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# LightPath 355110 | 7.2mm Dia., 0.40 NA, BBAR (350-700nm), Molded Aspheric Lens

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Precision Molded Aspheric Lenses

Stock **#87-125** **20+ In Stock**

[Other Coating Options](#)

⊖ 1 ⊕ **S\$124<sup>00</sup>**

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Volume Pricing	
Qty 1-10	<b>S\$124.60</b> each
Qty 11-49	<b>S\$112.00</b> each
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Product Downloads

**General**

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

**Compatible Window:**

355110

**Lightpath Lens Code:**

Aspheric Lens

**Type:**

Typical Applications:  
Collimate or Focus Laser Light

## Physical & Mechanical Properties

Diameter (mm):

7.20 ±0.020

Clear Aperture CA (mm):

5

Edge Thickness ET (mm):

4.25

Center Thickness CT (mm):

5.16 ±0.05

Bevel:

Protective as needed

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

2.682

## Optical Properties

Effective Focal Length EFL (mm):

6.24 @ 780nm

Numerical Aperture NA:

0.40

Substrate:

[D-ZLaF52LA](#)

Focal Length Tolerance (%):

±1

Aspheric Design Wavelength (nm):

780

Coating:

BBAR (350-700nm)

Coating Specification:

$R_{avg} \leq 0.5\%$  @ 350 - 700nm

Surface Quality:

40-20

f#:

1.25

Abbe Number ( $v_d$ ):

40.79

Index of Refraction ( $n_d$ ):

1.806

Wavelength Range (nm):

350 - 700

Working Distance (mm):

3.5

Conjugate Distance:

Infinite

Focal Length Specification Wavelength (nm):

780.00

Transmitted Wavefront Error ( $\lambda$ , RMS):

< 0.07

## Material Properties

Coefficient of Thermal Expansion CTE ( $10^{-6}/^{\circ}\text{C}$ ):

6.9

## Environmental & Durability Factors

Operating Temperature ( $^{\circ}\text{C}$ ):

≤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

