

# Sheet Polarizers | SP



By the use of dichroic dye film, a good linear polarization can be obtained in a wide range. The sheet polarizer can be used in the basic polarization experiments which does not require the high precision, and for the light intensity adjustment.

- Since the polarizing film is sandwiched between the protective glass plate, its is hardly get scratched, and dirt can be wiped off.
- Because it is mounted in the frame, the handling of the optics and mounting to the holder is easy.
- There are three teepees in wavelength range, for Visible, for UV and for Near Infrared.
- Since the anti-reflection film is applied on both sides, you can reduce stray light and back reflection to the light source.



### Specifications

Material	Dichroic dye film Sheet glass (Quartz glass for NSPFU) Film laminated between optical glasses
Coating	Anti-reflection coating on both surfaces
Material of metal frame	Aluminum Finishing: Black anodized

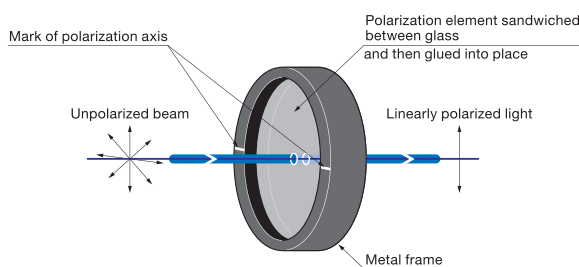
### Guide

- ▶ A sheet polarizer other than the size listed in catalog, or without the frame are also available.
- ▶ If there is a demand in transmittance, extinction ratio and wavelength range, please contact our International Sales Division.
- ▶ Glan Thompson prism (GTPP) with high transmittance and high extinction ratio are also available. [Reference](#) C087

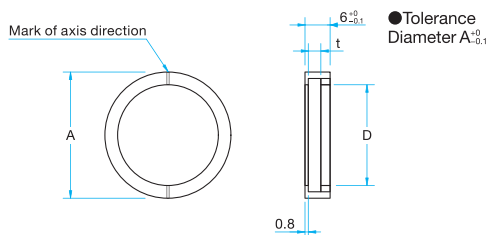
### Attention

- ▶ Dichroic dye polarizing film has the amount of light loss due to absorption in addition to polarization characteristics.
- ▶ Because the product is made of a heat-sensitive film, do not use it near high power lasers, or high temperature light source.
- ▶ The extinction ratio varies by wavelength. The violet light may be observed in some extinction condition.
- ▶ The marks on the surface of the frame are perpendicular to the polarization direction of the output linearly polarized beam.

### Schematic



### Outline Drawing (in mm)



### 400 – 700nm

Part Number	Wavelength Range [nm]	Diameter of frame A [mm]	Clear aperture D [mm]	Thickness t [mm]
SP-30C-32	400 – 700	φ30	φ24	3
SP-50C-32	400 – 700	φ50	φ44	3

### 320 – 400nm

Part Number	Wavelength Range [nm]	Diameter of frame A [mm]	Clear aperture D [mm]	Thickness t [mm]
SP-3240-30C	320 – 400	φ30	φ24	2.4

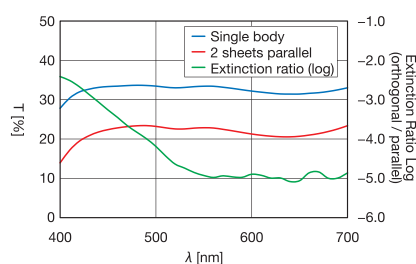
### 760 – 2000nm

Part Number	Wavelength Range [nm]	Diameter of frame A [mm]	Clear aperture D [mm]	Thickness t [mm]
SP-76200-30C-26	760 – 2000	φ30	φ24	3

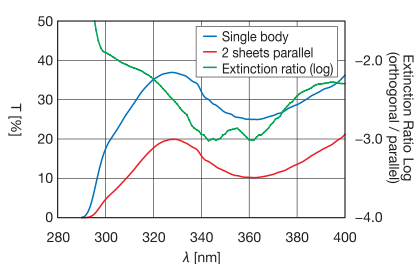
### Typical Transmittance Data

T: Transmission

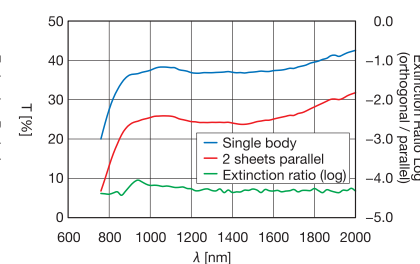
#### SP-32



#### SP



#### SP



### Compatible Optic Mounts

NPH-30-ARS / NPH-50-ARS / NPH-30-ARS / NPH-50-ARS

Application Systems

Machine Vision

Manual Positions

Motion Control Products

Optical & Mirror Holder

FA Parts

Measurement & Control

FA Electrical Parts

Tool & Measure

Cleanroom & AntiStatic

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Mirrors

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Prisms

Substrates & Windows

Holder & Vibration isolator