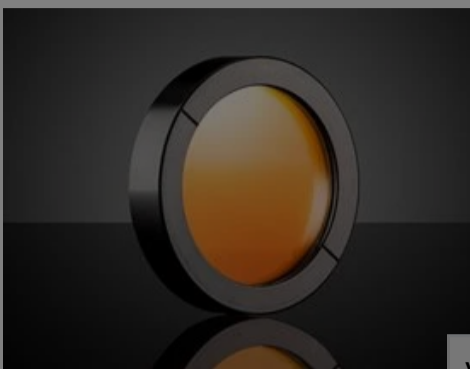


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# 12.7mm Dia. 830nm



- 1 +

€472<sup>00</sup>

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### Product Downloads

- STEP:step
- PDF Drawing:pdf
- IGES:igs
- eDrawing:eprt
- EO Spec Sheet
- [Download All](#)

## General

**Type:** Crystalline Waveplate

## Physical & Mechanical Properties

**Clear Aperture CA (mm):** 8.00

**Diameter (mm):** 12.70  
+0.00/-0.25

**Thickness (mm):** 6.40  
+0.00/-0.25

**Construction:** Crystalline

**Parallelism (arcsec):** <3

## Optical Properties

**Coating:** Laser V-Coat (830nm)

**Design Wavelength DWL (nm):** 830

**Substrate:** Crystal Quartz

**Retardance:**  $\lambda/4$

**Surface Quality:** 10-5

**Transmitted Wavefront, P-V:**  $\lambda/10$  for central 80% of clear aperture

**Retardance Tolerance:**  $\pm\lambda/200$

**Temperature Coefficient ( $\lambda/^\circ\text{C}$ ):** 0.0001

**Retardance Order:** 0

## Regulatory Compliance

RoHS 2015: **Compliant**

Certificate of Conformance: [View](#)

Reach 240: **Compliant**

## Product Details

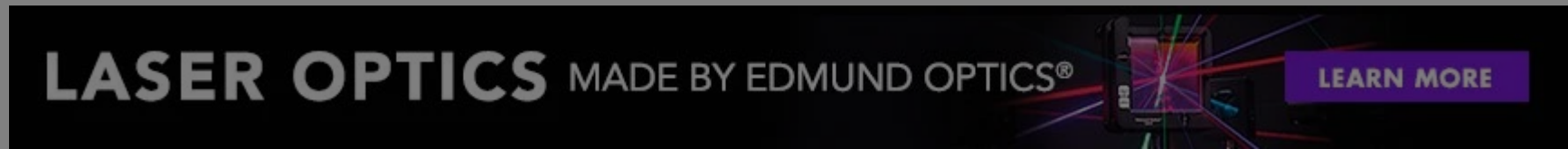
- Zero Order and Multiple Order Waveplates
- $\lambda/4$  and  $\lambda/2$  Retardance
- Mounted in Black Anodized Aluminum Frame
- **Zero Order Polymer Waveplates** Also Available

Quartz Waveplates (Retarders) are available in many sizes and thicknesses for applications where the wavelength deviates less than 1% from the design wavelength. They are recommended due to their increased bandwidth and stability. The part number includes the ease of system integration.

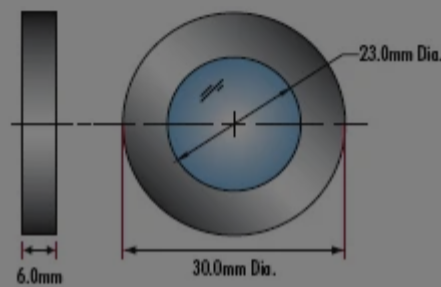
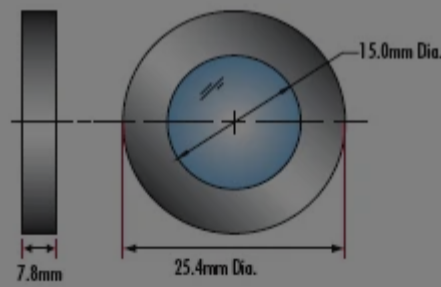
Please select your shipping country to view the most accurate inventory information, and to determine the correct Edmund Optics sales office for your order.

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Zero order waveplates are ideal for applications where the wavelength deviates less than 1% from the design wavelength. They are recommended due to their increased bandwidth and stability. The part number includes the ease of system integration.



## Technical Information



## Related Products



Compact Direct Mounts



Metric Polarizer Mounts



High Energy Quartz Waveplates



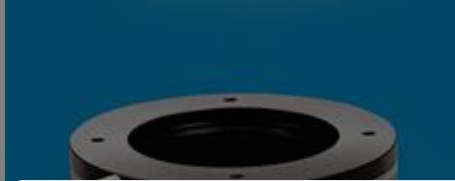
Cotton-Tipped Swab Applicators

## Frequently Purchased Together



#48-891 - 12.5mm Dia. 750-850nm, NIR Linear Polarizer €332,00

Qty



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Qty



€72,00

Qty



#58-182 - 12 Position Filter Wheel Assembly for 0.5" Diameter Filters €625,00

Qty

# Resources

## Media Type

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

**APPLICATION NOTE**  
Introduction to Polarization

**TECHNICAL TOOL**  
Laser-Cut Polymer Polarizer and Retarder...

**APPLICATION NOTE**  
Polymer Polarizers and Retarders

**APPLICATION NOTE**  
Polarizer Selection Guide

**APPLICATION NOTE**  
Understanding Waveplates and Retarders

**VIDEO**  
How Do 3D Movies Work? Polarization

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