

[See all 75 Products in Family](#)

LightPath 354140 | 2.4mm Dia., 0.58 NA, BBAR (1050-1600nm), Molded Aspheric Lens

See More by [Lightpath®](#)



Precision Molded Aspheric Lenses

Stock **#83-615** [CONTACT US](#)

[Other Coating Options](#)

⊖ 1 ⊕ €75.⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-10	€75,00 each
Qty 11-49	€67,50 each
Need More?	Request Quote

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

354140 **Lightpath Lens Code:**

Aspheric Lens **Type:**

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

Physical & Mechanical Properties

2.40 ±0.015 **Diameter (mm):**

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

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

1.02 ±0.03 **Center Thickness CT (mm):**

Protective as needed **Bevel:**

Optical Properties

1.45 @ 780nm **Effective Focal Length EFL (mm):**

0.58 **Numerical Aperture NA:**

Substrate:
[D-ZK3](#)

±1 **Focal Length Tolerance (%):**

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

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

Coating Specification:
R_{abs} <1.0% @ 1050 - 1600nm

40-20 **Surface Quality:**

0.86 **f#:**

60.88 **Abbe Number (v_d):**

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

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

0.81 **Working Distance (mm):**

Infinite **Conjugate Distance:**

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

< 0.07 **Transmitted Wavefront Error (λ, RMS):**

Material Properties

7.6 **Coefficient of Thermal Expansion CTE (10⁻⁶/°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

