

# 5μm λ/2 MWIR Zero Order Waveplate



Stock #85-119 **2 In Stock**

1

£836<sup>.00</sup>

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Volume Pricing	
Qty 1-9	£836.00 each
Qty 10+	£748.00 each
Need More?	<a href="#">Request Quote</a>

Prices shown are exclusive of VAT/local taxes

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):** 10.0

**Diameter (mm):** 25.40

**Parallelism (arcmin):** 3

**Construction:** Crystalline

## Optical Properties

**Design Wavelength DWL (nm):** 5000

**Substrate:** MgF<sub>2</sub>

**Retardance:** λ/2

**Surface Quality:** 60-40

**Transmitted Wavefront, P-V:** <λ/8 @ 632.8nm

**Retardance Tolerance:** λ/100 @ 20°C

**Retardance Order:** 0

## Threading & Mounting

**Mount Thickness (mm):** 6.0

## Regulatory Compliance

**RoHS 2015:** [Compliant](#)

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

**Reach 247:** [Compliant](#)

## Product Details

- Ideal for Applications in the 3 – 7 $\mu$ m Range
- $\lambda/4$  and  $\lambda/2$  Retardance
- Mounted for Easy Alignment and System Integration

Our zero order Mid-Wave Infrared (MWIR) Waveplates are designed for applications in the 3 – 7 $\mu$ m wavelength range. When compared to multiple order waveplates, zero order waveplates provide increased bandwidth and lower sensitivity to temperature change. These waveplates are available with  $\lambda/4$  or  $\lambda/2$  retardance in a range of wavelengths, offer efficient retardation over broad spectral ranges, and are ideal for a variety of infrared (IR) applications. Each MWIR waveplate is anti-reflection coated, and has been mounted to ease system integration.

## Technical Information

### Related Products



Compact Direct Mounts



Metric Polarizer Mounts



Rotation Kinematic Mounts

### Frequently Purchased Together



#43-346 - 1" Dia, 4" FL Protected Gold, Spherical Mirror  
£113.60

Qty



#49-615 - 1" Dia, 6" FL Protected Gold, Spherical Mirror  
£113.60

Qty



#49-616 - 1" Dia, 8" FL Protected Gold, Spherical Mirror  
£113.60

Qty



#62-772 - 25mm Dia. ZnSe, IR Holographic Wire Grid Polarizer  
£1,392.00

Qty



## Resources

### Media Type

- Application Note
- Scientific Paper
- Video
- Glossary

#### APPLICATION NOTE

Introduction to Polarization

#### SCIENTIFIC PAPER

Advantages of using engineered chalcogenide...

#### VIDEO

Infrared Light

Technical Tool

FAQ

GLOSSARY

Short Wave  
Infrared  
(SWIR)

TECHNICAL TOOL

Laser-Cut  
Polymer  
Polarizer and  
Retarder...

APPLICATION NOTE

Advantages of  
Using  
Meniscus  
Lenses in...

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