

[See all 18 Products in Family](#)

## 830nm, $\lambda/2$ Precision Zero Order Retarder



Stock #49-215 **3 In Stock**

- 1 + €755<sup>00</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-5	€755,00 each
Qty 6+	€600,00 each
Need More?	<a href="#">Request Quote</a>

**!** Prices shown are exclusive of VAT/local taxes

### Product Downloads

### General

Polymer Waveplate **Type:**

### Physical & Mechanical Properties

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

25.40	<b>Diameter (mm):</b>
±0.508	<b>Thickness Tolerance (mm):</b>
±0.127	<b>Dimensional Tolerance (mm):</b>

Birefringent Polymer Stack	<b>Construction:</b>
----------------------------	----------------------

## Optical Properties

830	<b>Design Wavelength DWL (nm):</b>
-----	------------------------------------

Polymer Film on <a href="#">N-BK7</a>	<b>Substrate:</b> <input type="checkbox"/>
---------------------------------------	--

0.5	<b>Reflection (%):</b>
-----	------------------------

$\lambda/2$	<b>Retardance:</b>
-------------	--------------------

40-20	<b>Surface Quality:</b>
-------	-------------------------

$\leq \lambda/5$ @ 632.8nm	<b>Transmitted Wavefront, RMS:</b>
----------------------------	------------------------------------

$\lambda/350$	<b>Retardance Tolerance:</b>
---------------	------------------------------

1.00	<b>Beam Deviation (arcmin):</b>
------	---------------------------------

500 W/cm <sup>2</sup>	<b>Damage Threshold, By Design:</b> <input type="checkbox"/>
-----------------------	--

0	<b>Retardance Order:</b>
---	--------------------------

## Threading & Mounting

6.35	<b>Mount Thickness (mm):</b>
------	------------------------------

## Environmental & Durability Factors

-20 to +50	<b>Operating Temperature (°C):</b>
------------	------------------------------------

## Regulatory Compliance

<a href="#">Compliant</a>	<b>RoHS 2015:</b>
---------------------------	-------------------

<a href="#">View</a>	<b>Certificate of Conformance:</b>
----------------------	------------------------------------

<a href="#">Compliant</a>	<b>REACH 241:</b>
---------------------------	-------------------

## 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.