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# LightPath 354430 | 2mm Dia., 0.15 NA, BBAR (600-1050nm), Molded Aspheric Lens

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Precision Molded Aspheric Lenses

Stock #48-145 **20+ In Stock**

⊖ 1 ⊕ €85<sup>00</sup>

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**General**

354430 **Lightpath Lens Code:**

Aspheric Lens **Type:**

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

## Physical & Mechanical Properties

2.00 ±0.015 **Diameter (mm):**

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

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

1.01 ±0.05 **Center Thickness CT (mm):**

Protective as needed **Bevel:**

## Optical Properties

5.00 @ 1550nm **Effective Focal Length EFL (mm):**

0.15 **Numerical Aperture NA:**

**D-ZK3** **Substrate:** □

±1 **Focal Length Tolerance (%):**

1550 **Aspheric Design Wavelength (nm):**

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

R<sub>avg</sub> <1.0% @ 600 - 1050nm **Coating Specification:**

40-20 **Surface Quality:**

3.33 **f/#:**

50.22 **Abbe Number (v<sub>d</sub>):**

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

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

4.37 **Working Distance (mm):**

Infinite **Conjugate Distance:**

1550.00 **Focal Length Specification Wavelength (nm):**

<0.17 **Transmitted Wavefront Error (λ, RMS):**

## Material Properties

11.1 **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 diode-to-fiber coupling, optical data storage, or biomedical lasers.

## Technical Information

