SWF-64306340-15-B1

Advanced

Waveguide Bandpass Filter, V Band, 61 to 67 GHz

Description:

Model SWF-64306340-15-B1 is a V band waveguide bandpass filter with a passband frequency of 61 to 67 GHz and rejection frequencies from DC to 59 GHz and 69 to 80 GHz. The nominal insertion loss of the bandpass filter is 2 dB and the typical rejection is 40 dB. Since both low end and high end cut off frequencies can be selected by modifying the design, custom models 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	61 GHz		66 GHz
Passband Insertion Loss		2 dB	
Passband Ripple		±0.3 dB	
Rejection Frequency, Low Side	DC		59 GHz
Rejection Frequency, High Side	69		80 GHz
Rejection		40 dB	
Passband Return Loss		14 dB	
Power Handling			100 W (CW)
Specification Temperature		+25 ˚C	
Operating Temperature	-40 ˚C		+85 ˚C

Mechanical Specifications:

Item	Specification
Waveguide	WR-15 Waveguide with UG-385/U Flange
Material	Aluminum
Finish	Gold Plated
Weight	0.4 Oz
Size	1.20” (L) X 0.75” (Ø)
Outline	WF-BV

www.sagemillimeter.com | 3043 Kashiwa Street, Torrance, CA 90505
Phone: 424-757-0168 | Fax: 424-757-0188 | Email: sales@sagemillimeter.com

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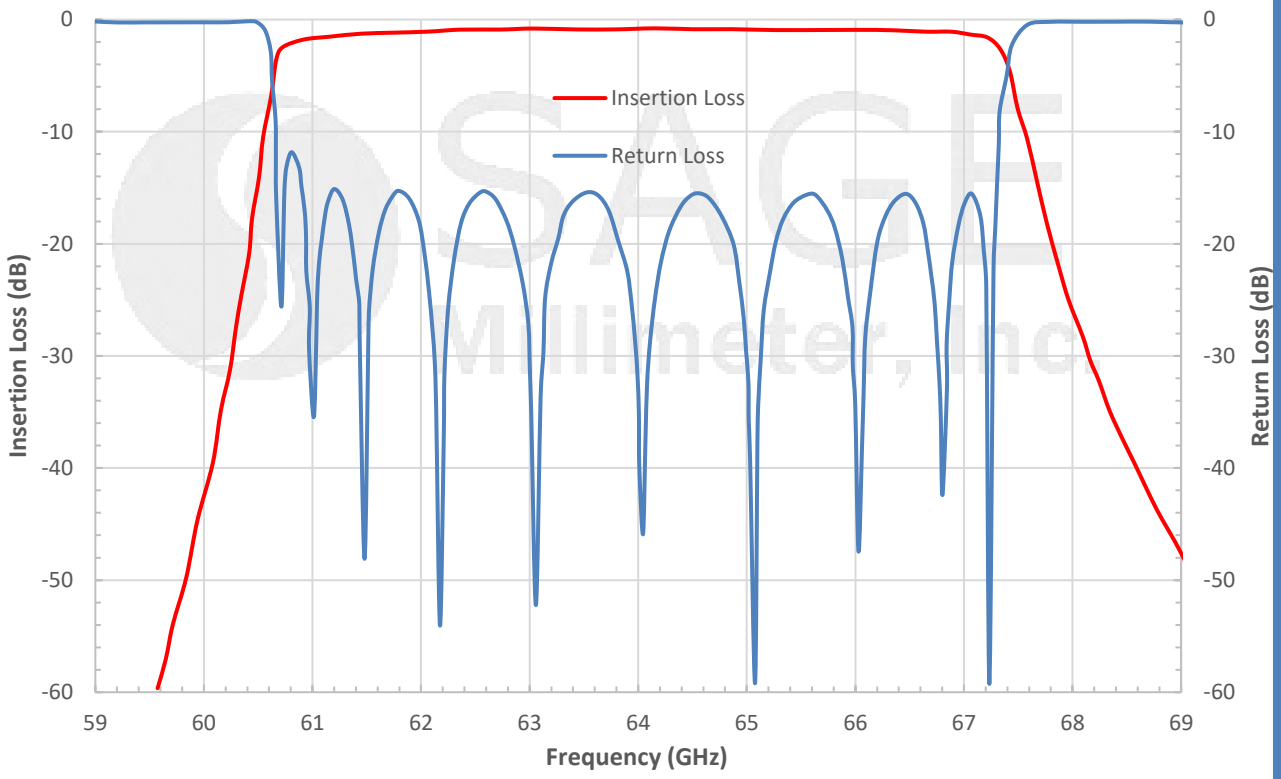
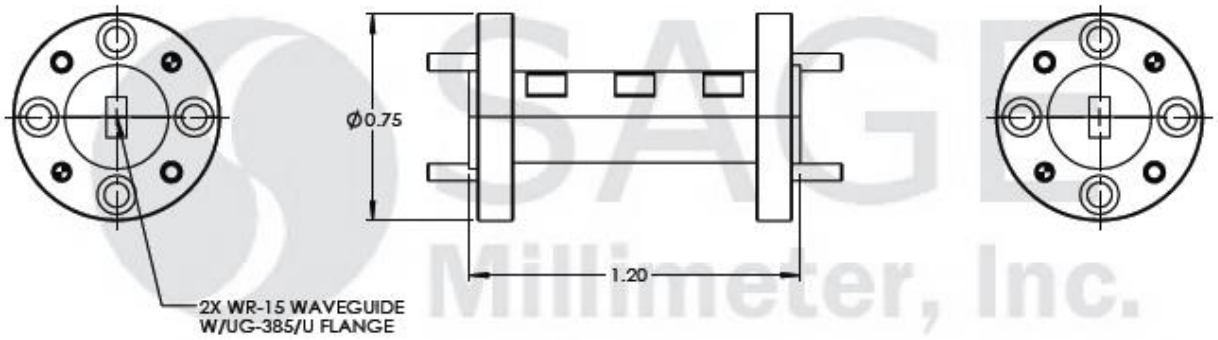
Typical Performance vs. Frequency



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



Note:

- All data presented is simulated. Actual data may vary, slightly.
- 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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