

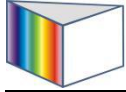
Infrared Filters

Hangzhou Shalom EO supplies the **IR optical filters** and mid-ir band-pass filters. We provide you with the highest quality IR Bandpass Filter, IR Edge Filter [Shortpass Filter (SP), Longpass Filter (LP)]etc. which can be used in IR Thermal Imaging & Thermal Sensing, IR Thermography, IR light Emitters & Detectors etc, at competitive prices. These filters are made using IR substrates such as silicon, sapphire, IR Quartz and germanium etc. with thin films of material that have differing refractive indices and thickness. The filters are used to isolate, for example, emission lines from a source or fluorescent from background. Laser lines can be isolated to maximize the signal relative to noise ratio.



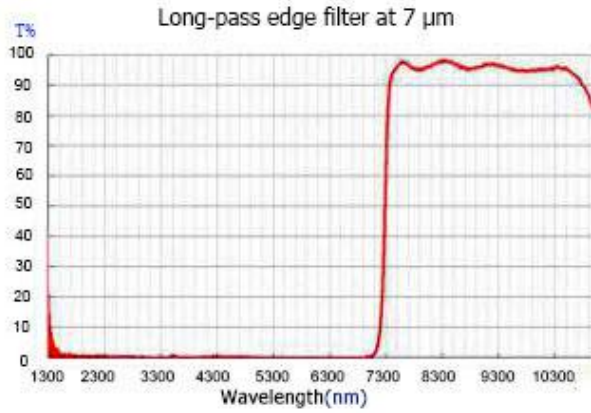
Various types of the materials are used as filter substrates:

- BK-7
- Calcium Fluoride (CaF₂)
- Fused Silica
- Germanium (Ge)
- Sapphire
- Magnesium Fluoride (MgF₂)
- Silicon (Si)
- Zinc Selenide (ZnSe)
- Zinc Sulfide (ZnS)
- Or as provided by the customer and more

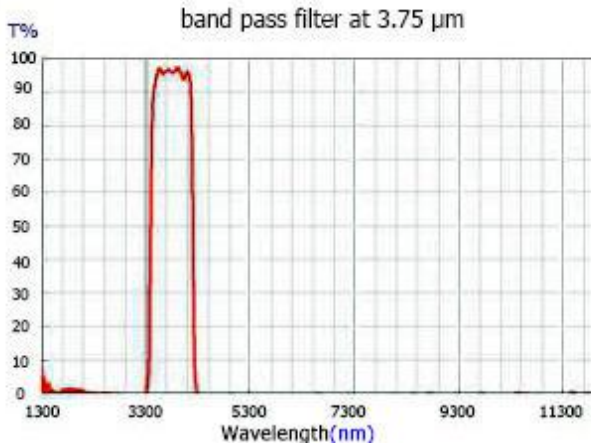


Here is some example coating curve of our Infrared filters.

1. Long-pass edge filter at 7 μ m



2. band pass filter at 3.75 μ m



3. Narrow band pass filter at 4.26 μ m

