

30mm Dia, 1200-1650nm, λ/4 Achromatic Waveplate



Achromatic Waveplates (Retarders)

Stock **#48-501** **3 In Stock**

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1

+

£952⁰⁰

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Volume Pricing	
Qty 1-5	£952.00 each
Qty 6+	£800.00 each
Need More?	Request Quote

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General	
Achromatic Waveplate	Type:
Cemented	Configuration:
Physical & Mechanical Properties	
	Clear Aperture CA (mm):

30.00	Diameter (mm):
6.00 ±0.15	Thickness (mm):
<1	Parallelism (arcmin):
+0/-0.25	Dimensional Tolerance (mm):
Crystalline	Construction:
+0/-0.25	Housing Tolerance (mm):

Optical Properties	
R _{avg} <0.5% @ 1200 - 1650nm	Coating:
Crystal Quartz and MgF ₂	Substrate: □
λ/4	Retardance:
20-10	Surface Quality:
λ/4 @ 633nm	Transmitted Wavefront, P-V:
≤ λ/100	Retardance Tolerance:
<1/500	Temperature Coefficient (λ/°C):
R _{avg} <0.5% @ 1200 - 1650nm	Coating Specification:
1200 - 1650	Wavelength Range (nm):
500 kW/cm ²	Damage Threshold, By Design: □

Regulatory Compliance	
Compliant	RoHS 2015:
Compliant	Reach 209:
View	Certificate of Conformance:

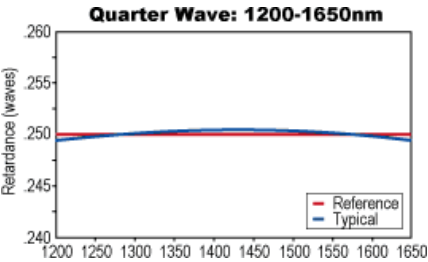
Product Details

- Multiple Wavelength Ranges Available
- Flat Response Over Each Broad Spectral Range
- λ/4 and λ/2 Retardance
- Mounted in Black Anodized Aluminum Housing

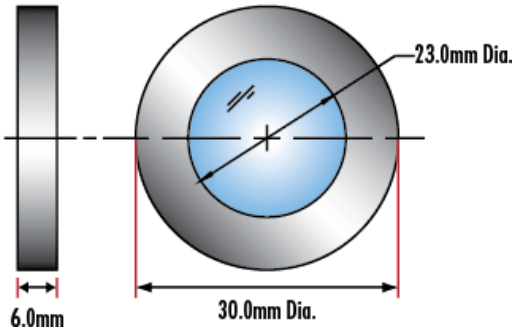
Achromatic Waveplates (Retarders) provide a constant phase shift independent of the wavelength of light that is used. This wavelength independence is achieved by using two different birefringent crystalline materials. The relative shifts in retardation over the wavelength range are balanced between the two materials used. Achromatic Waveplates (Retarders), with their flat response, are ideal for use with tunable lasers, multiple laser line systems, and other broad-spectrum sources.

Designed to be used at an angle of incidence of 0°, changes of ±3° will yield less than 1% change in retardance. The 23mm clear aperture waveplates will feature a cemented construction. All Achromatic Waveplates (Retarders) are mounted in an anodized aluminum housing with the fast axis clearly indicated.

Technical Information



30.0mm Diameter Waveplates



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