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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**

[Other Coating Options](#)

⊖ 1 ⊕ £60.⁰⁰

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Volume Pricing	
Qty 1-10	£60.00 each
Qty 11-49	£54.00 each
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

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

Compatible Window:

354453

Lightpath Lens Code:

Aspheric Lens

Type:

Typical Applications:
Collimate or Focus Laser Light

Physical & Mechanical Properties

Diameter (mm):

6.00 ±0.020

Clear Aperture CA (mm):

4.8

Edge Thickness ET (mm):

1.75

Center Thickness CT (mm):

3.14 ±0.02

Bevel:

Protective as needed

Optical Properties

Effective Focal Length EFL (mm):

4.60 @ 655nm

Numerical Aperture NA:

0.55

Substrate:

[D-ZK3](#)

Focal Length Tolerance (%):

±1

Aspheric Design Wavelength (nm):

655

Coating:

BBAR (350-700nm)

Coating Specification:

R_{avg} ≤0.5% @ 350 - 700nm

Surface Quality:

40-20

f#:

0.91

Abbe Number (v_d):

60.88

Index of Refraction (n_d):

1.586

Wavelength Range (nm):

350 - 700

Working Distance (mm):

2.7

Conjugate Distance:

Infinite

Focal Length Specification Wavelength (nm):

655.00

Transmitted Wavefront Error (λ, RMS):

< 0.09

Material Properties

Coefficient of Thermal Expansion CTE (10⁻⁶/°C):

7.6

Environmental & Durability Factors

Operating Temperature (°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 diode-to-fiber coupling, optical data storage, or biomedical lasers.

Technical Information



Compatible Mounts