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## 12.7mm Dia., 1030nm, $\lambda/2$ High Energy Waveplate



High Energy Quartz Waveplates

Stock **#25-451** **1 In Stock**

1  £399<sup>20</sup>

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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):  
1030

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.