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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

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1

+

S\$656⁰⁰

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Volume Pricing	
Qty 1-10	S\$656.60 each
Qty 11-49	S\$590.94 each
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General	
390028	Lightpath Lens Code:
Aspheric Lens	Type:
Physical & Mechanical Properties	
8.00 ±0.015	Diameter (mm):
	Clear Aperture CA (mm):

7.60	
1.65	Edge Thickness ET (mm):
2.50	Center Thickness CT (mm):
	Bevel:
Protective as needed	

Optical Properties

5.95 @ 4100nm	Effective Focal Length EFL (mm):
0.56	Numerical Aperture NA:
Black Diamond™ BD-2 (Ge ₂₈ Sb ₁₂ Se ₆₀)	Substrate: 
4100	Aspheric Design Wavelength (nm):
BBAR (3000-5000nm)	Coating:
R _{avg} <1.0% @ 3 - 5µm	Coating Specification:
80-50	Surface Quality:
0.89	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:
3000 - 5000	Wavelength Range (nm):
5.00	Working Distance (mm):
Infinite	Conjugate Distance:

Material Properties

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:

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

