LightPath 354058 | 6.33mm Dia., 0.22 NA, BBAR (600-1050nm), Molded Aspheric Lens

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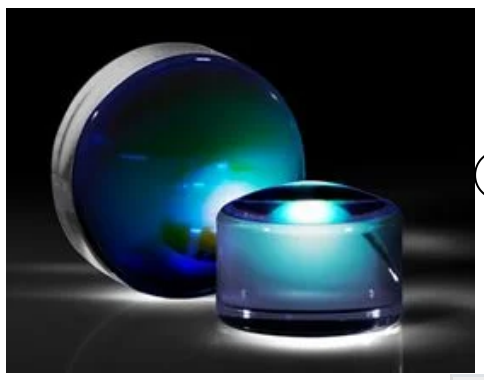

Stock #83-690 4 In Stock Other Coating Options

- 1 +

C$119.00

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Volume Pricing	
Qty 1-10	C$119.00 each
Qty 11-49	C$107.10 each
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Product Downloads

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General

Lightpath Lens Code:	354058	**Type:**	Aspheric Lens

Physical & Mechanical Properties

Diameter (mm):	6.33 ±0.015	**Clear Aperture CA (mm):**	5.20
Edge Thickness ET (mm):	1.67	**Center Thickness CT (mm):**	2.40 ±0.05
Bevel:	Protective as needed		

Optical Properties

Effective Focal Length EFL (mm):	12.00 @ 633nm	**Numerical Aperture NA:**	0.22
Substrate: ⓘ	D-ZK3	**Focal Length Tolerance (%):**	±1
Aspheric Design Wavelength (nm):	633	**Coating:**	BBAR (600-1050nm)
Coating Specification:	R_{abs} <1.0% @ 600 - 1050nm	**Surface Quality:**	60-40
f/#:	2.27	**Abbe Number (v_d):**	61.16
Index of Refraction (n_d):	1.589	**Wavelength Range (nm):**	600 - 1050

Working Distance (mm):	10.600	**Conjugate Distance:**	Infinite
Focal Length Specification Wavelength (nm):	633.00	**Transmitted Wavefront Error (λ, RMS):**	< 0.145

Material Properties

Coefficient of Thermal Expansion CTE (10^{-6}/°C):	7.6		

Regulatory Compliance

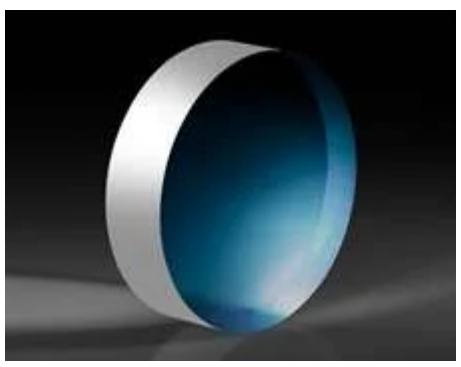
RoHS 2015:	**Compliant**	**Certificate of Conformance:**	**View**
Reach 247:	**Compliant**		

Product Details

- Compact, Molded Aspheric Lens Design
- Improved Performance Compared to Doublet and Triplet Lenses
- Ideal for Laser Tools and Measurement Systems

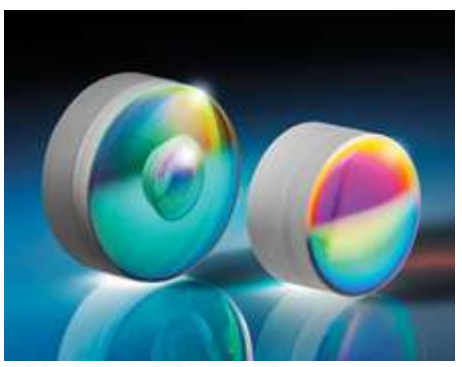
LightPath® Laser Tool Molded Aspheric Lenses are designed to fulfill the needs of a variety of tools and measurement systems utilizing laser diodes, including leveling lasers, projectors, scanners, trackers, and gun sights. By utilizing a single aspheric lens, the need for a multi-lens system is eliminated, allowing for a more compact and robust design. Each aspheric lens is offered with various anti-reflection coatings for optimum transmission in the visible and NIR wavelength ranges. LightPath® Laser Tool Molded Aspheric Lenses' anti-reflection coating options for each lens provides <1% average reflection over the entire design wavelength range. The lenses are offered in four different diameters: 3mm, 4.70mm, 6mm, and 6.33mm.

Frequently Purchased Together



#45-308 – 10mm Dia. 1mm Thick Uncoated, 1λ Fused Silica Window
C$105.00
Qty

#45-600 – 10mm Dia. Protected Gold, λ/4 Mirror
C$116.90
Qty



#45-783 – 6mm Dia. x 9mm FL, NIR II Coated, Achromatic Lens
C$158.20
Qty

#47-976 – 12.5mm Dia. x 6mm 532/1064nm, Dual Band Laser Mirror
C$221.20
Qty

Resources

Media Type

- Application Note
- Technical Tool
- Video

APPLICATION NOTE
An Introduction to Optical Coatings

TECHNICAL TOOL
Gaussian Beams Calculator

VIDEO
Polarization Directed Flat Lenses Product Review

- [ ] FAQ
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? FAQ

What is the best lens for focusing or collimating th...

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Free-Space Optical Communication

APPLICATION NOTE

Common Laser Optics Materials

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