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LightPath 354350 | 4.7mm Dia., 0.43 NA, BBAR (350-700nm), Molded Aspheric Lens

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Precision Molded Aspheric Lenses

Stock **#83-578** **20+ In Stock**

Other Coating Options

- 1 + S$105.00

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Volume Pricing	
Qty 1-10	**S$105.00** each
Qty 11-49	**S$94.50** each
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Product Downloads

General

Lightpath Lens Code:
354350

Type:
Aspheric Lens

Typical Applications:
Collimate or Focus Laser Light

Physical & Mechanical Properties

Diameter (mm):
4.70 ±0.015

Clear Aperture CA (mm):
3.7

Edge Thickness ET (mm):
2.77

Center Thickness CT (mm):
3.65 ±0.04

Bevel:
Protective as needed

Optical Properties

Effective Focal Length EFL (mm):
4.50 @ 980nm

Numerical Aperture NA:
0.43

Substrate:
D-ZK3

Focal Length Tolerance (%):
±1

Aspheric Design Wavelength (nm):
980

Coating:
BBAR (350-700nm)

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

Surface Quality:
40-20

f/#:
1.16

Abbe Number (v_d):
60.88

Index of Refraction (n_d):
1.586

Wavelength Range (nm):
350 - 700

Working Distance (mm):
2.2

Conjugate Distance:
Infinite

Focal Length Specification Wavelength (nm):
980.00

Transmitted Wavefront Error (λ, RMS):
< 0.07

Material Properties

Coefficient of Thermal Expansion CTE (10^{-6}/°C):
7.6

Environmental & Durability Factors

Operating Temperature (°C):
≤200

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

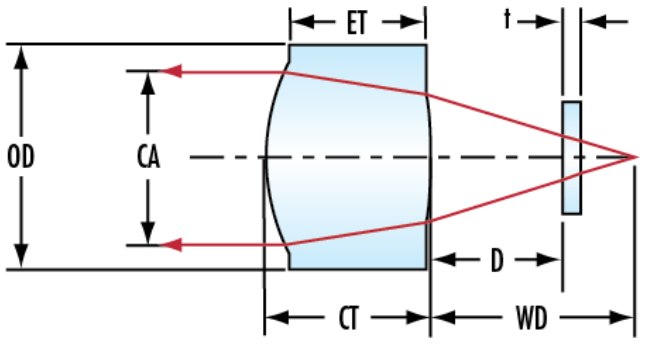
Reach 247:
Compliant

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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