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LightPath 390036 | 6.5mm Dia., 0.56 NA, BBAR (1800-3000nm), Molded IR Aspheric Lens

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Stock **#66-560** **9 In Stock**

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1

+

£328⁰⁰

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Volume Pricing	
Qty 1-10	£328.00 each
Qty 11-49	£295.20 each
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Product Downloads

General

390036

Lightpath Lens Code:

Aspheric Lens

Type:

Physical & Mechanical Properties

Diameter (mm):

6.50 ±0.015	
	Clear Aperture CA (mm):
5.00	
	Edge Thickness ET (mm):
1.94	
	Center Thickness CT (mm):
2.50	

	Bevel:
Protective as needed	

Optical Properties

	Effective Focal Length EFL (mm):
4.00 @ 2500nm	
	Numerical Aperture NA:
0.56	

	Substrate: Black Diamond™ BD-2 (Ge₂₆Sb₁₂Se₆₀)
	Aspheric Design Wavelength (nm):
2500	

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

	Surface Quality:
80-50	
	f/#:
0.89	

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

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

	Wavelength Range (nm):
1800 - 3000	
	Working Distance (mm):
3.05	

	Conjugate Distance:
Infinite	

Material Properties

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

	Transformation Temperature (°C):
285.00	

Regulatory Compliance

	RoHS 2015:
Compliant	
	Certificate of Conformance:
View	

	Reach 247:
Compliant	

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



Compatible Mounts

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