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LightPath 390010 | 8.24mm Dia., 0.83 NA, BBAR (1800-3000nm), Mounted IR Aspheric Lens

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Stock #88-077 CLEARANCE **3 In Stock**

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1 MRP ₹25,223

Price inclusive of all taxes

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General

390010 **Lightpath Lens Code:**

Aspheric Lens **Type:**

Physical & Mechanical Properties

8.24 ±0.10 **Diameter (mm):**

3.00 Clear Aperture CA (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 (Ge₂₆Sb₁₂Se₆₀) Substrate: □

9200 Aspheric Design Wavelength (nm):

BBAR (1800-3000nm) Coating:

R_{avg} < 1.0% @ 1.8 - 3.0μm 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:

1800 - 3000 Wavelength Range (nm):

0.63 Working Distance (mm):

Infinite Conjugate Distance:

9200 Focal Length Specification Wavelength (nm):

Threading & Mounting

Stainless Steel, M8 x 0.5 Thread Mount:

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 233:

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 - 12 μ m
- 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

