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



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

- 1 + €431<sup>00</sup>

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### Volume Pricing

Qty 1-5	€431,00 each
Qty 6+	€392,00 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):**

**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:**

$\lambda/2$  @ 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.