

Waveguide Bandpass Filter, V Band, 59.48 to 61.48 GHz

Description:

Model SWF-61302350-15-B1 is a V band waveguide bandpass filter with a passband frequency of 59.48 to 61.48 GHz and rejection frequencies from 50.48 to 54.48 GHz and 66.48 to 69.48 GHz. The nominal insertion loss of the bandpass filter is 2.5 dB and the typical rejection is 50 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	59.48 GHz		61.48 GHz
Passband Insertion Loss		2.5 dB	
Passband Ripple		± 0.3 dB	
Rejection Frequency, Low Side	50.48 GHz		54.48 GHz
Rejection Frequency, High Side	66.48 GHz		69.48 GHz
Rejection		50 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

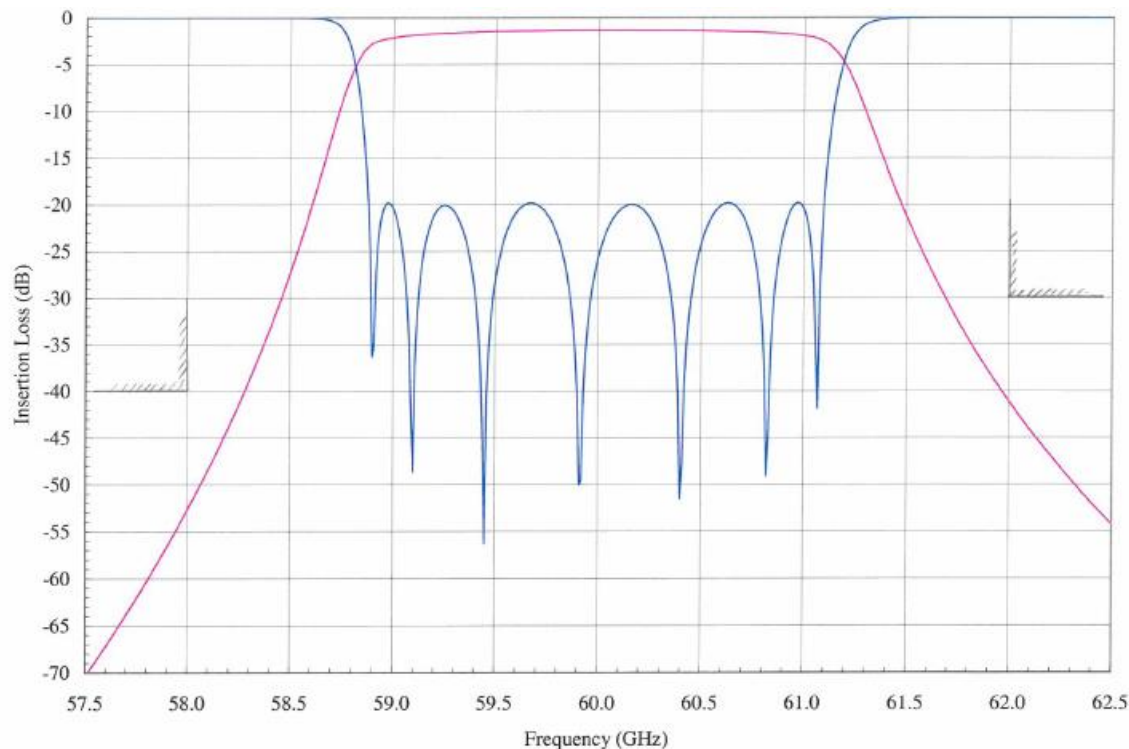
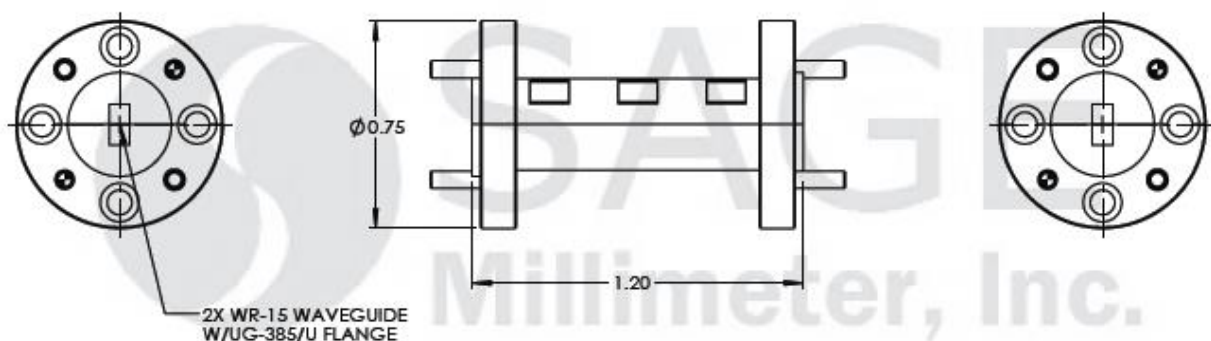
Mechanical Specifications:

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



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Simulated Data

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

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

