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# 25.4mm Dia., $\lambda/2$ @ 1064nm & 800nm Waveplate

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Stock #23-834 **9 In Stock**

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€431<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:** Dual Wavelength Waveplate

## Physical & Mechanical Properties

**Clear Aperture CA (mm):** 18.0

**Diameter (mm):** 25.40 +0/-0.2

**Dimensional Tolerance (mm):** +0/-0.2

**Parallelism (arcsec):** <30

## Optical Properties

**Coating:** R<0.5% @ 400 & 800nm

**Design Wavelength DWL (nm):** 400, 800

**Substrate:** Crystalline Quartz

**Retardance:**  $\lambda/2$  @ 400,  $\lambda/4$  @ 800

**Surface Quality:** 20-10

**Transmitted Wavefront, P-V:**  $<\lambda/10$  @ 632.8nm

**Retardance Tolerance:**  $\lambda/100$  @ 20 °C

**Damage Threshold, By Design:**  $>5 \text{ J/cm}^2$  @ 1064 nm; 10 ns; 10 Hz

**Retardance Order:** Multiple order

## Threading & Mounting

**Mount Thickness (mm):**  $6 \pm 0.2$

## Regulatory Compliance

RoHS 2015: **Compliant**

Certificate of Conformance: [View](#)

Reach 247: **Compliant**

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## Product Details

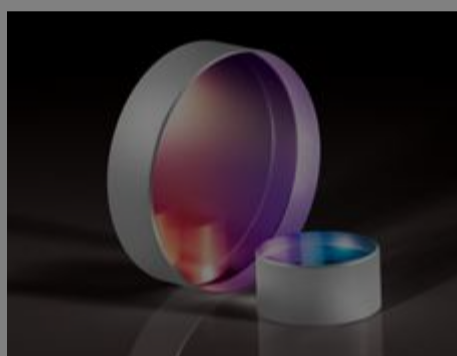
- $\lambda/4$  and  $\lambda/2$  Retardance for Harmonic Separation
- Designed for Nd:YAG, Yb:YAG, or Ti:Sapphire Lasers
- Multiple Order Designs

Dual-Wavelength Quartz Waveplates are made with high-quality crystalline quartz substrates and offer  $\lambda/4$  retardance at one wavelength and  $\lambda/2$  retardance at a second wavelength. Featuring designed wavelengths for Nd:YAG (532 and 1064nm), Yb:YAG (515 and 1030nm), and Ti:Sapphire (400 and 800nm), these waveplates boast high laser damage threshold (LDT) and anti-reflective (AR) coatings for high powered laser applications. Dual-Wavelength Quartz Waveplates are mounted in a 25.4mm black anodized aluminum ring with an 18mm clear aperture. These waveplates are ideal for laser separation applications requiring increased conversion efficiency of dual-wavelength sources or Second-Harmonic Generation (SHG) lasers through management of polarization.

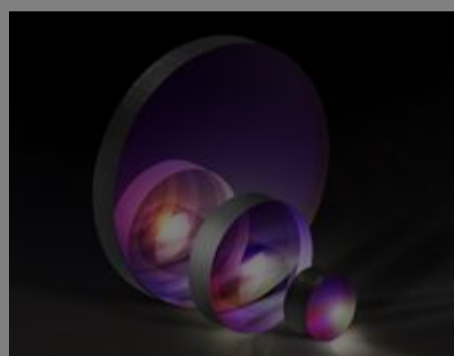
## Related Products



High Energy Quartz Waveplates



Nd:YAG Harmonic Separators



Thin Film Laser Line Polarizers



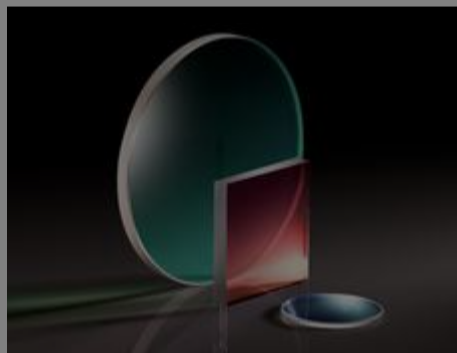
Glan-Type Polarizers

## Frequently Purchased Together



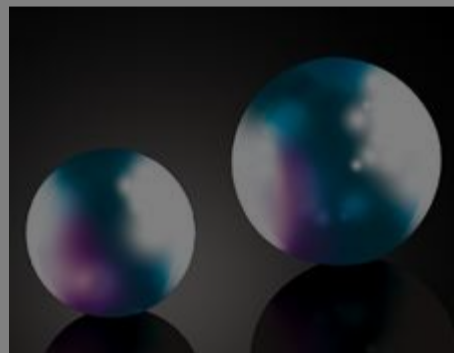
#49-869 - 5mm NIR, Polarizing Cube Beamsplitter  
€286,00

Qty



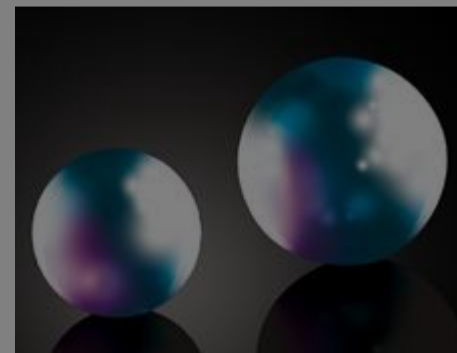
#64-453 - 0° AOI, 12.5mm Diameter, Hot Mirror  
€51,50

Qty



#67-385 - 4.0mm Diameter, Fused Silica Ball Lens  
€53,00

Qty



#67-386 - 5.0mm Diameter, Fused Silica Ball Lens  
€59,50

Qty



## Resources

### Media Type

- Application Note
- Video
- Glossary
- Technical Tool

APPLICATION NOTE

Introduction to Polarization

VIDEO

Beam Combining for Increased Power

GLOSSARY

Pockels Cell

FAQ

Scientific Paper

 TECHNICAL TOOL

 APPLICATION NOTE

 APPLICATION NOTE

Polarizer  
Selection  
Guide

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