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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**

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1

+

S\$119⁰⁰

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Volume Pricing	
Qty 1-10	S\$119.00 each
Qty 11-49	S\$107.10 each
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Product Downloads

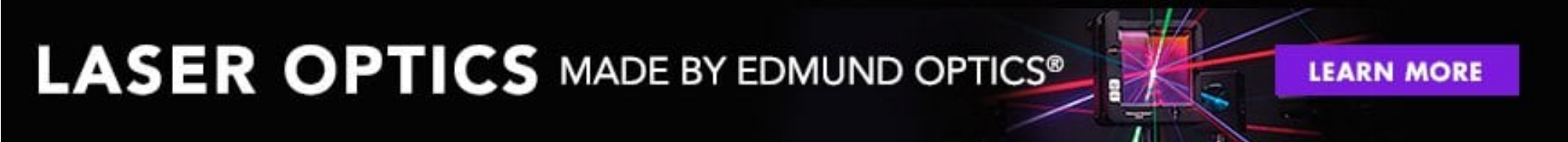
General	
Thickness: 0.25 (t) (mm) Material: BK7	Compatible Window:
355440	Lightpath Lens Code:
Aspheric Lens	Type:

Typical Applications: Finite Conjugate for Magnification	
NA, Object (mm): 0.26 WD, Image (mm): 7.09 WD, Object (mm): 2.71	Note:
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} ≤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 /°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.



Technical Information

