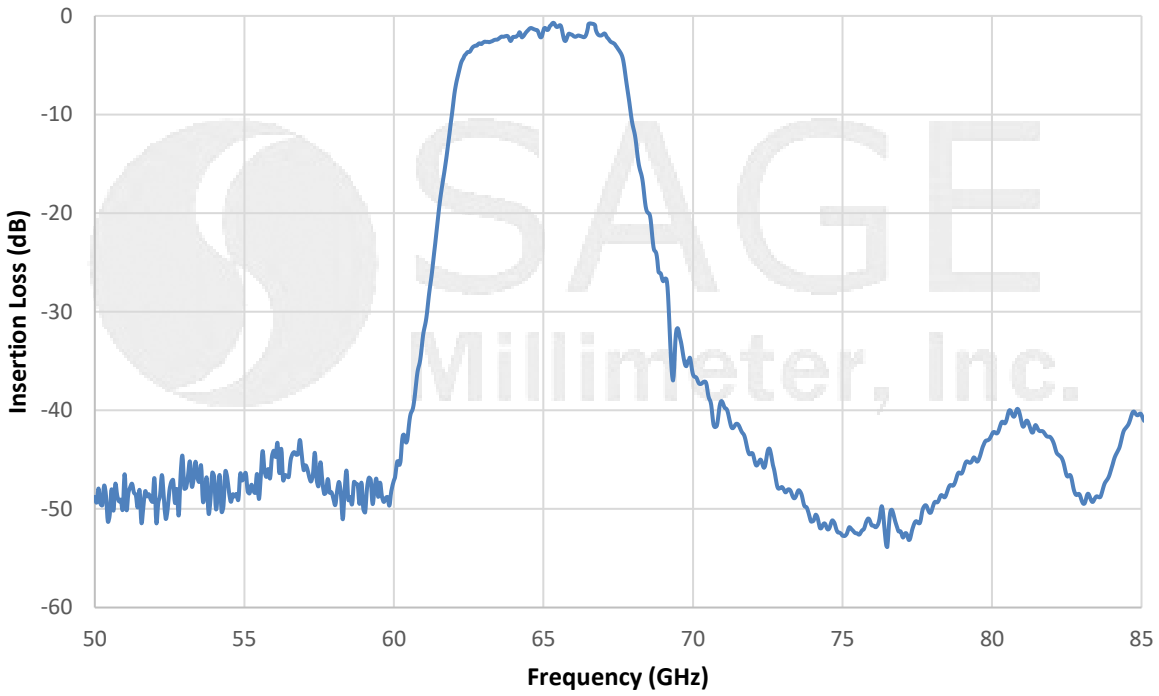
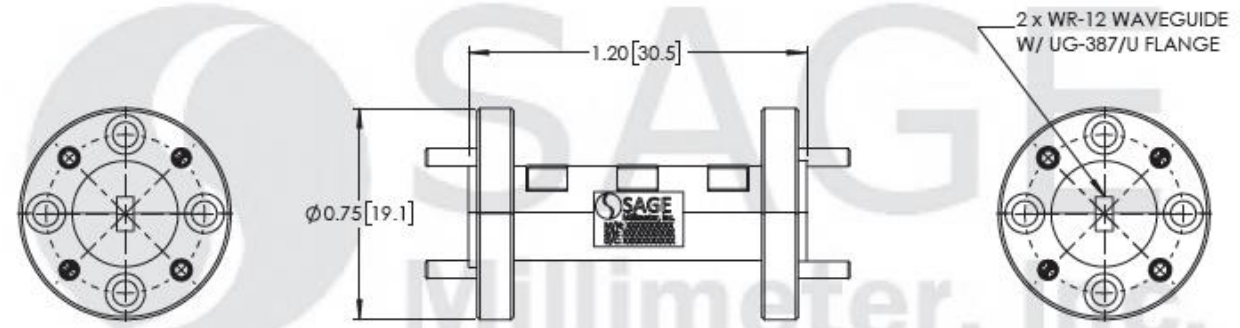
Typical Insertion Loss vs. Frequency



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, slightly.
- All testing was performed under +25 °C case temperature.
- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.

Caution:

- Any foreign objects in the waveguide will degrade performance and/or damage the device.

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