

25.4mm Dia., $\lambda/2$ at 532nm and $\lambda/4$ at 1064nm, Dual Wavelength Waveplate



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+

£344^{.80}

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Volume Pricing	
Qty 1-5	£344.80 each
Qty 6+	£313.60 each
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Product Downloads	
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% @ 532 & 1064nm		Coating:
532, 1064		Design Wavelength DWL (nm):
Crystalline Quartz		Substrate: ☐
$\lambda/2$ @ 532, $\lambda/4$ @ 1064		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.