800nm, λ/4 Precision Zero Order Retarder

Stock **#49-223** **2 In Stock**

- 1 + **S$1,057.00**

ADD TO CART

Volume Pricing	
Qty 1-5	**S$1,057.00** each
Qty 6+	**S$840.00** each
Need More?	Request Quote

Product Downloads

SPECIFICATIONS

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.