

Liquid Crystal Polarization Rotators

Polarizers

Retarders

Mounting Hardware

Liquid Crystal Devices

Liquid Crystal Controllers

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			
Diameter, D (in.)	Clear Aperture, CA (in.)	Thickness t (in.)	Part Number
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.