

## Waveguide Lowpass Filter, W Band

### Description:

**Model SWF-11412450-10-L1-WPC** is a W band waveguide lowpass filter with a passband frequency from 65 to 110 GHz and a rejection frequency 120 to 170 GHz. Due to the waveguide cut off nature, the low side of the filter has rejection range of DC to 56 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:

- Full Band Operation
- Low Insertion Loss
- High Rejection

### Applications:

- Test Labs
- Instrumentations
- Sub-assemblies

### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Passband Frequency	65 GHz		110 GHz
Passband Insertion Loss		3.5 dB	
Rejection Frequency, Low Side	DC		56 GHz
Rejection Frequency, High Side	120 GHz		170 GHz
Rejection		50 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

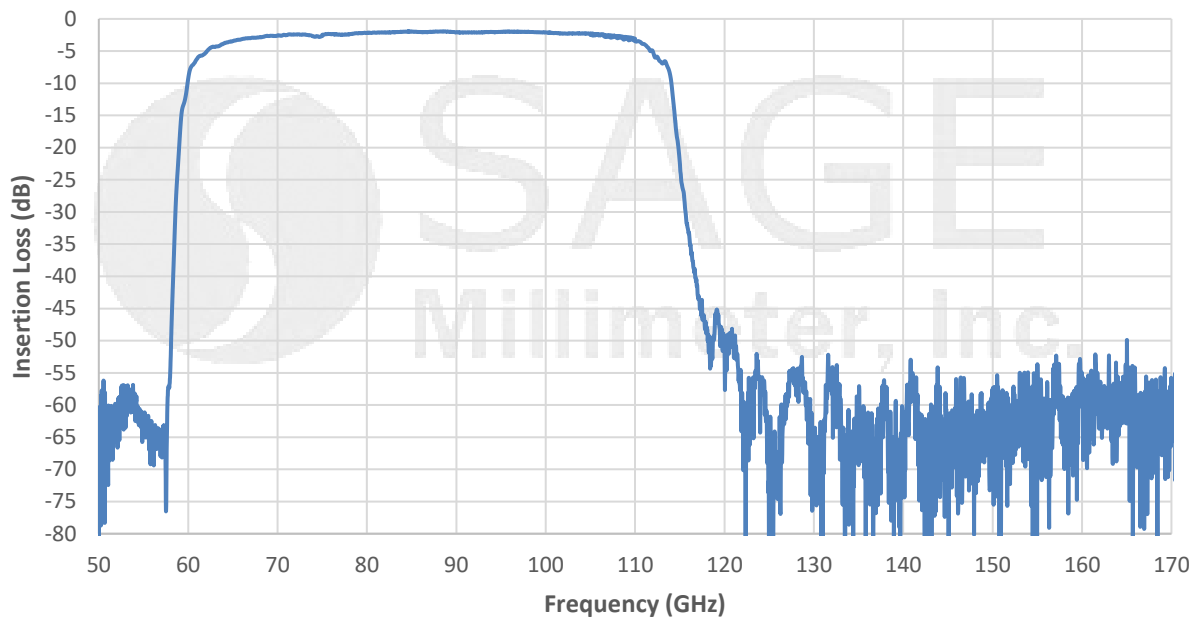
### Mechanical Specifications:

Item	Specification
Waveguide	WR-10 Waveguide with UG-387/U-M Flange
Size	1.20" (L) x 0.75" (W) x 0.75" (H)
Material	Brass
Finish	Gold Plated
Weight	2.6 Oz
Outline	WF-LW-1.2

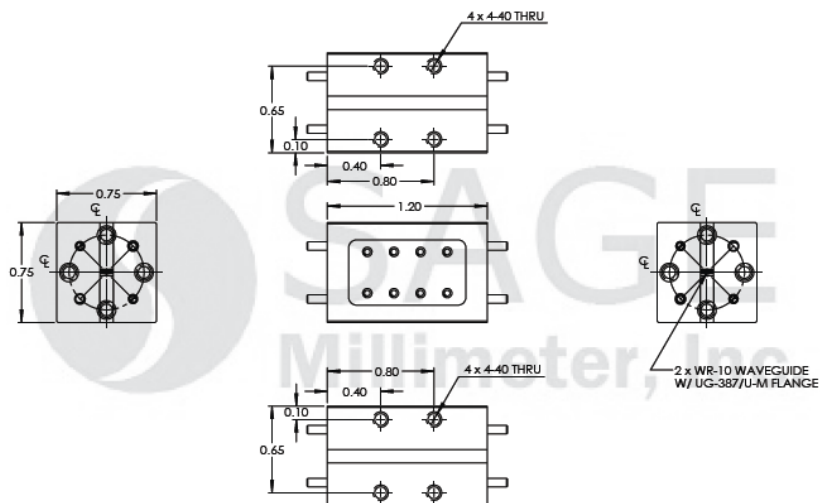


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Typical Performance vs Frequency



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

**Note:**

- All data are presented by using a limited sample lot. Actual data may vary unit to unit.
- All testing was performed under +25 °C case 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.



www.eravant.com | 501 Amapola Ave, Torrance, CA 90501  
Phone: 424-757-0168 | Fax: 424-757-0188 | Email: support@eravant.com