



Waveguide Bandpass Filter, V Band, 57.5 to 62.5 GHz

Description:

Model SWF-60305340-15-B1 is a V band waveguide bandpass filter with a passband frequency of 57.5 to 62.5 GHz and rejection frequencies from DC to 55.0 GHz and 67.0 to 78.0 GHz. The nominal insertion loss of the bandpass filter is 2.0 dB and the typical rejection is 25 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:

- IEEE 802.11ad WiGig Systems
- Communication Systems
- Radar Systems
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Passband Frequency	57.5 GHz		62.5 GHz
Passband Insertion Loss		2.0 dB	
Passband Ripple		±0.5 dB	
Rejection Frequency, Low Side	DC		55.0 GHz
Rejection Frequency, High Side	67.0 GHz		78.0 GHz
Rejection		25 dB	
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

Mechanical Specifications:

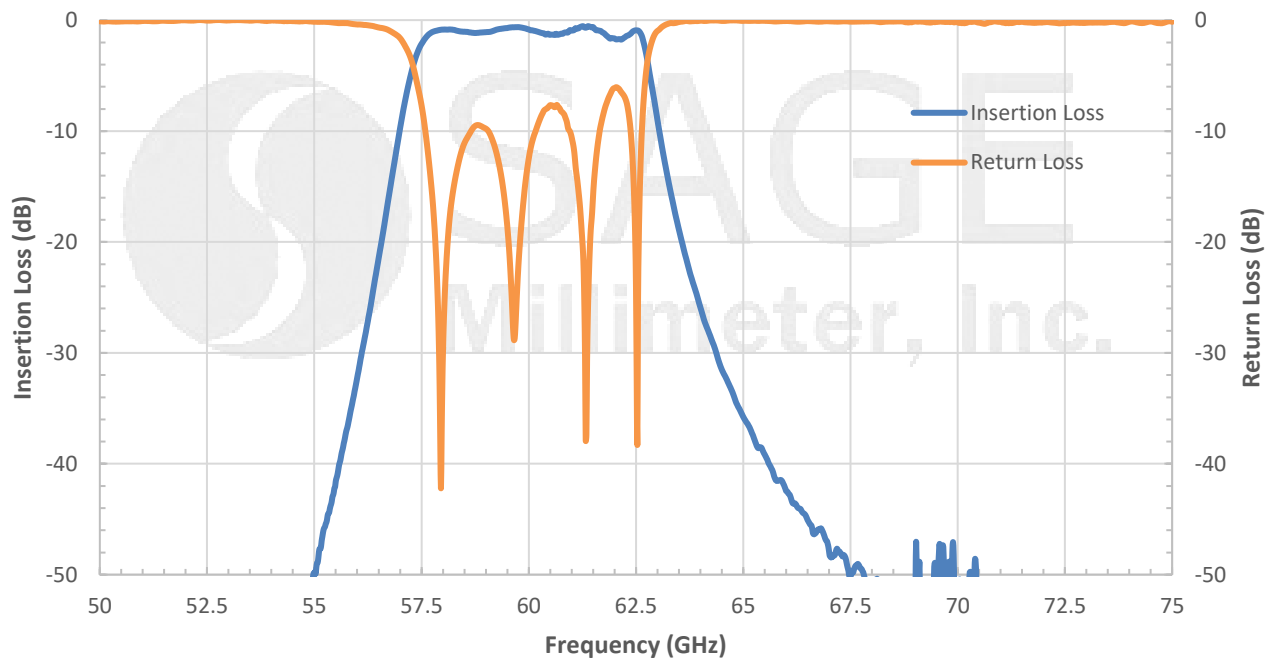
Item	Specification
Waveguide Ports	WR-15 Waveguide with UG-385/U Flange
Material	Aluminum
Finish	Gold Plated
Weight	0.4 oz
Insertion Length	1.20"
Outline	WF-BV



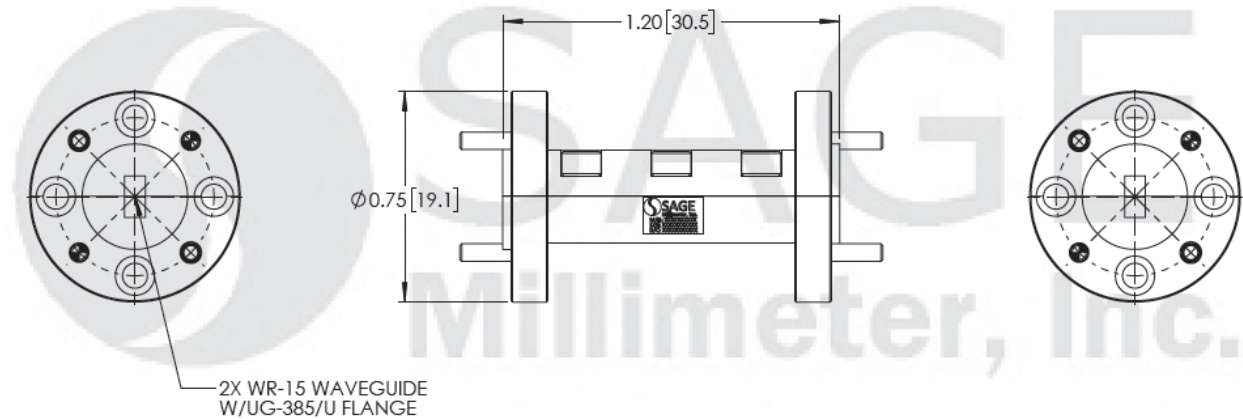


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Typical Insertion Loss, Return Loss Vs Frequency



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 cause performance degradation and possible device damage.



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