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LightPath 390017 | 3.5mm Dia., 0.72 NA, BBAR (1800-3000nm), Molded IR Aspheric Lens

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Stock #83-717 14 In Stock

☐ Other Coating Options

-

1

+

€410⁰⁰

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Volume Pricing	
Qty 1-10	€410,00 each
Qty 11-49	€369,00 each
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Product Downloads

General	
390017	Lightpath Lens Code:
Aspheric Lens	Type:

Physical & Mechanical Properties	
	Diameter (mm):

3.50 ±0.015	
2.60	Clear Aperture CA (mm):
0.72	Edge Thickness ET (mm):
1.10	Center Thickness CT (mm):

Protective as needed	Bevel:
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Optical Properties

1.50 @ 2300nm	Effective Focal Length EFL (mm):
0.72	Numerical Aperture NA:

Black Diamond™ BD-2 (Ge ₂₆ Sb ₁₂ Se ₆₀)	Substrate:
2300	Aspheric Design Wavelength (nm):

BBAR (1800-3000nm)	Coating:
R _{avg} <1.0% @ 1.8 - 3.0μm	Coating Specification:

80-50	Surface Quality:
0.69	f/#:

2.6023	Index of Refraction (n _d) @ 10μm:
2.5843	Index of Refraction (n _d) @ 14μm:

2.6210	Index of Refraction (n _d) @ 4μm:
2.6173	Index of Refraction (n _d) @ 5μm:

1800 - 3000	Wavelength Range (nm):
1.24	Working Distance (mm):

Infinite	Conjugate Distance:
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Material Properties

4.68	Density (g/cm ³):
70 x 10 ⁻⁶ /°C from -40° to +80°C (5 - 14 μm)	Thermo-optic coefficient dn/dT:

285.00	Transformation Temperature (°C):
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Regulatory Compliance

Compliant	RoHS 2015:
View	Certificate of Conformance:

Compliant	Reach 247:
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Product Details

- Wavelength Range of 1.8 - 12μm
- Variety of Coating Options
- Mounted and Unmounted Versions

LightPath® Mid-Wave and Long-Wave Infrared (IR) Aspheric Lenses feature a low-cost, molded design and offer several key benefits over Germanium substrate aspheres. With a dn/dT and CTE significantly less than that of Germanium, the lenses feature a smaller change in focal length as a function of temperature change. Featuring a higher operating temperature than Germanium (which suffers 20 – 30% transmission loss at 100°C), the lenses can be used in applications including collimators for QCL lasers and as components within thermal imaging assemblies. LightPath Mid-Wave and Long-Wave Infrared (IR) Aspheric Lenses have a wavelength range of 1.8 - 12μm. These lenses are available mounted or unmounted, in a variety of coating options.

Technical Information

