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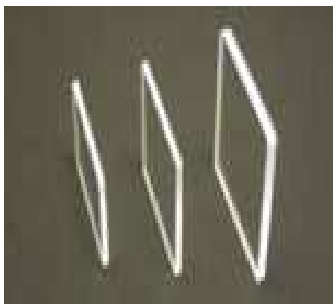
Synthetic Quartz Components for Optics

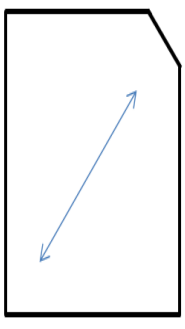
Wavelength Plate

	HWP(1/2Wave plate)		QWP(1/4Wave plate)	
	Monolithic	Double layer	Monolithic	Double layer
Phase retardation tolerance	180°±5°(at the center of wavelength)		90°±5°(at the center of wavelength)	
Crystal plate orientation	Y-cut or X-cut		Y-cut or X-cut	
Wavelength	380 to 930nm		380 to 930nm	
Outline dimensions	φ10 to φ50mm, 5 to 50mm square		φ10 to φ50mm, 5 to 50mm square	
Thickness	0.1 to 2.0mm	0.22 to 2.0mm	0.2 to 2.0mm	0.22 to 2.0mm
Wavefront aberration	≦1/4 λ(P-V)	≦2 λ(P-V)	≦1/4 λ(P-V)	≦2 λ(P-V)
Transmittance	99% (λ=632.8nm)		98% (λ=632.8nm)	
	AR multiple coating		AR multiple coating	

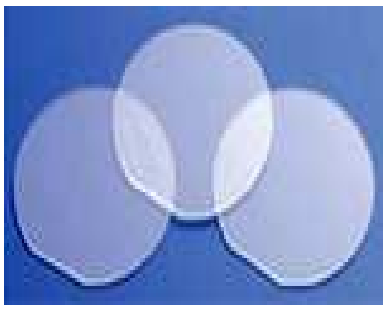
Application

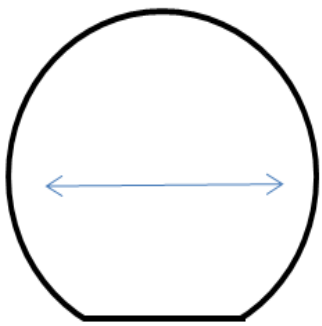
Laser Device, Semiconductor Exposure Apparatus, Liquid Crystal Exposure Apparatus, etc.





Optical axis 0°





Optical axis 45°

300 x 300 x 30 mm