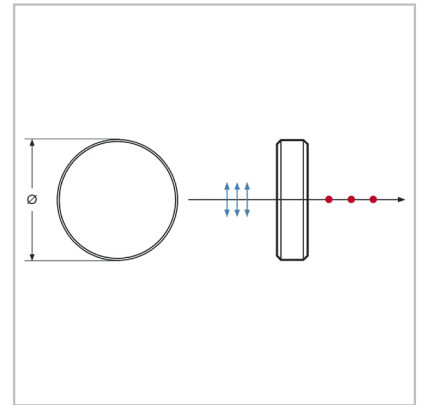


Polarization Rotators

So-called polarization rotators can be used to rotate the polarization.

These components are particularly easy to handle. The rotation of polarization occurs reliably regardless of the orientation of the component with respect to the laser beam. Therefore, an alignment along the optical axis is not necessary.

At an angle of incidence of 0° of the incident beam, the polarization of the central wavelength is rotated either by 45° or 90° . The desired rotation should be indicated.



Specifications

Spectral bandwidth	typ. $\lambda \pm 0.5\%$
Wavefront error	$\lambda/10$ at 632.8 nm (transmission)
Retardation tolerance	$\lambda/100$ to $\lambda/500$
Surface quality	5/4 x 0.025 for 1.0" substrates according to ISO 10110 10-5 according to MIL-O-1380A
Parallelism	wedge < 0.5 sec of arc
Damage threshold	LDT > 10 J/cm ² (10 ns; 1064 nm)
Clear aperture	85% of diameter

Nomenclature

RT	-10	-1064	-90	AR/AR
Product Code (Rotator)	Diameter in Inches x 10	Wavelength in nm	Rotation in Degree 45° or 90°	Coating Specification