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LightPath 355485 | 1 x 1mm, 0.50 NA, BBAR (1050-1600nm), Molded Aspheric Lens

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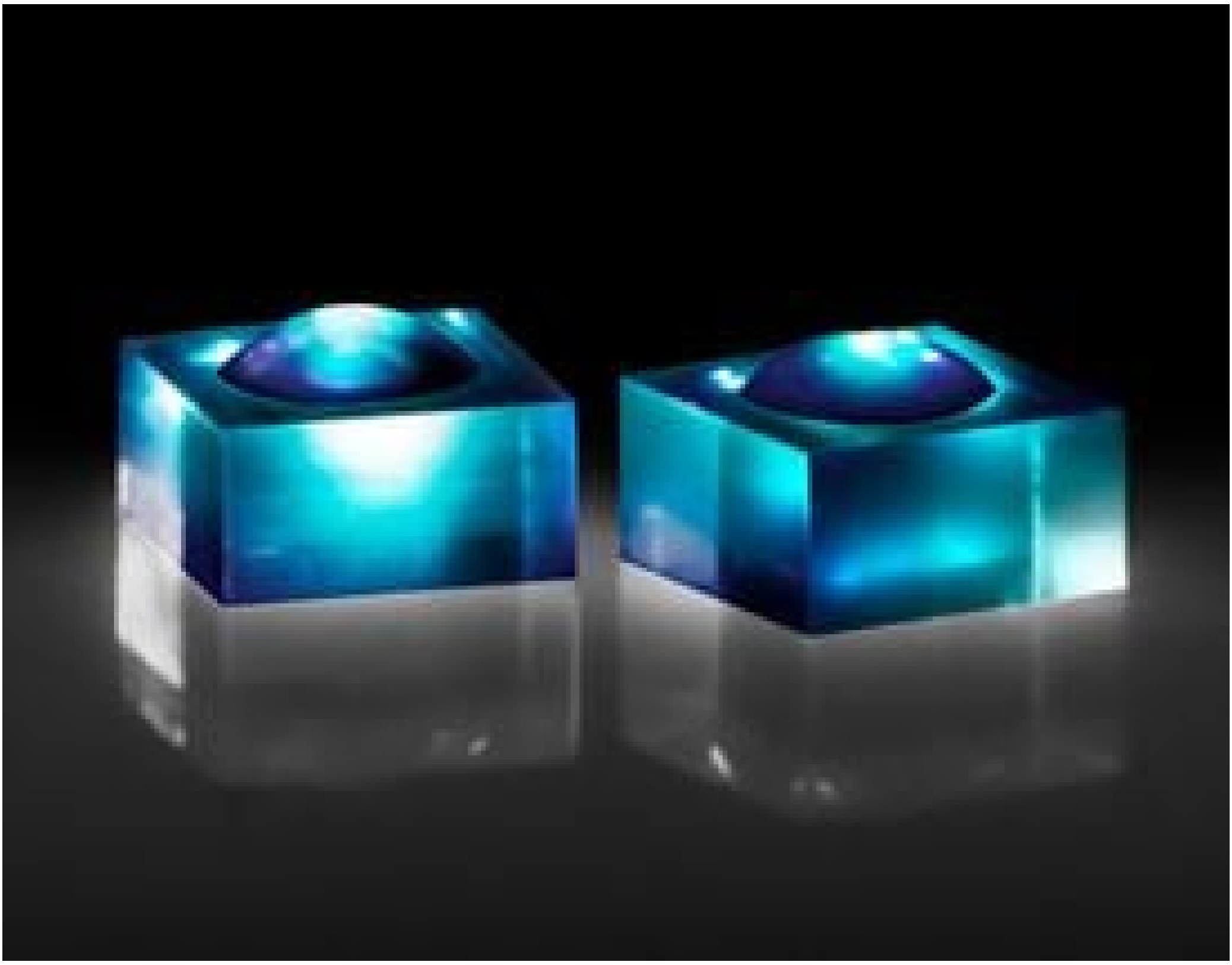

Stock **#37-114** **20+ In Stock**

- 1 + **A$142**.40

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Volume Pricing	
Qty 1-10	**A$142.40** each
Qty 11-49	**A$128.00** each
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Product Downloads

General

Lightpath Lens Code:
355485

Type:
Aspheric Lens

Typical Applications:
Finite Conjugate for Magnification

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

Physical & Mechanical Properties

Dimensions (mm):
1.0 x 1.0 ±0.015

Clear Aperture CA (mm):
0.35

Edge Thickness ET (mm):
0.51

Center Thickness CT (mm):
0.66 ±0.05

Bevel:
Protective as needed

Optical Properties

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

Numerical Aperture NA:
0.50

Substrate:
D-ZLaF52LA

Focal Length Tolerance (%):
±1

Aspheric Design Wavelength (nm):
1550

Coating:
BBAR (1050-1600nm)

Coating Specification:
R_{abs} <1.0% @ 1050 - 1600nm

Surface Quality:
40-20

f/#:
1.00

Abbe Number (v_d):
40.79

Index of Refraction (n_d):
1.806

Wavelength Range (nm):
1050 - 1600

Working Distance (mm):
0.3

Conjugate Distance:
Finite

Focal Length Specification Wavelength (nm):
1550.00

Transmitted Wavefront Error (λ, RMS):
< 0.04

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

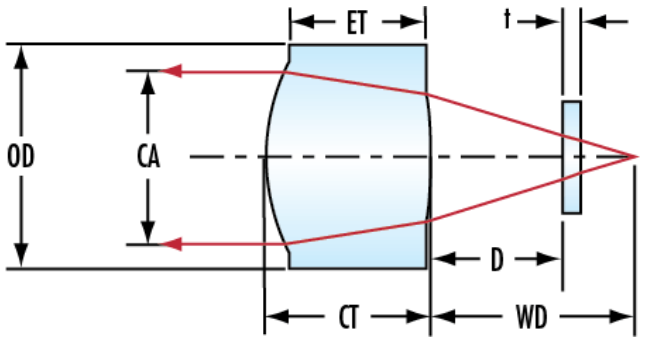
Reach 247:
Compliant

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



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