Optical Polarizer

Glan Taylor Calcite Polarizers / Air Space Design

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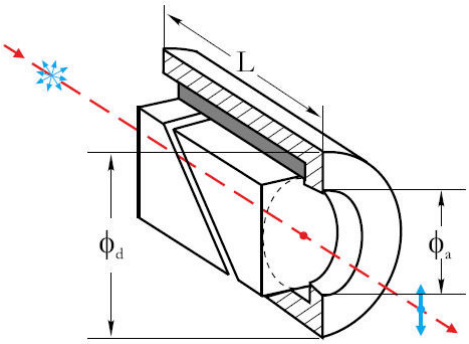


Photonik's Glan Taylor Calcite Polarizer provides extremely pure linear polarization (100,000:1) for broadband sources. The input and output faces are polished to a laser quality 20-10 scratch-dig surface finish to minimize scattering of the transmitted P polarization component of the laser beam or light field. The S polarization component is reflected through a 68° angle. For high power applications, pls select Photonik's Glan Laser Polarizer.

General Specifications:

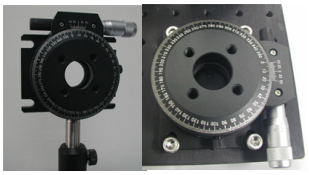
Material:	Calcite
Wavelength Range:	250 - 2300nm
Extinction Ratio:	100,000 : 1
Angular Field:	7.7°
Dimensions Tolerance:	± 0.1 mm
Surface Quality:	20 – 10 scratch and dig
Wavefront Distortion:	λ/4 @ 632.8nm over clear aperture
Beam Deviation:	< 3 arc minutes
Transmission Efficiency:	Tp > 95%
Optical Coating:	Single layer MgF2 (Input/Output surfaces)
Damage Threshold:	2W of CW power

Photonik reserves the rights to change product designs and specifications at any time without notice.

Ordering Information: (Any request for other dimensions, wavelengths and coatings, pls contact us!)

P/N	Material	Wavelength Range (nm)	Outside Diameter Ød (mm)	Clear Aperture Øa (mm)	Length L (mm)
PGTC5008	Calcite	250 – 2300	25.4	8.0	17.0
PGTC5010	Calcite	250 – 2300	25.4	10.0	18.5
PGTC5015	Calcite	250 – 2300	30.0	15.0	23.0

Optional rotation stage parts compatible to PGTC polarizers (with included housing adaptor):



ϕ1" Precision 360° Rotation Stage
P/N: PRM1S(1" Optics; Vertical/Horizontal Positioning)

ϕ1" Simple 360° Rotation Stage
P/N: PRE1

ϕ2" Simple 360° Rotation Stage
P/N: PRE2

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