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12.7mm Dia., 1064nm, $\lambda/2$ High Energy Waveplate



High Energy Quartz Waveplates

Stock #25-453 **2 In Stock**

⊖ 1 ⊕ £399²⁰

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Volume Pricing	
Qty 1-10	£399.20 each
Qty 11+	£328.80 each
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

High Energy Waveplate **Type:**

Physical & Mechanical Properties

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

12.70 **Diameter (mm):**

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):
1064

Substrate:
Crystalline Quartz

Retardance:
 $\lambda/2$

Surface Quality:
20-10

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

Retardance Tolerance:
 $\lambda/300$ @ 20°C

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

Retardance Order:
1

Threading & Mounting

Mount Thickness (mm):
6 ±0.2

Regulatory Compliance

RoHS 2015:
[Compliant](#)

Certificate of Conformance:
[View](#)

Reach 247:
[Compliant](#)

Product Details

- Damage Threshold up to >20 J/cm² @ 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 J/cm² 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.