

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



TECHSPEC Laser Grade PCX Lenses

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

[Other Coating Options](#)

⊖ 1 ⊕ **C\$613²⁰**

ADD TO CART

Volume Pricing	
Qty 1-5	C\$613.20 each
Qty 6-25	C\$490.00 each
Qty 26-49	C\$449.40 each
Need More?	Request Quote

Product Downloads

General

Plano-Convex Lens **Type:**

Physical & Mechanical Properties

50.80 +0.00/-0.025 **Diameter (mm):**

Centering (arcmin):

<1

Center Thickness CT (mm):

12.00

Edge Thickness ET (mm):

4.32

Clear Aperture CA (mm):

45.72

Bevel:

Protective as needed

Optical Properties

Effective Focal Length EFL (mm):

100.00 @ 355nm

Back Focal Length BFL (mm):

91.773

Coating:

Laser V-Coat (1064nm)

Coating Specification:

$R_{\text{abs}} < 0.25\%$ @ 1064nm

Substrate:

Fused Silica (Corning 7980)

Surface Quality:

10-5

Power (P-V) @ 632.8nm:

λ

Irregularity (P-V) @ 632.8nm:

$\lambda/10 \pm 1$

Radius R_1 (mm):

45.85

f#:

1.97

Numerical Aperture NA:

0.25

Design Wavelength DWL (nm):

1064

Damage Threshold, By Design:

15 J/cm² @ 1064nm, 20ns, 20Hz

Regulatory Compliance

Certificate of Conformance:

[View](#)

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
- $\lambda/10$ Surface Accuracy

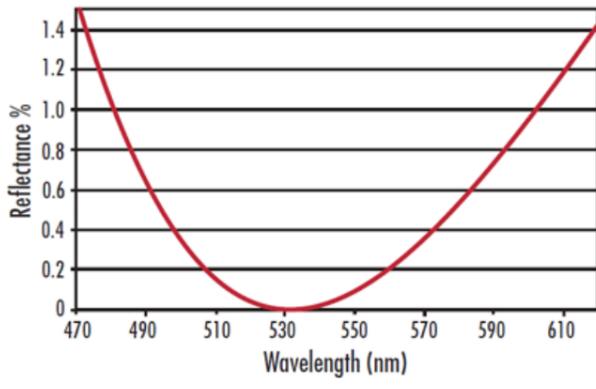
TECHSPEC® Laser Grade PCX Lenses are designed for high energy Nd:YAG laser applications including laser cutting, machining, and welding. The precision fused silica substrate, featuring $\lambda/10$ surface accuracy and 10-5 surface quality, ensures low scatter and excellent transmitted wavefront performance. TECHSPEC® Laser Grade PCX Lenses 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.

LASER OPTICS MADE BY EDMUND OPTICS®

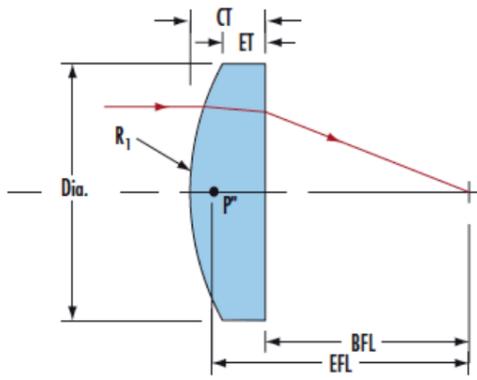
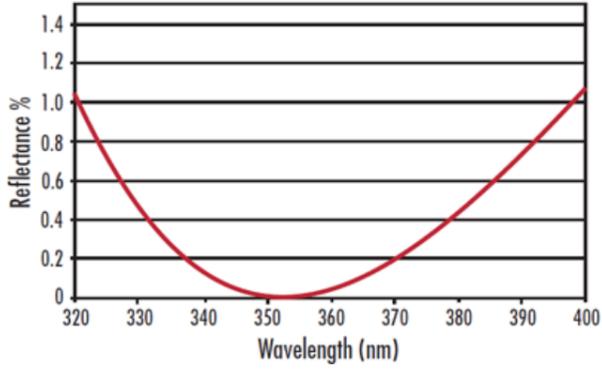
[LEARN MORE](#)

Technical Information

532nm V-Coat
 $R_{(obs)} < 0.25\% @ 532nm$



355nm V-Coat
 $R_{(obs)} < 0.25\% @ 355nm$



1064nm V-Coat
 $R_{(obs)} < 0.25\% @ 1064nm$

