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LightPath 355440 | 4.7mm Dia., 0.50 NA, BBAR (350-700nm), Molded Aspheric Lens

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Precision Molded Aspheric Lenses

Stock **#87-133** **17 In Stock**

[Other Coating Options](#)

⊖ 1 ⊕ €85⁰⁰

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Volume Pricing	
Qty 1-10	€85,00 each
Qty 11-49	€76,50 each
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

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

Compatible Window:

355440

Lightpath Lens Code:

Aspheric Lens

Type:

Typical Applications:
Finite Conjugate for Magnification

Note:
NA, Object (mm): 0.26
WD, Image (mm): 7.09
WD, Object (mm): 2.71

Physical & Mechanical Properties

Diameter (mm):
4.70 ±0.020

Clear Aperture CA (mm):
4.12

Edge Thickness ET (mm):
2.68

Center Thickness CT (mm):
3.83 ±0.05

Bevel:
Protective as needed

Distance from Window to Lens (D) (mm):
1.962

Optical Properties

Effective Focal Length EFL (mm):
2.76 @980nm

Numerical Aperture NA:
0.50

Substrate:
[D-ZLaF52LA](#)

Focal Length Tolerance (%):
±1

Aspheric Design Wavelength (nm):
980

Coating:
BBAR (350-700nm)

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

Surface Quality:
40-20

f#:
0.96

Abbe Number (v_d):
40.79

Index of Refraction (n_d):
1.806

Wavelength Range (nm):
350 - 700

Working Distance (mm):
7.09

Conjugate Distance:
Finite

Focal Length Specification Wavelength (nm):
980.00

Transmitted Wavefront Error (λ , RMS):
< 0.20

Material Properties

Coefficient of Thermal Expansion CTE ($10^{-6}/^{\circ}\text{C}$):
6.9

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

