

TECHSPEC®

50.8mm Dia x 101.6mm FL, 1064nm V-Coat, High Precision Laser Grade Aspheric Lens



High Precision Laser Grade Aspheric Lenses

Stock **#39-567** **3 In Stock**

[Other Coating Options](#)

⊖ 1 ⊕ C\$1,750.⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-5	C\$1,750.00 each
Qty 6-10	C\$1,575.00 each
Need More?	Request Quote

Product Downloads

General

Aspheric Lens **Type:**

Strehl Ratio is >0.8 by design and tested **Note:**

Physical & Mechanical Properties

50.80 +0.00/-0.05 **Diameter (mm):**

<1	Centering (arcmin):
46.80	Clear Aperture CA (mm):
2.69	Edge Thickness ET (mm):
10.00	Center Thickness CT (mm):
Protective as needed	Bevel:
Plano	Shape of Back Surface:

Optical Properties

101.60 @ 1064nm	Effective Focal Length EFL (mm):
0.25	Numerical Aperture NA:
94.70	Back Focal Length BFL (mm):
Fused Silica (Corning 7980)	Substrate: <input type="checkbox"/>
1064	Aspheric Design Wavelength (nm):
$\lambda/40$	Asphere Figure Error, RMS @ 632.8nm:
Laser V-Coat (1064nm)	Coating:
$R_{\text{rms}} < 0.25\%$ @ 1064nm	Coating Specification:
10-5	Surface Quality:
2	f#:
See Technical Information Tab	Spot Size (μm):
Infinite	Conjugate Distance:
15 J/cm ² @ 1064nm, 20ns, 20Hz	Damage Threshold, By Design: <input type="checkbox"/>
9.84	Power (diopters):

Material Properties

>0.8, tested	Strehl Ratio:
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Regulatory Compliance

View	Certificate of Conformance:
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Custom

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

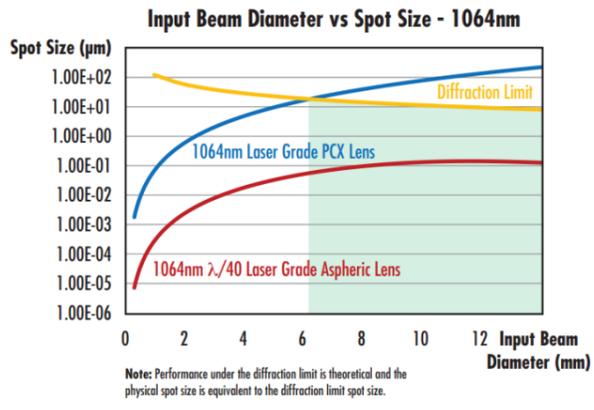
Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

Product Details

- Substrate Shape and Coating Optimized for Nd:YAG Laser Wavelengths
- High Precision Aspheric Surface
- Strehl Ratio > 0.8

TECHSPEC® High Precision Laser Grade Aspheric Lenses are polished through precision magnetorheological finishing (MRF), providing them with an ultra-smooth aspheric surface with an aspheric surface tolerance of $\lambda/40$ RMS. The aberration free aspheric surfaces produced through this super-polishing process result in these aspheric lenses having diffraction-limited performance at their design wavelengths. A high-performance Laser Line V-Coat minimizes reflection when these aspheric lenses are used at their Nd:YAG wavelengths. TECHSPEC High Precision Laser Grade Aspheric Lenses feature substrates designed and shaped at their laser wavelength to optimize the entire lens design, not just the anti-reflection coating, for the laser wavelength. Standard imperial sizes of these laser grade aspheres with $f/2$ designs, made from fused silica, are available.

Technical Information



Compatible Mounts