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LightPath 355390 | 4.5mm Dia., 0.55 NA, BBAR (1050-1600nm), Molded Aspheric Lens

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Precision Molded Aspheric Lenses

Stock **#66-927** **20+ In Stock**

[Other Coating Options](#)

⊖ 1 ⊕ **S\$105⁰⁰**

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Volume Pricing	
Qty 1-10	S\$105.00 each
Qty 11-49	S\$94.50 each
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Product Downloads

General

355390 **Lightpath Lens Code:**

Aspheric Lens **Type:**

Collimate or Focus Laser Light **Typical Applications:**

Physical & Mechanical Properties

4.50 ±0.015	Diameter (mm):
3.6	Clear Aperture CA (mm):
1.13	Edge Thickness ET (mm):
1.90 ±0.04	Center Thickness CT (mm):
Protective as needed	Bevel:

Optical Properties

2.75 @ 830nm	Effective Focal Length EFL (mm):
0.55	Numerical Aperture NA:
D-ZLaF52LA	Substrate: <input type="checkbox"/>
±1	Focal Length Tolerance (%):
830	Aspheric Design Wavelength (nm):
BBAR (1050-1600nm)	Coating:
$R_{\text{abs}} < 1.0\%$ @ 1050 - 1600nm	Coating Specification:
40-20	Surface Quality:
0.91	f#:
40.79	Abbe Number (v_d):
1.806	Index of Refraction (n_d):
1050 - 1600	Wavelength Range (nm):
2.16	Working Distance (mm):
Infinite	Conjugate Distance:
830.00	Focal Length Specification Wavelength (nm):
< 1.30	Transmitted Wavefront Error (λ, RMS):

Material Properties

6.9	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

