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LightPath 354350 | 4.7mm Dia., 0.43 NA, BBAR (600-1050nm), Molded Aspheric Lens

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Precision Molded Aspheric Lenses

Stock **#83-579** **20+ In Stock**

[Other Coating Options](#)

-

1

+

A\$120⁰⁰

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Volume Pricing	
Qty 1-10	A\$120.00 each
Qty 11-49	A\$108.00 each
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Product Downloads

General

354350

Lightpath Lens Code:

Aspheric Lens

Type:

Collimate or Focus Laser Light

Typical Applications:

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 (600-1050nm)	
	Coating Specification:
R _{abs} <1.0% @ 600 - 1050nm	
	Surface Quality:
40-20	
	f/#:
1.16	
	Abbe Number (v _d):
60.88	
	Index of Refraction (n _d):
1.586	
	Wavelength Range (nm):
600 - 1050	
	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.

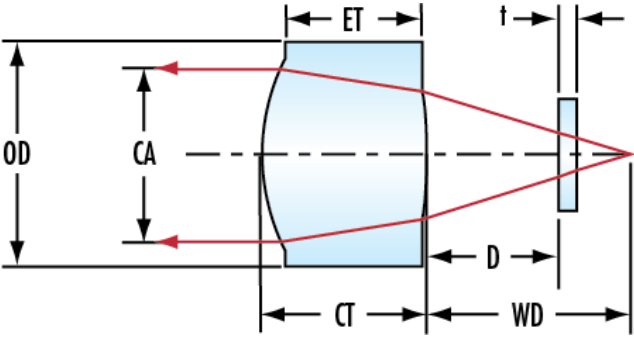
LASER OPTICS

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Technical Information



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