



## 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 95 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		90 GHz
Passband Insertion Loss		3.5 dB	
Rejection Frequency, Low Side	DC		58 GHz
Rejection Frequency, High Side	95 GHz		140 GHz
Rejection		50 dB	
Passband Return Loss		14 dB	
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:

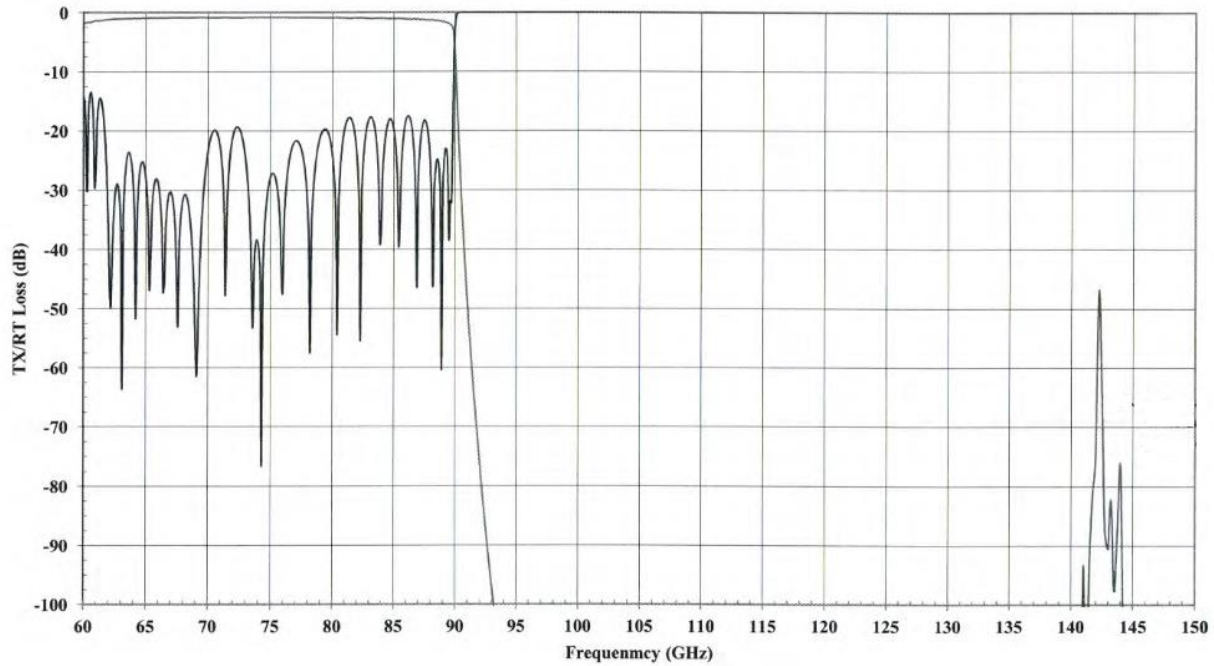
Item	Specification
Waveguide	WR-10 Waveguide with UG-387/U-M Flange
Size	2.20" (L) X 0.75" (W) x 0.75" (H)
Material	Brass
Finish	Gold Plated
Weight	4 Oz
Outline	WF-LW-2.2



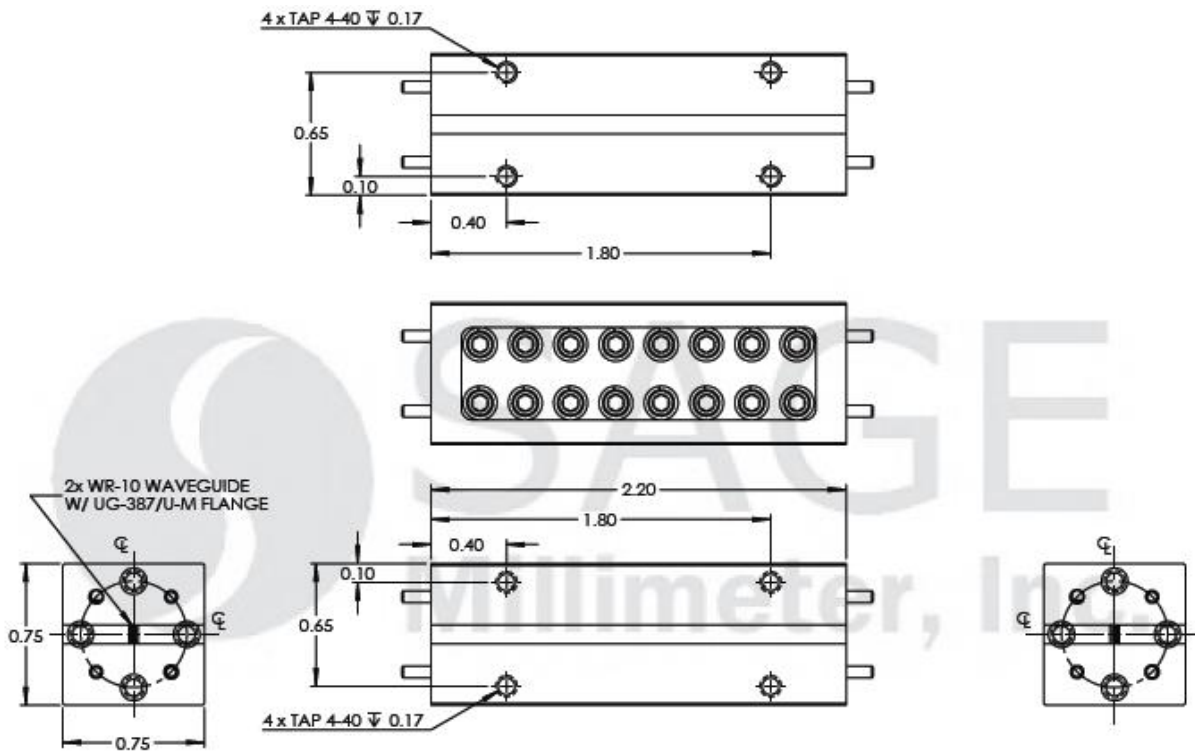


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### Simulated Data



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



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**Note:**

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

