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## 12.7mm Dia, 650 - 1100nm, $\lambda/2$ Achromatic Waveplate



Achromatic Waveplates (Retarders)

Stock **#39-043** **2 In Stock**

⊖ 1 ⊕ €900<sup>00</sup>

**ADD TO CART**

### Volume Pricing

Qty 1-5	€900,00 each
Qty 6+	€765,00 each
Need More?	<a href="#">Request Quote</a>

ⓘ Prices shown are exclusive of VAT/local taxes

### Product Downloads

#### General

Achromatic Waveplate **Type:**

Air Spaced **Configuration:**

#### Physical & Mechanical Properties

>8.0 **Clear Aperture CA (mm):**

12.70	<b>Diameter (mm):</b>
6.00 ±0.2	<b>Thickness (mm):</b>
+0/-0.25	<b>Dimensional Tolerance (mm):</b>
Crystalline	<b>Construction:</b>
<10	<b>Parallelism (arcsec):</b>
+0/-0.25	<b>Housing Tolerance (mm):</b>

## Optical Properties

R <sub>avg</sub> <0.75% @ 650 - 1100nm	<b>Coating:</b>
Crystal Quartz and MgF <sub>2</sub>	<b>Substrate:</b> <input type="checkbox"/>
λ/2	<b>Retardance:</b>
40-20	<b>Surface Quality:</b>
<λ/4 @ 632nm	<b>Transmitted Wavefront, P-V:</b>
λ/100 @ 20°C	<b>Retardance Tolerance:</b>
R <sub>avg</sub> <0.75% @ 650 - 1100nm	<b>Coating Specification:</b>
650 - 1100	<b>Wavelength Range (nm):</b>
>5 J/cm <sup>2</sup> @ 1064nm, 10ns, 10Hz	<b>Damage Threshold, By Design:</b> <input type="checkbox"/>

## Regulatory Compliance

<a href="#">Compliant</a>	<b>RoHS 2015:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>
<a href="#">Compliant</a>	<b>Reach 247:</b>

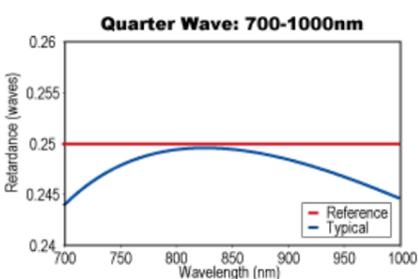
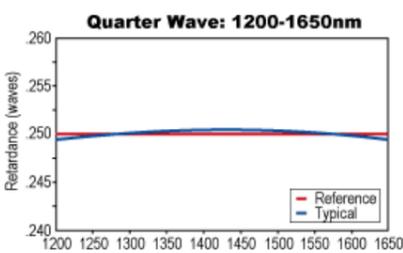
## Product Details

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

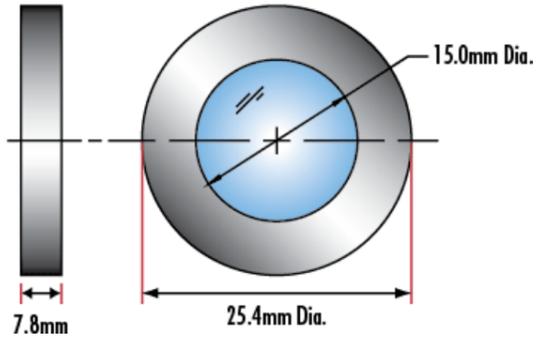
Achromatic Waveplates (Retarders) provide a constant phase shift independent of the wavelength of light that is used. This wavelength independence is achieved by using two different birefringent crystalline materials. The relative shifts in retardation over the wavelength range are balanced between the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

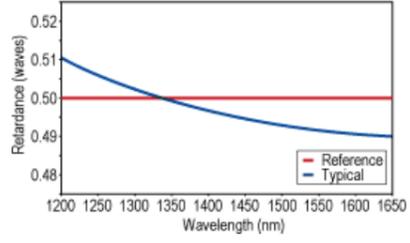
## Technical Information



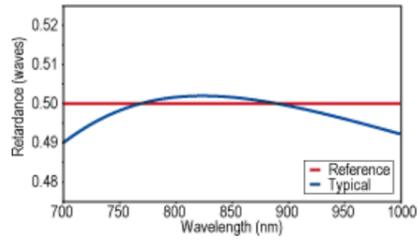
## 25.4mm Diameter Waveplates



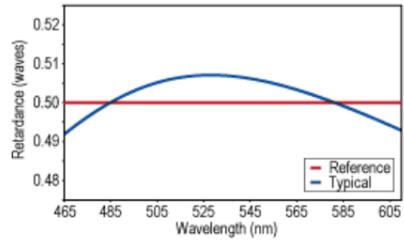
**Half Wave: 1200-1650nm**



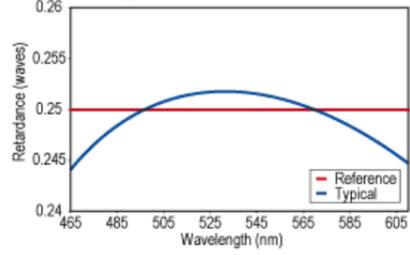
**Half Wave: 700-1000nm**



**Half Wave: 465-610nm**



**Quarter Wave: 465-610nm**



## 30.0mm Diameter Waveplates

