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12.7mm Dia., 1030nm, $\lambda/4$ High Energy Waveplate



High Energy Quartz Waveplates

Stock **#25-452** **9 In Stock**

-

1

+

C\$698⁶⁰

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Volume Pricing	
Qty 1-10	C\$698.60 each
Qty 11+	C\$575.40 each
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General

Type:

High Energy Waveplate

Physical & Mechanical Properties

Clear Aperture CA (mm):

8.0

Diameter (mm):

12.70

Dimensional Tolerance (mm):

+0/-0.2	
Construction: Optically Bonded on UVFS (C7980) Substrate	
Parallelism (arcsec): <3	
Optical Properties	
Coating: R_{avg} <0.3%	
Design Wavelength DWL (nm): 1030	
Substrate: Crystalline Quartz	
Retardance: λ/4	
Surface Quality: 20-10	
Transmitted Wavefront, P-V: <λ/10 @ 632.8nm	
Retardance Tolerance: λ/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
- 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/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.