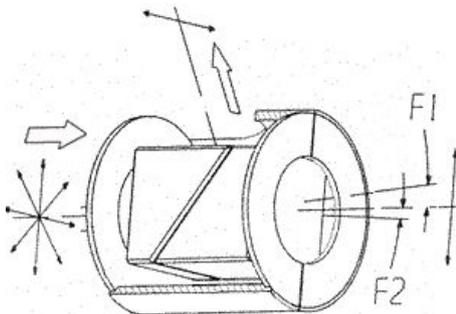
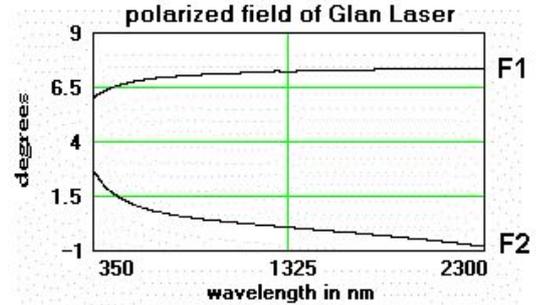


The Glan Laser prism polarizer is made of two calcite prisms which are assembled with an air space. This polarizer is a modification of the Glan Taylor type and is designed to have less reflection loss at the prism junction. This polarizer is available with none, one or two escape windows. The one without escape windows is made for low energy lasers.

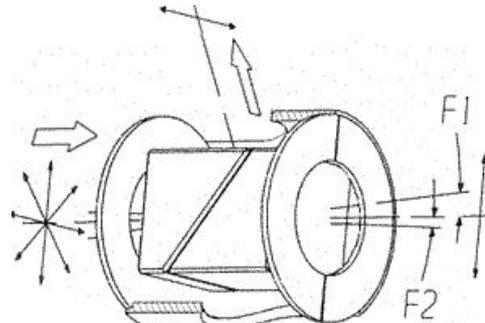
Unlike the Glan Taylor, this polarizer is made of non UV calcite except by special order and is for use in the visible and near IR spectrum up to 2.3 microns. The angular polarized field of this polarizer is not symmetrical to the normal at the entrance face and is dependent on wavelength e.g. at 1.4 microns, semi-polarized field of a Gla Laser becomes almost zero on one side and 7degrees on the other side of the normal. Therefore, for use at wavelengths longer than 1.4 microns, the polarizer should be titled appropriately.

### Secifications

- A grade calcite : quarter to one wave wavefront deformation @ 633nm due to striae only
- S grade calcite : quarter wave wavefront deformation @ 633 due to striae only
- Surface flatness : at least quarter wave @ 633nm over the clear aperture
- Surface quality : 40-20 scratch dig of entrance and exit faces only (no scratch dig criteria are assigned to escape windows)
- Transmission (uncoated) : 40-45% at 350nm, 70-75% at 400nm, 86-88% at 500nm and longer wavelengths.



Glan Laser with one window



Crystal Quartz Rochon

### Glan Laser-One Escape Window

Catalog no.	Clear Aperture diameter (mm)	Mount Dimensions (Inches)		Remarks
		Outside Diameter ±.002	Length ±.005	
MGLA-SW-8	8	0.747	0.75	Grade A Extinction $5 \times 10^{-5}$ Beam Deviation 3 Arc Minutes Max Suggested Poser Level 500 W/Cm <sup>2</sup> CW - 500 MW/Cm <sup>2</sup> Pulsed
MGLA-SW-10	10	0.872	0.875	
MGLA-SW-12	12	0.997	1.000	
MGLA-SW-15	15	1.247	1.188	
MGLA-SW-17	17	1.372	1.375	
MGLA-SW-20	20	1.497	1.500	
MGLS-SW-8	8	0.747	0.750	Grade A Extinction $2 \times 10^{-5}$ Beam Deviation 3 Arc Minutes Max Suggested Poser Level 500 W/Cm <sup>2</sup> CW - 500 MW/Cm <sup>2</sup> Pulsed
MGLS-SW-10	10	0.872	0.875	
MGLS-SW-12	12	0.997	1.000	
MGLS-SW-15	15	1.247	1.188	
MGLS-SW-17	17	1.372	1.375	
MGLS-SW-20	20	1.497	1.500	

### Glan Laser-Two Escape Window

Catalog no.	Clear Aperture diameter (mm)	Mount Dimensions (Inches)		Remarks
		Outside Diameter ±.002	Length ±.005	
MGLA-DW-8	8	0.747	0.75	Grade A Extinction $5 \times 10^{-5}$ Beam Deviation 3 Arc Minutes Max Suggested Poser Level 500 W/Cm <sup>2</sup> CW - 500 MW/Cm <sup>2</sup> Pulsed
MGLA-DW-10	10	0.872	0.875	
MGLA-DW-12	12	0.997	1.000	
MGLA-DW-15	15	1.247	1.188	
MGLA-DW-17	17	1.372	1.375	
MGLA-DW-20	20	1.497	1.500	
MGLS-DW-8	8	0.747	0.750	Grade A Extinction $2 \times 10^{-5}$ Beam Deviation 3 Arc Minutes Max Suggested Poser Level 500 W/Cm <sup>2</sup> CW - 500 MW/Cm <sup>2</sup> Pulsed
MGLS-DW-10	10	0.872	0.875	
MGLS-DW-12	12	0.997	1.000	
MGLS-DW-15	15	1.247	1.188	
MGLS-DW-17	17	1.372	1.375	
MGLS-DW-20	20	1.497	1.500	