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25.4mm Dia., λ/2 at 515nm and λ/4 at 1030nm, Dual Wavelength Waveplate

Stock **#23-750** **13 In Stock**

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C$603.40

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Qty 1-5	**C$603.40** each
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General

Type:

Dual Wavelength Waveplate

Physical & Mechanical Properties

Clear Aperture CA (mm):

18.0

Diameter (mm):

25.40 +0/-0.2

Dimensional Tolerance (mm):

+0/-0.2

Parallelism (arcsec):
<30

Optical Properties

Coating:
R<0.5% @ 515 & 1030nm

Design Wavelength DWL (nm):
515, 1030

Substrate:
Crystalline Quartz

Retardance:
λ/2 @ 515, λ/4 @ 1030

Surface Quality:
20-10

Transmitted Wavefront, P-V:
<λ/10 @ 632.8nm

Retardance Tolerance:
λ/70 @ 20 °C

Damage Threshold, By Design:
>5 J/cm^2 @ 1064 nm; 10 ns; 10 Hz

Retardance Order:
Multiple order

Threading & Mounting

Mount Thickness (mm):
6 ±0.2

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

Reach 247:
Compliant

Product Details

- λ/4 and λ/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 λ/4 retardance at one wavelength and λ/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.

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