

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



Stock #23-748 [CONTACT US](#)

- 1 + A\$689⁰⁰

[ADD TO CART](#)

Volume Pricing	
Qty 1-5	A\$689.60 each
Qty 6+	A\$627.20 each
Need More?	Request Quote

Product Downloads

SPECIFICATIONS

General

Dual Wavelength Waveplate **Type:**

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% @ 532 & 1064nm

Design Wavelength DWL (nm):

532, 1064

Substrate:

Crystalline Quartz

Retardance:

$\lambda/4$ @ 532, $\lambda/2$ @ 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/cm² @ 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.