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# LightPath 354453 | 6mm Dia., 0.55 NA, BBAR (1050-1600nm), Molded Aspheric Lens

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Precision Molded Aspheric Lenses

Stock **#87-159** **20+ In Stock**

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⊖ 1 ⊕ **S\$105<sup>00</sup>**

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Volume Pricing	
Qty 1-10	<b>S\$105.00</b> each
Qty 11-49	<b>S\$94.50</b> each
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Product Downloads

**General**

Thickness: 0.28 (t) (mm)  
Material: BK7

**Compatible Window:**

354453

**Lightpath Lens Code:**

Aspheric Lens

**Type:**

Collimate or Focus Laser Light

Typical Applications:

## Physical & Mechanical Properties

6.00 ±0.020 Diameter (mm):

4.8 Clear Aperture CA (mm):

1.75 Edge Thickness ET (mm):

3.14 ±0.02 Center Thickness CT (mm):

Protective as needed Bevel:

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

## Optical Properties

4.60 @ 655nm Effective Focal Length EFL (mm):

0.55 Numerical Aperture NA:

D-ZK3 Substrate: □

±1 Focal Length Tolerance (%):

655 Aspheric Design Wavelength (nm):

BBAR (1050-1600nm) Coating:

R<sub>abs</sub> <1.0% @ 1050 - 1600nm Coating Specification:

40-20 Surface Quality:

0.91 f#:

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

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

1050 - 1600 Wavelength Range (nm):

2.7 Working Distance (mm):

Infinite Conjugate Distance:

655.00 Focal Length Specification Wavelength (nm):

< 0.09 Transmitted Wavefront Error (λ, RMS):

## Material Properties

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

## Environmental & Durability Factors

≤200 Operating Temperature (°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



### Technical Information



### Compatible Mounts