



Waveguide Bandpass Filter, V Band, 49.75 to 50.25 GHz

Description:

Model SWF-50305230-15-B1 is a V band waveguide bandpass filter with a passband frequency of 49.75 to 50.25 GHz and rejection frequencies from DC to 49 GHz and 51 to 60 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 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	49.75 GHz		50.25 GHz
Passband Insertion Loss		2.5 dB	3.0 dB
Passband Ripple		±0.25 dB	
Rejection Frequency, Low Side	DC		49GHz
Rejection Frequency, High Side	51 GHz		60 GHz
Rejection		30 dB	
Passband VSWR		1.5:1	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

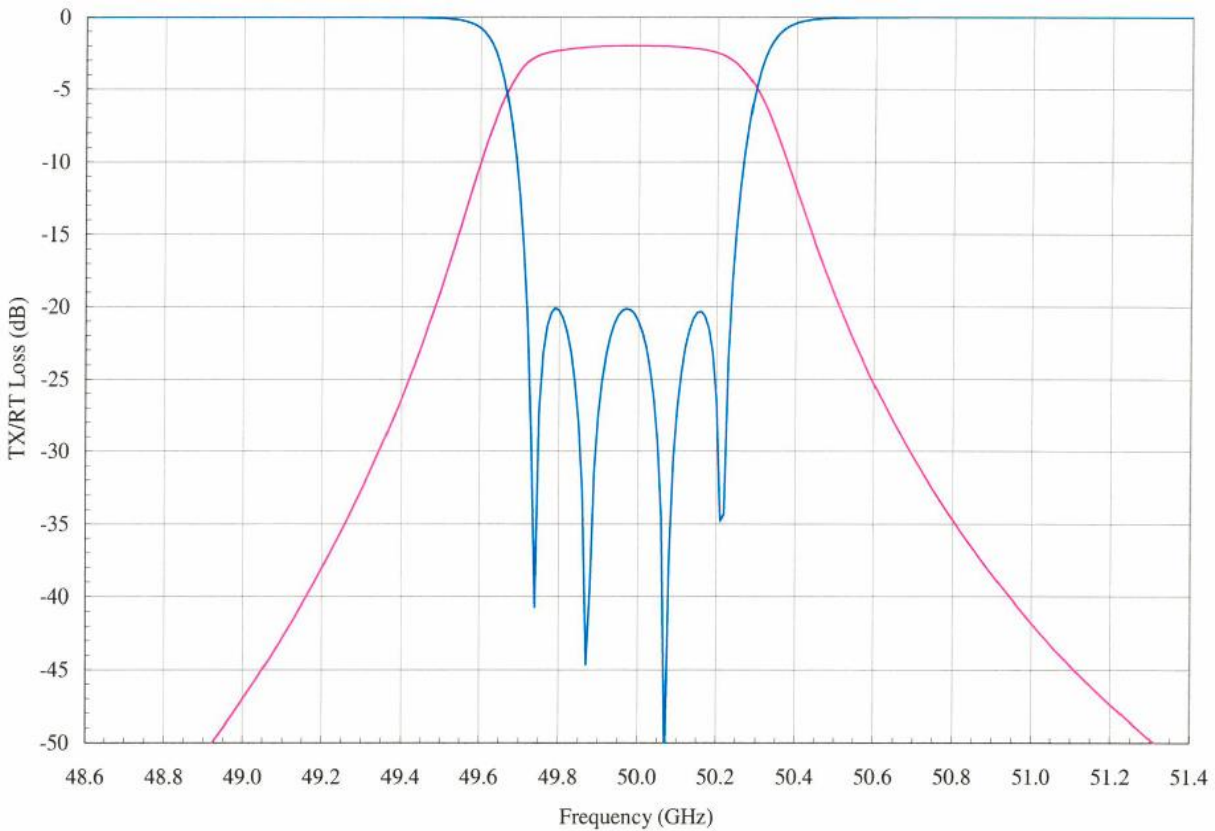
Mechanical Specifications:

Item	Specification
Waveguide	WR-15 Waveguide with UG-385/U Flange
Size	1.20" (L) X 0.75" (Ø)
Material	Aluminum
Finish	Gold Plated
Weight	0.3 Oz
Outline	WF-BV

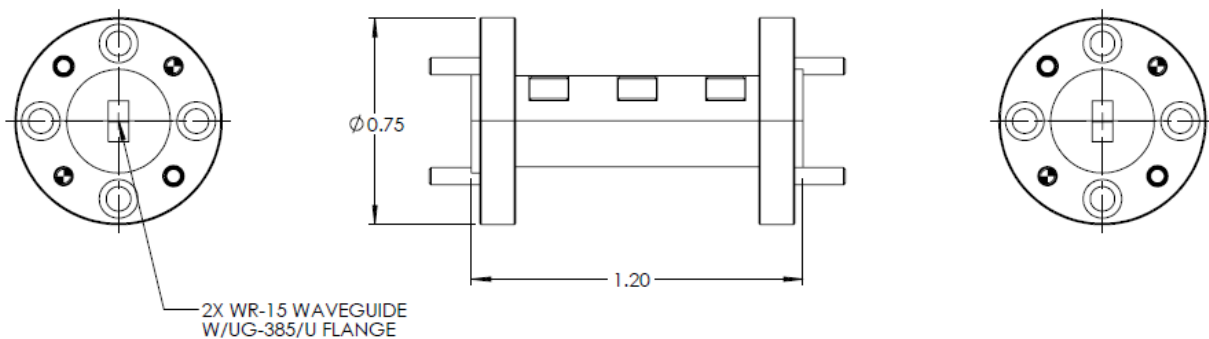


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Simulated Data



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



Note:

- All data presented were simulated. Actual data may vary.
- 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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