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25.4mm Dia., 800nm, λ/4 High Energy Waveplate

High Energy Quartz Waveplates

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

- 1 + **£524**.00

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Volume Pricing	
Qty 1-10	**£524.00** each
Qty 11+	**£488.00** each
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Product Downloads

General

Type:
High Energy Waveplate

Physical & Mechanical Properties

Clear Aperture CA (mm):
18.0

Diameter (mm):
25.40

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:
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:
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 J/cm^2 @ 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/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.

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