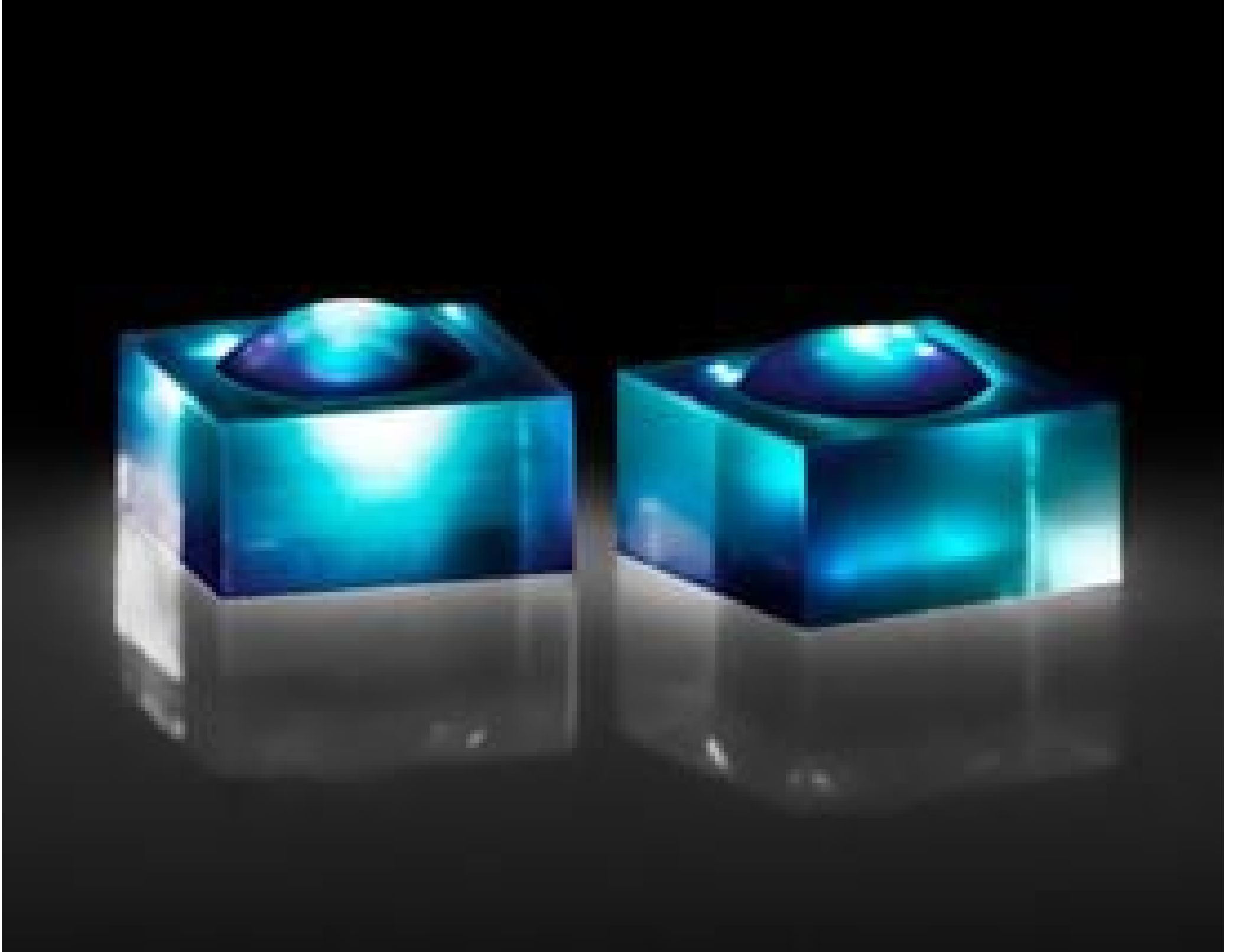


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LightPath 355485 | 1 x 1mm, 0.50 NA, BBAR (350-700nm), Molded Aspheric Lens

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Stock #37-112 CLEARANCE **20+ In Stock**

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General

355485 **Lightpath Lens Code:**

Aspheric Lens **Type:**

Finite Conjugate for Magnification **Typical Applications:**

NA, Image (mm): 0.10 **Note:**
 WD, Image (mm): 3.03
 WD, Object (mm): 0.3

Physical & Mechanical Properties

1.0 x 1.0 ± 0.015 **Dimensions (mm):**

0.35 **Clear Aperture CA (mm):**

0.51 **Edge Thickness ET (mm):**

0.66 ± 0.05 **Center Thickness CT (mm):**

Protective as needed **Bevel:**

Optical Properties

0.55 @ 1550nm **Effective Focal Length EFL (mm):**

0.50 **Numerical Aperture NA:**

[D-ZLaF52LA](#) **Substrate:** □

±1 **Focal Length Tolerance (%):**

1550 **Aspheric Design Wavelength (nm):**

BBAR (350-700nm) **Coating:**

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

40-20 **Surface Quality:**

1.00 **f/#:**

40.79 **Abbe Number (v_d):**

1.806 **Index of Refraction (n_d):**

350 - 700 **Wavelength Range (nm):**

0.3 **Working Distance (mm):**

Finite **Conjugate Distance:**

1550.00 **Focal Length Specification Wavelength (nm):**

< 0.040 **Transmitted Wavefront Error (λ , RMS):**

Material Properties

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

Environmental & Durability Factors

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

Regulatory Compliance

[Compliant](#) **RoHS 2015:**

[View](#) **Certificate of Conformance:**

[Compliant](#) **Reach 233:**

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

