

$\lambda/2$ 735-985nm, Polymer Achromatic Retarder



Stock **#49-229** **1 In Stock**

⊖ 1 ⊕ **S\$1,750⁰⁰**

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Volume Pricing

Qty 1-5	S\$1,750.00 each
Qty 6+	S\$1,554.00 each
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General

Achromatic Waveplate **Type:**

Physical & Mechanical Properties

10.16 **Clear Aperture CA (mm):**

25.40 **Diameter (mm):**

6.35 ±0.508 **Thickness (mm):**

±0.127 **Dimensional Tolerance (mm):**

Birefringent Polymer Stack **Construction:**

Optical Properties

N-BK7 **Substrate:**

0.5 **Reflection (%):**

$\lambda/2$ **Retardance:**

40-20 **Surface Quality:**

$\lambda/4$ @ 632.8nm **Transmitted Wavefront, P-V:**

$\lambda/100$ **Retardance Tolerance:**

1.00 **Beam Deviation (arcmin):**

735 - 985 **Wavelength Range (nm):**

500 W/cm² **Damage Threshold, By Design:**

Threading & Mounting

6.35 **Mount Thickness (mm):**

Environmental & Durability Factors

-20 to +50 **Operating Temperature (°C):**

Regulatory Compliance

Compliant **RoHS 2015:**

View **Certificate of Conformance:**

Compliant **REACH 241:**

Product Details

- Broad Spectral Range
- $\lambda/100$ Retardance Accuracy
- $\lambda/4$ and $\lambda/2$ Retardance
- High Damage Threshold of 500 W/cm²

Precision Achromatic Waveplates (Retarders) consist of a polymer stack layered between two precision BK7 windows, and are available in standard $\lambda/4$ and $\lambda/2$ options for common visible and NIR wavelengths. These waveplates (retarders) will experience less than 1% retardance change over a $\pm 10^\circ$ angle of incidence. Each Precision Achromatic Waveplates (Retarders) is mounted in a metal ring with the fast axis clearly marked.

Technical Information

