

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



Achromatic Waveplates (Retarders)

Stock #39-043 **4 In Stock**

1 **MRP ₹90,801**

Price inclusive of all taxes

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Volume Pricing	
Qty 1-5	₹90,801 each
Qty 6+	₹77,181 each
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Product Downloads	
STEP:step	Curve:pdf
PDF Drawing:pdf	IGES:igs
eDrawing:eprt	
EO Spec Sheet	Download All

General

Type: Achromatic Waveplate	Configuration: Air Spaced
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Physical & Mechanical Properties

Clear Aperture CA (mm): >8.0	Diameter (mm): 12.70
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: $R_{avg} < 0.75\%$ @ 650 - 1100nm	Substrate: Crystal Quartz and MgF ₂
Retardance: $\lambda/2$	Surface Quality: 40-20
Transmitted Wavefront, P-V: $< \lambda/4$ @ 632nm	Retardance Tolerance: $\lambda/100$ @ 20°C
Coating Specification: $R_{avg} < 0.75\%$ @ 650 - 1100nm	Wavelength Range (nm): 650 - 1100
Damage Threshold, By Design: >5 J/cm ² @ 1064nm, 10ns, 10Hz	

Regulatory Compliance

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

Country of Origin: Lithuania

Imported By: Edmund Optics
India Private
Limited
267, Greystone
Building,
Second Floor,
6th Cross Rd,
Binnamangala,
Stage 1,
Indiranagar,
Bengaluru,
Karnataka,
India 560038
Phone: +91-
80-6845 0000

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

Related Products

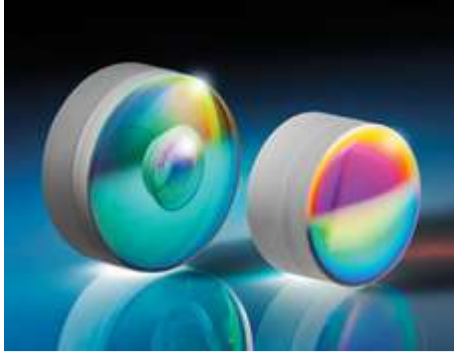


Metric Polarizer Mounts



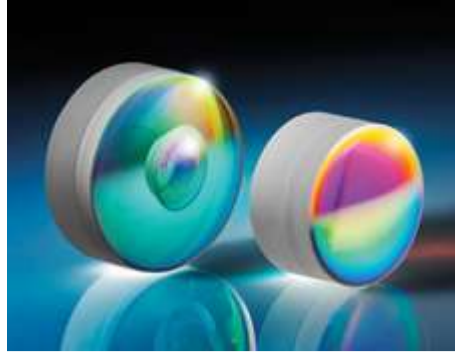
Rotation Kinematic Mounts

Frequently Purchased Together



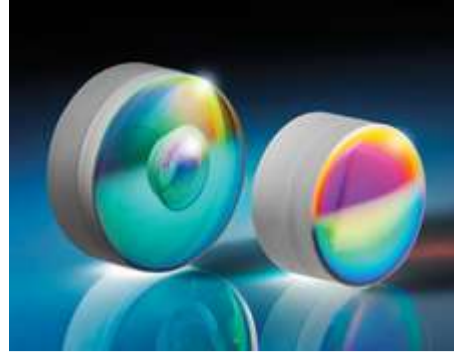
#45-803 - 25mm Dia. x 50mm FL,
NIR II Coated, Achromatic Lens
₹15,134

Qty



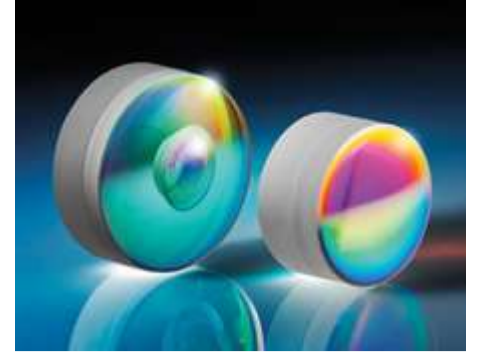
#45-806 - 25mm Dia. x 100mm FL,
NIR II Coated, Achromatic Lens
₹15,134

Qty



#47-271 - 25mm Dia. x 200mm FL,
NIR II Coated, Achromatic Lens
₹15,134

Qty



#47-380 - 25mm Dia. x 150mm FL,
NIR II Coated, Achromatic Lens
₹15,134

Qty

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Media Type

- Application Note
- Technical Tool
- Video
- FAQ
- Glossary

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TECHNICAL TOOL

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