

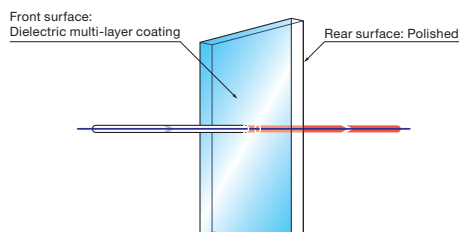
The dielectric multi-layer coating offers a high optical performance.

Provides a wide range of visible color quality green, blue, red, yellow, magenta and cyan.

- The switching from reflecting and transmitting is steep; it is usable as a wavelength separation filter.
- Easy to be used as a variable wavelength filter by changing the angle of incident.
- Able to choose from a range of the six fundamental colors, fits perfectly for color vision experiments.

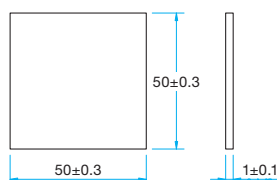


Schematic



Outline Drawing

(in mm)



Specifications

Material	B270® (SuperWhite Glass) or BK7
Incident angle	0°
Wavelength Range	400 – 700nm
Surface Quality (Scratch-Dig)	60–40
Clear aperture	90% of external dimension of the square inscription circle

Guide

- ▶ B270® is a registered trademark of SCHOTT AG Inc.
- ▶ Different size, wavelength and deviation ratio not mentioned on-line or in our catalog are available as custom products upon request.
- ▶ For a suitable filter holder, please contact our Sales Division.

Attention

- ▶ Do not use filter with high power laser and high energy pulsed laser. We can provide pulse laser use dichroic filters, please contact our Sales Division.
- ▶ If the reflecting light of the filter is used, the transmittance and the reflectance value may change in accordance to the angle of incident.
- ▶ The color may appear different than expected at 45 degrees angle of incidence, therefore to obtain the sharp color, please use it at 0 degree.

Specifications

Part Number	High transmittance range (normal incident) [nm]	Transmittance (normal incident) [%]	Cutoff range (normal incident) [nm]	Transmittance of cutoff range (normal incident) [%]	Wavelength at 50% [nm]
DIF-50S-BLE	400 – 470	>85	530 – 700	<1	495±10
DIF-50S-GRE	515 – 560	>85	400 – 460 630 – 700	<1	505±10 575±10
DIF-50S-RED	640 – 700	>85	400 – 565	<1	610±10
DIF-50S-YEL	550 – 700	>85	410 – 475	<1	520±10
DIF-50S-MAG	420 – 470 620 – 700	>80 >85	520 – 565	<1	495±10 605±10
DIF-50S-CYA	400 – 560	>85	640 – 700	<1	590±10

Compatible Optic Mounts

FHS-50 / CHA-60

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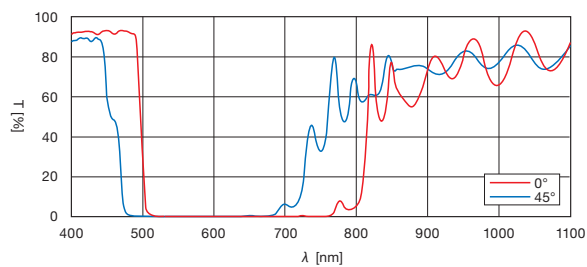
Dielectric Filters

Etalon

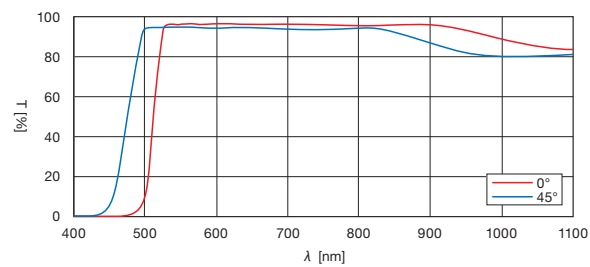
Typical Transmittance Data

T: Transmission

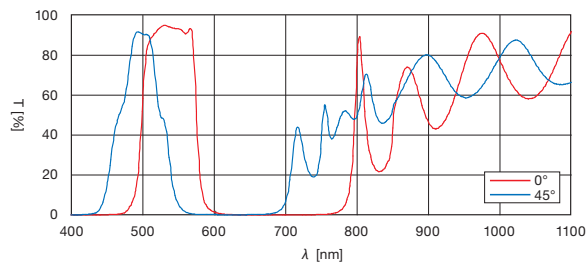
DIF-BLE



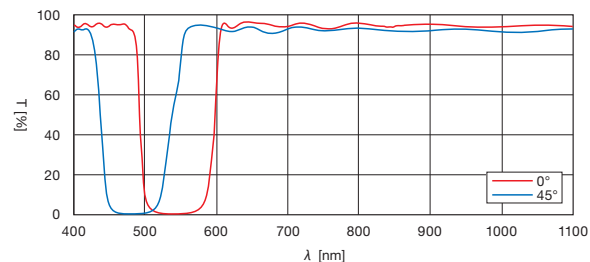
DIF-YEL



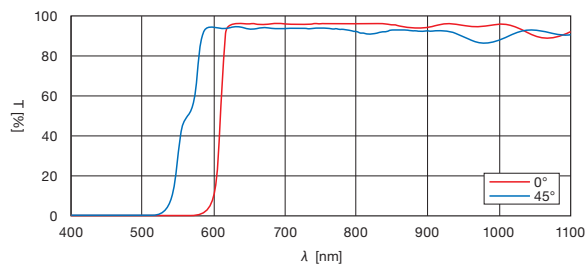
DIF-GRE



DIF-MAG



DIF-RED



DIF-CYA

