Wollaston Polarizer

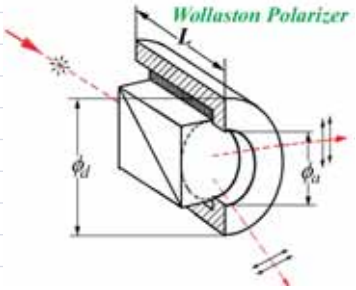
Wollaston Polarizer comprises two prisms of birefringent crystal cemented together. The ordinary ray in the first half of the prism becomes the extraordinary ray in the second half, and vice versa. Therefore, the two output beams in a Wollaston polarizer exit with a beam deviation from normal.

Advantages:

- Low Power Applications
- Wide Wavelength Range

Specification:

Material:	α-BBO, Calcite
Wavelength Range:	α-BBO: 190-3500 nm, Calcite: 350-2300 nm
Extinction Ratio:	α-BBO:<$5x10^{-6}$;Calcite:<$5x10^{-5}$
Parallelism:	<1 arc Min
Surface Quality:	20/10
Beam Deviation:	< 3 arc minutes
Wavefront Distortion:	λ/4@632.8nm
Damage Threshold:	>500 MW/cm^2
Coating:	Single MgF_2
Mount:	Black Anodized Aluminium



1. α-BBO Wollaston Polarizer

Part No.	Extinction Ratio	Separation Angle(°)	C.A. ϕa (mm)	O.D. ϕd (mm)	L±0.1 (mm)
WLP5-006	<$5x10^{-6}$	15°-27° 16°@800nm	6.0	15.0	14.0
WLP5-008			8.0	25.4	16.0
WLP5-010			10.0	25.4	18.0
WLP5-015			15.0	30.0	23.0

2. Calcite Wollaston Polarizer

Part No.	Extinction Ratio	Separation Angle(°)	C.A. ϕa (mm)	O.D. ϕd (mm)	L±0.1 (mm)
WLP6-006	<$5x10^{-5}$	16.7°-22.5° 19°@980nm	6.0	15.0	14.0
WLP6-008			8.0	25.4	16.0
WLP6-010			10.0	25.4	18.0
WLP6-015			15.0	30.0	23.0

3. Quartz Rochon Polarizer

Part No.	Extinction Ratio	Separation Angle(°)	C.A. ϕa (mm)	O.D. ϕd (mm)	L±0.1 (mm)
WLP8-006	<$5x10^{-5}$	1.0°-1.5° 1°@1064nm	6.0	15.0	36.0
WLP8-008			8.0	25.4	46.0
WLP8-010			10.0	25.4	28.0
WLP8-015			15.0	30.0	38.0

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