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



High Energy Quartz Waveplates

Stock #25-453 **4 In Stock**

⊖ 1 ⊕ **S\$698<sup>00</sup>**

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### Volume Pricing

Qty 1-10	<b>S\$698.60</b> each
Qty 11+	<b>S\$575.40</b> each
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### 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/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.