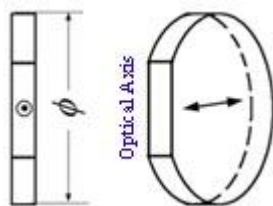
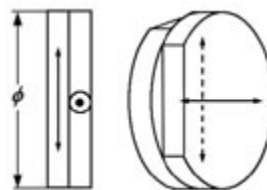


## Waveplate

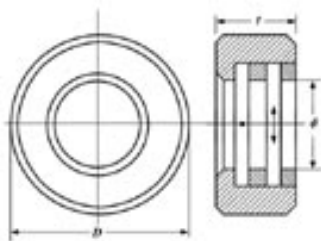
Waveplate, also called wave plate, retardation plate or phase shifter. It is made from material which exhibit birefringence, the most common waveplate material is crystal quartz. Half waveplate is used in rotating the plane of polarization. Quarter waveplate is used in creating circular polarization from linear polarization.



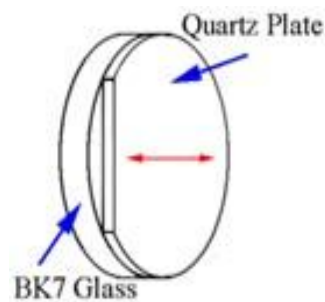
Low order waveplate



Cemented zero order waveplate



Air spaced zero order waveplate



Cemented zero order waveplate

### Specifications:

Material: Crystal Quartz  
 Dimension Tolerance: +0.0, -0.2 mm  
 Wave front Distortion:  $<L/8$  @ 632.8 nm  
 Retardation:  $L/8$ ,  $L/4$ ,  $L/2$ , or  $L$  (typical)  
 Retardation Tolerance:  $<L/500$  (typical)  
 Thickness:  $< 0.5\text{mm}$  (determined by retardation)  
 Wavelength Range: 240-2100 nm  
 Parallelism:  $<1$  arc second  
 Surface Quality: 20-10 scratch and dig  
 AR/AR Coating  $R<0.2\%$  per face is available  
 Metal Mount is available by request

