

[See all 76 Products in Family](#)

# LightPath 355198 | 1.4mm Dia., 0.50 NA, BBAR (1050-1600nm), Molded Aspheric Lens

See More by [Lightpath®](#)



Precision Molded Aspheric Lenses

Stock #16-704 **13 In Stock**

⊖ 1 ⊕ A\$120<sup>00</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-10	A\$120.00 each
Qty 11-49	A\$108.00 each
Need More?	<a href="#">Request Quote</a>

Product Downloads

**General**

355198 **Lightpath Lens Code:**

Aspheric Lens **Type:**

Collimate or Focus Laser Light **Typical Applications:**

**Physical & Mechanical Properties**

1.40 ±0.015	<b>Diameter (mm):</b>
1.1	<b>Clear Aperture CA (mm):</b>
0.50	<b>Edge Thickness ET (mm):</b>
0.71 ±0.03	<b>Center Thickness CT (mm):</b>
Protective as needed	<b>Bevel:</b>

## Optical Properties

1.05 @ 1550nm	<b>Effective Focal Length EFL (mm):</b>
0.50	<b>Numerical Aperture NA:</b>
<a href="#">D-ZLaF52LA</a>	<b>Substrate:</b> <input type="checkbox"/>
±1	<b>Focal Length Tolerance (%):</b>
1550	<b>Aspheric Design Wavelength (nm):</b>
BBAR (1050-1600nm)	<b>Coating:</b>
$R_{abs} < 1.0\%$ @ 1050 - 1600nm	<b>Coating Specification:</b>
40-20	<b>Surface Quality:</b>
1.00	<b>f#:</b>
40.99	<b>Abbe Number (<math>v_d</math>):</b>
1.81	<b>Index of Refraction (<math>n_d</math>):</b>
1050 - 1600	<b>Wavelength Range (nm):</b>
0.61	<b>Working Distance (mm):</b>
Infinite	<b>Conjugate Distance:</b>
1550	<b>Focal Length Specification Wavelength (nm):</b>
<0.150	<b>Transmitted Wavefront Error (<math>\lambda</math>, RMS):</b>

## Material Properties

6.9	<b>Coefficient of Thermal Expansion CTE (<math>10^{-6}/^{\circ}\text{C}</math>):</b>
-----	--

## Environmental & Durability Factors

≤200	<b>Operating Temperature (<math>^{\circ}\text{C}</math>):</b>
------	---

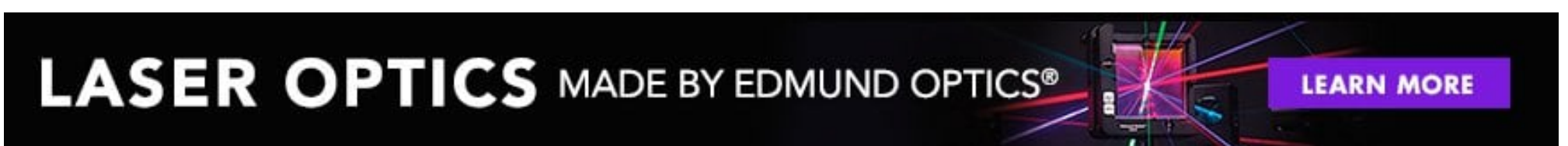
## Regulatory Compliance

<a href="#">Compliant</a>	<b>RoHS 2015:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>
<a href="#">Compliant</a>	<b>Reach 247:</b>

## 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.



## Technical Information



;