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LightPath 355440 | 4.7mm Dia., 0.50 NA, BBAR (600-1050nm), Molded Aspheric Lens

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Precision Molded Aspheric Lenses

Stock **#87-134** CLEARANCE **15 In Stock**

☐ [Other Coating Options](#)

-

1

+

S\$119⁰⁰

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Qty 1+	S\$119.00 each
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Product Downloads

General	
Thickness: 0.25 (t) (mm) Material: BK7	Compatible Window:
355440	Lightpath Lens Code:
Aspheric Lens	Type:
Finite Conjugate for Magnification	Typical Applications:

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 (600-1050nm)	
Coating Specification:	
R _{abs} <1.0% @ 600 - 1050nm	
Surface Quality:	
40-20	
f#:	
0.96	
Abbe Number (v _d):	
40.79	
Index of Refraction (n _d):	
1.806	
Wavelength Range (nm):	
600 - 1050	
Working Distance (mm):	
7.09	
Conjugate Distance:	
Finite	
Focal Length Specification Wavelength (nm):	
980.00	
Transmitted Wavefront Error (λ, RMS):	
< 0.200	

Material Properties	
Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):	
6.9	

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.

LASER OPTICS

MADE BY EDMUND OPTICS®



Technical Information

