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LightPath 354240 | 9.94mm Dia., 0.50 NA, BBAR (350-700nm), Molded Aspheric Lens

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Precision Molded Aspheric Lenses

Stock **#37-102** **20+ In Stock**

[Other Coating Options](#)

⊖ 1 ⊕ **A\$158⁰⁰**

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| Volume Pricing | |
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| Qty 1-10 | A\$158.40 each |
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Product Downloads

General

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

Compatible Window:

354240

Lightpath Lens Code:

Aspheric Lens

Type:

Typical Applications:
Collimate or Focus Laser Light

Physical & Mechanical Properties

Diameter (mm):

9.94 ±0.015

Clear Aperture CA (mm):

8

Edge Thickness ET (mm):

1.44

Center Thickness CT (mm):

3.43 ±0.05

Bevel:

Protective as needed

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

4.911

Optical Properties

Effective Focal Length EFL (mm):

8.00 @ 780nm

Numerical Aperture NA:

0.50

Substrate:

[D-ZK3](#)

Focal Length Tolerance (%):

±1

Aspheric Design Wavelength (nm):

780

Coating:

BBAR (350-700nm)

Coating Specification:

$R_{avg} \leq 0.5\%$ @ 350 - 700nm

Surface Quality:

40-20

f#:

1.00

Abbe Number (v_d):

50.22

Index of Refraction (n_d):

1.586

Wavelength Range (nm):

350 - 700

Working Distance (mm):

5.9

Conjugate Distance:

Infinite

Focal Length Specification Wavelength (nm):

780.00

Transmitted Wavefront Error (λ , RMS):

< 0.08

Material Properties

Coefficient of Thermal Expansion CTE ($10^{-6}/^{\circ}\text{C}$):

7.6

Environmental & Durability Factors

Operating Temperature ($^{\circ}\text{C}$):

≤200

Regulatory Compliance

RoHS 2015:

[Compliant](#)

Certificate of Conformance:

[View](#)

Reach 247:

[Compliant](#)

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

