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# LightPath 354240 | 9.94mm Dia., 0.50 NA, BBAR (1050-1600nm), Molded Aspheric Lens

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Precision Molded Aspheric Lenses

Stock **#37-104** **20+ In Stock**

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1

+

C\$138<sup>00</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-10       | C\$138.60 each                |
| Qty 11-49      | C\$124.60 each                |
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Product Downloads

| General                                   |                      |
|-------------------------------------------|----------------------|
| Thickness: 0.25 (t) (mm)<br>Material: BK7 | Compatible Window:   |
| 354240                                    | Lightpath Lens Code: |
| Aspheric Lens                             | Type:                |

|                                                         |                                        |
|---------------------------------------------------------|----------------------------------------|
| Typical Applications:<br>Collimate or Focus Laser Light |                                        |
| Physical & Mechanical Properties                        |                                        |
| Diameter (mm):                                          | 9.94 ±0.015                            |
| Clear Aperture CA (mm):                                 | 8                                      |
| Edge Thickness ET (mm):                                 | 1.44                                   |
| Center Thickness CT (mm):                               | 3.43 ±0.05                             |
| Bevel:                                                  | Protective as needed                   |
| Distance from Window to Lens (D) (mm):                  | 4.911                                  |
| Optical Properties                                      |                                        |
| Effective Focal Length EFL (mm):                        | 8.00 @ 780nm                           |
| Numerical Aperture NA:                                  | 0.5                                    |
| Substrate: □                                            | D-ZK3                                  |
| Focal Length Tolerance (%):                             | ±1                                     |
| Aspheric Design Wavelength (nm):                        | 780                                    |
| Coating:                                                | BBAR (1050-1600nm)                     |
| Coating Specification:                                  | R <sub>abs</sub> <1.0% @ 1050 - 1600nm |
| Surface Quality:                                        | 40-20                                  |
| f/#:                                                    | 1.00                                   |
| Wavelength Range (nm):                                  | 1050 - 1600                            |
| Working Distance (mm):                                  | 5.9                                    |
| Conjugate Distance:                                     | Infinite                               |
| Transmitted Wavefront Error (λ, RMS):                   | < 0.08                                 |
| Environmental & Durability Factors                      |                                        |
| Operating Temperature (°C):                             | ≤200                                   |
| Regulatory Compliance                                   |                                        |
| RoHS 2015:                                              | Compliant                              |
| Certificate of Conformance:                             | View                                   |
| Reach 247:                                              | Compliant                              |

Product Details

- Eliminate Spherical Aberration
- Multiple Coating Options Available
- Range of Numerical Apertures

LightPath® Geltech™ Molded Aspheric Lenses are used to eliminate spherical aberration and improve focusing and collimating accuracy in a variety of laser applications. Low NA aspheric lenses are designed to maintain beam shape, while high NA lenses gather all available light to maintain beam power over long distances. LightPath® Geltech™ Molded Aspheric Lenses are ideal for applications including sighting systems, bar code scanners, laser diode-to-fiber coupling, optical data storage, or biomedical lasers.



