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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 ⊕ £68<sup>00</sup>

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### Volume Pricing

Qty 1-10	£68.00 each
Qty 11-49	£61.20 each
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**!** Prices shown are exclusive of VAT/local taxes

### Product Downloads

### 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 ( $\lambda$ , 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

