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LightPath 390010 | 4.5mm Dia., 0.83 NA, BBAR (8000-12000nm), Molded IR Aspheric Lens

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Stock #88-073 **2 In Stock**

- 1 + MRP ₹41,365

Price inclusive of all taxes

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Volume Pricing	
Qty 1-10	₹41,365 each
Qty 11-49	₹37,229 each
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General

390010 Lightpath Lens Code:

Aspheric Lens Type:

Physical & Mechanical Properties

4.50 ±0.015 Diameter (mm):

3.00	Clear Aperture CA (mm):
1.63	Edge Thickness ET (mm):
2.17	Center Thickness CT (mm):
Protective as needed	Bevel:

Optical Properties

1.47 @ 9200nm	Effective Focal Length EFL (mm):
0.83	Numerical Aperture NA:
Black Diamond™ BD-2 (Ge ₂₆ Sb ₁₂ Se ₈₀)	Substrate: <input type="checkbox"/>
9200	Aspheric Design Wavelength (nm):
BBAR (8000-12000nm)	Coating:
R _{avg} <1.0% @ 8 - 12μm	Coating Specification:
80-50	Surface Quality:
0.6	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:
8000 - 12000	Wavelength Range (nm):
0.63	Working Distance (mm):
Infinite	Conjugate Distance:
9200	Focal Length Specification Wavelength (nm):

Material Properties

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

Regulatory Compliance

Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 247:
China	Country of Origin:
Edmund Optics India Private Limited 267, Greystone Building, Second Floor, 6th Cross Rd, Binnamangala, Stage 1, Indiranagar, Bengaluru, Karnataka, India 560038 Phone: +91- 80-6845 0000	Imported By:

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 - 12 μ m. These lenses are available mounted or unmounted, in a variety of coating options.

Technical Information

