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25.4mm Dia, 465-610nm, λ/2 Achromatic Waveplate

Achromatic Waveplates (Retarders)

Stock **#46-559** **2 In Stock**

- 1 +

A$1,696.00

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Volume Pricing	
Qty 1-5	**A$1,696.00** each
Qty 6+	**A$1,408.00** each
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General

Type:

Achromatic Waveplate

Configuration:

Air Spaced

Physical & Mechanical Properties

Clear Aperture CA (mm):

11.5

Diameter (mm):

25.40

Thickness (mm):
8.00 ±0.1

Parallelism (arcmin):
<1

Dimensional Tolerance (mm):
+0/-0.25

Construction:
Crystalline

Housing Tolerance (mm):
+0/-0.25

Optical Properties

Coating:
R_{avg} <1% @ 465 - 610nm

Substrate:
Crystal Quartz and MgF_2

Retardance:
λ/2

Surface Quality:
20-10

Transmitted Wavefront, P-V:
λ/4 @ 633nm

Retardance Tolerance:
≤ λ/100

Temperature Coefficient (λ/°C):
<1/500

Coating Specification:
R_{avg} <1% @ 465 - 610nm

Wavelength Range (nm):
465 - 610

Damage Threshold, By Design:
500 kW/cm^2

Regulatory Compliance

RoHS 2015:
Compliant

Reach 209:
Compliant

Certificate of Conformance:
View

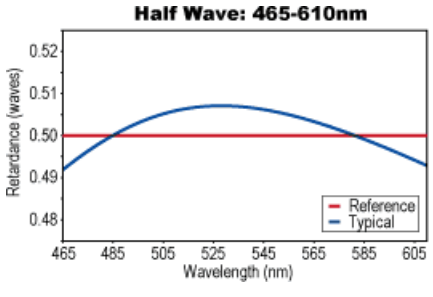
Product Details

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

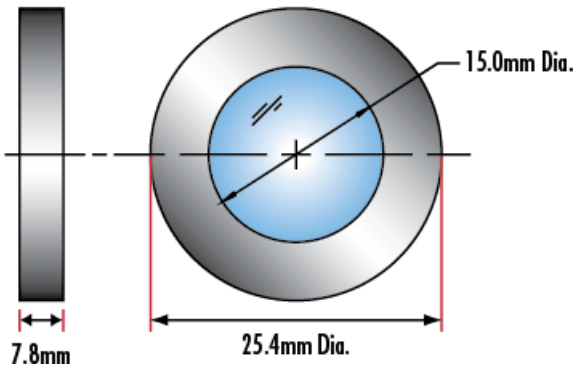
Achromatic Waveplates (Retarders) provide a constant phase shift independent of the wavelength of light that is used. This wavelength independence is achieved by using two different birefringent crystalline materials. The relative shifts in retardation over the wavelength range are balanced between the 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



25.4mm Diameter Waveplates



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