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25.4mm Dia., 343nm



High Energy Quartz Waveplates

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Select Your Country/Region: European Union

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1

€655⁰⁰

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Volume Pricing

Qty 1-10	€655,00 each
Qty 11+	€610,00 each
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Prices shown are exclusive of VAT/local taxes

Product Downloads

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

General

Type: High Energy Waveplate

Physical & Mechanical Properties

Clear Aperture CA (mm): 18.0

Diameter (mm): 25.40

Dimensional Tolerance (mm): +0/-0.2

Construction: Optically Bonded on UVFS (C7980) Substrate

Parallelism (arcsec): <3

Optical Properties

Coating: R_{avg} <0.3%

Design Wavelength DWL (nm): 343

Substrate: Crystalline Quartz

Retardance: λ/4

Surface Quality: 20-10

Transmitted Wavefront, P-V: <λ/10 @ 632.8nm

Retardance Tolerance: λ/150 @ 20°C

Damage Threshold, By Design: >20 J/cm² @ 1064nm, 10ns, 10Hz

Retardance Order: 2nd

Threading & Mounting

Mount Thickness (mm): 6 ±0.2

Regulatory Compliance

RoHS 2015: **Compliant**

Certificate of Conformance: [View](#)

Reach 247: **Compliant**

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Product Details

- Damage Threshold up to $>20 \text{ J/cm}^2$ @ 1064nm
- $\lambda/4$ and $\lambda/2$ Retardance
- Black Anodized Aluminum Mount
- UV to NIR Design Wavelengths Available

High Energy Quartz Waveplates are available in both $\lambda/4$ and $\lambda/2$ retardance for discrete laser wavelengths from the UV to NIR and can withstand energy densities up to $>20 \text{ J/cm}^2$ at 1064nm. A large acceptance angle and wide operating temperature range enables these waveplates to be integrated into harsh environments applications. High Energy Quartz Waveplates are mounted in a black anodized aluminum housing for easy identification and system integration.

Related Products



Compact Direct Mounts



Metric Polarizer Mounts



Rotation Kinematic Mounts

Frequently Purchased Together



#39-163 - 25.4mm Dia., 343nm, $\lambda/2$
High Energy Waveplate
€655,00

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

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APPLICATION NOTE

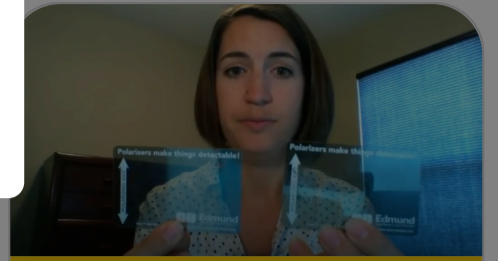
Polarizer
Selection
Guide

APPLICATION NOTE

Understanding
Waveplates
and Retarders

VIDEO

How Do 3D
Movies Work?
Polarization



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