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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 ⊕ €75⁰⁰

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Volume Pricing	
Qty 1-10	€75,00 each
Qty 11-49	€67,50 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

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: <input type="checkbox"/>
±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 ($10^{-6}/^{\circ}\text{C}$):
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Environmental & Durability Factors

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