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



High Energy Quartz Waveplates

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

-

1

+

£399²⁰

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Volume Pricing	
Qty 1-10	£399.20 each
Qty 11+	£328.80 each
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Product Downloads

General

Type:

High Energy Waveplate

Physical & Mechanical Properties

Clear Aperture CA (mm):

8.0

Diameter (mm):

12.70

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:	
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 ² @ 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/cm² @ 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/cm² 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.