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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 ⊕ €49.⁰⁰

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Volume Pricing	
Qty 1+	€49,00 each
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i Prices shown are exclusive of VAT/local taxes

Product Downloads

General

352240 **Lightpath Lens Code:**

Aspheric Lens **Type:**

Collimate or Focus Laser Light **Typical Applications:**

Physical & Mechanical Properties

9.94 ±0.015	Diameter (mm):
8.00	Clear Aperture CA (mm):
1.56	Edge Thickness ET (mm):
3.69 ±0.04	Center Thickness CT (mm):
Protective as needed	Bevel:

Optical Properties

8.00 @ 780nm	Effective Focal Length EFL (mm):
0.50	Numerical Aperture NA:
ECO-550	Substrate: <input type="checkbox"/>
±1	Focal Length Tolerance (%):
780	Aspheric Design Wavelength (nm):
BBAR (350-700nm)	Coating:
$R_{avg} \leq 0.5\%$ @ 350 - 700nm	Coating Specification:
Diffraction Limited Transmitted Wavefront	Asphere Figure Error ($\mu\text{m RMS}$):
40-20	Surface Quality:
1.00	f/#:
50.22	Abbe Number (v_d):
1.603	Index of Refraction (n_d):
350 - 700	Wavelength Range (nm):
5.92	Working Distance (mm):
Infinite	Conjugate Distance:
780.00	Focal Length Specification Wavelength (nm):
< 0.040	Transmitted Wavefront Error (λ, RMS):

Material Properties

11.1	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

