

# Linear Variable Long-Wave-Pass Filter

The coating thickness varies along the filter, so the long-wave-pass cut-off wavelength changes gradually across its length. Commonly used to cut off higher-order grating diffraction, placed in front of the CCD of a fibre-optic spectrometer as a continuously variable order-sorting filter. The quartz substrate is coated by ion sputtering for minimum autofluorescence and a high laser damage threshold.

## Specification

| Parameter       | Value                                                                                                             |
|-----------------|-------------------------------------------------------------------------------------------------------------------|
| Standard size   | 41.4 mm × 9.5 mm × 1 mm                                                                                           |
| Substrate       | Quartz                                                                                                            |
| Coating process | Ion sputtering                                                                                                    |
| Typical use     | Continuously variable order-sorting filter in front of the line-scan detector (CCD) of a fibre-optic spectrometer |