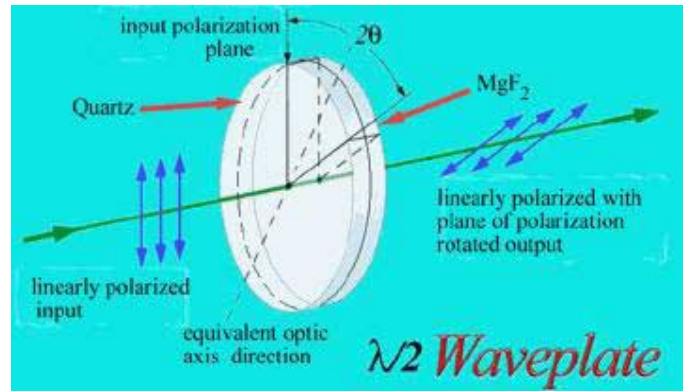


Achromatic Waveplate

Achromatic waveplate is similar to Zero-order waveplate except that the two plates are made from different materials, such as crystal quartz and magnesium fluoride. Since the dispersion of the birefringence can be different for the two materials, it is possible to specify the retardation values at a wavelength range. Hence, the retardation of the resulting waveplate can be low sensitivity to wavelength change. Based on the contact methods of two plates, the achromatic waveplate can be cemented or airspaced for high energy applications.

Advantages:

- 1) Superior broadband performance >300 nm
- 2) Retardation maintained to 1/100 over the Bandwidth
- 3) AR coated
- 4) Optical bonding, airspaced, cemented
- 5) High damaged threshold
- 6) λ , $\lambda/2$, $\lambda/4$, $\lambda/8$...
- 7) Low price



Application:

- 1) Telecommunication: S+C+L band (1450nm~1650nm)
- 2) Laser (pulsing laser, tunable laser, LD laser, OPOs, etc)
- 3) Optical instrument (spectrophotometry, spectral analysis, achromatic telescope, etc.)

Specification:

- 1) Substrate Material: crystal Quartz and MgF₂
- 2) Retardance: $\lambda/4$, $\lambda/2$
- 2) Dimension Tolerance: +0.0, -0.2mm
- 3) Wavefront Distortion: $\lambda/4$ @ 633nm
- 4) Retardation Tolerance: up to 1/100 at specified wavelength
- 5) Beam Deviation: <1 arc min
- 6) Wavelength Range: 400~700nm, 700~1000nm, 1200~1650nm
- 7) Reflectance: <0.5% per surface
- 8) Surface Quality: 20/10 scratch and dig

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Product Information

- Low price and high quality
- Delivery time: 5 weeks
- We accept small and large quantity order