

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



High Energy Quartz Waveplates

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

-

1

+

A\$1,048<sup>00</sup>

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| Volume Pricing |                               |
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| Qty 1-10       | A\$1,048.00 each              |
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General

Type:

High Energy Waveplate

Physical & Mechanical Properties

Clear Aperture CA (mm):

18.0

Diameter (mm):

25.40

Dimensional Tolerance (mm):

|                                                                                                            |  |
|------------------------------------------------------------------------------------------------------------|--|
| +0/-0.2                                                                                                    |  |
| <b>Construction:</b><br>Optically Bonded on UVFS (C7980) Substrate                                         |  |
| <b>Parallelism (arcsec):</b><br><br><3                                                                     |  |
| <b>Optical Properties</b>                                                                                  |  |
| <b>Coating:</b><br><br>R <sub>avg</sub> <0.2%                                                              |  |
| <b>Design Wavelength DWL (nm):</b><br><br>1550                                                             |  |
| <b>Substrate:</b> <input type="checkbox"/><br><br>Crystalline Quartz                                       |  |
| <b>Retardance:</b><br><br>λ/4                                                                              |  |
| <b>Surface Quality:</b><br><br>20-10                                                                       |  |
| <b>Transmitted Wavefront, P-V:</b><br><br><λ/10 @ 632.8nm                                                  |  |
| <b>Retardance Tolerance:</b><br><br>λ/300 @ 20°C                                                           |  |
| <b>Damage Threshold, By Design:</b> <input type="checkbox"/><br>>20 J/cm <sup>2</sup> @ 1064nm, 10ns, 10Hz |  |
| <b>Retardance Order:</b><br><br>0                                                                          |  |
| <b>Threading &amp; Mounting</b>                                                                            |  |
| <b>Mount Thickness (mm):</b><br><br>6 ±0.2                                                                 |  |
| <b>Regulatory Compliance</b>                                                                               |  |
| <b>RoHS 2015:</b><br><br><a href="#">Compliant</a>                                                         |  |
| <b>Certificate of Conformance:</b><br><br><a href="#">View</a>                                             |  |
| <b>Reach 247:</b><br><br><a href="#">Compliant</a>                                                         |  |

## Product Details

- Damage Threshold up to >20 J/cm<sup>2</sup> @ 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<sup>2</sup> 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.