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LightPath 352240 | 9.94mm Dia., 0.50 NA, BBAR (350-700nm), Molded Aspheric Lens

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Precision Molded Aspheric Lenses

Stock **#47-144** CLEARANCE **20+ In Stock**

- 1 + £39.20

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Qty 1+	**£39.20** each
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Product Downloads

General

Lightpath Lens Code:
352240

Type:
Aspheric Lens

Typical Applications:
Collimate or Focus Laser Light

Physical & Mechanical Properties

Diameter (mm):
9.94 ±0.015

Clear Aperture CA (mm):
8.00

Edge Thickness ET (mm):
1.56

Center Thickness CT (mm):
3.69 ±0.04

Bevel:
Protective as needed

Optical Properties

Effective Focal Length EFL (mm):
8.00 @ 780nm

Numerical Aperture NA:
0.50

Substrate:
ECO-550

Focal Length Tolerance (%):
±1

Aspheric Design Wavelength (nm):
780

Coating:
BBAR (350-700nm)

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

Asphere Figure Error (µm RMS):
Diffraction Limited Transmitted Wavefront

Surface Quality:
40-20

f/#:
1.00

Abbe Number (v_d):
50.22

Index of Refraction (n_d):
1.603

Wavelength Range (nm):
350 - 700

Working Distance (mm):
5.92

Conjugate Distance:
Infinite

Focal Length Specification Wavelength (nm):
780.00

Transmitted Wavefront Error (λ, RMS):
< 0.040

Material Properties

Coefficient of Thermal Expansion CTE (10^{-6}/°C):
11.1

Environmental & Durability Factors

Operating Temperature (°C):
≤200

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

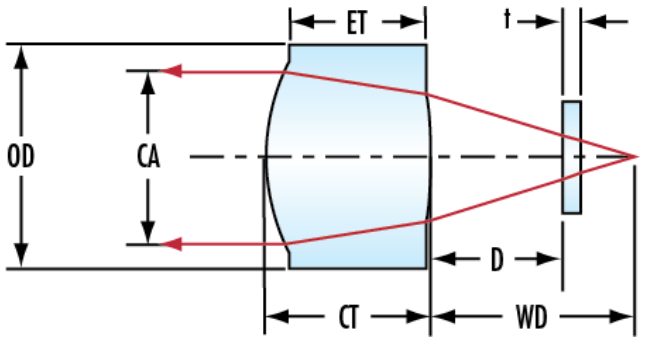
Reach 233:
Compliant

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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