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# LightPath 355160 | 4mm Dia., 0.55 NA, BBAR (600-1050nm), Molded Aspheric Lens

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Precision Molded Aspheric Lenses

Stock **#83-606** **14 In Stock**

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+

A\$120<sup>00</sup>

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| Volume Pricing |                               |
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| Qty 1-10       | A\$120.00 each                |
| Qty 11-49      | A\$108.00 each                |
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Product Downloads

| General                                             |                      |
|-----------------------------------------------------|----------------------|
| Thickness: 1.20 (t) (mm)<br>Material: Polycarbonate | Compatible Window:   |
| 355160                                              | Lightpath Lens Code: |
| Aspheric Lens                                       | Type:                |

|                                                         |                                       |
|---------------------------------------------------------|---------------------------------------|
| Typical Applications:<br>Collimate or Focus Laser Light |                                       |
| Physical & Mechanical Properties                        |                                       |
| Diameter (mm):                                          | 4.00 ±0.015                           |
| Clear Aperture CA (mm):                                 | 3                                     |
| Edge Thickness ET (mm):                                 | 0.71                                  |
| Center Thickness CT (mm):                               | 1.43 ±0.05                            |
| Bevel:                                                  | Protective as needed                  |
| Distance from Window to Lens (D) (mm):                  | 1.170                                 |
| Optical Properties                                      |                                       |
| Effective Focal Length EFL (mm):                        | 2.73 @ 780nm                          |
| Numerical Aperture NA:                                  | 0.55                                  |
| Substrate: □                                            | D-ZLaF52LA                            |
| Focal Length Tolerance (%):                             | ±1                                    |
| Aspheric Design Wavelength (nm):                        | 780                                   |
| Coating:                                                | BBAR (600-1050nm)                     |
| Coating Specification:                                  | R <sub>abs</sub> <1.0% @ 600 - 1050nm |
| Surface Quality:                                        | 40-20                                 |
| f/#:                                                    | 0.91                                  |
| Wavelength Range (nm):                                  | 600 - 1050                            |
| Working Distance (mm):                                  | 2.37                                  |
| Conjugate Distance:                                     | Infinite                              |
| Transmitted Wavefront Error (λ, RMS):                   | < 0.09                                |
| 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.





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