

12.7mm Dia., 1064nm, $\lambda/2$ High Energy Waveplate



High Energy Quartz Waveplates

Stock **#25-453** **4 In Stock**

-

1

+

S\$843⁸³

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Qty 1-10	S\$843.83 each
Qty 11+	S\$724.35 each
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SPECIFICATIONS

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):
1064	

	Substrate: ☐
Crystalline Quartz	
	Retardance:
$\lambda/2$	

	Surface Quality:
20-10	
	Transmitted Wavefront, P-V:
< $\lambda/10$ @ 632.8nm	

	Retardance Tolerance:
$\lambda/300$ @ 20°C	
	Damage Threshold, By Design: ☐
>20 J/cm ² @ 1064nm, 10ns, 10Hz	

	Retardance Order:
1	

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
 - $\lambda/4$ and $\lambda/2$ Retardance
 - Black Anodized Aluminum Mount
 - UV to NIR Design Wavelengths Available
- High Energy Quartz Waveplates are available in both $\lambda/4$ and $\lambda/2$ 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.