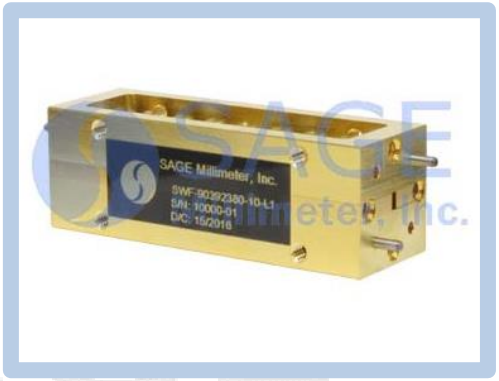
SWF-90392380-10-L1

Advanced

Waveguide Lowpass Filter, W Band, 62 to 90 GHz

Description:

Model SWF-90392380-10-L1 is a W band waveguide lowpass filter with a passband frequency from 62 to 90 GHz and a rejection frequency 92 to 140 GHz. Due to the waveguide cut off nature, the low side of the filter has rejection range of DC to 58 GHz. The filter provides a nominal insertion loss of 3.5 dB across its passband and a typical rejection of 80 dB. Since the high end cutoff frequency can be changed by modifying the design, custom designs can be offered under different model numbers.



Features:

- Low Insertion Loss
- High Rejection

Applications:

- Test Labs
- Instrumentations
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Passband Frequency*	62 GHz		90 GHz
Passband Insertion Loss		3.5 dB	
Rejection Frequency, Low Side	DC		58 GHz
Rejection Frequency, High Side	92 GHz		140 GHz
Rejection		80 dB	
Passband VSWR		1.5:1	
Specification Temperature		+25˚C	
Operating Temperature	-40˚C		+85˚C

*Note: The passband is extended to 60 to 90 GHz if higher insertion loss ripple is allowed.

Mechanical Specifications:

Item	Specification
Waveguide	WR-10 Waveguide with UG-387/U-M Flange
Size	2.20” (L) X 0.75” (W) x 0.75” (H)
Material	Brass
Finish	Gold Plated
Weight	4 Oz
Outline	WF-LW-2.2

