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12.7mm Dia. 1064nm $\lambda/4$ Quartz Waveplate Zero Order



Stock **#85-029** 10 In Stock

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1

+

S\$660^{.80}

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General

Type:

Crystalline Waveplate

Physical & Mechanical Properties

Clear Aperture CA (mm):

8.00

Diameter (mm):

12.70 +0.00/-0.25

Thickness (mm):

6.40 +0.00/-0.25

Construction:

Crystalline	
<3	Parallelism (arcsec):
Optical Properties	
Laser V-Coat (1064nm)	Coating:
1064	Design Wavelength DWL (nm):
Crystal Quartz	Substrate: ☐
$\lambda/4$	Retardance:
10-5	Surface Quality:
$\lambda/10$ for central 80% of clear aperture	Transmitted Wavefront, P-V:
$\pm\lambda/200$	Retardance Tolerance:
0.0001	Temperature Coefficient ($\lambda/^{\circ}\text{C}$):
3.5 J/cm ² @ 1064nm, 10ns	Damage Threshold, By Design: ☐
0	Retardance Order:
Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 240:

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

