

[See all 76 Products in Family](#)

# LightPath 354850 | 6.33mm Dia., 0.13 NA, BBAR (600-1050nm), Molded Aspheric Lens

See More by [Lightpath®](#)



Precision Molded Aspheric Lenses

Stock **#83-544** **20+ In Stock**

[Other Coating Options](#)

⊖ 1 ⊕ **S\$119<sup>00</sup>**

**ADD TO CART**

Volume Pricing	
Qty 1-10	<b>S\$119.00</b> each
Qty 11-49	<b>S\$107.10</b> each
Need More?	<a href="#">Request Quote</a>

Product Downloads

**General**

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

**Compatible Window:**

354850

**Lightpath Lens Code:**

Aspheric Lens

**Type:**

Typical Applications:  
Collimate or Focus Laser Light

## Physical & Mechanical Properties

Diameter (mm):  
6.33 ±0.015

Clear Aperture CA (mm):  
5.5

Edge Thickness ET (mm):  
2.35

Center Thickness CT (mm):  
2.66 ±0.05

Bevel:  
Protective as needed

Distance from Window to Lens (D) (mm):  
19.157

## Optical Properties

Effective Focal Length EFL (mm):  
22.00 @670nm

Numerical Aperture NA:  
0.13

Substrate:   
[D-ZK3](#)

Focal Length Tolerance (%):  
±1

Aspheric Design Wavelength (nm):  
670

Coating:  
BBAR (600-1050nm)

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

Surface Quality:  
40-20

f#:  
3.85

Abbe Number (v<sub>d</sub>):  
60.88

Index of Refraction (n<sub>d</sub>):  
1.586

Wavelength Range (nm):  
600 - 1050

Working Distance (mm):  
20.41

Conjugate Distance:  
Infinite

Focal Length Specification Wavelength (nm):  
670.00

Transmitted Wavefront Error (λ, RMS):  
< 0.12

## Material Properties

Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C):  
7.6

## 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

