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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 + S$119.00

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Qty 1+	**S$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

Diameter (mm):
5.42 ±0.015

Clear Aperture CA (mm):
4.2

Edge Thickness ET (mm):
2.53

Center Thickness CT (mm):
3.27 ±0.05

Bevel:
Protective as needed

Optical Properties

Effective Focal Length EFL (mm):
4.47 @ 780nm

Numerical Aperture NA:
0.47

Substrate:
D-ZLaF52LA

Focal Length Tolerance (%):
±1

Aspheric Design Wavelength (nm):
780

Coating:
BBAR (350-700nm)

Coating Specification:
R_{avg} ≤0.5% @ 350 - 700nm

Surface Quality:
40-20

f/#:
1.06

Abbe Number (v_d):
40.99

Index of Refraction (n_d):
1.81

Wavelength Range (nm):
350 - 700

Working Distance (mm):
3.08

Conjugate Distance:
Infinite

Focal Length Specification Wavelength (nm):
780

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

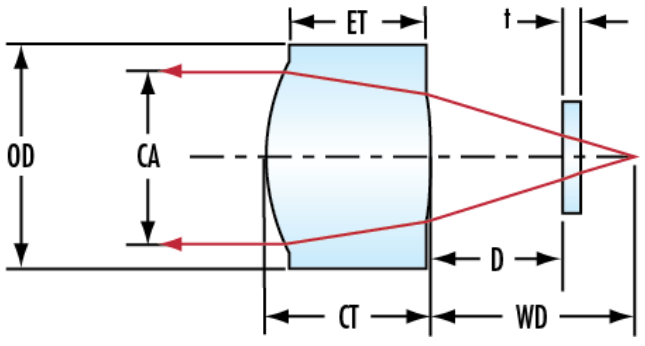
Reach 233:
Compliant

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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