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LightPath 390028 | 8mm Dia., 0.56 NA, BBAR (3000-5000nm), Molded IR Aspheric Lens

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Stock **#87-178** **16 In Stock**

- 1 + **MRP** ₹47,318

Price inclusive of all taxes

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Volume Pricing	
Qty 1-10	**₹47,318** each
Qty 11-49	**₹42,586** each
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General

Lightpath Lens Code:
390028

Type:
Aspheric Lens

Physical & Mechanical Properties

Diameter (mm):
8.00 ±0.015

Clear Aperture CA (mm):
7.60

Edge Thickness ET (mm):
1.65

Center Thickness CT (mm):
2.50

Bevel:
Protective as needed

Optical Properties

Effective Focal Length EFL (mm):
5.95 @ 4100nm

Numerical Aperture NA:
0.56

Substrate:
Black Diamond™ BD-2 ($Ge_{28}Sb_{12}Se_{60}$)

Aspheric Design Wavelength (nm):
4100

Coating:
BBAR (3000-5000nm)

Coating Specification:
R_{avg} <1.0% @ 3 - 5µm

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):
3000 - 5000

Working Distance (mm):
5.00

Conjugate Distance:
Infinite

Focal Length Specification Wavelength (nm):
4100

Material Properties

Coefficient of Thermal Expansion CTE (10^{-6}/°C):
14.00

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

Country of Origin:
China

Imported By:
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

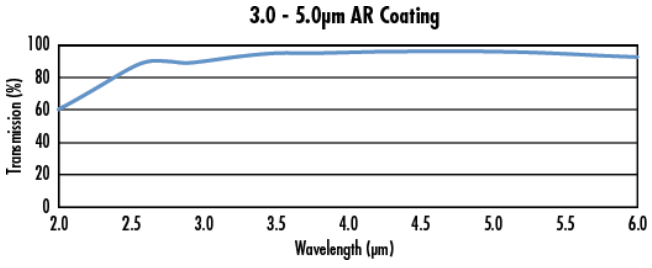
Product Details

- 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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