Schematic

Metal frame

It is a prism for separating the incident beam into two linearly polarized beams with orthogonal polarizing direction.

Used in the optical system of a phase-contrast microscope.

- Outgoing beam is emitted with deviation. In this case, the emitted beams are in opposite directions depending on the orientation of polarization.
- A single-layer anti-reflection coating has been applied on the surface of the Wollaston prism to proved higher transmittance.



Linearly polarized light (Level)

Single-layer anti-reflection coating

. Separation angle

Single-layer anti-reflection coating

polarized light (Perpendicular)

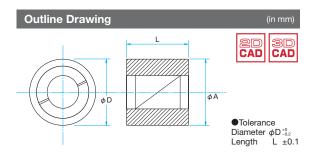
Specifications					
Material	α-BBO, Calcite				
Beam Deviation	<3"				
Transmitted wavefront distortion	λ/4				
Coating	MgF ₂ Single-layer anti-reflection coating				
Laser Damage Threshold	0.3J/cm ² (Pulse duration 10ns)				
Surface Quality (Scratch-Dig)	20–10				
Material of metal frame	Aluminum Finishing: Black anodized				

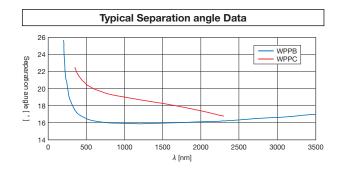
Guide

- ▶ Glan Thompson prism with wider acceptance angle (GTPB / GTPC) and Glan laser prism for high-power laser (GLPB / GLPC) are also
- If you need uncoated Glan Laser prism or anti-reflection coating with specific reflectance, please contact our Sales Division with your

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.





а-вво									
Part Number	Wavelength Range [nm]	Extinction ratio	Separation angle 190nm [°]	Separation angle 800nm [°]	Separation angle 3500nm [°]	φA [mm]	φD×L		
WPPB-06-14SN	190 – 3500	<5×10 ⁻⁶	27	16	17	φ6	15×14		
WPPB-08-16SN	190 – 3500	<5×10 ⁻⁶	27	16	17	φ8	25.4×16		
WPPB-10-18SN	190 – 3500	<5×10 ⁻⁶	27	16	17	φ10	25.4×18		
WPPB-15-23SN	190 – 3500	<5×10 ⁻⁶	27	16	17	φ15	30×23		
WPPB-20-28SN	190 – 3500	<5×10 ⁻⁶	27	16	17	φ20	38×28		

Calcite							
Part Number	Wavelength Range [nm]	Extinction ratio	Separation angle 350nm [°]	Separation angle 980nm [°]	Separation angle 2300nm [°]	φA [mm]	φD×L
WPPC-06-14SN	350 – 2300	<5×10 ⁻⁵	22.5	19	16.7	φ6	15×14
WPPC-08-16SN	350 – 2300	<5×10 ⁻⁵	22.5	19	16.7	φ8	25.4×16
WPPC-10-18SN	350 – 2300	<5×10 ⁻⁵	22.5	19	16.7	φ10	25.4×18
WPPC-15-23SN	350 – 2300	<5×10 ⁻⁵	22.5	19	16.7	φ15	30×23
WPPC-20-28SN	350 – 2300	<5×10 ⁻⁵	22.5	19	16.7	φ20	38×28

Compatible Optic Mounts

GTPC-PH30, -PH50 / GTPC-SPH30, -SPH50 / GTPC-ADP

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> Opto-Mechanics

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Waveplates **Polarizers**