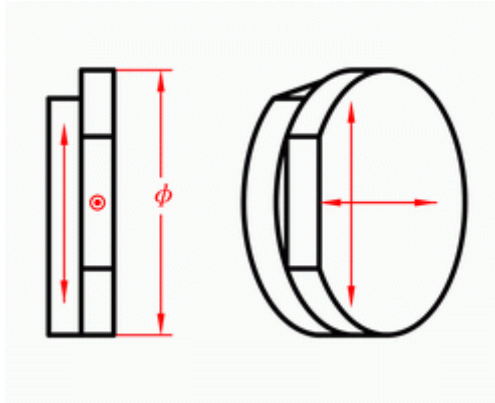


Cemented Zero Order Waveplate



A quarter-wave or half-wave retarder made from two plates of quartz with their fast axes crossed; the difference in thickness between the two plates determines the retardance. Zero-order retarders provide accurate retardance over a broad range of wavelengths and are more durable than single-element retarders.

Specification:

Material.....Crystal Quartz
 Dimension Tolerance.....+0.0, -0.2mm
 Optical Angle Orientation Tolerance..... $\pm 0.1^\circ$
 Wavefront Distortion..... $\lambda/8$ @632.8nm
 Retardation Tolerance..... $< \lambda/300$
 Clear Aperture..... $> 90\%$
 Surface Quality.....20-10
 Parallelism..... $< 5''$
 Wavelength Range.....400~2100nm
 Coating.....Anti-reflecting Coatings on both sides, $R < 0.2\%$ @ λ_d , AOI 0°
 Damage Threshold..... $> 0.25\text{J/cm}^2$, 10ns, 10Hz

P/N	Type	Φ	λ_d
70301	$\lambda/4$	12.70	532nm
70302	$\lambda/4$	25.40	532nm
70303	$\lambda/4$	12.70	632.8nm
70304	$\lambda/4$	25.40	632.8nm

- Dimension unit: mm
- Other sizes and coatings are available upon request.