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Wide Angle λ/2 Waveplate, 25.4mm Dia. 532nm

Stock **#29-812** **1 In Stock**

- 1 + **S$2,982**.00

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General

Type:
Polymer Waveplate

Physical & Mechanical Properties

Clear Aperture CA (mm):
17.8

Diameter (mm):
25.40

Dimensional Tolerance (mm):
+/- 0.13

Optical Properties

Angle of Incidence (°):
±30

Design Wavelength DWL (nm):
532

Substrate:
Polymer Film on N-BK7

Reflection (%):
0.5

Retardance:
λ/2

Surface Quality:
60-40

Transmitted Wavefront, RMS:
≤ λ/2 @ 632.8nm

Retardance Tolerance:
≤ λ/250 @ 0 deg AOI, λ/100 at 30 deg

Beam Deviation (arcmin):
≤ 1 arcmin

Threading & Mounting

Mount Thickness (mm):
6.35

Environmental & Durability Factors

Operating Temperature (°C):
0 - 40

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

REACH 241:
Compliant

Product Details

- Up To λ/250 Retardance Tolerances Out to 30° AOI
- Near Zero-Order Laminated Polymer Construction
- Ideal for Applications with Wide Acceptance Angles

Wide Angle Waveplates are designed to accept a large range of input angles, up to 30° AOI, with minimal retardance shift at non-zero angles of incidence. These waveplates are available with visible or NIR designed wavelengths of 532, 633, 1064 or 1550nm and with λ/2 or λ/4 retardance values. Featuring ≤λ/250 quarter-wave and ≤λ/100 half-wave retardance accuracies at the center, these waveplates are ideal for applications that require low sensitivity to AOI. Wide Field Waveplates are mounted and constructed with birefringent polymer on a N-BK7 substrate and coated with BBAR coatings.

Note: The fast axis is marked with a line.

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