

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



Stock #23-749 20+ In Stock

-

1

+

C\$603<sup>40</sup>

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| Volume Pricing |                               |
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| Qty 1-5        | C\$603.40 each                |
| Qty 6+         | C\$548.80 each                |
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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% @ 532 & 1064nm                        |
| Design Wavelength DWL (nm):                           |  | 532, 1064                                    |
| Substrate: <input type="checkbox"/>                   |  | 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: <input type="checkbox"/> |  | >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     |                             |
|---------------------------|-----------------------------|
| <a href="#">Compliant</a> | RoHS 2015:                  |
| <a href="#">View</a>      | Certificate of Conformance: |
| <a href="#">Compliant</a> | 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.