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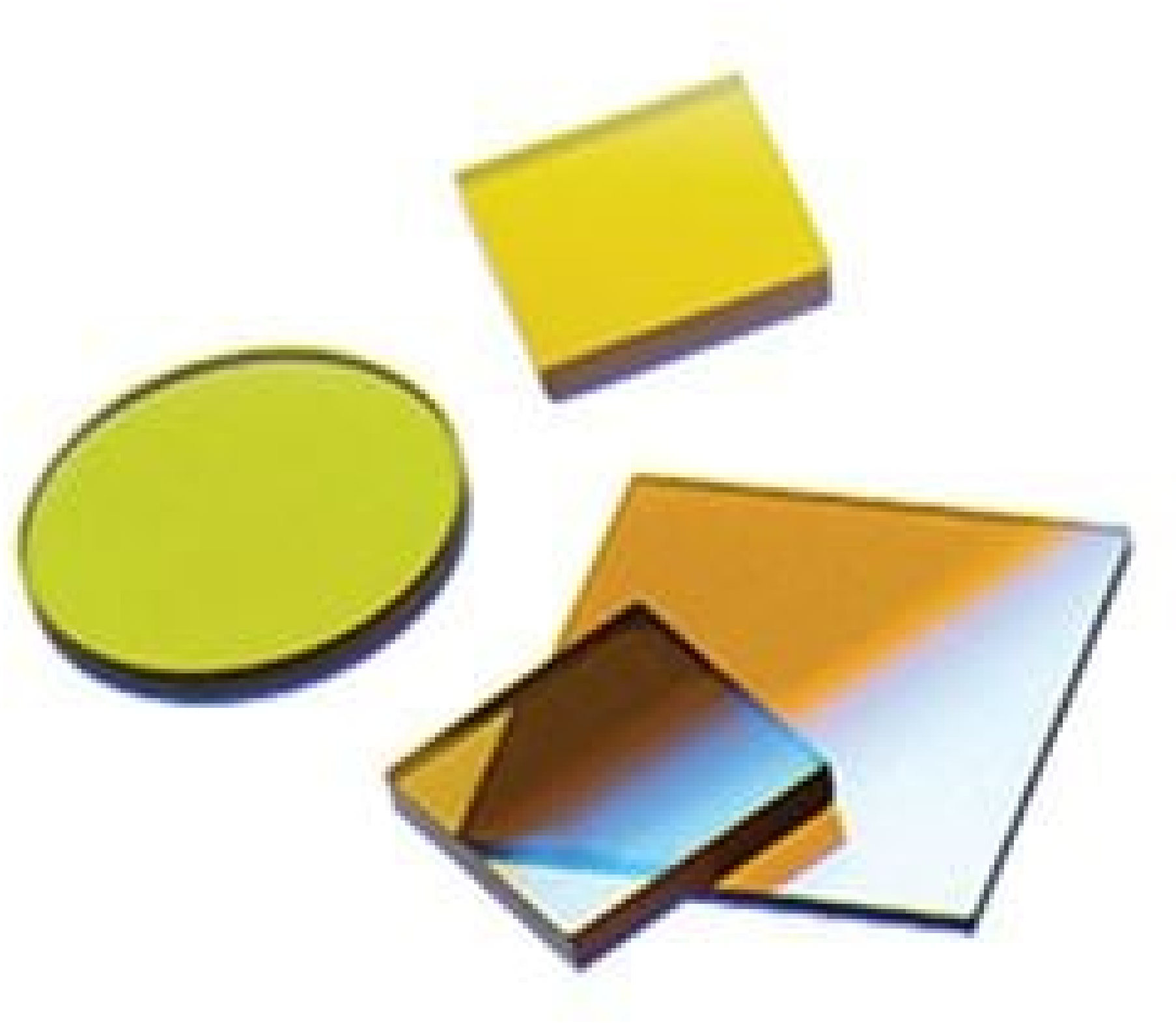
12.5mm Dia., 800nm, Corning Polarcor™ Glass Polarizer



Corning Polarcor™ Glass Polarizers

Stock **#13-614** **4 In Stock**

- 1 + **A$1,112**.00

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Volume Pricing	
Qty 1+	**A$1,112.00** each
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Product Downloads

Physical & Mechanical Properties

Diameter (mm):	12.50
Thickness (mm):	0.50 ±0.05
Dimensional Tolerance (mm):	±0.1
Knoop Hardness (kg/mm^2):	480.00
Young's Modulus (GPa):	58.605

Poisson's Ratio:
0.21

Optical Properties

Angle of Incidence (°):
0 ±5

Coating:
BBAR (740-860nm)

Design Wavelength DWL (nm):
800

Extinction Ratio:
>10,000:1

Substrate:
Borosilicate Glass Containing Elongated Silver Crystals

Minimum Transmission (%):
>91.3

Surface Quality:
40-20

Coating Specification:
R_{avg} <0.4% @ 740 - 860nm

Wavelength Range (nm):
740 - 860

Index of Refraction (n_d):
1.5161

Abbe Number (v_d):
57.6

Hardware & Interface Connectivity

Insertion Loss (dB):
<0.39

Material Properties

Coefficient of Thermal Expansion CTE (10^{-6}/°C):
6.5

Density (g/cm^3):
2.412

Regulatory Compliance

RoHS 2015:
Compliant

Reach 224:
Compliant

Certificate of Conformance:
View

Need different specs or modifications?

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our custom manufacturing capabilities or submit an inquiry here.

Product Details

- High Extinction Ratio and Low Insertion Loss in the NIR
- Resistant to Chemical, Physical, and Thermal Damage
- Suitable for High Power Applications
- Range of Standard Sizes and Custom Options Available

Corning Polarcor™ Glass Polarizers feature a high extinction ratio and low insertion loss at wavelengths in the NIR. These linear polarizers consist of elongated silver crystals aligned within a borosilicate glass substrate, providing a polarization mechanism based on resonant absorption. This polarization mechanism causes light of unwanted polarization directions to be absorbed, ensuring that stray light is eliminated. Corning Polarcor™ Glass Polarizers can be used to polarize light, block polarized light, reduce reflections, improve image contrast, modulate and control the intensity of light, or improve the signal to noise ratio. These polarizers are ideal for integration into polarization-dependent optical isolators, optical modulators, and other polarization-based devices in the telecommunications, medical, and defense industries.

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