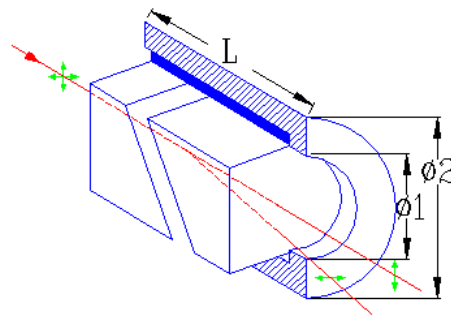


Rochon Polarizers

Product Description:

A Rochon polarizer is similar to a wollaston polarizer with a different optical axis orientation in the first birefringent wedge. Both ordinary and extraordinary beams propagate along the optic axis in the first prism under the ordinary refractive index. Upon entering the second prism, the ordinary beam experiences the same refractive index and passes through with a deviation, and the extraordinary beam has a different refractive index and is deviated. The divergent angle is decided by the wedge angle for a given crystal and can be designed upon your request.

You may refer to this page (<http://www.pmoptics.com/crystals.html>) for material properties



Features:

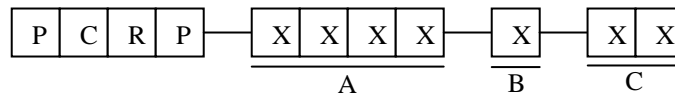
- High Polarization Purity
- High Transmittance
- Wide wavelength Range
- Wide acceptance angle
- o-ray passing through with little deviation
- Multiple-choice crystal materials

Specifications:

Materials	Alpha-BBO (190~3500nm) Calcite (350~2300nm) YVO4 (450~5000nm) MgF2(130~7000nm)
Dimension Tolerance	$\pm 0.1\text{mm}$

Extinction Ratio	Alpha-BBO, YVO4 <math>< 1 \times 10^{-6}</math> Calcite <math>< 5 \times 10^{-5}</math> MgF2 <math>< 1 \times 10^{-4}</math>
Flatness	$\lambda/4$ @ 632.8nm
Surface Quality	20~10
Beam Deviation (o-ray)	< 3 arc minutes
Beam Deviation (e-ray)	Alpha-BBO: 1° at 800nm YVO4 <math>< 10^\circ</math> at 1550nm MgF2: 1° at 980nm
AR coating	Single Layer MgF2 on input and output surfaces
Mount	Black Anodized Aluminum

Ordering Information:



A	Wavelength	1550=1550nm
		980=0980nm
		XXXX=Your Application Wavelength
B	Material	1=YVO4
		2=Calcite
		3= Alpha-BBO
		4=MgF2
		0=Special
C	Dimensions	01=6.0mm(Φ 1)X15.0mm(Φ 2)X14.0mm(L)
		Check Standard Size Table Below
		00=Custom Dimensions

Standard Size Table:

Dimension P/N	Clear Aperture Φ 1 (mm)	Outside Diameter Φ 2 (mm)	Length L (mm)
01	6.0	15.0	14.0
02	8.0	25.4	18.5
03	10.0	25.4	28.0
04	15.0	30.0	38.0
05	20.0	38.0	48.0