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25.4mm Dia, 610 - 850nm, $\lambda/2$ Achromatic Wave Plate



Achromatic Waveplates (Retarders)

Stock **#63-936** **5 In Stock**

⊖ 1 ⊕ S\$1,484⁰⁰

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Volume Pricing

Qty 1-5	S\$1,484.00 each
Qty 6+	S\$1,232.00 each
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General

Achromatic Waveplate **Type:**

Air Spaced **Configuration:**

Physical & Mechanical Properties

11.5 **Clear Aperture CA (mm):**

Diameter (mm):

25.40

8.00 ±0.1 Thickness (mm):

<1 Parallelism (arcmin):

+0/-0.25 Dimensional Tolerance (mm):

Crystalline Construction:

+0/-0.25 Housing Tolerance (mm):

Optical Properties

$R_{avg} < 0.7\%$ @ 610 - 850nm Coating:

Crystal Quartz and MgF_2 Substrate:

$\lambda/2$ Retardance:

20-10 Surface Quality:

$\lambda/4$ @ 633nm Transmitted Wavefront, P-V:

$\leq \lambda/100$ Retardance Tolerance:

<1/500 Temperature Coefficient ($\lambda/^\circ C$):

$R_{avg} < 0.7\%$ @ 610 - 850nm Coating Specification:

610 - 850 Wavelength Range (nm):

500 kW/cm² 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
- $\lambda/4$ 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 ±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

25.4mm Diameter Waveplates



