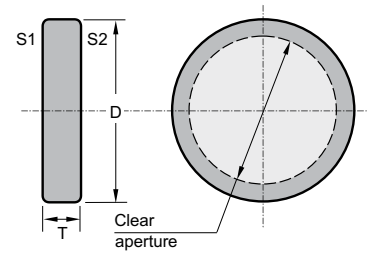


POLARIZATION PLANE ROTATORS

- Made of crystalline quartz
- Intended to rotate a beam polarization plane strictly to an appropriate angle using the circular birefringent effect

As compared to a waveplate, a rotator has an intrinsic advantage, being independent of rotation around its own optical axis. It needs no adjustment, only to be installed normal to incident radiation. A polarization plane rotator is normally used for the specific wavelength. It is only slightly dependent on ambient temperature.



Polarization plane rotators for any wavelength from 200 to 2300 nm are available.

SPECIFICATIONS

Material	Single crystal quartz
Optical axis	Normal to faces S1, S2 of rotator
Clear aperture	Ø17 mm
Ring mount outer diameter	D = 25.4 +0.0 / -0.12 mm
Mount thickness	T = 6–20 mm (depending on wavelength and rotation angle)
Surface quality	20-10 scratch & dig (MIL-PRF-13830B)
Wavefront distortion	$\lambda/10$
Parallelism	< 10 arcsec
AR coating	R < 0.2% both sides
Laser damage threshold	5 J/cm ² , 10 nsec pulse, 1064 nm typical

Catalogue number	Center wavelength, nm	Rotation angle of polarization plane, deg	Price, EUR
470-4644	1064	45	215
470-4649	1064	90	215
470-4904	1030	45	215
470-4909	1030	90	215
470-4804	800	45	195
470-4809	800	90	195
470-4784	780	45	195
470-4789	780	90	195
470-4634	633	45	195
470-4639	633	90	195
470-4534	532	45	195
470-4539	532	90	195
470-4514	515	45	195
470-4519	515	90	195
470-4414	413	45	195
470-4419	413	90	195
470-4044	400	45	195
470-4049	400	90	195
470-4354	355	45	195
470-4259	355	90	195
470-4344	343	45	195
470-4349	343	90	195
470-4264	266	45	245
470-4269	266	90	245
470-4254	257	45	245
470-4259	257	90	245
470-4244	244	45	245
470-4249	244	90	245

Please contact us for other size or wavelengths requirements.

RELATED PRODUCTS

Kinematic Mirror and Beamsplitter Mount
840-0020

See page 8.58



Kinematic Positioning Mount 840-0193

See page 8.90

