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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

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:
 $R_{avg} \leq 0.5\%$ @ 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 ($10^{-6}/^{\circ}\text{C}$):
7.6

Environmental & Durability Factors

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

Regulatory Compliance

RoHS 2015:
[Compliant](#)

Certificate of Conformance:
[View](#)

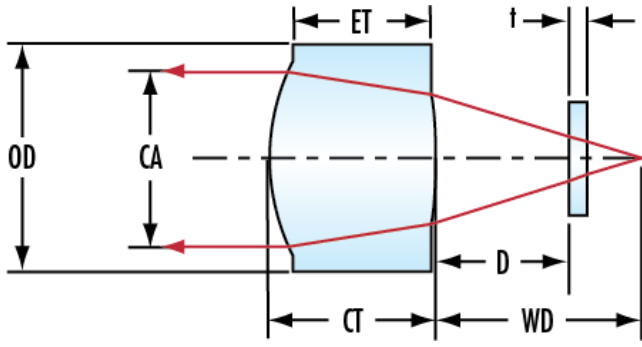
Reach 247:
[Compliant](#)

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 diode-to-fiber coupling, optical data storage, or biomedical lasers.

Technical Information



Compatible Mounts