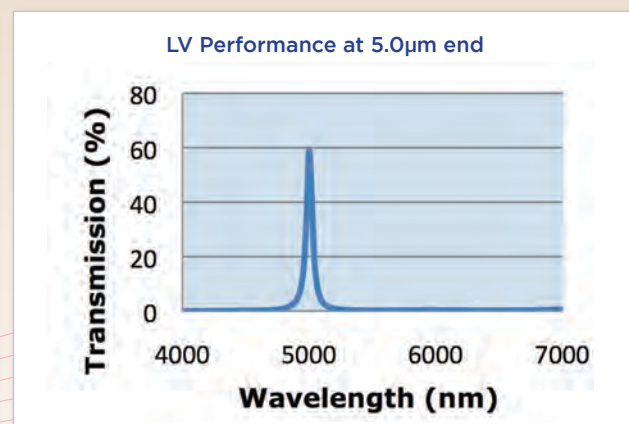
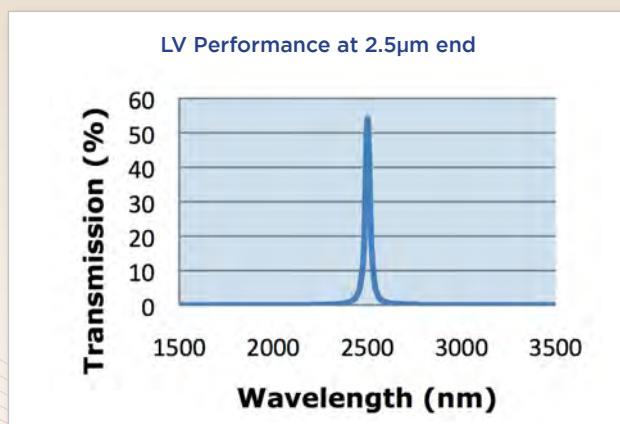
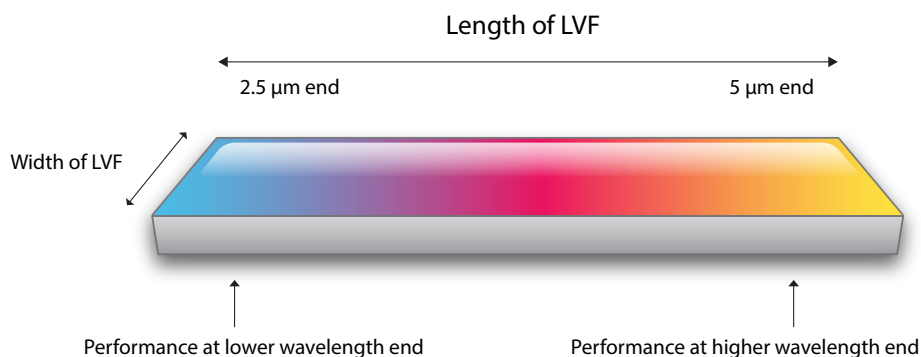


INFRA-RED LINEAR VARIABLE FILTERS

- Our Infra-Red Linear Variable Filters (LVF) are narrow band filters where the centre wavelength changes depending on the distance along its length
- We have stock LVF's covering the following ranges, 0.9-1.7 μm , 1.3-2.5 μm and 2.5-5.0 μm , these present an excellent way of 'tasting' the technology for a low cost.
- We also manufacture custom LVF's

The diagram shows the performance 'end-to-end' of a 2.5 μm -5.0 μm LVF



Note that change is continuous from one end to the other

FEATURES OF OUR GENERATION 1 AND 2 LVF'S

Generation 1

- 3 Ranges covered, 0.9-1.7 μm , 1.3-2.5 μm and 2.5-5.0 μm
- Width/FWHM = 2% x Centre Wavelength
- Blocking greater than OD 2.5 average outside passband

Generation 2

- 2 Ranges covered, 0.9-1.7 μm , 1.3-2.5 μm
- Width/FWHM = 1% x Centre Wavelength
- Blocking greater than OD 3.5 average outside passband
- Specifically for systems where higher signal to noise ratio is critical

data sheet

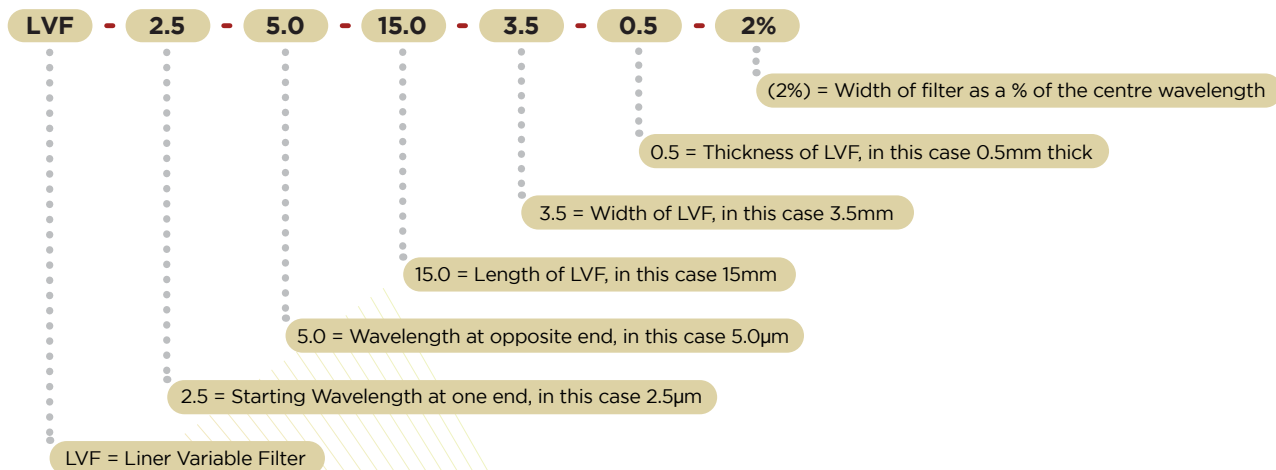


INFRA-RED LINEAR VARIABLE FILTERS (Cont)

LVF TYPE	WIDTH OR FWHM	GEN 1	GEN 2	VORTEX PART NUMBER
0.9-1.7µm	2%	✓		0.9-1.7-15.0-3.5-0.5 (2%)
1.3-2.5µm	2%	✓		1.3-2.5-15.0-3.5-0.5 (2%)
2.5-5.0µm	2%	✓		2.5-5.0-15.0-3.5-0.5 (2%)
0.9-1.7µm	1%		✓	0.9-1.7-15.0-3.5-0.5 (1%)
1.3-2.5µm	1%		✓	0.9-1.7-15.0-3.5-0.5 (1%)

All of the above can be bought on line from our web-shop, www.vortexopticalcoatings.co.uk.

LVF PART NUMBERS EXPLAINED



ENVIRONMENTAL SPECIFICATION

Adhesion	MIL-C-48497A	Para 4.5.3.1
Humidity	MIL-C-48497A	Para 4.5.3.2
Mild Abrasion	MIL-C-48497A	Para 4.5.3.3
Severe Abrasion	MIL-C-48497A	Para 4.5.5.1
Cleanability	MIL-C-48497A	Para 4.5.4.2
Water Solubility	MIL-C-48497A	Para 4.5.5.3



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