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25.4mm Dia., 800nm, $\lambda/2$ High Energy Waveplate



High Energy Quartz Waveplates

Stock **#39-175** **4 In Stock**

A\$1,048⁰⁰

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Volume Pricing

Qty 1-10	A\$1,048.00 each
Qty 11+	A\$976.00 each
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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:

$\lambda/2$

Surface Quality:

20-10

Transmitted Wavefront, P-V:

< $\lambda/10$ @ 632.8nm

Retardance Tolerance:

$\lambda/300$ @ 20°C

Damage Threshold, By Design:

>20 J/cm² @ 1064nm, 10ns, 10Hz

Retardance Order:

0

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
- $\lambda/4$ 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/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.