

[See all 30 Products in Family](#)

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



High Energy Quartz Waveplates

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

⊖ 1 ⊕ A\$798<sup>00</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-10	A\$798.40 each
Qty 11+	A\$657.60 each
Need More?	<a href="#">Request Quote</a>

### 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<sub>avg</sub> <0.3%

**Design Wavelength DWL (nm):**

1064

**Substrate:**

Crystalline Quartz

**Retardance:**

λ/4

**Surface Quality:**

20-10

**Transmitted Wavefront, P-V:**

<λ/10 @ 632.8nm

**Retardance Tolerance:**

λ/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
- λ/4 and λ/2 Retardance
- Black Anodized Aluminum Mount
- UV to NIR Design Wavelengths Available

High Energy Quartz Waveplates are available in both λ/4 and λ/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.