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**TECHSPEC® 50mm Dia. x 100mm FL 1064nm V-Coat, Fused Silica PCX Lens**



Stock #34-148 **4 In Stock**

[Other Coating Options](#)

⊖ 1 ⊕ **\$476.00**

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Volume Pricing	
Qty 1-5	<b>\$476.00</b> each
Qty 6-25	<b>\$380.80</b> each
Qty 26-49	<b>\$357.00</b> each
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Product Downloads

**General**

Plano-Convex Lens **Type:**

**Physical & Mechanical Properties**

50.00 +0.0/-0.025 **Diameter (mm):**

≤1	<b>Centering (arcmin):</b>
9.00 ±0.10	<b>Center Thickness CT (mm):</b>
1.58	<b>Edge Thickness ET (mm):</b>
49	<b>Clear Aperture CA (mm):</b>
Protective as needed	<b>Bevel:</b>
Fine Ground, Protective Bevel as Needed	<b>Edges:</b>

## Optical Properties

100.00 @587.6nm	<b>Effective Focal Length EFL (mm):</b>
93.84	<b>Back Focal Length BFL (mm):</b>
Laser V-Coat (1064nm)	<b>Coating:</b>
R <sub>abs</sub> <0.25% @ 1064nm	<b>Coating Specification:</b>
<b>Fused Silica</b> (Coming 7980)	<b>Substrate:</b> <input type="checkbox"/>
40-20	<b>Surface Quality:</b>
1.5λ	<b>Power (P-V) @ 632.8nm:</b>
λ/4	<b>Irregularity (P-V) @ 632.8nm:</b>
±1	<b>Focal Length Tolerance (%):</b>
45.85	<b>Radius R<sub>1</sub> (mm):</b>
2.00	<b>f##:</b>
0.25	<b>Numerical Aperture NA:</b>
1064	<b>Design Wavelength DWL (nm):</b>
5 J/cm <sup>2</sup> @ 1064nm, 10ns	<b>Damage Threshold, By Design:</b> <input type="checkbox"/>

## Regulatory Compliance

<b>Compliant</b>	<b>RoHS 2015:</b>
<b>View</b>	<b>Certificate of Conformance:</b>
<b>Compliant</b>	<b>Reach 235:</b>

## Need different specs or modifications?

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

- <0.25% Reflection at 1064nm for Fiber and Nd:YAG Applications
- 5 - 50mm Diameters Available
- 10 - 250mm EFL Designs Available
- **405nm, 532nm, 633nm,** and **1550nm** V-Coated Options Offered

TECHSPEC® Laser Line Coated Fused Silica PCXLenses are available in a variety of laser line V-Coat AR coating options. Designed for maximum throughput at the specified laser wavelength, these lenses are ideal for applications utilizing low power HeNe, Diode, and Nd:YAG laser sources. With a maximum reflection of <0.25% per surface at the design wavelength, the lenses will provide superior transmission in applications utilizing multiple optical components.

## Compatible Mounts

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