

532 nm Solid State Laser Polarizers for 56° Incidence

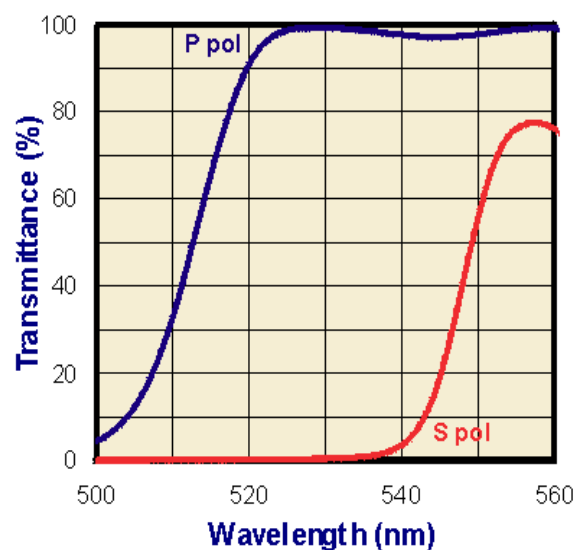
These are high performance, first surface, thin film polarizers designed to work at Brewster's angle in frequency-doubled Nd:YAG and Nd:YVO4 laser based applications and systems. Performance is optimized by tilt tuning.

Advantages

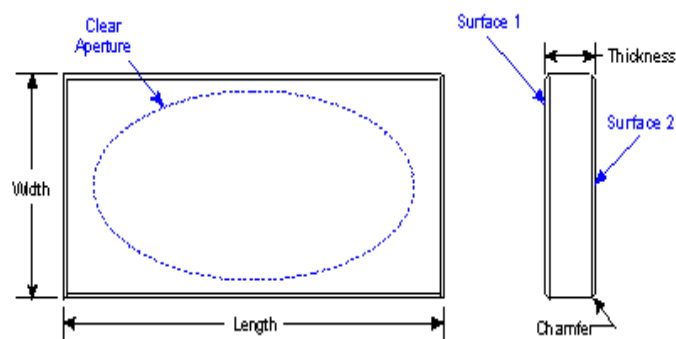
- High extinction ratio
- High efficiency
- Superior laser damage resistance
- Excellent mechanical durability

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	± 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 532 nm
Surface 1 Extinction Ratio	200:1 at 532 nm
Surface 1 Angle Of Incidence	$56^\circ \pm 3^\circ$
Surface 2 Coating	None



Part Number	Dimensions	Thickness
PL4520	28.6 x 14.3	3.2



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