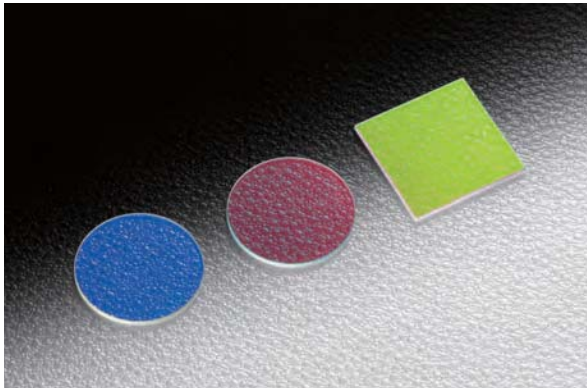


Mirrors of 3 fundamentals colors RGB for use in color separation. No absorption effects because of the dielectric optical coating, the transmitting and reflecting are applicable. For light transmitting, choose 2 colors out of the RGB dichroic mirror for color separation. (For example: DIM RED + DIM GRE = Reflect red, reflect green, and transmit blue)

- 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.
- Use the 3 fundamentals colors RGB together, a white color can be obtained.



Specifications	
Material	B270® (SuperWhite Glass) or BK7
Incident angle	45°
Wavelength Range	400 – 700nm
Surface Quality (Scratch-Dig)	60–40
Clear aperture	90% of external dimension of the square inscription circle

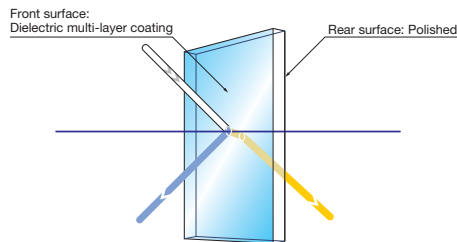
### Guide

- ▶ 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

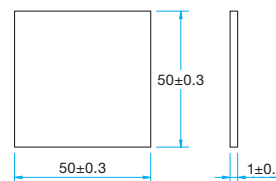
- ▶ Do not use it with high power laser and high energy pulsed laser. We can provide pulse laser use dichroic filters, please contact our Sales Division.
- ▶ Use the RGB color at 45 degrees to obtain the correct color separation.

### Schematic



### Outline Drawing

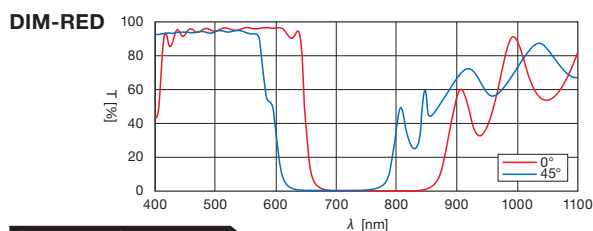
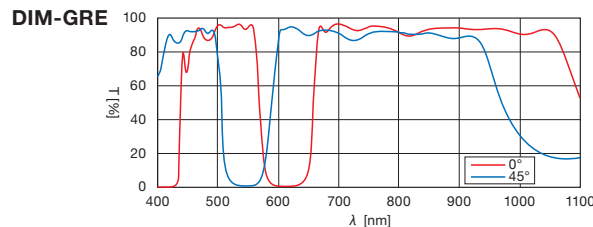
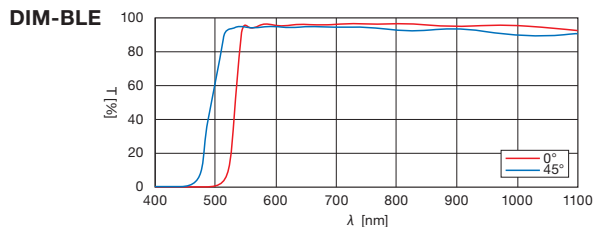
(in mm)



Specifications					
Part Number	High transmittance range (45 degrees incident) [nm]	Transmittance (45 degrees incident) [%]	Cutoff range (45 degrees incident) [nm]	Transmittance of cutoff range (45 degrees incident) [%]	Wavelength at 50% [nm]
<b>DIM-50S-BLE</b>	535 – 700	>85	400 – 450	<5	490±10
<b>DIM-50S-GRE</b>	420 – 470 620 – 700	>80 >80	510 – 550	<5	500±10 580±10
<b>DIM-50S-RED</b>	420 – 550	>85	640 – 700	<5	590±10

### Typical Transmittance Data

T: Transmission



### Compatible Optic Mounts

FHS-50 / CHA-60

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Colored Glass Filters

Dielectric Filters

Etalon