

# Quartz Wollaston Polarizer



Stock #68-820 [CONTACT US](#)

S\$1,057<sup>00</sup>

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**General**

Linear Polarizer Type:

**Physical & Mechanical Properties**

10.0 Clear Aperture CA (mm):

25.40 Diameter (mm):

28.00 Length (mm):

Dimensional Tolerance (mm):

+0.0/-0.2

Crystalline Wollaston Polarizer **Construction:**

±0.1 **Length Tolerance (mm):**

Black Anodized Aluminum **Housing:**

### Optical Properties

20,000:1 **Extinction Ratio:**

Quartz **Substrate:** □

20-10 **Surface Quality:**

λ/4 @ 632.8nm **Transmitted Wavefront, P-V:**

<3 **Beam Deviation (arcmin):**

2 - 3  
2+/-0.1 @ 1064nm **Beam Separation (°):**

200 - 2300 **Wavelength Range (nm):**

10 J/cm<sup>2</sup> @ 1064nm, 20ns **Damage Threshold, By Design:** □

2 - 3 (2±0.1@1064nm) **Separation Angle (°):**

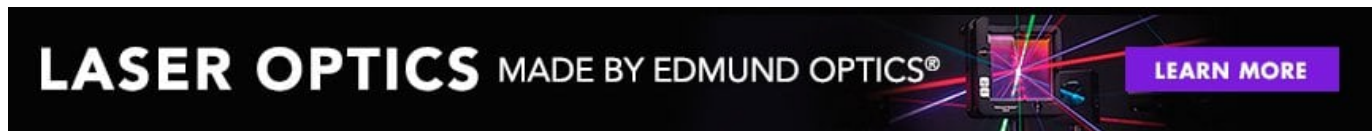
### Regulatory Compliance

[View](#) **Certificate of Conformance:**

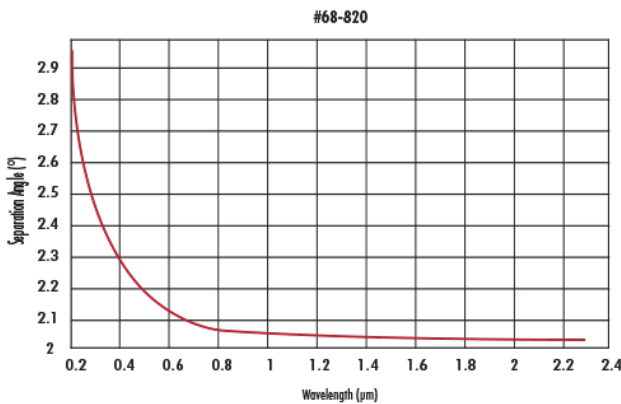
## Product Details

- Multiple Polarization Materials Available
- UV to IR Ranges Offered
- Large Deviation of Ordinary and Extraordinary Rays
- [Rochon Polarizers](#) Also Available

Wollaston Polarizers consist of two birefringent right angle prisms cemented together, such that their optical axes are perpendicular. As light passes through the polarizer, a symmetric deviation between the ordinary and extraordinary beams is created. The resulting beams are of orthogonal linear polarization states and have equal intensity and a large angular deviation. Users have access to both the ordinary and extraordinary rays, making them ideal for laboratory experiments.



## Technical Information



Stock No.	Outer Diameter	Clear Aperture	Length	Separation Angle α (°)
<a href="#">#68-820</a>	25.4mm	10.0mm	28.0mm	2 - 3 (2 @ 1064nm)
<a href="#">#68-821</a>	25.4mm	10.0mm	18.0mm	16.7 - 22.5 (19 @ 980nm)
<a href="#">#68-822</a>	25.4mm	10.0mm	18.0mm	19.6 - 23.3 (20 @ 1550nm)
<a href="#">#68-823</a>	25.4mm	10.0mm	18.0mm	15 - 27 (16 @ 800nm)

