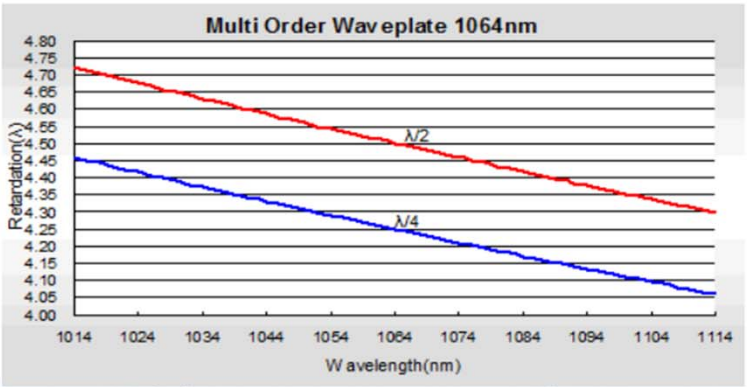
Multi Order Waveplate

Multiple order waveplate means the retardance of a light path will undergo a certain number of full wavelength shifts in addition to the fractional design retardance. The thickness of multi order waveplate is always around 0.5mm. Compared with zero order waveplate, multi order waveplate is more sensitive to wavelength and temperature changes. However, they are less expensive and widely used in many applications where the increased sensitivities are not critical.

- ★ Thickness: 0.3-0.5 mm
- ★ High Damage Threshold
- ★ Better wavefront and parallelism
- ★ Low Cost
- ★ RoHS Compliant

Specifications

Material	Crystal Quartz
Dimension Tolerance	+0.0/-0.2mm
Surface Quality	20/10 scratch and dig
Clear Aperture	>90% central area
Wavefront Distortion	<λ/8@632.8nm
Parallelism	<1 arc second
Retardation Tolerance	<λ/100
AR Coating	R<0.25%@central wavelength
Damage Threshold	>10J/cm2, 20ns, 20Hz @1064nm



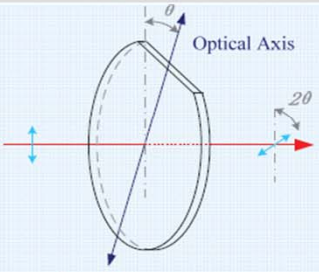
Size: *from 1 to 140(mm)*

Standard Retardation: *half and quarter waveplate*

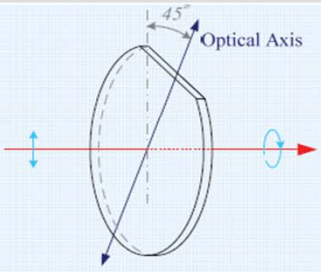
Standard Wavelength:

213	248	266	308	355	405
488	515	532	546	632.8	780
795	800	852	894	980	1028
1030	1047	1053	1064	1310	1550

Custom Waveplate: *Upon Request*



Half Waveplate



Quarter Waveplate