

25.4mm Dia., $\lambda/2$ at 400nm and $\lambda/4$ at 800nm, Dual Wavelength Waveplate



Stock #23-834 9 In Stock

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1

+

€431^{.00}

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General

Dual Wavelength Waveplate

Type:

Physical & Mechanical Properties

18.0

Clear Aperture CA (mm):

25.40 +0/-0.2

Diameter (mm):

+0/-0.2	Dimensional Tolerance (mm):
<30	Parallelism (arcsec):
Optical Properties	
R<0.5% @ 400 & 800nm	Coating:
400, 800	Design Wavelength DWL (nm):
Crystalline Quartz	Substrate: ☐
$\lambda/2$ @ 400, $\lambda/4$ @ 800	Retardance:
20-10	Surface Quality:
< $\lambda/10$ @ 632.8nm	Transmitted Wavefront, P-V:
$\lambda/100$ @ 20 °C	Retardance Tolerance:
>5 J/cm ² @ 1064 nm; 10 ns; 10 Hz	Damage Threshold, By Design: ☐
Multiple order	Retardance Order:
Threading & Mounting	
6 ±0.2	Mount Thickness (mm):
Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 247:

Product Details

- $\lambda/4$ and $\lambda/2$ Retardance for Harmonic Separation
- Designed for Nd:YAG, Yb:YAG, or Ti:Sapphire Lasers
- Multiple Order Designs

Dual-Wavelength Quartz Waveplates are made with high-quality crystalline quartz substrates and offer $\lambda/4$ retardance at one wavelength and $\lambda/2$ retardance at a second wavelength. Featuring designed wavelengths for Nd:YAG (532 and 1064nm), Yb:YAG (515 and 1030nm), and Ti:Sapphire (400 and 800nm), these waveplates boast high laser damage threshold (LDT) and anti-reflective (AR) coatings for high powered laser applications. Dual-Wavelength Quartz Waveplates are mounted in a 25.4mm black anodized aluminum ring with an 18mm clear aperture. These waveplates are ideal for laser separation applications requiring increased conversion efficiency of dual-wavelength sources or Second-Harmonic Generation (SHG) lasers through management of polarization.