See all 75 Products in Family

LightPath 355440 | 4.7mm Dia., 0.50 NA, BBAR (600-1050nm), Molded Aspheric Lens

See More by Lightpath®

Precision Molded Aspheric Lenses

Stock **#87-134** CLEARANCE **15 In Stock**

Other Coating Options

- 1 + **£68**.00

ADD TO CART

Volume Pricing	
Qty 1+	**£68.00** each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Compatible Window:

Thickness: 0.25 (t) (mm)
Material: BK7

Lightpath Lens Code:

355440

Type:

Aspheric Lens

Typical Applications:
Finite Conjugate for Magnification

Note:
NA, Object (mm): 0.26
WD, Image (mm): 7.09
WD, Object (mm): 2.71

Physical & Mechanical Properties

Diameter (mm):
4.70 ±0.020

Clear Aperture CA (mm):
4.12

Edge Thickness ET (mm):
2.68

Center Thickness CT (mm):
3.83 ±0.05

Bevel:
Protective as needed

Distance from Window to Lens (D) (mm):
1.962

Optical Properties

Effective Focal Length EFL (mm):
2.76 @ 980nm

Numerical Aperture NA:
0.50

Substrate:
D-ZLaF52LA

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/#:
0.96

Abbe Number (v_d):
40.79

Index of Refraction (n_d):
1.806

Wavelength Range (nm):
600 - 1050

Working Distance (mm):
7.09

Conjugate Distance:
Finite

Focal Length Specification Wavelength (nm):
980.00

Transmitted Wavefront Error (λ, RMS):
< 0.200

Material Properties

Coefficient of Thermal Expansion CTE (10^{-6}/°C):
6.9

Environmental & Durability Factors

Operating Temperature (°C):
≤200

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

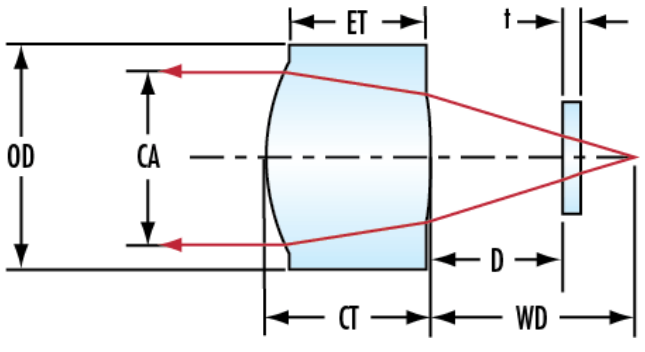
Reach 247:
Compliant

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



;