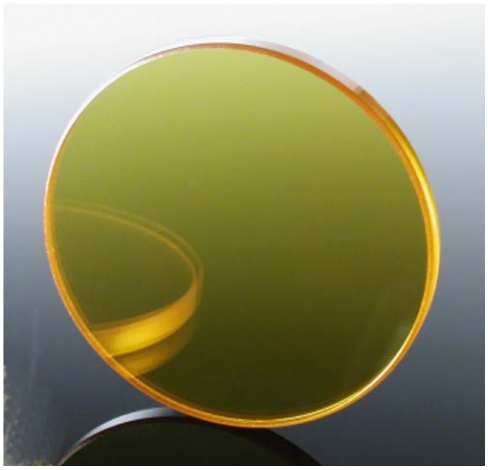
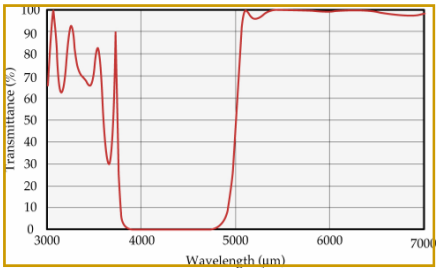
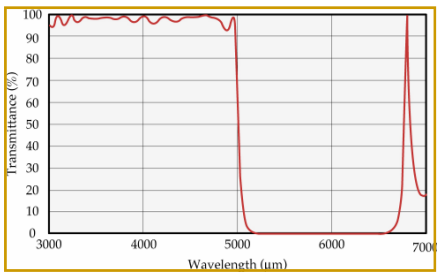
Long & Short Pass Filters for the Infra-red



Long-pass and short-pass filters are useful for defining spectral regions or as dichroic beamsplitters.

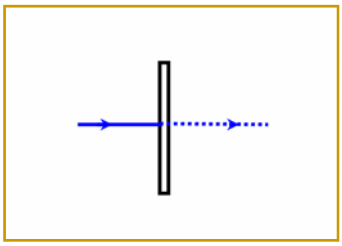
These are thin film filters deposited onto Zinc Seleninde, Germanium or Calcium Fluoride substrates. They are arranged to have a very sharp cut-off. However, the high reflection region is limited so it is important to specify clearly the rejection wavelength range required. Normally high reflection and high transmission wavelengths should be separated by at least 250nm for effective use in the infra-red.





Cut-off points can be selected in the range 4 to 10 µm in 0.5µm increments.

These filters are circular in shape. Diameters are: 25.4 and 50.8 mm (1" and 2").



Thickness is 2 mm for the 25.4mm diameter filters and 4 mm for the 50.8 mm filters.

Typical Specifications	
Material:	ZnSe, Ge, CaF2
Surface flatness:	λ/20 @ 10.6 um
Surface quality:	40/20
Centration:	< 3 arcmin
Diameter:	+0.0 / -0.2 mm
Thickness:	± 0.25 mm
Cut-off:	50% of peack transmittance
Accuracy:	± 3% of w avelength
Clear aperture:	> 85% of diameter
Pass band:	Tave > 90% at 0° or >85% at 45°
Rejection band:	Rave > 99.5% at 0° or > 99% at 45°

To request a quote or to order, please specify:

Quantity — Substrate Material — Diameter — Long Pass or Short Pass — Cut-off Wavelength

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For a quotation — please phone, fax or email us with details of your requirements.