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# LightPath 355198 | 1.4mm Dia., 0.50 NA, BBAR (1050-1600nm), Molded Aspheric Lens

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Precision Molded Aspheric Lenses

Stock #16-704 **13 In Stock**

⊖ 1 ⊕ £60<sup>00</sup>

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Product Downloads

**General**

355198 **Lightpath Lens Code:**

Aspheric Lens **Type:**

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

## Physical & Mechanical Properties

1.40 ±0.015 **Diameter (mm):**

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

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

0.71 ±0.03 **Center Thickness CT (mm):**

Protective as needed **Bevel:**

## Optical Properties

1.05 @ 1550nm **Effective Focal Length EFL (mm):**

0.50 **Numerical Aperture NA:**

**Substrate:**   
[D-ZLaF52LA](#)

±1 **Focal Length Tolerance (%):**

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

BBAR (1050-1600nm) **Coating:**

R<sub>abs</sub> <1.0% @ 1050 - 1600nm **Coating Specification:**

40-20 **Surface Quality:**

1.00 **f/#:**

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

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

1050 - 1600 **Wavelength Range (nm):**

0.61 **Working Distance (mm):**

Infinite **Conjugate Distance:**

1550 **Focal Length Specification Wavelength (nm):**

<0.150 **Transmitted Wavefront Error (λ, RMS):**

## Material Properties

6.9 **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

