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LightPath 355440 | 4.7mm Dia., 0.50 NA, BBAR (600-1050nm), Molded Aspheric Lens

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Precision Molded Aspheric Lenses

Stock **#87-134** CLEARANCE **15 In Stock**

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⊖ 1 ⊕ **\$119⁰⁰**

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General

Thickness: 0.25 (t) (mm)
Material: BK7

Compatible Window:

355440

Lightpath Lens Code:

Aspheric Lens **Type:**

Finite Conjugate for Magnification **Typical Applications:**

NA, Object (mm): 0.26
WD, Image (mm): 7.09
WD, Object (mm): 2.71

Note:

Physical & Mechanical Properties

4.70 ±0.020 **Diameter (mm):**

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

2.68 **Edge Thickness ET (mm):**

3.83 ±0.05 **Center Thickness CT (mm):**

Protective as needed **Bevel:**

1.962 **Distance from Window to Lens (D) (mm):**

Optical Properties

2.76 @980nm **Effective Focal Length EFL (mm):**

0.50 **Numerical Aperture NA:**

[D-ZLaF52LA](#) **Substrate:** □

±1 **Focal Length Tolerance (%):**

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

BBAR (600-1050nm) **Coating:**

$R_{\text{abs}} < 1.0\%$ @ 600 - 1050nm **Coating Specification:**

40-20 **Surface Quality:**

0.96 **f#:**

40.79 **Abbe Number (v_d):**

1.806 **Index of Refraction (n_d):**

600 - 1050 **Wavelength Range (nm):**

7.09 **Working Distance (mm):**

Finite **Conjugate Distance:**

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

< 0.200 **Transmitted Wavefront Error (λ , RMS):**

Material Properties

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

Environmental & Durability Factors

≤200 **Operating Temperature ($^{\circ}\text{C}$):**

Regulatory Compliance

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

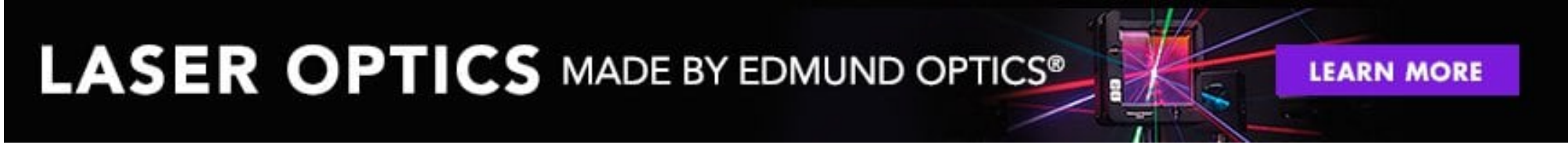
[View](#) **Certificate of Conformance:**

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

Product Details

- Eliminate Spherical Aberration
- Multiple Coating Options Available
- Range of Numerical Apertures

LightPath® Geltech™ Molded Aspheric Lenses are used to eliminate spherical aberration and improve focusing and collimating accuracy in a variety of laser applications. Low NA aspheric lenses are designed to maintain beam shape, while high NA lenses gather all available light to maintain beam power over long distances. LightPath® Geltech™ Molded Aspheric Lenses are ideal for applications including sighting systems, bar code scanners, laser diode-to-fiber coupling, optical data storage, or biomedical lasers.



Technical Information

