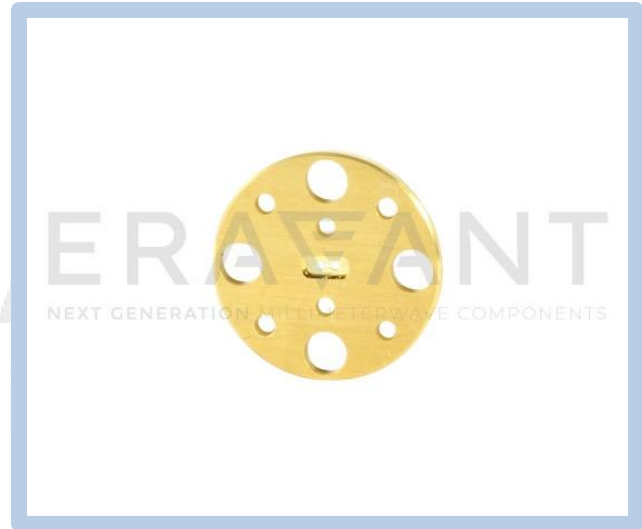




V Band, Compact Bandpass Filter, 60 GHz Center Frequency, 2nd Harmonic Rejection

Description:

Model SWF-60302112-15-B1-C is a V band iris resonance based compact bandpass filter with a passband center frequency of 60 GHz and rejection frequency at 120 GHz. It is designed for any oscillator with an output waveguide of WR-15 with a UG-385/U flange pattern to pass the fundamental frequency at 60 GHz and reject the second harmonic at 120 GHz. The nominal insertion loss of the filter at 60 GHz is 0.5 dB and the rejection at 120 GHz is 12 dB.



Features:

- Low Cost
- Low Insertion Loss
- Compact Size

Applications:

- Second Harmonic Rejection
- Waveguide Components
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Passband Frequency	59 GHz	60 GHz	61 GHz
Passband Insertion Loss		0.5 dB	
Passband Bandwidth		200 MHz	
Rejection Frequency		120 GHz	
Rejection (2 nd Harmonic)		12.0 dB	
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

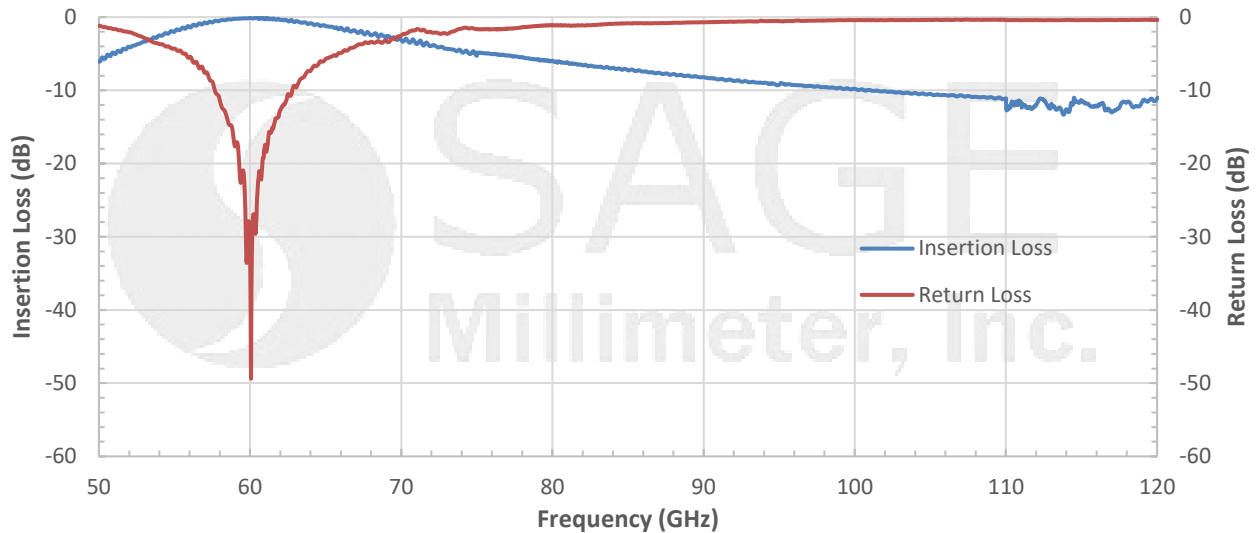
Mechanical Specifications:

Item	Specification
Waveguide Port	WR-15 Waveguide with UG-385/U Flange
Material	Brass
Finish	Gold Plating
Weight	0.3 Oz
Size	Ø 0.75" x 0.05"
Outline	WF-BV-C

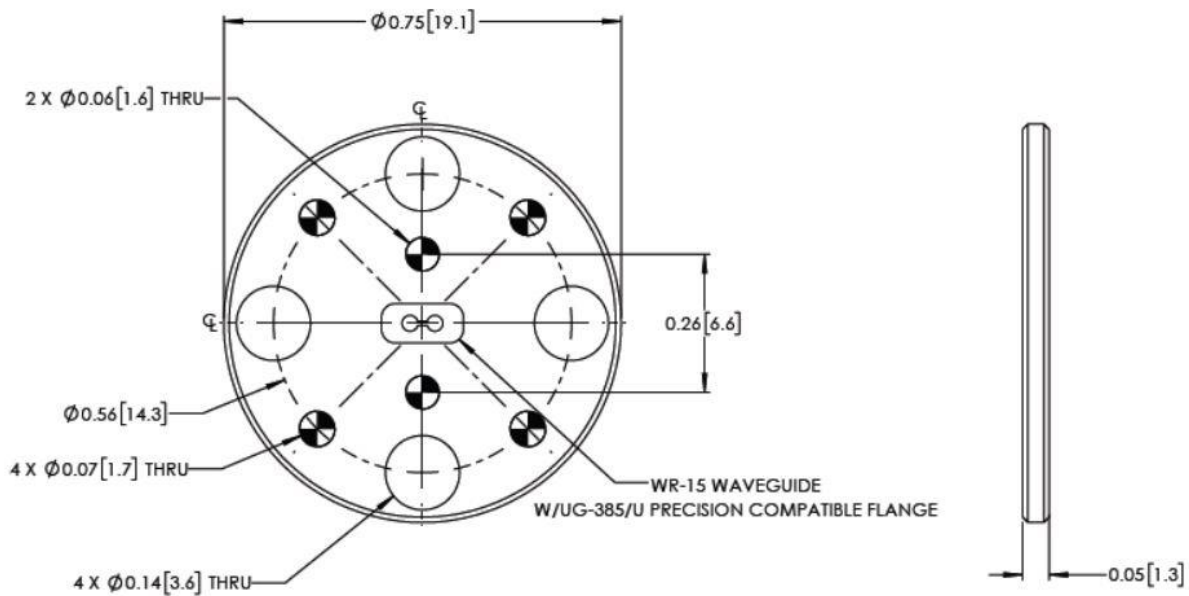


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Typical Performance vs Frequency



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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