

## SWF-96312460-12-L1-WP

### Waveguide Lowpass Filter, E-Band, 60 to 96 GHz

**SWF-96312460-12-L1-WP** is an E band waveguide lowpass filter with a passband frequency from 60 to 96 GHz and a rejection frequency from 123 to 200 GHz. Due to the corrugated design of the WR-12 waveguide, the filter also has a low side rejection frequency from DC to 49 GHz. As such, this filter can also be accepted as a bandpass filter. The filter provides a nominal insertion loss of 2.5 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.



### Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Passband Frequency	60 GHz		96 GHz
Passband Insertion Loss		2.5 dB	
Rejection Frequency, Low Side	DC		49 GHz
Rejection Frequency, High Side	123 GHz		200 GHz
Rejection		50 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

### Mechanical Specifications:

Item	Specification
Waveguide Port	WR-12 Waveguide with UG-387/U Anti-Cocking Flange
Material	Aluminum
Finish	Gold Plated
Weight	4 Oz
Outline	WF-LE-A-1.6

### ECCN

EAR99

### FEATURES

- Low Insertion Loss
- High Rejection

### APPLICATIONS

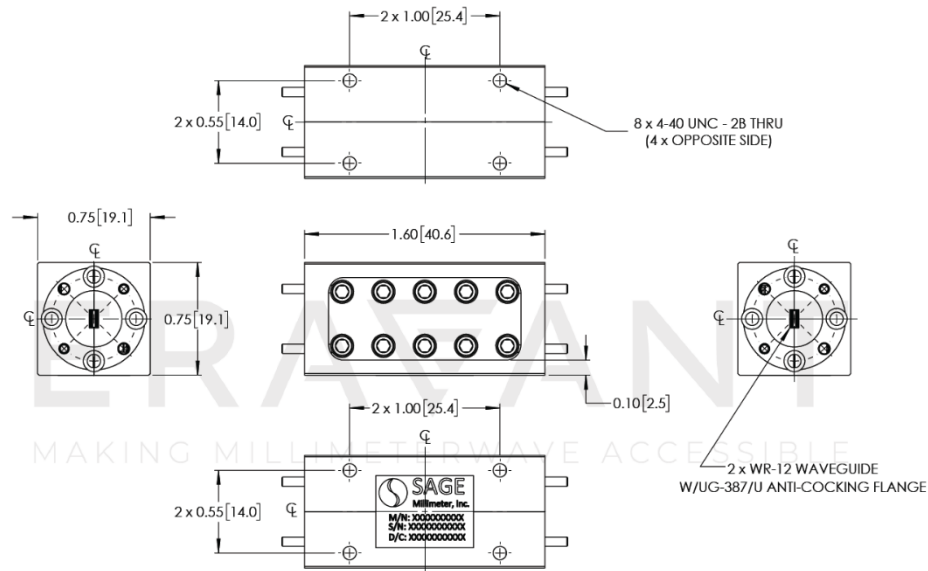
- Communication Systems
- Instrumentations
- Sub-assemblies

### SUPPLEMENTAL DETAILS



## SWF-96312460-12-L1-WP

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



### NOTE:

- On condition that test data is provided it is collected from a sample lot. Actual data may vary slightly from unit to unit. All testing is performed under +25 °C room temperature.
- On condition that simulated test data is provided, actual measured data may slightly vary.
- Eravant reserves the right to change the information presented without notice.

### CAUTION:

- If a waveguide is present, any foreign objects in the waveguide will cause performance degradation and may damage or destroy the unit.