



Q Band Waveguide, Lowpass Filter, 30 to 45 GHz

Description:

Model SWF-45350340-22-L1 is a Q band waveguide lowpass filter with a passband frequency from 30 to 45 GHz and a rejection frequency 50 to 135 GHz. Due to the waveguide cut off nature, the low side of the filter has rejection range of DC to 25 GHz. The filter provides a nominal insertion loss of 1.5 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:

- Low Insertion Loss
- High Rejection

Applications:

- Test Labs
- Instrumentations
- Sub-assemblies

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Passband Frequency	30 GHz		45 GHz
Passband Insertion Loss		1.5 dB	
Rejection Frequency, Low Side	DC		25 GHz
Rejection Frequency, High Side	50 GHz		135 GHz
Rejection		40 dB	
Passband Return Loss		10 dB	
Power Handling			100 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

Mechanical Specifications:

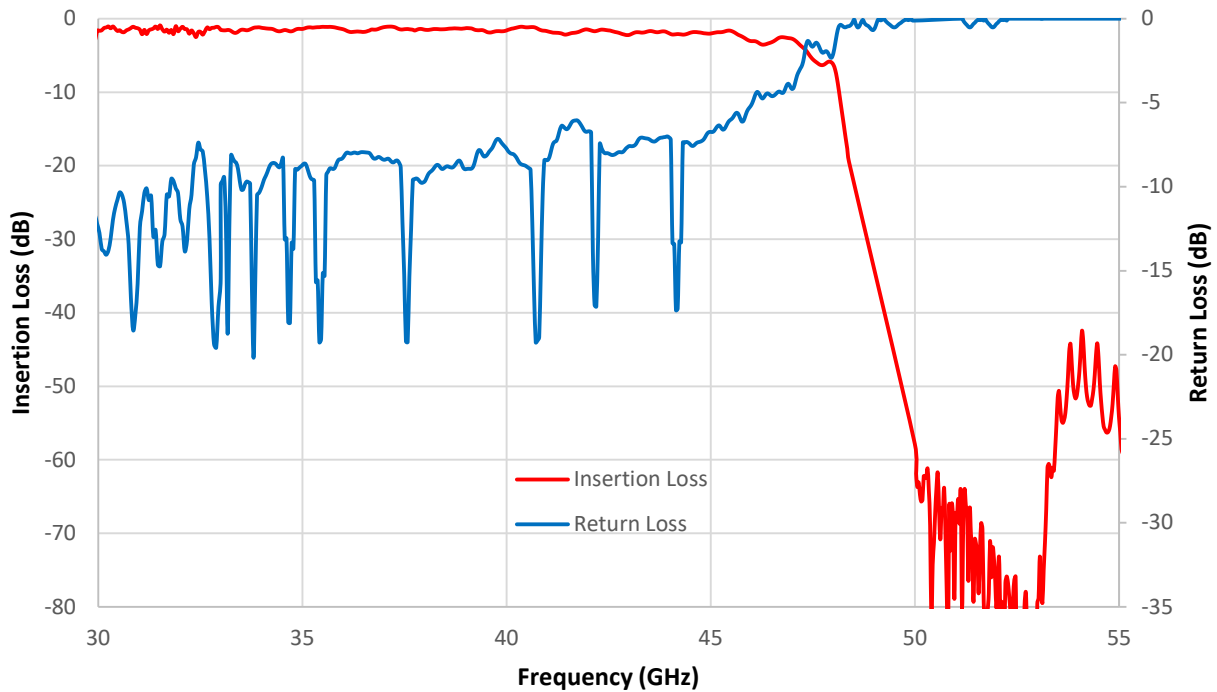
Item	Specification
Waveguide Ports	WR-22 Waveguide with UG-383/U Anti-Cocking Flange
Material	Brass
Finish	Gold Plated
Weight	6.8 Oz
Size	2.80" (L) X 1.13" (W) X 1.13" (H)
Outline	WF-LQ-A-2.8



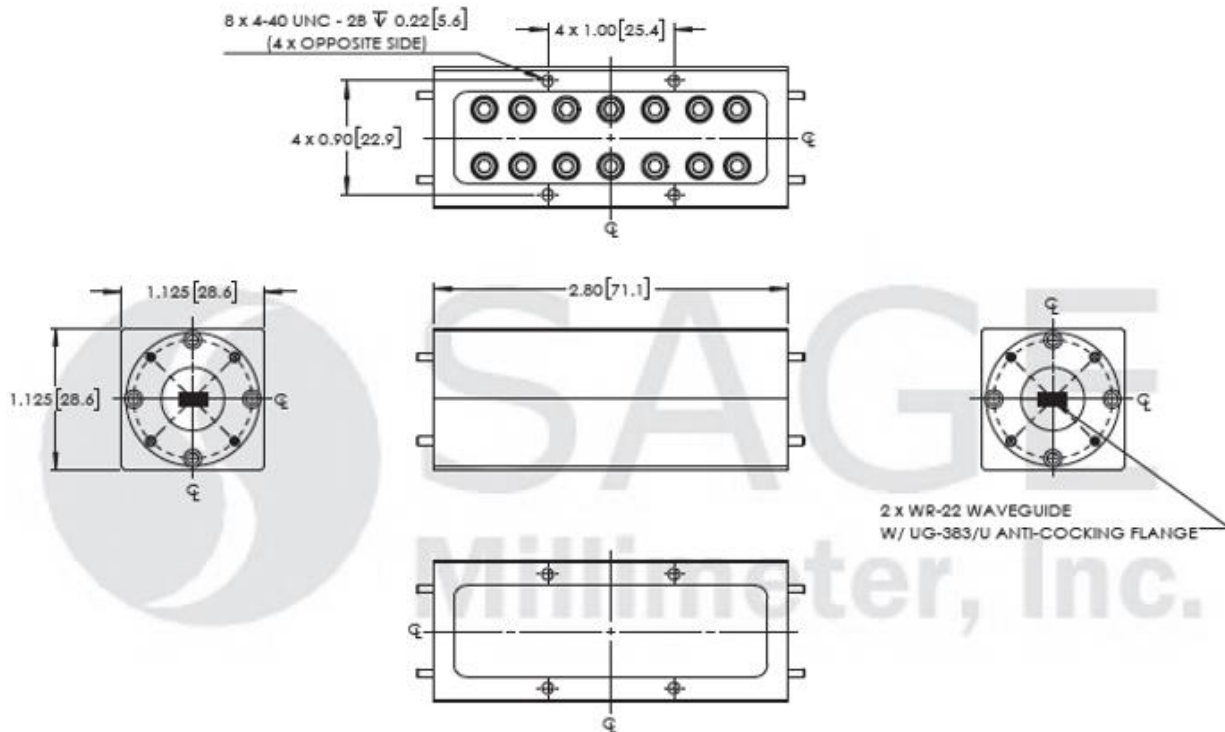


Q Band Waveguide, Lowpass Filter, 30 to 45 GHz

Typical Insertion Loss & Return Loss vs. Frequency



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



www.sagemillimeter.com | 3043 Kashiwa Street, Torrance, CA 90505
Phone: 424-757-0168 | Fax: 424-757-0188 | Email: sales@sagemillimeter.com

Q Band Waveguide, Lowpass Filter, 30 to 45 GHz

Note:

- All data are presented using a limited sample lot. Actual data may vary unit to unit.
- All testing performed under +25 °C case temperature.
- SAGE Millimeter, Inc. reserves the right to change the information presented without notice.

Caution:

- Any foreign objects in the waveguide will cause performance degradation and possible device damage.

