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30mm Dia, 1200-1650nm, $\lambda/2$ Achromatic Waveplate



Achromatic Waveplates (Retarders)

Stock **#48-502** **1 In Stock**

£952⁰⁰

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Volume Pricing	
Qty 1-5	£952.00 each
Qty 6+	£800.00 each
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:
 Achromatic Waveplate
Configuration:
 Cemented

Physical & Mechanical Properties

Clear Aperture CA (mm):
 23

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: <input type="checkbox"/>
$\lambda/2$	Retardance:
20-10	Surface Quality:
$\lambda/4$ @ 633nm	Transmitted Wavefront, P-V:
$\leq \lambda/100$	Retardance Tolerance:
<1/500	Temperature Coefficient ($\lambda/^\circ\text{C}$):
$R_{avg} < 0.5\%$ @ 1200 - 1650nm	Coating Specification:
1200 - 1650	Wavelength Range (nm):
500 kW/cm ²	Damage Threshold, By Design: <input type="checkbox"/>

Regulatory Compliance

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

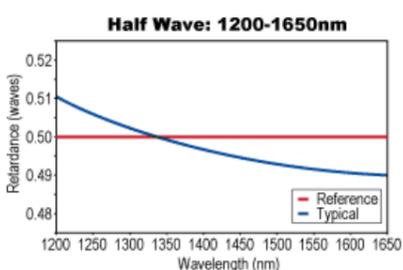
Product Details

- Multiple Wavelength Ranges Available
- Flat Response Over Each Broad Spectral Range
- $\lambda/4$ and $\lambda/2$ 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 $\pm 3^\circ$ 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

