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## 830nm, $\lambda/4$ Precision Zero Order Retarder



Stock **#49-224** 4 In Stock

-

1

+

C\$1,057<sup>00</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | C\$1,057.00 each              |
| Qty 6+         | C\$840.00 each                |
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Product Downloads

| General                          |                         |
|----------------------------------|-------------------------|
| Polymer Waveplate                | Type:                   |
| Physical & Mechanical Properties |                         |
| 10.16                            | Clear Aperture CA (mm): |
| 25.40                            | Diameter (mm):          |

|                                       |                                                       |
|---------------------------------------|-------------------------------------------------------|
| ±0.508                                | Thickness Tolerance (mm):                             |
| ±0.127                                | Dimensional Tolerance (mm):                           |
| Birefringent Polymer Stack            | Construction:                                         |
| Optical Properties                    |                                                       |
| 830                                   | Design Wavelength DWL (nm):                           |
| Polymer Film on <a href="#">N-BK7</a> | Substrate: <input type="checkbox"/>                   |
| 0.5                                   | Reflection (%):                                       |
| $\lambda/4$                           | Retardance:                                           |
| 40-20                                 | Surface Quality:                                      |
| $\leq \lambda/5$ @ 632.8nm            | Transmitted Wavefront, RMS:                           |
| $\lambda/350$                         | Retardance Tolerance:                                 |
| 1.00                                  | Beam Deviation (arcmin):                              |
| 500 W/cm <sup>2</sup>                 | Damage Threshold, By Design: <input type="checkbox"/> |
| 0                                     | Retardance Order:                                     |

Threading & Mounting

|      |                       |
|------|-----------------------|
| 6.35 | Mount Thickness (mm): |
|------|-----------------------|

Environmental & Durability Factors

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

Regulatory Compliance

|                           |                             |
|---------------------------|-----------------------------|
| <a href="#">Compliant</a> | RoHS 2015:                  |
| <a href="#">View</a>      | Certificate of Conformance: |
| <a href="#">Compliant</a> | REACH 241:                  |

## Product Details

- $\lambda/4$  and  $\lambda/2$  Retardance
- Excellent Angular Field of View
- Birefringent Polymer Stack
- High Damage Threshold of 500 W/cm<sup>2</sup>

Precision Zero Order Waveplates (Retarders) feature carefully aligned birefringent polymer sheets laminated between two precision N-BK7 windows, and are available in standard  $\lambda/4$  and  $\lambda/2$  options for common visible and NIR wavelengths. These polymer waveplates (retarders) offer excellent angular field of view because they are true zero-order retarders. Also, they will experience less than 1% retardance change over a  $\pm 10^\circ$  angle of incidence. Each Precision Zero Order Waveplates (Retarders) is mounted in a metal ring with the fast axis clearly marked.