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Low Order Ultra High LDT Waveplate $\lambda/2$ 1030nm 25.4mm Dia



Stock #70-197 **2 In Stock**

MRP ₹90,801

Price inclusive of all taxes

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Qty 1+	₹90,801 each
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General

Crystalline Waveplate **Type:**

Physical & Mechanical Properties

>20 **Clear Aperture CA (mm):**

25.40 +0.00/-0.25 **Diameter (mm):**

Air-Spaced **Construction:**

Parallelism (arcsec):

<3

Optical Properties

Coating:
R_{avg}<0.1% on each surface

Design Wavelength DWL (nm):
1030

Substrate:
Crystal Quartz

Retardance:
λ/2

Surface Quality:
20-10

Transmitted Wavefront, P-V:
<λ/10 @ 632.8mm

Retardance Tolerance:
<λ/500 @ 20C

Damage Threshold, By Design:
>0.5 J/cm² @ 1030 nm; 200 fs

Threading & Mounting

Mount Thickness (mm):
6.00 +0.00/-0.25

Regulatory Compliance

RoHS 2015:
[Compliant](#)

Certificate of Conformance:
[View](#)

Reach 247:
[Compliant](#)

Country of Origin:
Lithuania

Imported By:
Edmund Optics India Private Limited
267, Greystone Building, Second Floor,
6th Cross Rd, Binnamangala,
Stage 1, Indiranagar, Bengaluru,
Karnataka, India 560038
Phone: +91- 80-6845 0000

Product Details

- High Laser Damage Threshold at Common Laser Processing Wavelengths
- λ/500 Retardance Tolerance
- Ideal for Material Machining Applications

Precision Waveplates for Laser Processing offer an exceptional damage threshold making them ideal for material processing and other high energy applications. These waveplates feature a premium retardance tolerance of λ/500, enabling their use in sensitive applications requiring high precision and stability. Designed as zero order, these waveplates allow for a greater than ±1% wavelength deviation due to their increased bandwidth and lower sensitivity to temperature change. Precision Waveplates for Laser Processing are available in 25.4 and 50.8mm diameters and are designed for commonly used material machining wavelengths of 532, 1030, and 1064nm. The waveplates designed for use with Nd:YAG laser wavelengths feature damage thresholds up to 35J/cm² @ 1064nm with 10ns pulses while the waveplates designed for Yb:YAG feature damage thresholds up to 0.5 J/cm² @ 1030 nm with 200fs pulses.