SWF-85390350-10-L1

Rev. 1.0

Waveguide Lowpass Filter, W Band, 62 to 85 GHz

Description:

Model SWF-85390350-10-L1 is a W band waveguide lowpass filter with a passband frequency from 62 to 85 GHz and a rejection frequency 90 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 50 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		85 GHz
Passband Insertion Loss		3.5 dB	
Rejection Frequency, Low Side	DC		58 GHz
Rejection Frequency, High Side	90 GHz		140 GHz
Rejection		50 dB	
Return Loss		15 dB	
Specification Temperature		+25˚C	
Operating Temperature	-40˚C		+85˚C

*Note: The passband is extended to 60 to 85 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

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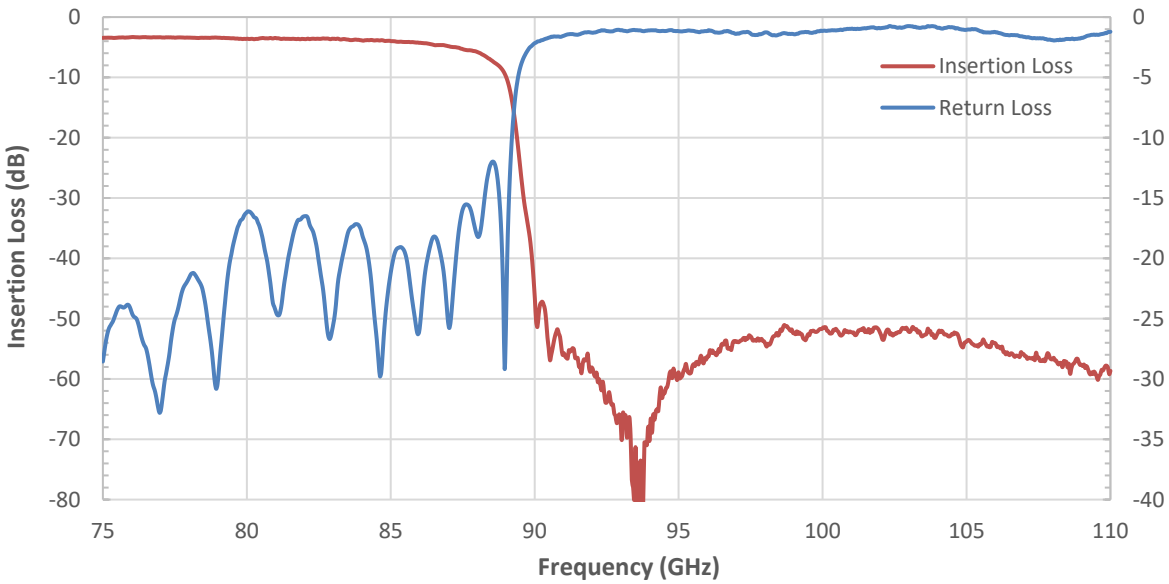
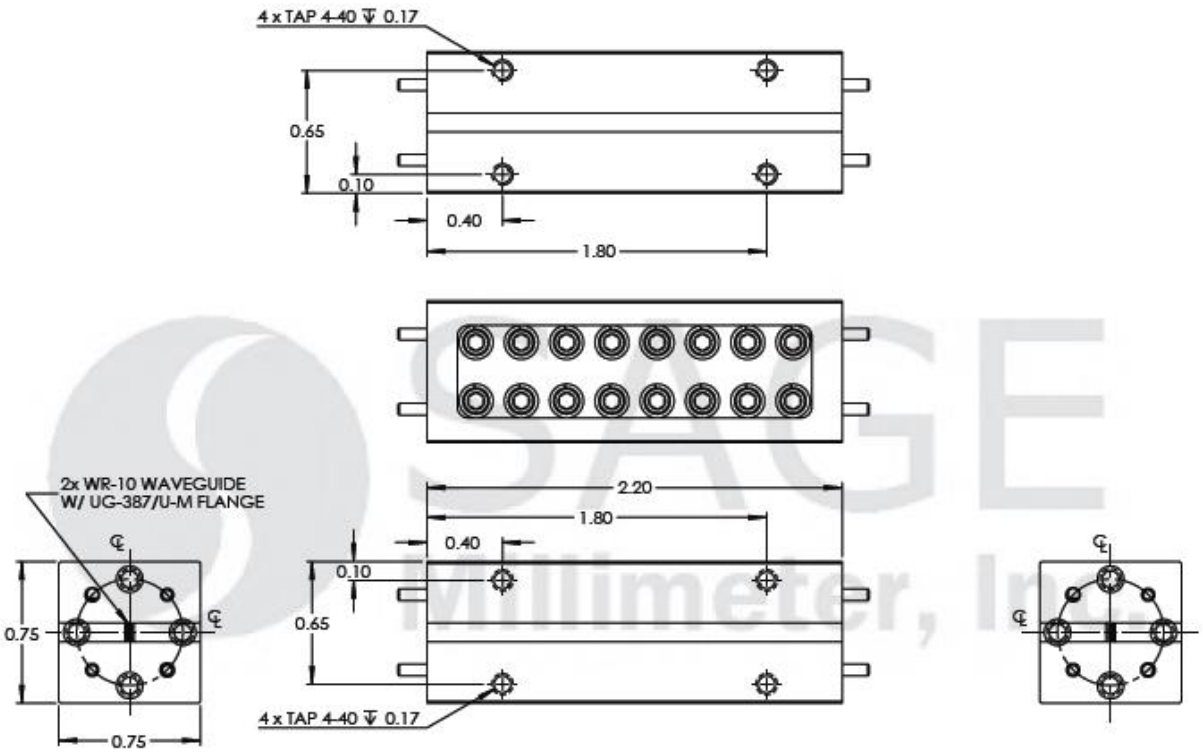
Typical Insertion Loss & Return Loss vs. Frequency



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



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Note:

- All data is collected from a sample lot. Actual data may vary unit to unit.
- All testing was performed under +25 ˚C room temperature.
- Eravant 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.

SAGE Millimeter, Inc.

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