

## Blue Filter

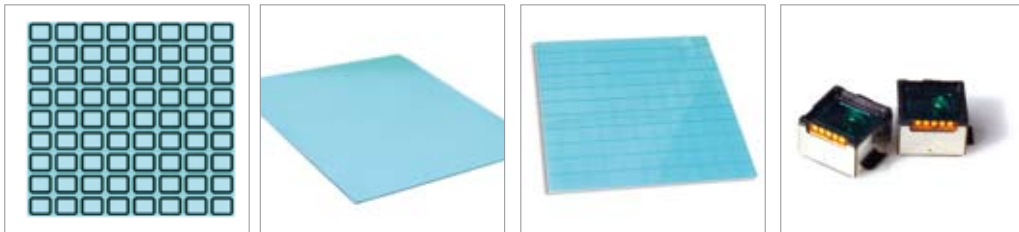
Blue Filter has a high transmission rate specifically for the blue through green regions and a steep slope in the red region. Generally Borosilicate, Silica series glass transmits the light uniformly in invisible/near infrared wavelength range, whereas blue glass absorbs the light in near infrared wavelength range.

It is generally used as a cut filter for near infrared wavelengths. Reflective IR cutoff filter shows color deviation in center and outside in low color temperature environment by transmission variation in incident angle of light source while blue glass improves it.

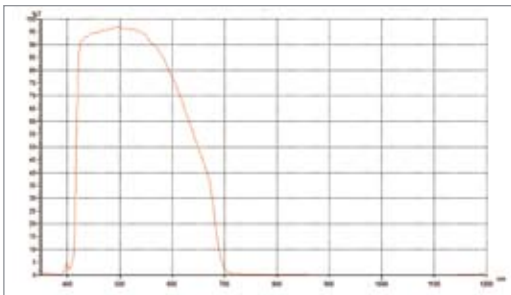
Application : Mobile Phone, Digital Camera, CCTV, Automobile, Black Box

Thickness : 0.21T, 0.25T, 0.3T

Thickness can be adjusted flexibly upon customer's request.

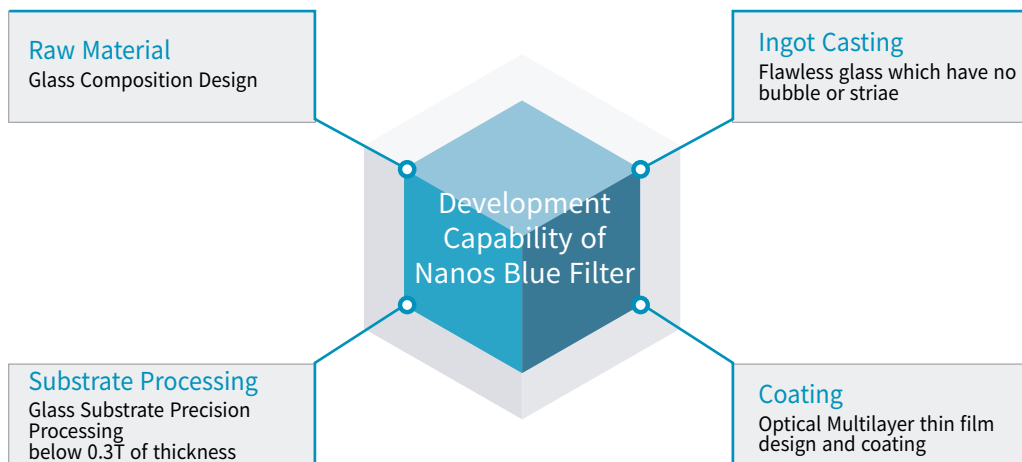


### Optical Transmittance Graph



### Types of Blue Filter

Thickness(mm)	Model	Spec. (T50% Off-slope)
0.3T	19M	636 ± 5nm
	19L	648 ± 5nm
	19J	660 ± 5nm
0.25T	25E	648 ± 5nm
	25S	660 ± 5nm
0.21T	21C	640 ± 5nm
	21E	648 ± 5nm



One-stop solution to gain cost competitiveness and meet the needs of customers



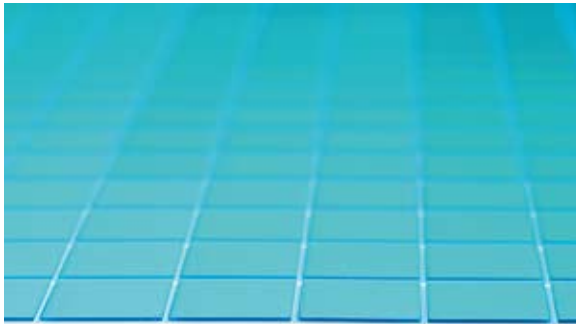
## Absorptive Type Film IR Cut Filter

Film IR Cut Filter is using special type film substrate which has same optical characteristic of absorptive type IR Filter. (Blue Glass)

Film IR Cut Filter has low thickness of 0.11mm which enables variety of shape processing and by it's material nature it has a good fracture strength property compared to glass filter avoids damage of glass type filters.

