

SWF-60366340-19-L1

U-Band Waveguide, Lowpass Filter, 36 to 60 GHz

SWF-60366340-19-L1 is an U band waveguide lowpass filter with a passband frequency from 36 to 60 GHz and a rejection frequency 68 to 120 GHz. Due to the waveguide cut off nature, the low side of the filter has rejection range of DC to 30 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.



Electrical Specifications:

Parameter	Minimum	Typical	Maximum
Passband Frequency	36 GHz		60 GHz
Passband Insertion Loss		1.5 dB	
Rejection Frequency, Low Side	DC		30 GHz
Rejection Frequency, High Side	68 GHz		120 GHz
Rejection		40 dB	
Passband Return Loss		14 dB	
Power Handling			100 W (CW)
Specification Temperature		+25°C	
Operating Temperature	-40°C		+85°C

Mechanical Specifications:

Item	Specification
Waveguide	WR-19 Waveguide with UG-383/U-M Anti-Cocking Flange
Material	Brass
Finish	Gold Plated
Size	2.00" (L) x 1.13" (W) x 1.13" (H)
Outline	WF-LU-A

ECCN

EAR99

FEATURES

- Low Insertion Loss
- High Rejection

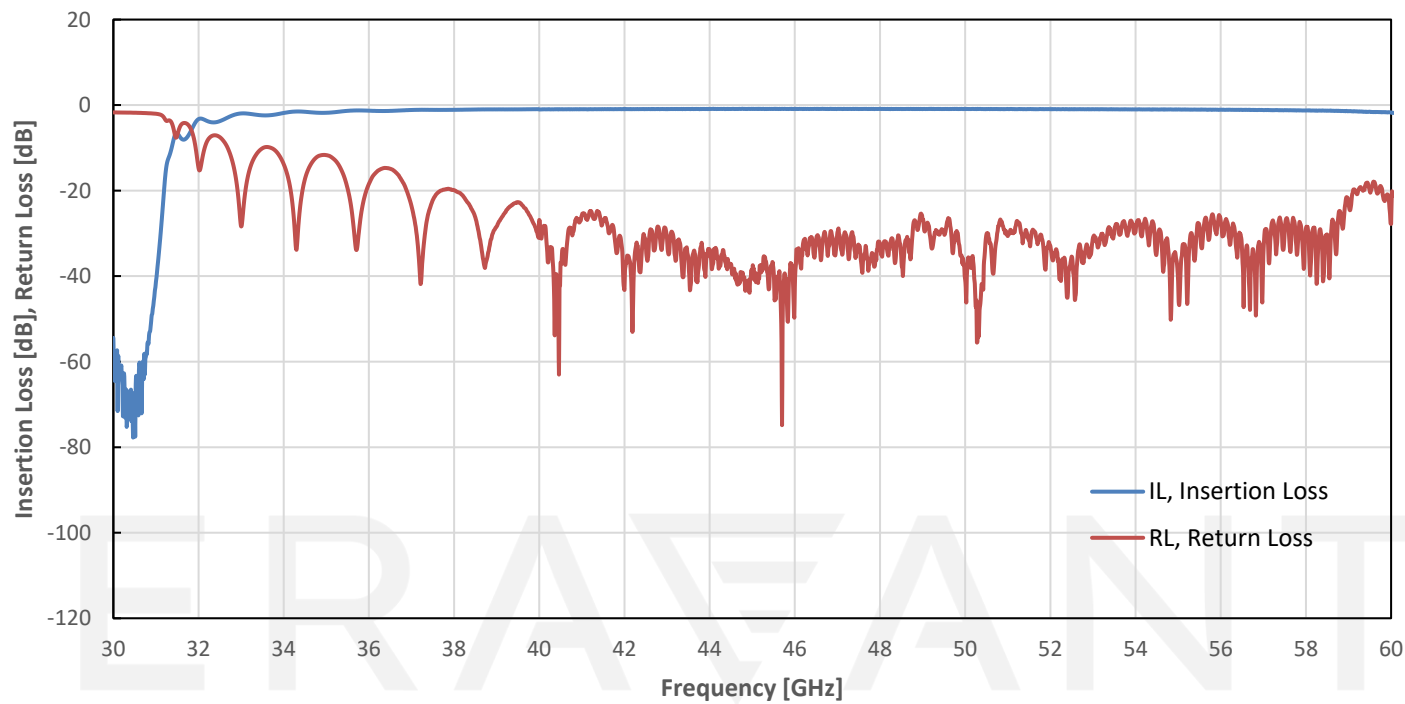
APPLICATIONS

- IEEE 802.11ad WiGig Systems
- Test Labs
- Instrumentations
- Sub-assemblies

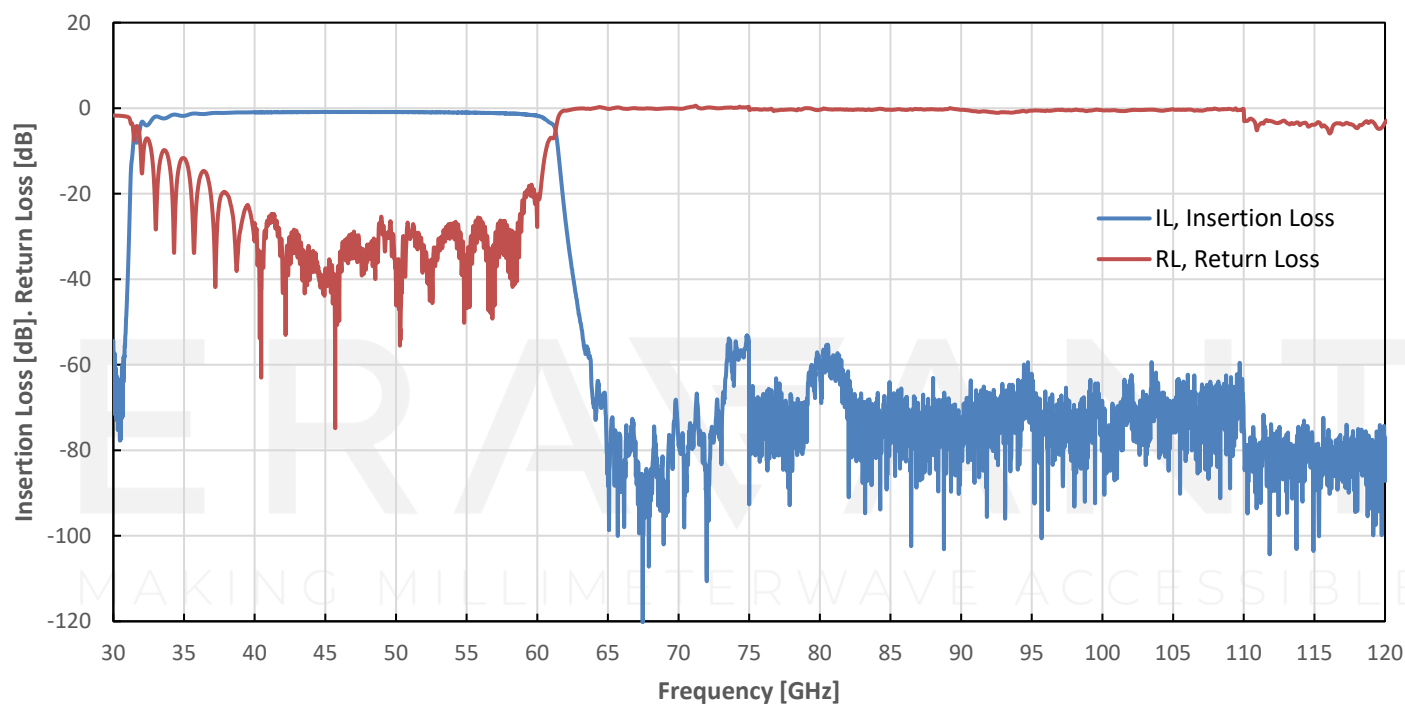
SUPPLEMENTAL DETAILS



Typical Performance Vs Frequency

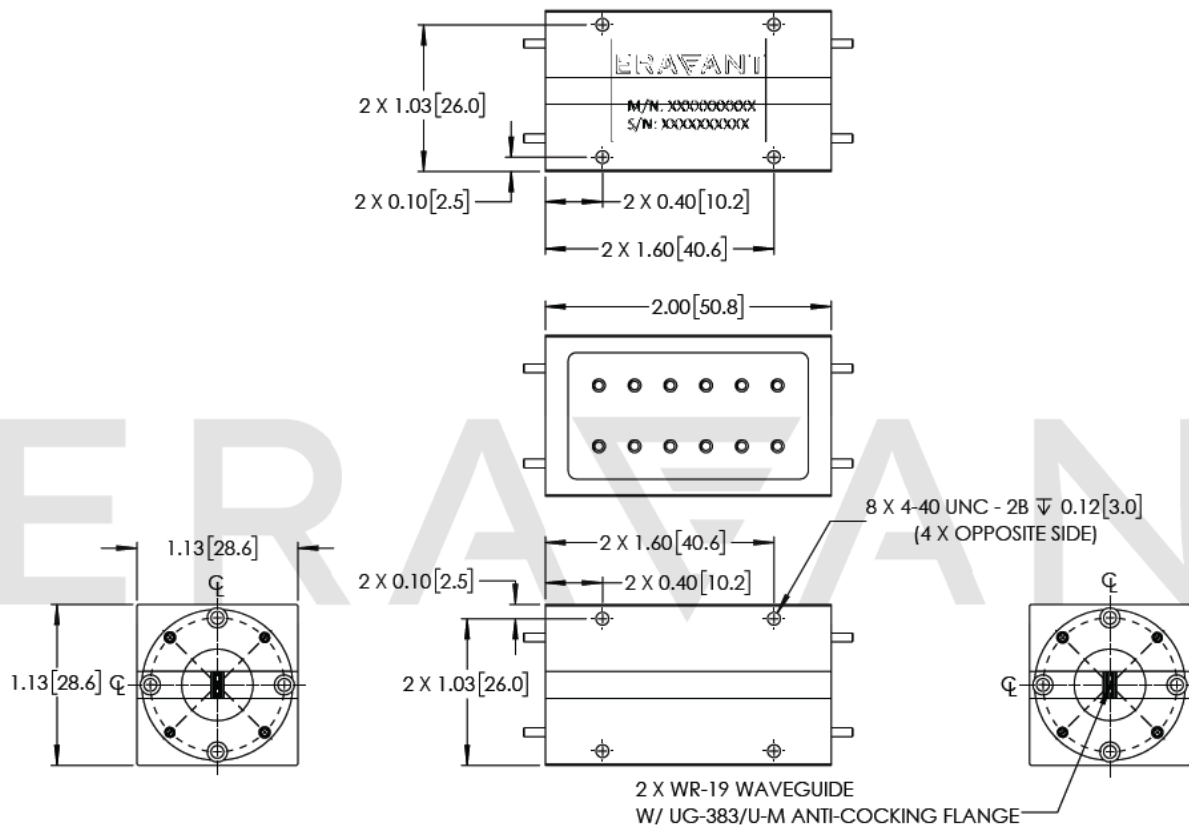


Typical Rejection Vs Frequency



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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.
- 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.