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LightPath 354120 | 4.99mm Dia., 0.15 NA, BBAR (350-700nm), Molded Aspheric Lens

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Precision Molded Aspheric Lenses

Stock #16-689 **14 In Stock**

⊖ 1 ⊕ €85⁰⁰

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Qty 1-10	€85,00 each
Qty 11-49	€76,50 each
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General

354120 **Lightpath Lens Code:**

Aspheric Lens **Type:**

Collimate or Focus Laser Light **Typical Applications:**

Physical & Mechanical Properties

4.99 ±0.015 **Diameter (mm):**

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

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

2.92 ±0.03 **Center Thickness CT (mm):**

Protective as needed **Bevel:**

Optical Properties

15.04 @670nm **Effective Focal Length EFL (mm):**

0.15 **Numerical Aperture NA:**

D-ZK3 **Substrate:** □

±1 **Focal Length Tolerance (%):**

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

BBAR (350-700nm) **Coating:**

$R_{avg} \leq 0.5\%$ @350 - 700nm **Coating Specification:**

40-20 **Surface Quality:**

3.33 **f#:**

61.15 **Abbe Number (v_d):**

1.589 **Index of Refraction (n_d):**

350 - 700 **Wavelength Range (nm):**

13.19 **Working Distance (mm):**

Infinite **Conjugate Distance:**

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

<0.076 **Transmitted Wavefront Error (λ , RMS):**

Material Properties

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

Environmental & Durability Factors

≤200 **Operating Temperature ($^{\circ}\text{C}$):**

Regulatory Compliance

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

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.

LASER OPTICS MADE BY EDMUND OPTICS®

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Technical Information

