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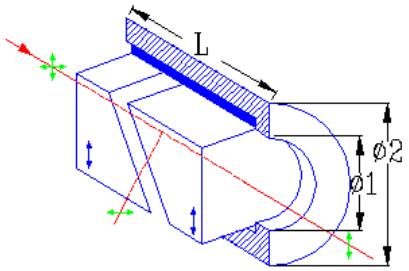
Glan-Taylor Polarizers

Product Description:

A Glan–Taylor prism is made of two birefringent wedges which are separated on their long surfaces with an air gap. 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. Because the incident angle at the gap can be reasonably close to Brewster's angle, a considerable increase in transmission is obtained. The Glan–Taylor prism does not have escape windows and it is suitable for low to medium power applications

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



Features:

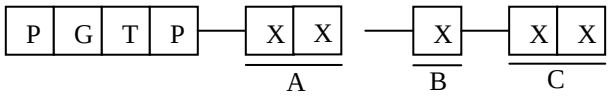
- High Polarization Purity
- High Transmittance
- Wide wavelength Range
- Air-Spaced without escape windows for low to medium power applications
- Cutting angle close to Brewster's angle
- e-ray passing through with little deviation

Specifications:

Materials	Alpha-BBO (190~3500nm) Calcite (350~2300nm) YVO4 (450~5000nm)
Dimensional Tolerance	±0.1mm
Extinction Ratio	Alpha-BBO, YVO4 $< 1\times10^{-6}$ Calcite $< 5\times10^{-5}$
Transmittance	Tp>95%

Flatness	λ / 4 @ 632.8nm
Surface Quality	20 ~10
Beam Deviation (o-ray)	< 3 arc minutes
AR coating	Single Layer MgF2 on input and output surfaces
Mount	Black Anodized Aluminum

Ordering Information:



A	**Wavelength**	**01 = 200 ~ 270 nm for Alpha-BBO**
		02 = 270 ~ 400 nm for Alpha-BBO
		03 = 400 ~ 700 nm for Alpha-BBO
		04 = 700 ~ 3000 nm for Alpha-BBO
		05 = 350 ~ 2300 nm for Calcite
		00 = Special
B	**Material**	**1 = YVO4**
		2 = Calcite
		3 = Alpha-BBO
		0 = Special
C	**Dimensions**	**01 = 8.0mm(Φ 1)X25.4mm(Φ 2)X17.0mm(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)	Wavelength Range (nm)	Material
01	8.0	25.4	17.0	700 ~ 3000	Alpha-BBO
02	10.0	25.4	18.5		
03	15.0	30.0	23.0		
04	20.0	38.0	27.0		
05	8.0	25.4	17.0	400 ~ 700	
06	10.0	25.4	18.5		
07	15.0	30.0	23.0		
08	20.0	38.0	27.0		
09	8.0	25.4	17.0	350 ~ 3000	Calcite
10	10.0	25.4	18.5		
11	15.0	30.0	23.0		