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LightPath 354453 | 6mm Dia., 0.55 NA, BBAR (350-700nm), Molded Aspheric Lens

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Precision Molded Aspheric Lenses

Stock **#87-157** **20+ In Stock**

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⊖ 1 ⊕ A\$120⁰⁰

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| Volume Pricing | |
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| Qty 1-10 | A\$120.00 each |
| Qty 11-49 | A\$108.00 each |
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Product Downloads

General

Thickness: 0.28 (t) (mm)
Material: BK7

Compatible Window:

354453

Lightpath Lens Code:

Aspheric Lens

Type:

Collimate or Focus Laser Light

Typical Applications:

Physical & Mechanical Properties

6.00 ±0.020 Diameter (mm):

4.8 Clear Aperture CA (mm):

1.75 Edge Thickness ET (mm):

3.14 ±0.02 Center Thickness CT (mm):

Protective as needed Bevel:

Optical Properties

4.60 @ 655nm Effective Focal Length EFL (mm):

0.55 Numerical Aperture NA:

D-ZK3 Substrate: □

±1 Focal Length Tolerance (%):

655 Aspheric Design Wavelength (nm):

BBAR (350-700nm) Coating:

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

40-20 Surface Quality:

0.91 f/#:

60.88 Abbe Number (v_d):

1.586 Index of Refraction (n_d):

350 - 700 Wavelength Range (nm):

2.7 Working Distance (mm):

Infinite Conjugate Distance:

655.00 Focal Length Specification Wavelength (nm):

< 0.09 Transmitted Wavefront Error (λ , RMS):

Material Properties

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

Environmental & Durability Factors

≤200 Operating Temperature ($^{\circ}\text{C}$):

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



Compatible Mounts