www.sagemillimeter.com | 3043 Kashiwa Street, Torrance, CA 90505
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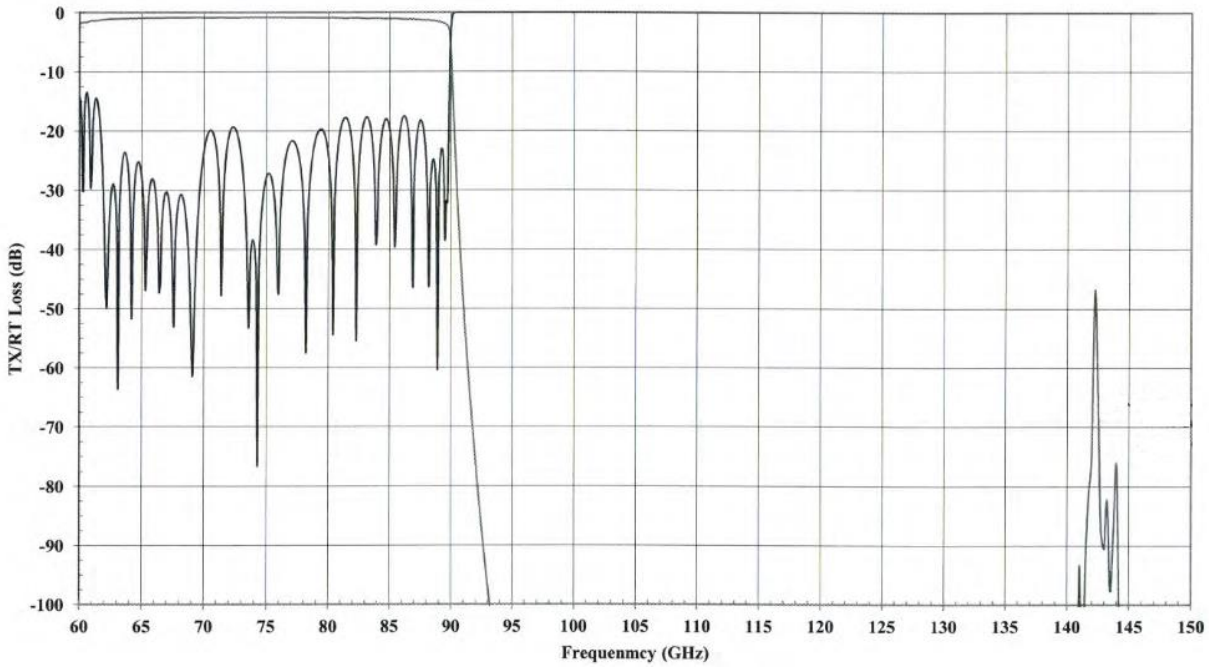
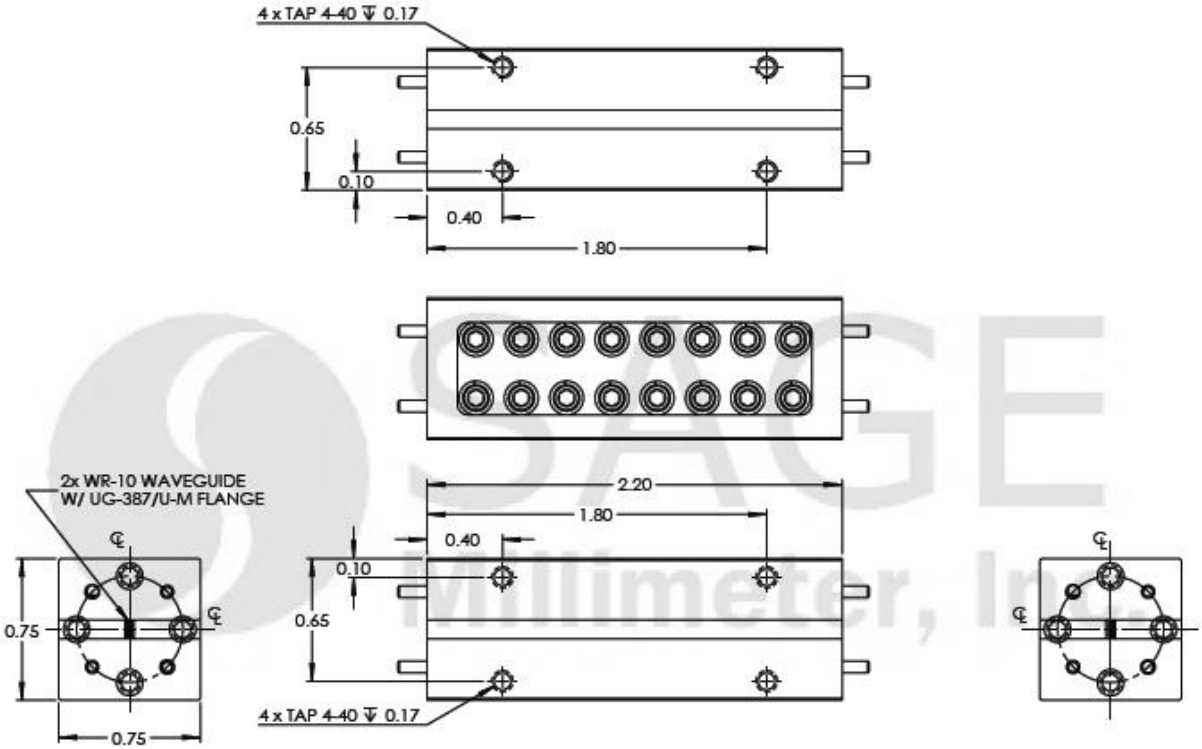
Simulated Data



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



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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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