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25.4mm Dia., 800nm, $\lambda/4$ High Energy Waveplate



High Energy Quartz Waveplates

Stock **#39-174** **1 In Stock**

£524⁰⁰

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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):
800

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:
1st

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