

TECHSPEC® 50.8mm Dia. x 100mm FL, 1064nm Coated, Laser Grade PCX Lens



TECHSPEC Laser Grade PCXLenses

Stock **#70-043** **5 In Stock**

☐ [Other Coating Options](#)

-

1

+

A\$700⁸⁰

ADD TO CART

Volume Pricing	
Qty 1-5	A\$700.80 each
Qty 6-25	A\$560.00 each
Qty 26-49	A\$513.60 each
Need More?	Request Quote

Product Downloads

General

Type:

Plano-Convex Lens

Physical & Mechanical Properties

Diameter (mm):

50.80 +0.00/-0.025

Centering (arcmin):

<1	
12.00	Center Thickness CT (mm):
4.32	Edge Thickness ET (mm):
45.72	Clear Aperture CA (mm):
Protective as needed	Bevel:
Optical Properties	
100.00 @ 355nm	Effective Focal Length EFL (mm):
91.773	Back Focal Length BFL (mm):
Laser V-Coat (1064nm)	Coating:
R _{abs} <0.25% @ 1064nm	Coating Specification:
Fused Silica (Corning 7980)	Substrate: ☐
10-5	Surface Quality:
λ	Power (P-V) @ 632.8nm:
λ/10 ±1	Irregularity (P-V) @ 632.8nm:
45.85	Radius R ₁ (mm):
1.97	f/#:
0.25	Numerical Aperture NA:
1064	Design Wavelength DWL (nm):
15 J/cm ² @ 1064nm, 20ns, 20Hz	Damage Threshold, By Design: ☐
Regulatory Compliance	
View	Certificate of Conformance:

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:

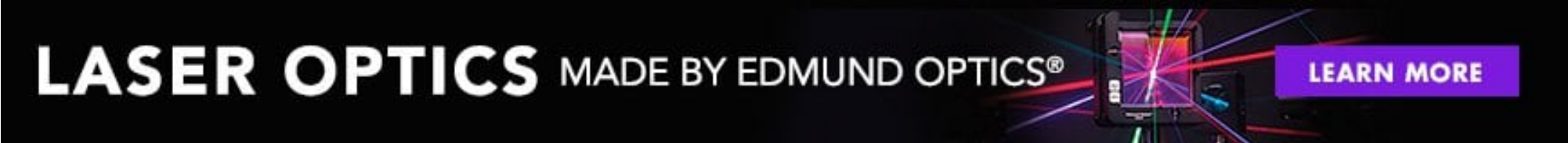
- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

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

Product Details

- Guaranteed Laser Damage Threshold
- 10-5 Surface Quality
- λ/10 Surface Accuracy

TECHSPEC® Laser Grade PCXLenses are designed for high energy Nd:YAG laser applications including laser cutting, machining, and welding. The precision fused silica substrate, featuring λ/10 surface accuracy and 10-5 surface quality, ensures low scatter and excellent transmitted wavefront performance. TECHSPEC® Laser Grade PCXLenses are available uncoated or with a variety of high laser damage threshold anti-reflection (AR) coating options. Coatings are available at the most common Nd:YAG laser wavelengths to ensure maximum laser throughput.



Technical Information

