

Liquid Crystal Polarization Rotators

SPECIFICATIONS	
Retarder Material	Nematic liquid crystal with Birefringent polymer
Substrate Material	Optical quality synthetic fused silica
Wavelength	450-1800 nm (specify)
Polarization Rotation	180° or more
Polarization Purity	150:1 average
Transmittance	> 92% with polarized input
Transmitted Wavefront Distortion (at 632.8 nm)	$\leq \lambda/4$
Surface Quality	40-20 scratch and dig
Beam Deviation	≤ 2 arc min
Reflectance (per surface)	$\leq 0.5\%$ at normal incidence
Diameter Tolerance	± 0.005 in.
Temperature Range	0° C to 50° C
Recommended Safe Operating Limit	500 W/cm ² , CW 300 mJ/cm ² , 10 ns, visible

ORDERING INFORMATION			
<i>Diameter, D (in.)</i>	<i>Clear Aperture, CA (in.)</i>	<i>Thickness t (in.)</i>	<i>Part Number</i>
1.00	0.37	1.23	LPR - 100- λ
2.00	0.70	0.75	LPR - 200- λ
3.00	1.60	1.00	LPR - 300- λ

Please specify operating wavelength λ in nanometers when placing your order.

Custom sizes are available. Please contact our Sales Department for a custom quote.