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LightPath 355440 | 4.7mm Dia., 0.50 NA, BBAR (350-700nm), Molded Aspheric Lens

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Precision Molded Aspheric Lenses

Stock **#87-133** **17 In Stock**

[Other Coating Options](#)

- 1 + A\$136.⁰⁰

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| Qty 1-10 | A\$136.00 each |
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Product Downloads

General

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

Compatible Window:

355440

Lightpath Lens Code:

Aspheric Lens

Type:

Typical Applications:

Note:

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

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:**

Substrate:
[D-ZLaF52LA](#)

±1 **Focal Length Tolerance (%):**

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

BBAR (350-700nm) **Coating:**

$R_{avg} \leq 0.5\%$ @ 350 - 700nm **Coating Specification:**

40-20 **Surface Quality:**

0.96 **f#:**

40.79 **Abbe Number (v_d):**

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

350 - 700 **Wavelength Range (nm):**

7.09 **Working Distance (mm):**

Finite **Conjugate Distance:**

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

< 0.20 **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:**

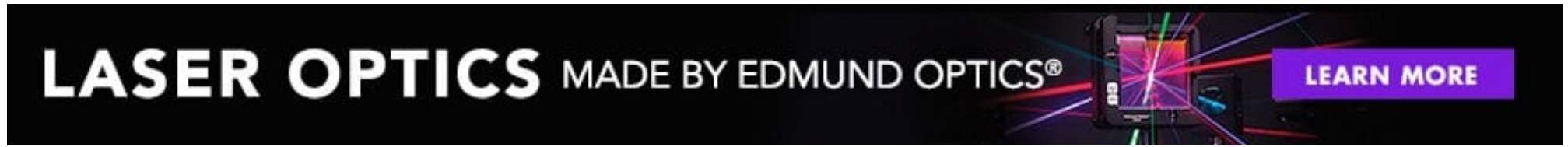
[View](#) **Certificate of Conformance:**

[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

