LightPath 390036 | 6.5mm Dia., 0.56 NA, BBAR (3000-5000nm), Mounted IR Aspheric Lens

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Stock **#66-569** **20+ In Stock**

Other Coating Options

- 1 + **€385**.22

ADD TO CART

Volume Pricing	
Qty 1-10	**€385,22** each
Qty 11-49	**€339,90** each
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Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Lightpath Lens Code:

390036

Type:
Aspheric Lens

Physical & Mechanical Properties

Diameter (mm):
6.50 ±0.10

Clear Aperture CA (mm):
5.00

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 ($Ge_{28}Sb_{12}Se_{60}$)

Aspheric Design Wavelength (nm):
2500

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):
3.05

Conjugate Distance:
Infinite

Threading & Mounting

Mount:
Stainless Steel, M9 x 0.5 Thread

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