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## 4μm λ/4 MWIR Zero Order Waveplate



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### General

Crystalline Waveplate **Type:**

### Physical & Mechanical Properties

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

25.40 **Diameter (mm):**

3 **Parallelism (arcmin):**

Crystalline

**Construction:**

**Optical Properties**

4000 **Design Wavelength DWL (nm):**

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

$\lambda/4$  **Retardance:**

60-40 **Surface Quality:**

< $\lambda/8$  @ 632.8nm **Transmitted Wavefront, P-V:**

$\lambda/100$  @ 20°C **Retardance Tolerance:**

0 **Retardance Order:**

**Threading & Mounting**

6.0 **Mount Thickness (mm):**

**Regulatory Compliance**

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

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

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

**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 (MMR) 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 MMR waveplate is anti-reflection coated, and has been mounted to ease system integration.

**Technical Information**

