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# LightPath 354220 | 7.2mm Dia., 0.25 NA, BBAR (600-1050nm), Molded Aspheric Lens

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Precision Molded Aspheric Lenses

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⊖ 1 ⊕ **A\$62<sup>00</sup>**

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**General**

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

**Compatible Window:**

354220

**Lightpath Lens Code:**

Aspheric Lens **Type:**

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

## Physical & Mechanical Properties

7.20 ±0.020 **Diameter (mm):**

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

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

5.03 ±0.05 **Center Thickness CT (mm):**

Protective as needed **Bevel:**

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

## Optical Properties

11.00 @ 633nm **Effective Focal Length EFL (mm):**

0.25 **Numerical Aperture NA:**

**D-ZK3** **Substrate:** □

±1 **Focal Length Tolerance (%):**

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

BBAR (600-1050nm) **Coating:**

$R_{\text{abs}} < 1.0\%$  @ 600 - 1050nm **Coating Specification:**

40-20 **Surface Quality:**

2.00 **f#:**

60.88 **Abbe Number ( $v_d$ ):**

1.586 **Index of Refraction ( $n_d$ ):**

600 - 1050 **Wavelength Range (nm):**

7.9 **Working Distance (mm):**

Infinite **Conjugate Distance:**

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

< 0.040 **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

**Compliant** **RoHS 2015:**

**View** **Certificate of Conformance:**

**Compliant** **Reach 233:**

## 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.

