See all 76 Products in Family

LightPath 354120 | 4.99mm Dia., 0.15 NA, BBAR (350-700nm), Molded Aspheric Lens

See More by Lightpath®

Precision Molded Aspheric Lenses

Stock **#16-689** **14 In Stock**

- 1 + S$119.00

ADD TO CART

Volume Pricing	
Qty 1-10	**S$119.00** each
Qty 11-49	**S$107.10** each
Need More?	Request Quote

Product Downloads

General

Lightpath Lens Code:
354120

Type:
Aspheric Lens

Typical Applications:
Collimate or Focus Laser Light

Physical & Mechanical Properties

Diameter (mm):
4.99 ±0.015

Clear Aperture CA (mm):
4.5

Edge Thickness ET (mm):
2.61

Center Thickness CT (mm):
2.92 ±0.03

Bevel:
Protective as needed

Optical Properties

Effective Focal Length EFL (mm):
15.04 @ 670nm

Numerical Aperture NA:
0.15

Substrate:
D-ZK3

Focal Length Tolerance (%):
±1

Aspheric Design Wavelength (nm):
670

Coating:
BBAR (350-700nm)

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

Surface Quality:
40-20

f/#:
3.33

Abbe Number (v_d):
61.15

Index of Refraction (n_d):
1.589

Wavelength Range (nm):
350 - 700

Working Distance (mm):
13.19

Conjugate Distance:
Infinite

Focal Length Specification Wavelength (nm):
670

Transmitted Wavefront Error (λ, RMS):
<0.076

Material Properties

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

Environmental & Durability Factors

Operating Temperature (°C):
≤200

Regulatory Compliance

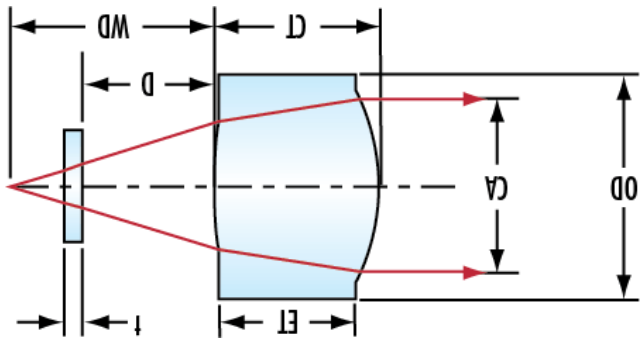
Certificate of Conformance:
View

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


WD
CT
D
CA
OD
ET
t