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## 0.50 NA, 4.2mm FL, HOYA Molded Glass Aspheric Lens

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HOYA Molded Glass Aspheric Lenses

Stock #13-587 **12 In Stock**

⊖ 1 ⊕ **S\$166<sup>.00</sup>**

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### Product Downloads

#### General

Aspheric Lens **Type:**  
AH4\_Z **Model Number:**

#### Physical & Mechanical Properties

6.38 +0.00/-0.02 **Diameter (mm):**

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

2.56 **Center Thickness CT (mm):**

Protective as needed **Bevel:**

## Optical Properties

4.20 @ 780nm **Effective Focal Length EFL (mm):**

0.50 **Numerical Aperture NA:**

M-LAF81 **Substrate:**

780 **Aspheric Design Wavelength (nm):**

BBAR (755 - 805nm) **Coating:**

$R_{avg} < 1.5\%$  @ 755 - 805nm (theoretical per surface) **Coating Specification:**

0.66 **f#:**

40.5 **Abbe Number ( $v_d$ ):**

1.731 **Index of Refraction ( $n_d$ ):**

755 - 805 **Wavelength Range (nm):**

2.00 **Working Distance (mm):**

0 **Conjugate Distance:**

780 **Focal Length Specification Wavelength (nm):**

0.049 $\lambda$  **Transmitted Wavefront, RMS @ 632.8nm:**

## Material Properties

8.9 **Coefficient of Thermal Expansion CTE ( $10^{-6}/^{\circ}\text{C}$ ):**

## Regulatory Compliance

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

## Product Details

- Precision Glass Molded Lenses
- Compact Sizes for Integration into Measurement Systems
- Multiple Glass Substrates Available

HOYA Molded Glass Aspheric Lenses are used in applications that require lenses with small sizes and high transmission that correct for spherical aberration. These aspheric lenses are manufactured through a patented molding process that produces precision aspheric surfaces to minimize wavefront error. Their small diameters and thicknesses allow for these molded aspheric lenses to be integrated into measurement systems, biomedical instrumentation, or other optical tools. HOYA Molded Glass Aspheric Lenses are available in multiple glass types that offer higher refractive indices and lower dispersion than other molded glass aspheric lens offerings.