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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 ⊕ €85.<sup>00</sup>

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## Product Downloads

## General

Thickness: 0.25 (t) (mm) Material: BK7	<b>Compatible Window:</b>
355440	<b>Lightpath Lens Code:</b>
Aspheric Lens	<b>Type:</b>

Typical Applications:  
Finite Conjugate for Magnification

**Note:**

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

## Physical & Mechanical Properties

**Diameter (mm):**  
4.70 ±0.020

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

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

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

**Bevel:**  
Protective as needed

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

## Optical Properties

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

**Numerical Aperture NA:**  
0.50

**Substrate:**   
[D-ZLaF52LA](#)

**Focal Length Tolerance (%):**  
±1

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

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

**Coating Specification:**  
R<sub>abs</sub> <1.0% @600 - 1050nm

**Surface Quality:**  
40-20

**f#:**  
0.96

**Abbe Number (v<sub>d</sub>):**  
40.79

**Index of Refraction (n<sub>d</sub>):**  
1.806

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

**Working Distance (mm):**  
7.09

**Conjugate Distance:**  
Finite

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

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

## Material Properties

**Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C):**  
6.9

## Environmental & Durability Factors

**Operating Temperature (°C):**  
≤200

## Regulatory Compliance

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

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

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

## 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

