HOURS

Wollaston Prisms WPA/WPC

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Prisms

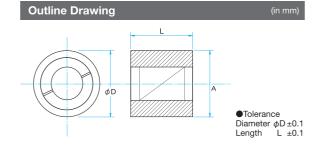
Substrates & Windows Holder & Vibration isolator It is a prism for separating the incident beam into two linearly polarized beams with orthogonal polarizing orientation.

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, a high transmittance is obtained.



Schematic Metal frame Linearly polarized light (Level) Linearly polarized light (Perpendicular) Single-layer anti-reflection coating Single-layer anti-reflection coating



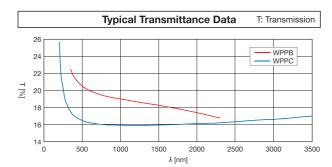
Specifications					
Material	α-BBO, Calcite				
Beam Deviation	<3"				
Surface Flatness	λ/4				
Coating	MgF ₂ Single-layer anti-reflection coating				
Laser Damage Threshold	0.3J/cm ² (Pulse duration 10ns)				
Surface Quality (Scratch-Dig)	20–10				
Material of metal frame	Aluminum Finishing: Black anodized				

Guide

- ► Glan Thompson prism with wider acceptance angle (GTPA/GTPP) and Glan laser prism for high-power laser (GLPA/GLPC) are also
- If you need uncoated Glan Laser prism or anti-reflection coating with specific reflectance, please contact our International Sales Division.
- About the dedicated holder of the Wollaston prism, please contact our International Sales Division.

Attention

- A change in the incident angle may also changes 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.



lpha-BBO										
Part Number	Wavelength Range [nm]	Extinction ratio	Separation angle 190nm [°]	Separation angle 800nm [°]	Separation angle 2300nm [°]	A [mm]	φD×L			
WPA-06-14SN	190 – 3500	<5×10 ⁻⁶	27	16	16	6	15×14			
WPA-08-16SN	190 – 3500	<5×10⁻6	27	16	16	8	25.4×16			
WPA-10-18SN	190 – 3500	<5×10⁻ ⁶	27	16	16	10	25.4×18			
WPA-15-23SN	190 – 3500	<5×10 ⁻⁶	27	16	16	15	30×23			
WPA-20-28SN	190 – 3500	<5×10 ⁻⁶	27	16	16	20	38×28			

Calcite										
Part Number	Wavelength Range [nm]	Extinction ratio	Separation angle 350nm [°]	Separation angle 980nm [°]	Separation angle 2300nm [°]	A [mm]	φD×L			
WPC-06-14SN	350 – 2300	<5×10 ⁻⁵	22.5	19	16.7	6	15×14			
WPC-08-16SN	350 – 2300	<5×10 ⁻⁵	22.5	19	16.7	8	25.4×16			
WPC-10-18SN	350 – 2300	<5×10 ⁻⁵	22.5	19	16.7	10	25.4×18			
WPC-15-23SN	350 – 2300	<5×10 ⁻⁵	22.5	19	16.7	15	30×23			
WPC-20-28SN	350 – 2300	<5×10 ⁻⁵	22.5	19	16.7	20	38×28			