

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



Stock #23-749 **9 In Stock**

⊖ 1 ⊕ S\$603<sup>00</sup>

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### Volume Pricing

Qty 1-5	S\$603.40 each
Qty 6+	S\$548.80 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):**

Parallelism (arcsec):

<30

## Optical Properties

Coating:

R<0.5% @ 532 & 1064nm

Design Wavelength DWL (nm):

532, 1064

Substrate:

Crystalline Quartz

Retardance:

$\lambda/2$  @ 532,  $\lambda/4$  @ 1064

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<sup>2</sup> @ 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.