



## Waveguide Bandpass Filter, V Band, 60 to 62 GHz

### Description:

**Model SWF-61302330-15-B1** is a V band waveguide bandpass filter with a passband frequency of 60 to 62 GHz and rejection frequencies from DC to 59 GHz and 64 to 80 GHz. The nominal insertion loss of the bandpass filter is 2.5 dB and the typical rejection is 30 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	60 GHz		62 GHz
Passband Insertion Loss		2.5 dB	
Passband Ripple		± 0.3 dB	
Rejection Frequency, Low Side	DC		59 GHz
Rejection Frequency, High Side	64 GHz		80 GHz
Rejection		30 dB	
Passband Return Loss		14 dB	
Power Handling			100 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

### Mechanical Specifications:

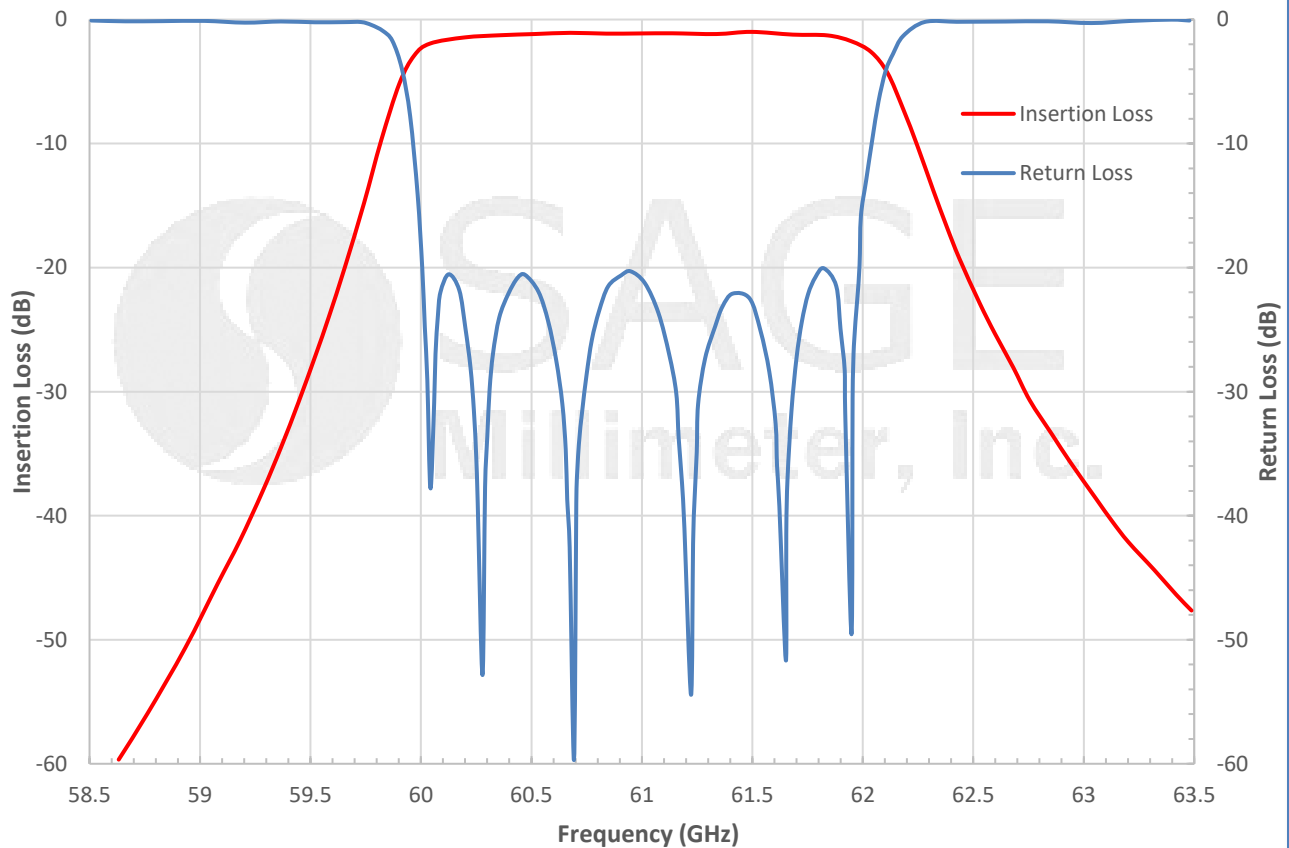
Item	Specification
Waveguide Ports	WR-15 Waveguide with UG-385/U Flange
Material	Aluminum
Finish	Gold Plated
Weight	0.4 Oz
Size	1.20" (L) X 0.75" (Ø)
Outline	WF-BV



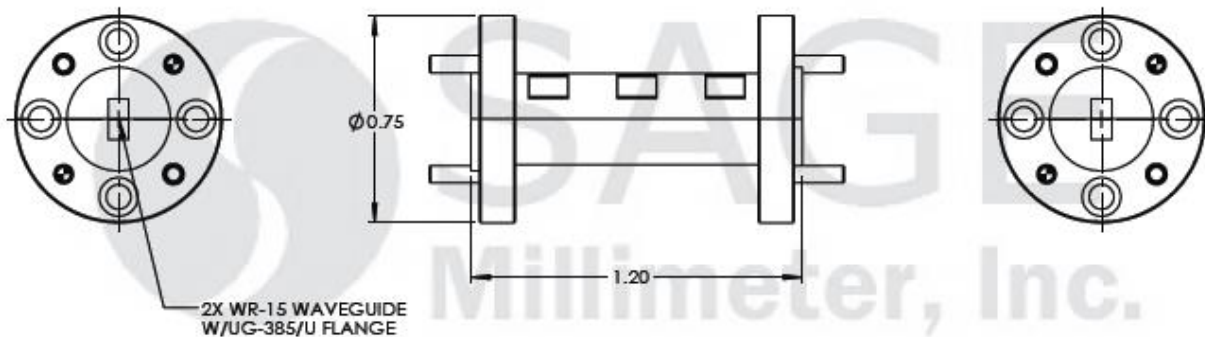


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### Typical Performance vs. Frequency



### 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.

