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# LightPath 355151 | 3mm Dia., 0.50 NA, BBAR (600-1050nm), Molded Aspheric Lens

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Precision Molded Aspheric Lenses

Stock **#83-583** **20+ In Stock**

[Other Coating Options](#)

⊖ 1 ⊕ **A\$120<sup>00</sup>**

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Volume Pricing	
Qty 1-10	<b>A\$120.00</b> each
Qty 11-49	<b>A\$108.00</b> each
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Product Downloads

**General**

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

**Compatible Window:**

355151

**Lightpath Lens Code:**

Aspheric Lens

**Type:**

Typical Applications:  
Collimate or Focus Laser Light

## Physical & Mechanical Properties

Diameter (mm):  
3.00 ±0.015

Clear Aperture CA (mm):  
2

Edge Thickness ET (mm):  
1.40

Center Thickness CT (mm):  
1.89 ±0.03

Bevel:  
Protective as needed

Distance from Window to Lens (D) (mm):  
0.479

## Optical Properties

Effective Focal Length EFL (mm):  
2.00 @ 780nm

Numerical Aperture NA:  
0.50

Substrate:   
[D-ZLaF52LA](#)

Focal Length Tolerance (%):  
±1

Aspheric Design Wavelength (nm):  
780

Coating:  
BBAR (600-1050nm)

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

Surface Quality:  
40-20

f#:  
1.00

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):  
1.029

Conjugate Distance:  
Infinite

Focal Length Specification Wavelength (nm):  
780.00

Transmitted Wavefront Error (λ, RMS):  
< 0.07

## 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



## Technical Information

