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



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1

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S\$603^{.40}

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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% @ 400 & 800nm
Design Wavelength DWL (nm):		400, 800
Substrate: ☐		Crystalline Quartz
Retardance:		$\lambda/4$ @ 400, $\lambda/2$ @ 800
Surface Quality:		20-10
Transmitted Wavefront, P-V:		< $\lambda/10$ @ 632.8nm
Retardance Tolerance:		$\lambda/100$ @ 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

- $\lambda/4$ 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.