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12.7mm Dia. 343nm λ /4 Quartz Waveplate Zero Order



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1

+

A\$755^{.20}

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General

Type:

Crystalline Waveplate

Configuration:

Air Spaced

Physical & Mechanical Properties

Clear Aperture CA (mm):

8.0

Diameter (mm):

12.70 +0.00/-0.25

Thickness (mm):

6.00 +0.00/-0.25	
Crystalline	Construction:
<3	Parallelism (arcsec):
Optical Properties	
Laser V-Coat (343nm)	Coating:
343	Design Wavelength DWL (nm):
Crystal Quartz	Substrate: ☐
$\lambda/4$	Retardance:
10-5	Surface Quality:
< $\lambda/10$ @ 632.8 nm	Transmitted Wavefront, P-V:
$\pm\lambda/300$	Retardance Tolerance:
0.0001	Temperature Coefficient ($\lambda/^{\circ}\text{C}$):
$R_{\text{abs}} < 0.2\%$ @ on each surface	Coating Specification:
$>10 \text{ J/cm}^2$ @ 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.



Technical Information



