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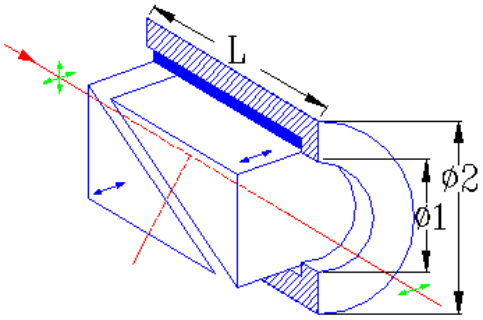
Glan-Thompson Polarizers

Product Description:

A Glan–Thompson Polarizer is made of two brifringent prisms which are cemented on their long surfaces. By arranging optical axes parallel to the plane of entrance, total internal reflection of s-polarized light at the air-gap ensures that only p-polarized light is transmitted by the device. The pair of prisms can, therefore, be used as a polarizer.

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



Features:

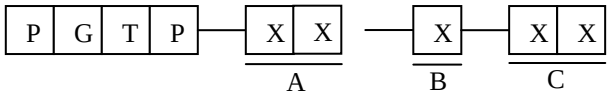
- High polarization purity
- Wide acceptance angle
- Wide wavelength range
- e-ray passing through with little deviation

Specifications:

Materials	Alpha-BBO (200~1100nm) Calcite (350~2300nm)
Dimension Tolerance	±0.1mm
Extinction Ratio	Alpha-BBO $< 1\times10^{-6}$ Calcite $< 5\times10^{-5}$
Flatness	$\lambda/4$ @ 632.8nm
Surface Quality	20~10
Beam Deviation	< 3 arc minutes
Angular Filed	Alpha-BBO > 15° Calcite > 14°

Transmittance	Tp > 95%
AR coating	Single Layer MgF2 on input and output surfaces
Mount	Black Anodized Aluminum

Ordering Information:



A	**Wavelength**	**01 = 200 ~ 1100 nm for Alpha-BBO**
		02 = 350 ~ 2300 nm for Calcite
		00 = Special
B	**Material**	**2 = Calcite**
		3 = Alpha-BBO
		0 = Special
C	**Dimensions**	**01=6.0mm(ϕ1)X15.0mm(ϕ2)X18.0mm(L)**
		Check Standard Size Table Below
		00 = Custom Dimensions

Standard Size Table (for Alpha-BBO only):

Dimension P/N	Clear Aperture Φ1 (mm)	Outside Diameter Φ2 (mm)	Length L (mm)
01	6.0	15.0	18.0
02	8.0	25.4	21.0
03	10.0	25.4	24.5
04	15.0	30.0	32.5
05	20.0	38.0	40.7

Standard Size Table (for Calcite only):

Dimension P/N	Clear Aperture Φ1 (mm)	Outside Diameter Φ2 (mm)	Length L (mm)
01	6.0	15.0	23.0
02	8.0	25.4	28.0
03	10.0	25.4	33.0
04	15.0	30.0	45.5