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25.4mm Dia, 550 – 750nm, λ/2 Achromatic Waveplate

Achromatic Waveplates (Retarders)

Stock **#39-039** CONTACT US

- 1 +

$1,075.90

Qty 1-5	Qty 6+	Volume Pricing
$1,075.90	**$933.86**	**Request Quote**

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- PDF Drawing:pdf
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SPECIFICATIONS

General

Type:	Achromatic Waveplate
Configuration:	Air Spaced

Physical & Mechanical Properties

Clear Aperture CA (mm):	>20.0	**Diameter (mm):**	25.40
Thickness (mm):	6.00 ±0.2	**Dimensional Tolerance (mm):**	+0/-0.25
Construction:	Crystalline	**Parallelism (arcsec):**	<10
Housing Tolerance (mm):	+0/-0.25		

Optical Properties

Coating:	R_{avg} <0.75% @ 550 - 750nm	**Substrate:** ⓘ	Crystal Quartz and MgF_2
Retardance:	λ/2	**Surface Quality:**	40-20
Transmitted Wavefront, P-V:	<λ/4 @ 632nm	**Retardance Tolerance:**	λ/100 @ 20°C
Coating Specification:	R_{avg} <0.75% @ 550 - 750nm	**Wavelength Range (nm):**	550 - 750
Damage Threshold, By Design: ⓘ	>5 J/cm^2 @ 1064nm, 10ns, 10Hz		

Regulatory Compliance

RoHS 2015:	**Compliant**	**Certificate of Conformance:**	**View**
Reach 247:	**Compliant**		

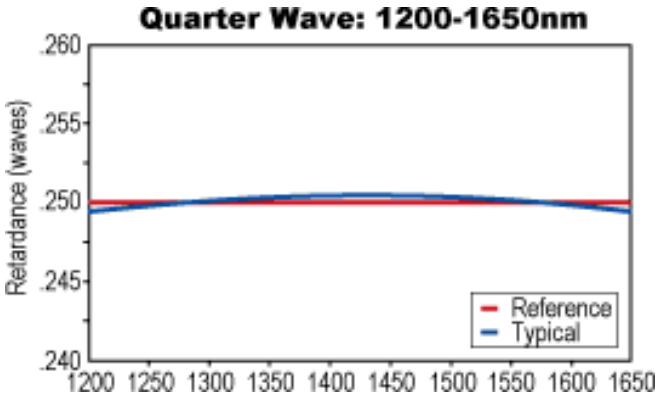
PRODUCT DETAILS

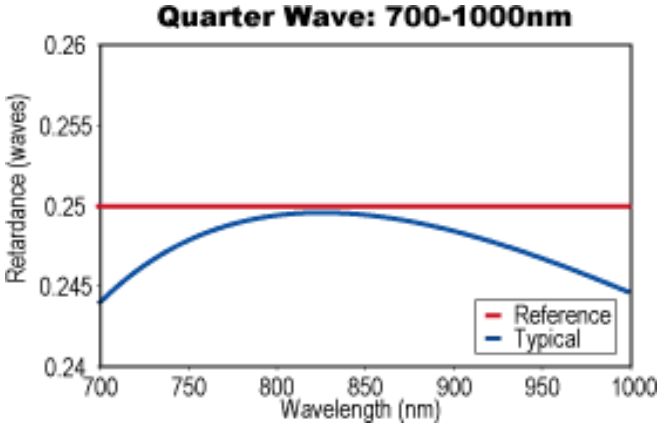
- Multiple Wavelength Ranges Available
- Flat Response Over Each Broad Spectral Range
- λ/4 and λ/2 Retardance
- Mounted in Black Anodized Aluminum Housing

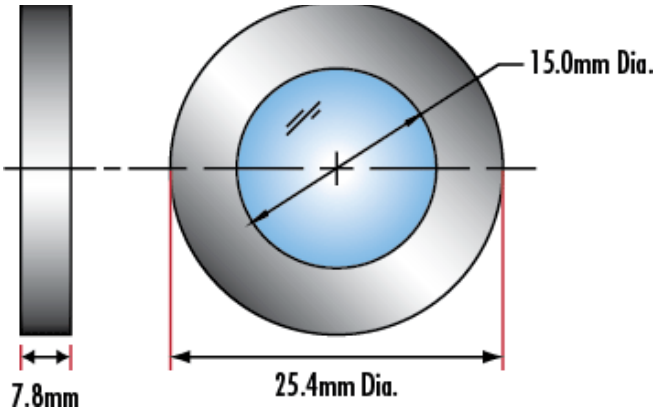
Achromatic Waveplates (Retarders) provide a constant phase shift independent of the wavelength of light that is used. This wavelength independence is achieved by using two different birefringent crystalline materials. The relative shifts in retardation over the wavelength range are balanced between the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

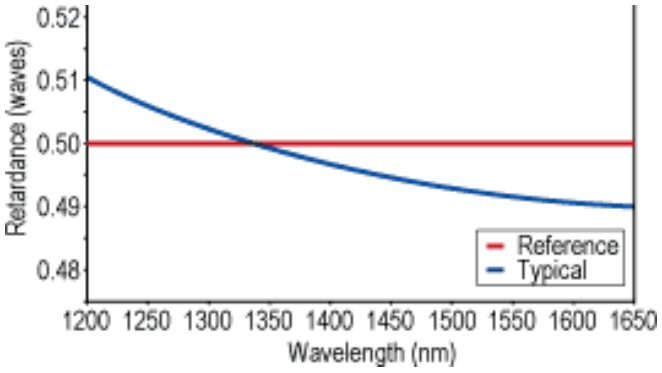
Designed to be used at an angle of incidence of 0°, changes of ±3° will yield less than 1% change in retardance. The 23mm clear aperture waveplates will feature a cemented construction. All Achromatic Waveplates (Retarders) are mounted in an anodized aluminum housing with the fast axis clearly indicated.

