

# 30mm Dia. 800nm $\lambda/2$ Quartz Waveplate Zero Order



Stock #65-906 [CONTACT US](#)

1 **C\$973<sup>.00</sup>**

**ADD TO CART**

Volume Pricing	
Qty 1-5	C\$973.00 each
Qty 6+	C\$786.80 each
Need More?	<a href="#">Request Quote</a>

Product Downloads	
STEP:step	PDF Drawing:pdf
IGES:igs	eDrawing:eprt
EO Spec Sheet	<a href="#">Download All</a>

## General

**Type:** Crystalline Waveplate

## Physical & Mechanical Properties

**Clear Aperture CA (mm):** 23.0

**Diameter (mm):** 30.00  
+0.00/-0.25

**Thickness (mm):** 6.00  
+0.00/-0.25

**Construction:** Crystalline

**Parallelism (arcsec):** <3

## Optical Properties

**Coating:** Laser V-Coat (800nm)

**Design Wavelength DWL (nm):** 800

**Substrate:** Crystal Quartz

**Retardance:**  $\lambda/2$

**Surface Quality:** 10-5

**Transmitted Wavefront, P-V:**  $\lambda/8$  for central 80% of clear aperture

**Retardance Tolerance:**  $\pm\lambda/200$

**Temperature Coefficient ( $\lambda/^\circ\text{C}$ ):** 0.0001

**Retardance Order:** 0

## Regulatory Compliance

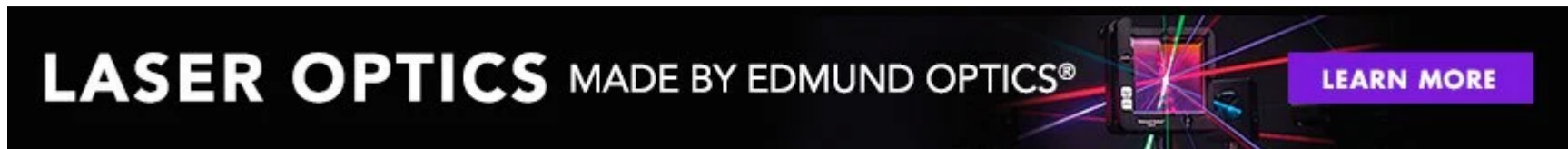
RoHS 2015: [Compliant](#)

Certificate of Conformance: [View](#)

Reach 240: [Compliant](#)

- Zero Order and Multiple Order Waveplates
- $\lambda/4$  and  $\lambda/2$  Retardance
- Mounted in Black Anodized Aluminum Frame
- **Zero Order Polymer Waveplates** Also Available

Quartz Waveplates (Retarders) are available in multiple order and zero order. These waveplates are ideal for a range of applications. Multiple order waveplates are ideal for applications where the wavelength deviates less than  $\pm 1\%$  from the design wavelength of the waveplate. For applications with a greater than  $\pm 1\%$  deviation, zero order waveplates are recommended due to their increased bandwidth and lower sensitivity to temperature change. Quartz Waveplates (Retarders) have the fast axis marked on the edge of the mount to ease system integration.



## Technical Information

## Related Products



Compact Direct Mounts



Metric Polarizer Mounts

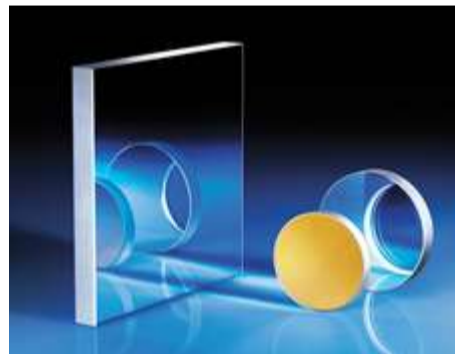


High Energy Quartz Waveplates



Cotton-Tipped Swab Applicators

## Frequently Purchased Together



#43-886 - 25 x 35mm Protected Gold, 4-6 $\lambda$  Mirror  
C\$71.40

Qty



#65-905 - 30mm Dia. 800nm  $\lambda/4$  Quartz Waveplate Zero Order  
C\$973.00

Qty

## Resources

### Media Type

- Application Note
- Technical Tool
- Video

#### APPLICATION NOTE

Introduction to Polarization

#### TECHNICAL TOOL

Laser-Cut Polymer Polarizer and Retarder...

#### APPLICATION NOTE

Polymer Polarizers and Retarders

 APPLICATION NOTE

**Polarizer  
Selection  
Guide**

 APPLICATION NOTE

**Understanding  
Waveplates  
and Retarders**

 VIDEO

**How Do 3D  
Movies Work?  
Polarization**

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