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## LightPath 390017 | 3.5mm Dia., 0.72 NA, BBAR (3000-5000nm), Molded IR Aspheric Lens

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Stock #83-718 **14 In Stock**

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⊖ 1 ⊕ C\$574<sup>00</sup>

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### Volume Pricing

Qty 1-10	C\$574.00 each
Qty 11-49	C\$516.60 each
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### General

390017 Lightpath Lens Code:

Aspheric Lens Type:

### Physical & Mechanical Properties

3.50 ±0.015 Diameter (mm):

2.60	<b>Clear Aperture CA (mm):</b>
0.72	<b>Edge Thickness ET (mm):</b>
1.10	<b>Center Thickness CT (mm):</b>
	<b>Bevel:</b>
Protective as needed	

## Optical Properties

1.50 @ 2300nm	<b>Effective Focal Length EFL (mm):</b>
0.72	<b>Numerical Aperture NA:</b>
Black Diamond™ BD-2 (Ge <sub>26</sub> Sb <sub>12</sub> Se <sub>60</sub> )	<b>Substrate:</b> <input type="checkbox"/>
2300	<b>Aspheric Design Wavelength (nm):</b>
BBAR (3000-5000nm)	<b>Coating:</b>
R <sub>avg</sub> <1.0% @ 3 - 5μm	<b>Coating Specification:</b>
80-50	<b>Surface Quality:</b>
0.69	<b>f#:</b>
2.6023	<b>Index of Refraction (n<sub>d</sub>) @ 10μm:</b>
2.5843	<b>Index of Refraction (n<sub>d</sub>) @ 14μm:</b>
2.6210	<b>Index of Refraction (n<sub>d</sub>) @ 4μm:</b>
2.6173	<b>Index of Refraction (n<sub>d</sub>) @ 5μm:</b>
3000 - 5000	<b>Wavelength Range (nm):</b>
1.24	<b>Working Distance (mm):</b>
Infinite	<b>Conjugate Distance:</b>
2300	<b>Focal Length Specification Wavelength (nm):</b>

## Material Properties

14.00	<b>Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C):</b>
4.68	<b>Density (g/cm<sup>3</sup>):</b>
70 x 10 <sup>-6</sup> /°C from -40° to +80°C (5 - 14 μm)	<b>Thermo-optic coefficient dn/dT:</b>
285.00	<b>Transformation Temperature (°C):</b>

## Regulatory Compliance

<a href="#">Compliant</a>	<b>RoHS 2015:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>
<a href="#">Compliant</a>	<b>Reach 247:</b>

## 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

3.0 - 5.0 $\mu$ m AR Coating