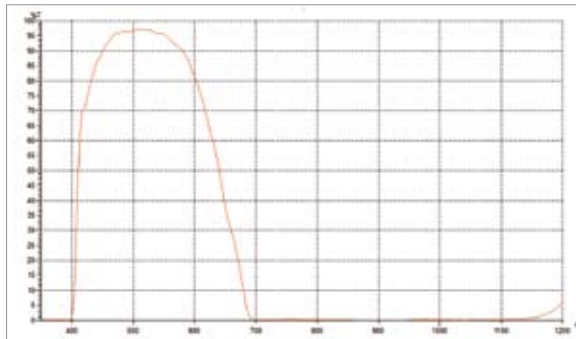
Application : Mobile Phone, Digital Camera, CCTV

Thickness : 0.11mm



Black masking process is also possible upon customer's request

### Optical Transmittance Graph



#	Description	Specification
1	Average transmission, 350nm< $\lambda$ ≤395nm	≤2%
2	T50% at On Slope	415±10nm
3	Average transmission in passband, 465nm< $\lambda$ ≤570nm	≥90%
4	Minimum transmission in passband, 465nm< $\lambda$ ≤570nm	≥85%
5	Wavelength of 50% transmission in red region	648±5nm
6	Absolute transmission 725nm< $\lambda$ ≤1100nm	≤1.5%
7	Absolute transmission 1100nm< $\lambda$ ≤1200nm	≤5%

## Reflective Type IR Cut Filter

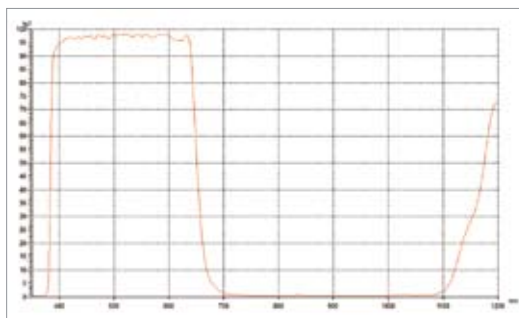
Infrared (IR) cut filters are used with color CCD or CMOS image sensor to produce accurate color images.

IR cutoff filter blocks transmission of infrared rays while passing the visible rays.

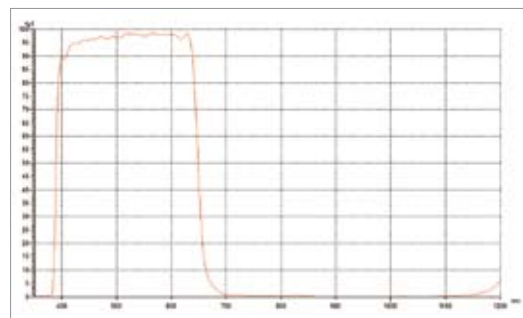
Application : Mobile Phone, Digital Camera, CCTV, Automobile, Black Box



Normal Type IR Cut Filter



Hybrid Type IR Cut Filter



Thickness : 0.145mm, 0.21mm, 0.3mm

Optical Specification can be adjusted flexibly upon customer's request.



## Special Type IR Filter (Band Pass Filter)

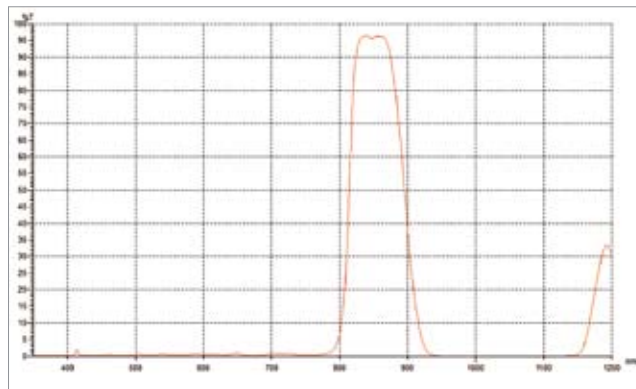
Special Type IR Filter simultaneously transmits Visible Rays and Near Infrared Rays of specific area which enables capturing images in special circumstances.

Application : Infrared Imaging Devices, CCTV, Sensor Camera, Medical Equipment, Optical Finger Mouse, Black Box

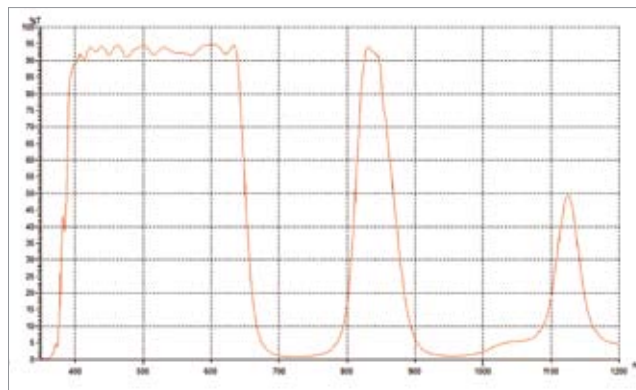
Thickness : 0.145mm, 0.21mm, 0.3mm

### Optical Transmittance Graph

IR Band Pass Filter



Dual Band Pass Filter



Optical Specification can be adjusted flexibly upon customer's request.