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LightPath 354240 | 9.94mm Dia., 0.50 NA, BBAR (600-1050nm), Molded Aspheric Lens

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Precision Molded Aspheric Lenses

Stock **#37-103** **5 In Stock**

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⊖ 1 ⊕ **S\$138⁰⁰**

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Volume Pricing	
Qty 1-10	S\$138.60 each
Qty 11-49	S\$124.60 each
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General

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

Compatible Window:

354240

Lightpath Lens Code:

Aspheric Lens

Type:

Collimate or Focus Laser Light

Typical Applications:

Physical & Mechanical Properties

9.94 ±0.015 Diameter (mm):

8 Clear Aperture CA (mm):

1.44 Edge Thickness ET (mm):

3.43 ±0.05 Center Thickness CT (mm):

Protective as needed Bevel:

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

Optical Properties

8.00 @ 780nm Effective Focal Length EFL (mm):

0.50 Numerical Aperture NA:

D-ZK3 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#:

50.22 Abbe Number (v_d):

1.586 Index of Refraction (n_d):

600 - 1050 Wavelength Range (nm):

5.9 Working Distance (mm):

Infinite Conjugate Distance:

780.00 Focal Length Specification Wavelength (nm):

< 0.08 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



Technical Information