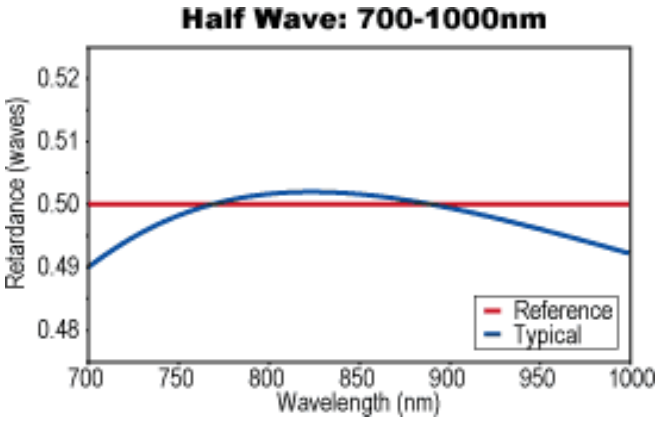
TECHNICAL INFORMATION

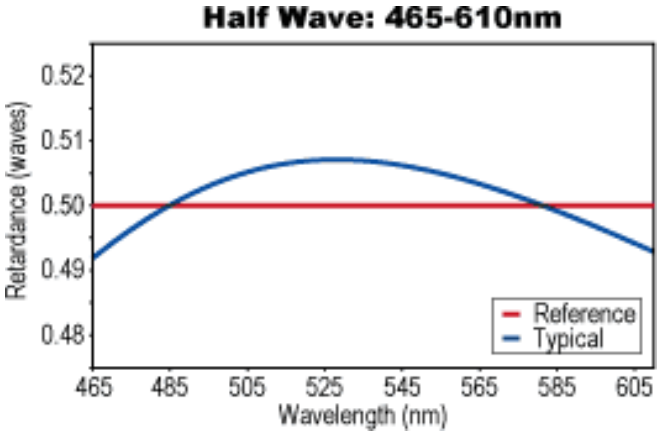


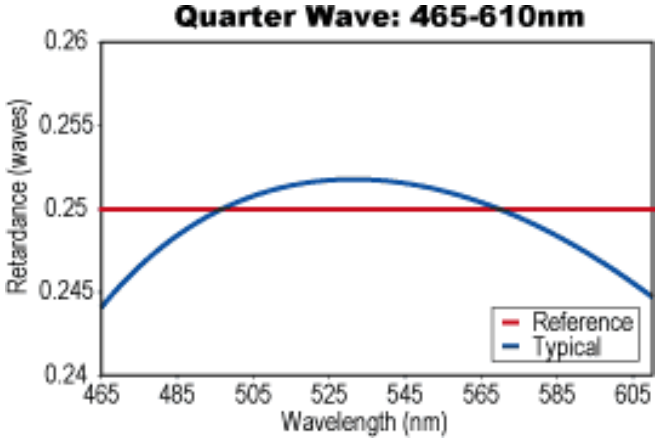


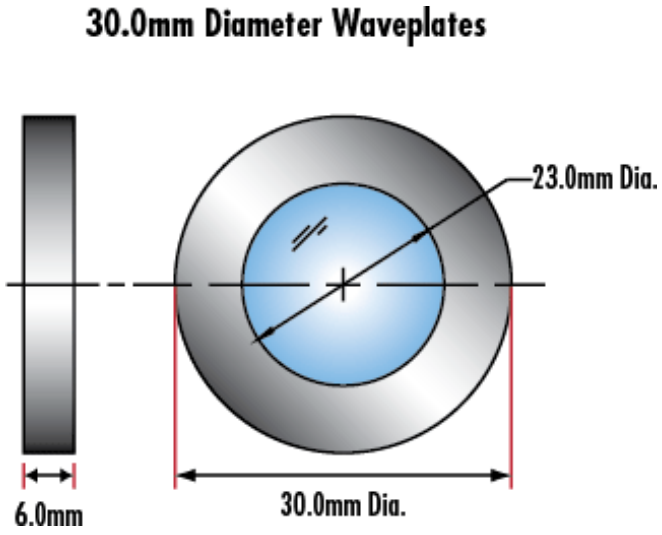












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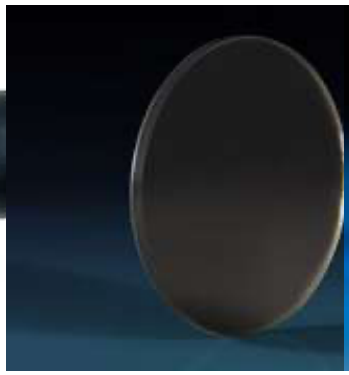

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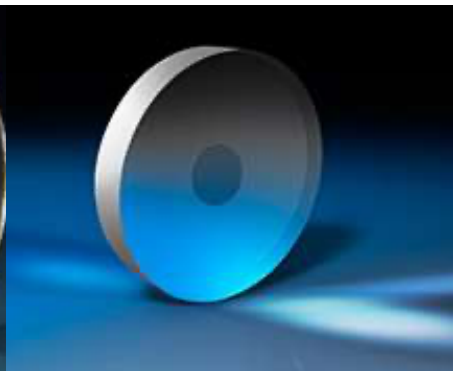

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