Schematic



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 do not require high precision, and adjustment of the light intensity.

- Since the polarizing film is sandwiched between the protective glass plate, it hardly gets scratched, and dirt can be wiped off.
- Because it is mounted in the frame, the handling of the optics and mounting in the holder is easy.
- There are products offer for three wavelength ranges, Visible, UV and Near Infrared.

Polarization element sandwiched

• Since the anti-reflection film is applied on both sides the stray light and back reflection to the light source is reduced.



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Specifications Dicrhoic dye film Material 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 on-line or in our catalog, or without the frame are also available.
- If there is a request for specific transmittance, extinction ratio or wavelength range, please contact our Sales Division.
- ► Glan Thompson prism (GTPC) with high transmittance and high extinction ratio are also available.

Attention

- ▶ A change in the incident angle may also change the extinction ratio of the linearly polarized transmitted light.
- ▶ Separation angle will vary depending on the wavelength. Please confirm the wavelength characteristic graph for separation angle.
- ▶ Because of natural calcite crystals, there are individual differences, and variations in quality.

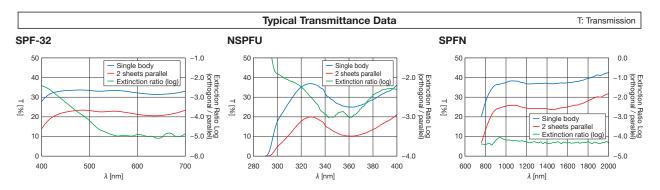
Mark of polarization axis	between glass
Unpolarized beam	and then glued into place Linearly polarized light Metal frame CAD CAD
Outline Drawing	(in mm)
Mark of axis direction	$\begin{array}{c} \bullet \bullet$

		OAD OAL
Outline Drawing		(in mm)
Mark of axis direction	6 · 6 · 6 · 1	$lacktriangle$ Tolerance Diameter $\phi A^{\circ,0}_{0.1}$

400 – 700nm				
Part Number	Wavelength Range [nm]	Diameter of frame φA [mm]	Clear aperture ϕD [mm]	Thcikness t [mm]
SPF-30C-32	400 – 700	φ30	φ24	3
SPF-50C-32	400 – 700	φ50	φ44	3

320 – 400nm				
Part Number	Wavelength Range [nm]	Diameter of frame φA [mm]	Clear aperture ϕD [mm]	Thcikness t [mm]
NSPFU-30C	320 – 400	φ30	φ24	2.4

760 – 2000nm				
Part Number	Wavelength Range [nm]	Diameter of frame φA [mm]	Clear aperture ϕD [mm]	Thcikness t [mm]
SPFN-30C-26	760 – 2000	φ30	φ24	3



Compatible Optic Mounts

PH-30-ARS / PH-50-ARS / SPH-30-ARS / SPH-50-ARS

Application Systems

Optics & Optical Coatings

> Opto-Mechanics

Bases

Manual Stages

Actuators & Adjusters

Motoeized Stages

Light Sources & Laser Safety

Index

Guide

Mirrors

Beamsplitters

Polarizers

Lenses

Multi-Element Optics

Filters

Prisms

Substrates/Windows

Optical Data

Maintenance

Selection Guide Polarizing Beamsplitters

Waveplates

Polarizers