

50.8mm Dia. 1030nm $\lambda/4$ Quartz Waveplate Zero Order



Stock #16-890 **1 In Stock**

- 1 + €1.790⁰⁰

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Product Downloads

General

Crystalline Waveplate **Type:**
Air Spaced **Configuration:**

Physical & Mechanical Properties

35.0 **Clear Aperture CA (mm):**
50.80 +0.00/-0.25 **Diameter (mm):**

6.00 +0.00/-0.25 **Thickness (mm):**

Crystalline **Construction:**

<3 **Parallelism (arcsec):**

Optical Properties

Laser V-Coat (1030nm) **Coating:**

1030 **Design Wavelength DWL (nm):**

Crystal Quartz **Substrate:**

$\lambda/4$ **Retardance:**

20-10 **Surface Quality:**

< $\lambda/8$ @ 632.8 nm **Transmitted Wavefront, P-V:**

$\pm\lambda/300$ **Retardance Tolerance:**

0.0001 **Temperature Coefficient ($\lambda/^\circ\text{C}$):**

$R_{\text{rms}} < 0.2\%$ @ on each surface **Coating Specification:**

>10 J/cm² @ 1064 nm, 10ns **Damage Threshold, By Design:**

0 **Retardance Order:**

Regulatory Compliance

[Compliant](#) **RoHS 2015:**

[View](#) **Certificate of Conformance:**

[Compliant](#) **Reach 247:**

Product Details

- Zero Order and Multiple Order Waveplates
- $\lambda/4$ and $\lambda/2$ Retardance
- Mounted in Black Anodized Aluminum Frame
- [Zero Order Polymer Waveplates](#) Also Available

Quartz Waveplates (Retarders) are available in multiple order and zero order. These waveplates are ideal for a range of applications. Multiple order waveplates are ideal for applications where the wavelength deviates less than $\pm 1\%$ from the design wavelength of the waveplate. For applications with a greater than $\pm 1\%$ deviation, zero order waveplates are recommended due to their increased bandwidth and lower sensitivity to temperature change. Quartz Waveplates (Retarders) have the fast axis marked on the edge of the mount to ease system integration.

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Technical Information



