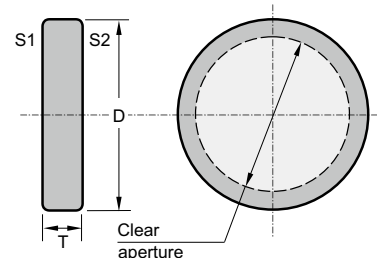


POLARIZATION PLANE ROTATORS

Features

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

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	25.4 +0.0/-0.12 mm
Surface quality	20 – 10 scratch & dig (MIL-PRF-13830B)
Wavefront distortion	$\lambda/10$ @ 633 nm
Parallelism	< 10 arcsec
AR coating	R < 0.5%
Laser damage threshold	100 mJ/cm ² , 50 fsec pulse, 800 nm typical

Center wavelength, nm	Rotation angle of polarization plane, deg	AR coating range, nm	Catalogue number	Price, EUR
1030	45	1000-1060	470-4904	247
1030	90	1000-1060	470-4909	247
800	45	760-840	470-4804	224
800	90	760-840	470-4809	224
780	45	740-820	470-4784	224
780	90	740-820	470-4789	224
515	45	500-530	470-4514	224
515	90	500-530	470-4519	224
400	45	380-420	470-4044	224
400	90	380-420	470-4049	224
343	45	333-353	470-4344	224
343	90	333-353	470-4349	224
266	45	257-275	470-4264	282
266	90	257-275	470-4269	282
257	45	250-265	470-4254	282
257	90	250-265	470-4259	282

Related Products

Polarization plane rotators of other wavelengths
See page 1.71

Kinematic Mirror and Beamsplitter Mount
840-0020
Find more at EksmaOptics.com



Kinematic Positioning Mount 840-0193
Find more at EksmaOptics.com

