

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



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

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+

S\$1,057⁰⁰

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Volume Pricing	
Qty 1-5	S\$1,057.00 each
Qty 6+	S\$840.00 each
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SPECIFICATIONS

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 N-BK7	Substrate:
0.5	Reflection (%):
$\lambda/2$	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 ²	Damage Threshold, By Design:
0	Retardance Order:
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

- $\lambda/4$ and $\lambda/2$ Retardance
- Excellent Angular Field of View
- Birefringent Polymer Stack
- High Damage Threshold of 500 W/cm²

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.