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800nm, λ/4 Precision Zero Order Retarder

Stock **#49-223** **1 In Stock**

- 1 + **S$1,057**.00

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Qty 1-5	**S$1,057.00** each
Qty 6+	**S$840.00** each
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General

Type:

Polymer Waveplate

Physical & Mechanical Properties

Clear Aperture CA (mm):

10.16

Diameter (mm):

25.40

Thickness Tolerance (mm):
±0.508

Dimensional Tolerance (mm):
±0.127

Construction:
Birefringent Polymer Stack

Optical Properties

Design Wavelength DWL (nm):
800

Substrate:
Polymer Film on N-BK7

Reflection (%):
0.5

Retardance:
λ/4

Surface Quality:
40-20

Transmitted Wavefront, RMS:
≤λ/5 @ 632.8nm

Retardance Tolerance:
λ/350

Beam Deviation (arcmin):
1.00

Damage Threshold, By Design:
500 W/cm^2

Retardance Order:
0

Threading & Mounting

Mount Thickness (mm):
6.35

Environmental & Durability Factors

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

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

REACH 241:
Compliant

Product Details

- λ/4 and λ/2 Retardance
- Excellent Angular Field of View
- Birefringent Polymer Stack
- High Damage Threshold of 500 W/cm^2

Precision Zero Order Waveplates (Retarders) feature carefully aligned birefringent polymer sheets laminated between two precision N-BK7 windows, and are available in standard λ/4 and λ/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 ±10° angle of incidence. Each Precision Zero Order Waveplates (Retarders) is mounted in a metal ring with the fast axis clearly marked.

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