

Colored Glass Filters

CeNing Optics provide a variety of colored glass filters covering the UV, visible and near-infrared wavelength regions. These filters serve as bandpass, broadband, or long-wave pass filters.

General Specifications

Material	Schott , Hoya colored glass or equivalent
Dimension tolerance	±0.15mm
Parallelism	3 arcmin
Surface flatness	$\lambda/2$ per 25mm
Surface quality	60-40 S/D
Clear aperture	>85%
Chamfers	0.25x45deg

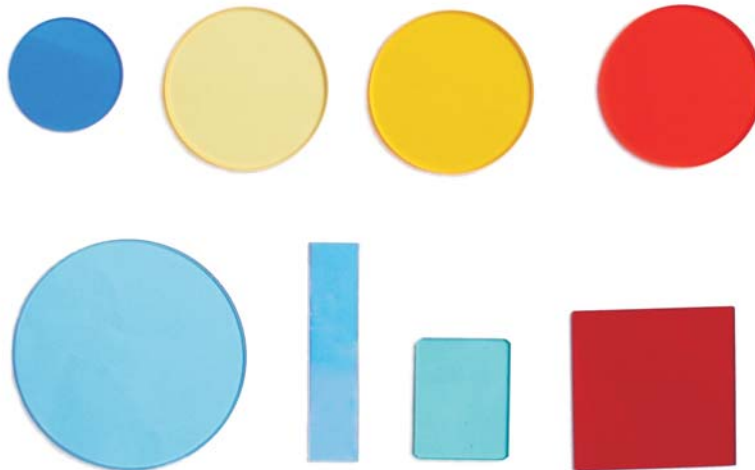
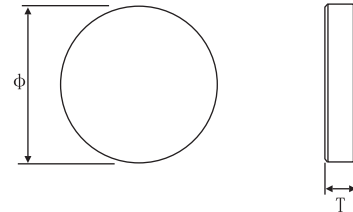
Typical Diameter(mm)

Ø5.0	Ø10.0	Ø12.7	Ø15.0	Ø20.0
Ø25.4	Ø30.0	Ø38.1	Ø50.8	Ø76.2

Typical Thickness(mm)

0.5	1.0	1.5	2.0	3.0
4.0	5.0			

other sizes and shapes are available.



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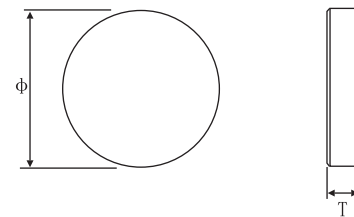
Narrowband Interference Filters

Narrow band pass interference filters only allow a desired narrow range of wavelength passed through, while simultaneously blocking both longer and shorter wavelengths.

FWHM means Full width at half-maximum

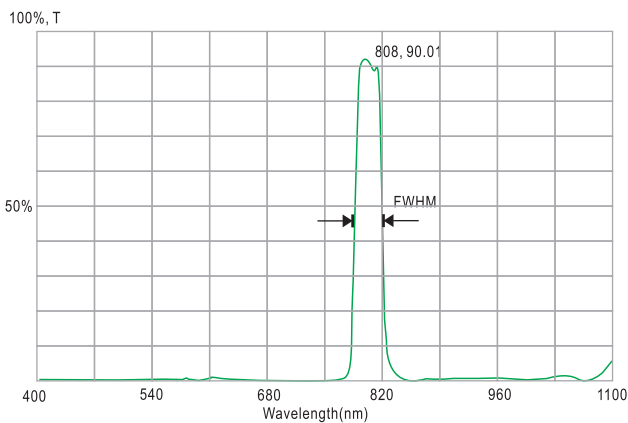
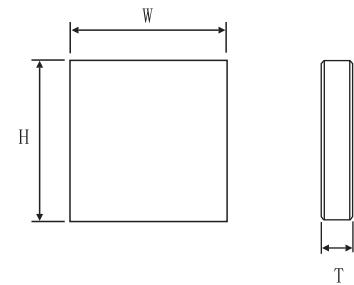
General Specifications

Material	Bk7
Dimension tolerance	$\pm 0.1\text{mm}$
Parallelism	3 arcmin
Flatness	$\lambda/4 @ 633\text{nm}$
Surface quality	60-40 S/D



Transmission example:

Angle of incidence:	0°
Transmission _(avg) :	$T > 85\%$
FWHM:	10nm
Blocking:	$T < 1\%$



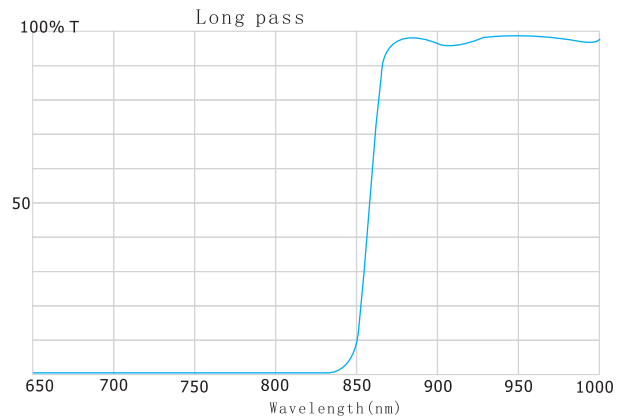
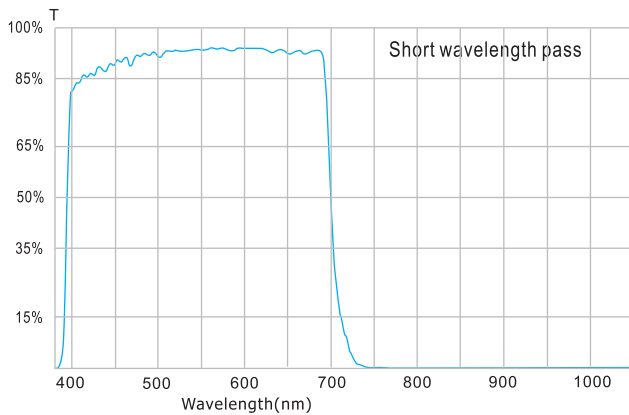
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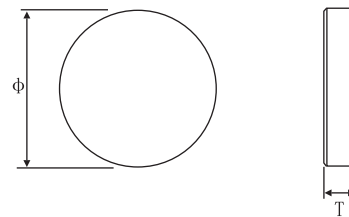
Bandpass Filters

Band pass filter plate are divided into short-pass and long-pass filters according to whether they transmit below or above the transition wavelength. The transition wavelength or cut-on/off wavelength is the wavelength at which the transmission is 50% of its peak value.



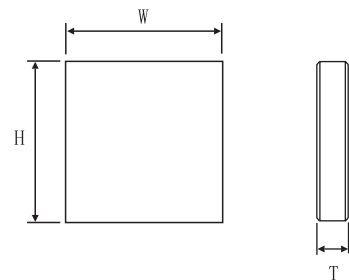
General Specifications

Material	Float Glass, or Bk7
Dimension tolerance	$\pm 0.1\text{mm}$
Parallelism	3 arcmin
Flatness	$\lambda/2$ @633nm
Surface quality	80-50 S/D



Transmission example:

Angle of incidence	0°
Transmission _(avg)	<1% @ 400--480nm
Transmission _(avg)	=50% @ $510 \pm 10\text{nm}$
Transmission _(avg)	>87% @ 530--1000nm



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