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## 25.4mm Dia., 1550nm, $\lambda/4$ High Energy Waveplate



High Energy Quartz Waveplates

Stock **#39-180** **1 In Stock**

⊖ 1 ⊕ £524<sup>00</sup>

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Volume Pricing	
Qty 1-10	£524.00 each
Qty 11+	£488.00 each
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ⓘ Prices shown are exclusive of VAT/local taxes

### Product Downloads

#### General

High Energy Waveplate **Type:**

#### Physical & Mechanical Properties

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

25.40 **Diameter (mm):**

Dimensional Tolerance (mm):  
+0/-0.2

Construction:  
Optically Bonded on UVFS (C7980) Substrate

Parallelism (arcsec):  
<3

## Optical Properties

Coating:  
 $R_{avg} < 0.2\%$

Design Wavelength DWL (nm):  
1550

Substrate:   
Crystalline Quartz

Retardance:  
 $\lambda/4$

Surface Quality:  
20-10

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

Retardance Tolerance:  
 $\lambda/300 @ 20^\circ\text{C}$

Damage Threshold, By Design:   
 $> 20 \text{ J/cm}^2 @ 1064\text{nm}, 10\text{ns}, 10\text{Hz}$

Retardance Order:  
0

## Threading & Mounting

Mount Thickness (mm):  
 $6 \pm 0.2$

## Regulatory Compliance

RoHS 2015:  
[Compliant](#)

Certificate of Conformance:  
[View](#)

Reach 247:  
[Compliant](#)

## Product Details

- Damage Threshold up to  $> 20 \text{ J/cm}^2 @ 1064\text{nm}$
- $\lambda/4$  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  $> 20 \text{ J/cm}^2$  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.