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LightPath 390037 | 5.5mm Dia., 0.85 NA, BBAR (1800-3000nm), Molded IR Aspheric Lens

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Stock **#66-564** CLEARANCE **1 In Stock**

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1

+

£200⁰⁰

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Product Downloads

General	
390037	Lightpath Lens Code:
Aspheric Lens	Type:

Physical & Mechanical Properties	
5.50 ±0.015	Diameter (mm):

4.00	Clear Aperture CA (mm):
2.24	Edge Thickness ET (mm):
3.00	Center Thickness CT (mm):

Protective as needed	Bevel:
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Optical Properties

1.87 @ 9500nm	Effective Focal Length EFL (mm):
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0.85	Numerical Aperture NA:
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Black Diamond™ BD-2 (Ge ₂₆ Sb ₁₂ Se ₆₀)	Substrate: ☐
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9500	Aspheric Design Wavelength (nm):
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BBAR (1800-3000nm)	Coating:
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R _{avg} <1.0% @ 1.8 - 3.0µm	Coating Specification:
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80-50	Surface Quality:
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0.58	f/#:
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2.6023	Index of Refraction (n _d) @ 10µm:
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2.5843	Index of Refraction (n _d) @ 14µm:
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2.6210	Index of Refraction (n _d) @ 4µm:
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2.6173	Index of Refraction (n _d) @ 5µm:
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1800 - 3000	Wavelength Range (nm):
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0.72	Working Distance (mm):
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Infinite	Conjugate Distance:
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Material Properties

4.68	Density (g/cm³):
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70 x 10 ⁻⁶ /°C from -40° to +80°C (5 - 14 µm)	Thermo-optic coefficient dn/dT:
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285.00	Transformation Temperature (°C):
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Regulatory Compliance

Compliant	RoHS 2015:
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View	Certificate of Conformance:
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Compliant	Reach 233:
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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



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