Rochon Polarizer

Polarizers

Rochon Polarizer is made of two birefringent material prisms cemented together, which is used in applications where good polarization selectivity is required across a large range of wavelengths. Rochon polarizer separates incident beam into ordinary ray and extrordinary ray like wollaston polarizer, but extraordinary ray is straight transmitted through, while ordinary is transmitted with a deviation angle.

Advantages:

- Wide Wavelength Range
- High UV Transmission



Specification:

Material:	α-BBO, Calcite	Rochon Polarizer
Wavelength Range:	α-BBO: 190-3500 nm, Calcite: 350-2300 nm	L.
Extinction Ratio:	α-BBO:<5x10 ⁻⁶ ;Calcite:<5x10 ⁻⁵	W
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	, a
Coating:	Single MgF ₂	7
Mount:	Black Anodized Aluminium	13 m M

1. α -BBO Rochon Polarizer

Part No.	Extinction Ratio	Separation Angle(°)	C.A. φa (mm)	O.D. φd (mm)	L±0.1 (mm)
RHP5-006	<5x10 ⁻⁶		6.0	15.0	14.0
RHP5-008		8.0°-14°	8.0	25.4	16.0
RHP5-010		8°@800nm	10.0	25.4	18.0
RHP5-015			15.0	30.0	23.0

2. Quartz Rochon Polarizer

Part No.	Extinction Ratio	Separation Angle(°)	C.A. φa (mm)	O.D. φd (mm)	L±0.1 (mm)
RHP8-006	<4x10 ⁻⁵		6.0	15.0	36.0
RHP8-008		1.0°-1.5°	8.0	25.4	46.0
RHP8-010		1°@980nm	10.0	25.4	28.0
RHP8-015			15.0	30.0	38.0

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