

LightPath 355022 | 5.42mm Dia., 0.47 NA, BBAR (350-700nm), Molded Aspheric Lens

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Precision Molded Aspheric Lenses

Stock #16-687 CLEARANCE **8 In Stock**

⊖ 1 ⊕ C\$119⁰⁰

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Volume Pricing	
Qty 1+	C\$119.00 each
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General

Compatible Window:
Thickness: 1.20 (t) (mm) Material: BK7

Lightpath Lens Code:
355022

Type:
Aspheric Lens

Typical Applications:
Collimate or Focus Laser Light

Physical & Mechanical Properties

5.42 ±0.015	Diameter (mm):
4.2	Clear Aperture CA (mm):
2.53	Edge Thickness ET (mm):
3.27 ±0.05	Center Thickness CT (mm):
Protective as needed	Bevel:

Optical Properties

4.47 @ 780nm	Effective Focal Length EFL (mm):
0.47	Numerical Aperture NA:
D-ZLaF52LA	Substrate: □
±1	Focal Length Tolerance (%):
780	Aspheric Design Wavelength (nm):
BBAR (350-700nm)	Coating:
$R_{avg} \leq 0.5\%$ @ 350 - 700nm	Coating Specification:
40-20	Surface Quality:
1.06	f#:
40.99	Abbe Number (v_d):
1.81	Index of Refraction (n_d):
350 - 700	Wavelength Range (nm):
3.08	Working Distance (mm):
Infinite	Conjugate Distance:
780	Focal Length Specification Wavelength (nm):

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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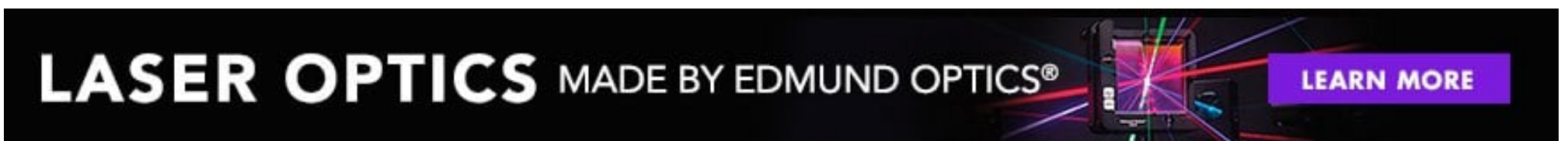
Regulatory Compliance

Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 233:

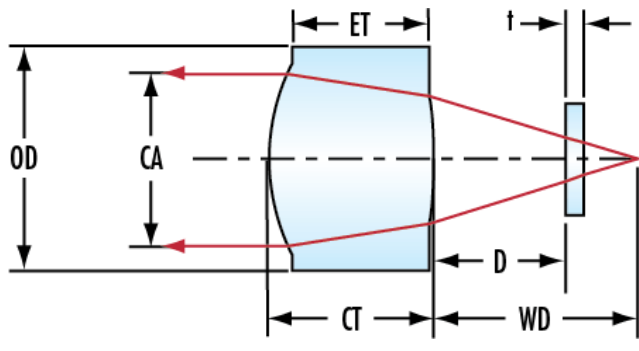
Product Details

- 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



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