

Waveguide Lowpass Filter, E Band, 55 to 80 GHz

Description:

Model SWF-80390340-12-L1-WP is an E band waveguide lowpass filter with a passband frequency from 55 to 80 GHz and a rejection frequency from 90 to 110 GHz. Due to the corrugated design of the WR-12 waveguide, the filter also has a low side rejection frequency from DC to 48 GHz. As such, this filter can also be accepted as a bandpass filter. The filter provides a nominal insertion loss of 3.5 dB across its passband and a typical rejection of 40 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	55 GHz		80 GHz
Passband Insertion Loss		3.5 dB	
Rejection Frequency, Low Side	DC		48 GHz
Rejection Frequency, High Side	90 GHz		110 GHz
Rejection		40 dB	
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

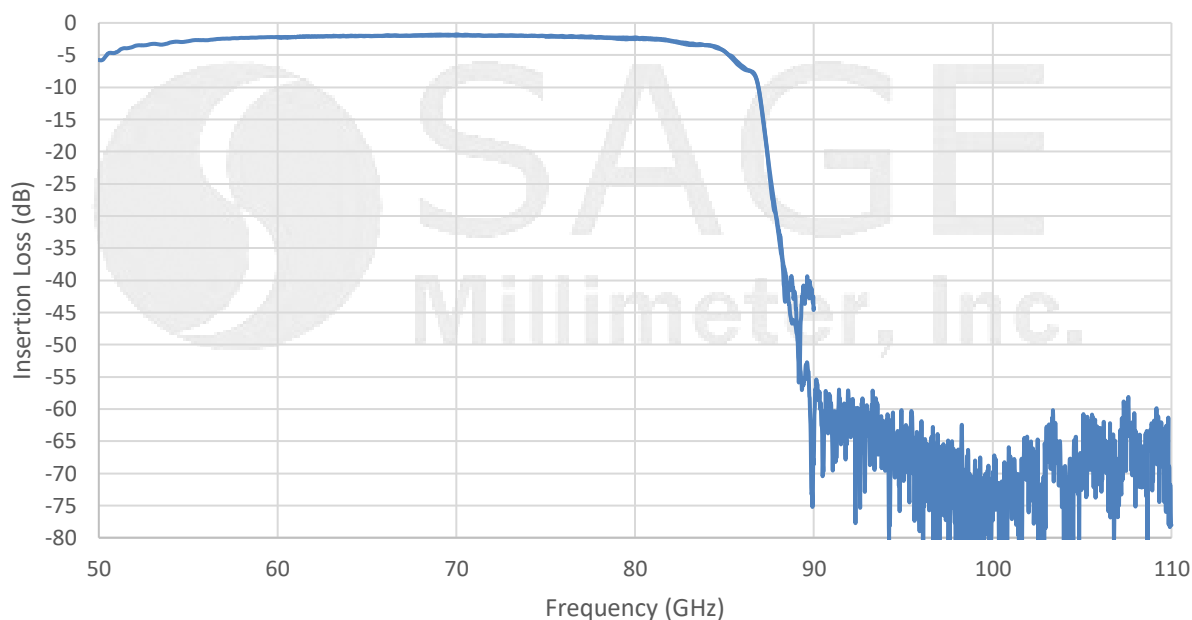
Mechanical Specifications:

Item	Specification
Waveguide	WR-12 Waveguide with UG-387/U Flange
Size	2.20" (L) X 0.75" (W) x 0.75" (H)
Material	Brass
Finish	Gold Plated
Weight	3.8 Oz
Outline	WF-LE

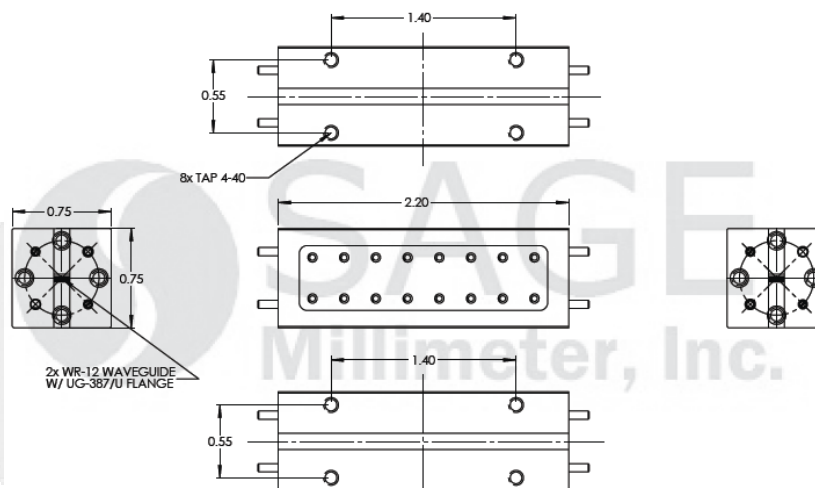


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Typical Performance vs Frequency



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.



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