

## λ/4 735-985nm, Polymer Achromatic Retarder



Stock **#49-234** 1 In Stock

-

1

+

A\$2,000<sup>.00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | A\$2,000.00 each              |
| Qty 6+         | A\$1,776.00 each              |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

General

Type:

Achromatic Waveplate

Physical & Mechanical Properties

Clear Aperture CA (mm):

10.16

Diameter (mm):

25.40

Thickness (mm):

6.35 ±0.508

|                                    |                                                       |
|------------------------------------|-------------------------------------------------------|
| ±0.127                             | Dimensional Tolerance (mm):                           |
| Birefringent Polymer Stack         | Construction:                                         |
| Optical Properties                 |                                                       |
| N-BK7                              | Substrate: <input type="checkbox"/>                   |
| 0.5                                | Reflection (%):                                       |
| λ/4                                | Retardance:                                           |
| 40-20                              | Surface Quality:                                      |
| λ/4 @ 632.8nm                      | Transmitted Wavefront, P-V:                           |
| λ/100                              | Retardance Tolerance:                                 |
| 1.00                               | Beam Deviation (arcmin):                              |
| 735 - 985                          | Wavelength Range (nm):                                |
| 500 W/cm²                          | Damage Threshold, By Design: <input type="checkbox"/> |
| 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
- λ/100 Retardance Accuracy
- λ/4 and λ/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 λ/4 and λ/2 options for common visible and NIR wavelengths. These waveplates (retarders) will experience less than 1% retardance change over a ±10° angle of incidence. Each Precision Achromatic Waveplates (Retarders) is mounted in a metal ring with the fast axis clearly marked.

## Technical Information

