

## 1064 nm Solid State Laser Polarizers for 56° Incidence

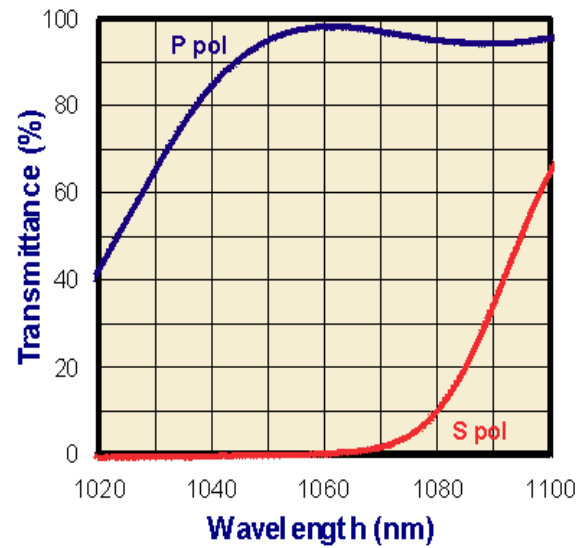
These are high performance, first surface, thin film polarizers designed to work at Brewster's angle in frequency-doubled Nd:YAG and Nd:YVO4 laser based applications and systems. Performance is optimized by tilt tuning.

### Advantages

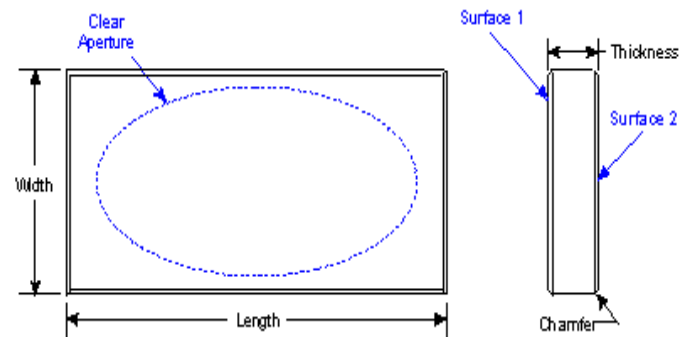
- High extinction ratio
- High efficiency
- Superior laser damage resistance
- Excellent mechanical durability

### Common Specifications

Angle of Incidence	$\pm 3^\circ$
Clear Aperture	85% best fit ellipse
Flatness	$\lambda/10$ at 633 nm
Length/Width Tolerance	+0.00, -0.13 mm
Material	Fused Silica
Surface Quality	10-5
Thickness Tolerance	$\pm 0.25$ mm
Wavefront Distortion	$\lambda/8$ at 633 nm
Wedge	<5 arc minutes
Surface 1 Surface Quality	10-5
Surface 1 Transmission Efficiency	$T_p > 97\%$ , $R_s > 99.5$ at 1064 nm
Surface 1 Extinction Ratio	200:1 at 1064 nm
Surface 1 Angle Of Incidence	$56^\circ \pm 3^\circ$
Surface 2 Coating	None



Part Number	Dimensions	Thickness	Price
PL8020	28.6 x 14.3	3.2	\$395.00



Alpine Research Optics, 6810 Winchester Circle, Boulder, Colorado 80301

sales@arocorp.com 303-444-3420

Copyright © 2006 Alpine Research Optics. All rights reserved.