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LightPath 355151 | 3mm Dia., 0.50 NA, BBAR (600-1050nm), Molded Aspheric Lens

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Precision Molded Aspheric Lenses

Stock **#83-583** [CONTACT US](#)

[Other Coating Options](#)

⊖ 1 ⊕ **\$\$105⁰⁰**

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Volume Pricing	
Qty 1-10	\$\$105.00 each
Qty 11-49	\$\$94.50 each
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Product Downloads

General

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

Compatible Window:

355151

Lightpath Lens Code:

Aspheric Lens

Type:

Collimate or Focus Laser Light

Typical Applications:

Physical & Mechanical Properties

3.00 ±0.015 Diameter (mm):

2 Clear Aperture CA (mm):

1.40 Edge Thickness ET (mm):

1.89 ±0.03 Center Thickness CT (mm):

Protective as needed Bevel:

0.479 Distance from Window to Lens (D) (mm):

Optical Properties

2.00 @ 780nm Effective Focal Length EFL (mm):

0.50 Numerical Aperture NA:

[D-ZLaF52LA](#) Substrate: □

±1 Focal Length Tolerance (%):

780 Aspheric Design Wavelength (nm):

BBAR (600-1050nm) Coating:

R_{abs} <1.0% @ 600 - 1050nm Coating Specification:

40-20 Surface Quality:

1.00 f#:

40.79 Abbe Number (v_d):

1.806 Index of Refraction (n_d):

600 - 1050 Wavelength Range (nm):

1.029 Working Distance (mm):

Infinite Conjugate Distance:

780.00 Focal Length Specification Wavelength (nm):

< 0.07 Transmitted Wavefront Error (λ, RMS):

Material Properties

6.9 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



Technical Information

