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## 12.7mm Dia., 1064nm, $\lambda/4$ High Energy Waveplate



High Energy Quartz Waveplates

Stock **#25-454** **3 In Stock**

⊖ 1 ⊕ C\$698<sup>00</sup>

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### Volume Pricing

Qty 1-10	C\$698.60 each
Qty 11+	C\$575.40 each
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### 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<sub>avg</sub> <0.3%

**Design Wavelength DWL (nm):**

1064

**Substrate:**

Crystalline Quartz

**Retardance:**

$\lambda/4$

**Surface Quality:**

20-10

**Transmitted Wavefront, P-V:**

< $\lambda/10$  @ 632.8nm

**Retardance Tolerance:**

$\lambda/300$  @ 20°C

**Damage Threshold, By Design:**

>20 J/cm<sup>2</sup> @ 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/cm<sup>2</sup> @ 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/cm<sup>2</sup> 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.