

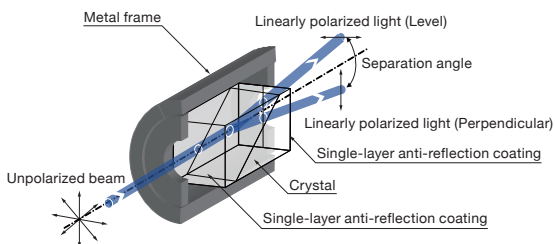
It is a prism for separating the incident beam into two linearly polarized beams with orthogonal polarizing direction.

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.

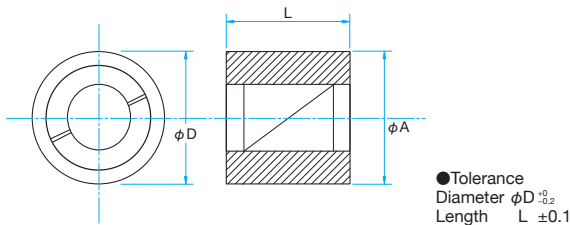


### Schematic



### Outline Drawing

(in mm)



### Specifications

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

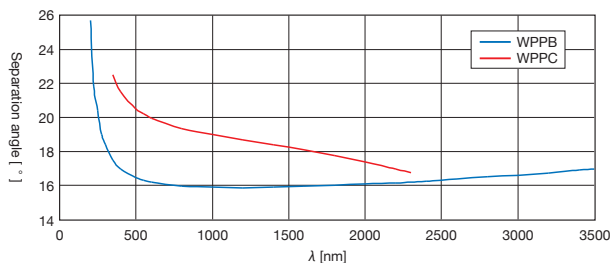
### Guide

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

### 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.

### Typical Separation angle Data



### α-BBO

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 <sup>-6</sup>	27	16	17	φ6	15×14
WPPB-08-16SN	190 – 3500	<5×10 <sup>-6</sup>	27	16	17	φ8	25.4×16
WPPB-10-18SN	190 – 3500	<5×10 <sup>-6</sup>	27	16	17	φ10	25.4×18
WPPB-15-23SN	190 – 3500	<5×10 <sup>-6</sup>	27	16	17	φ15	30×23
WPPB-20-28SN	190 – 3500	<5×10 <sup>-6</sup>	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 <sup>-5</sup>	22.5	19	16.7	φ6	15×14
WPPC-08-16SN	350 – 2300	<5×10 <sup>-5</sup>	22.5	19	16.7	φ8	25.4×16
WPPC-10-18SN	350 – 2300	<5×10 <sup>-5</sup>	22.5	19	16.7	φ10	25.4×18
WPPC-15-23SN	350 – 2300	<5×10 <sup>-5</sup>	22.5	19	16.7	φ15	30×23
WPPC-20-28SN	350 – 2300	<5×10 <sup>-5</sup>	22.5	19	16.7	φ20	38×28

### Compatible Optic Mounts

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