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**TECHSPEC® 50.8mm Dia. x 100mm FL, 532nm Coated, Laser Grade PCX Lens**



TECHSPEC Laser Grade PCX Lenses

Stock **#70-033** **2 In Stock**

[Other Coating Options](#)

⊖ 1 ⊕ **\$613.20**

**ADD TO CART**

Volume Pricing	
Qty 1-5	<b>\$613.20</b> each
Qty 6-25	<b>\$490.00</b> each
Qty 26-49	<b>\$449.40</b> each
Need More?	<a href="#">Request Quote</a>

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 (532nm)

Coating Specification:

$R_{\text{abs}} < 0.25\%$  @ 532nm

Substrate:

Fused Silica (Corning 7980)

Surface Quality:

10-5

Power (P-V) @ 632.8nm:

$\lambda$

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):

532

Damage Threshold, By Design:

10 J/cm<sup>2</sup> @ 532nm, 20ns, 20Hz

## Regulatory Compliance

Certificate of Conformance:

[View](#)

## Product Details

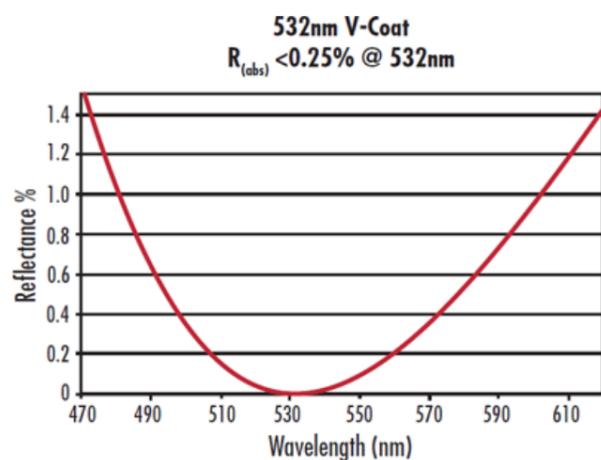
- Guaranteed Laser Damage Threshold
- 10-5 Surface Quality
- $\lambda/10$  Surface Accuracy

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  $\lambda/10$  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.

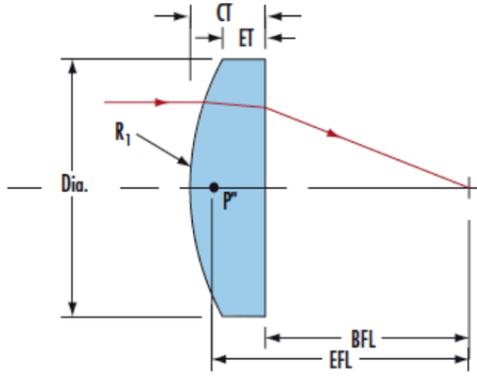
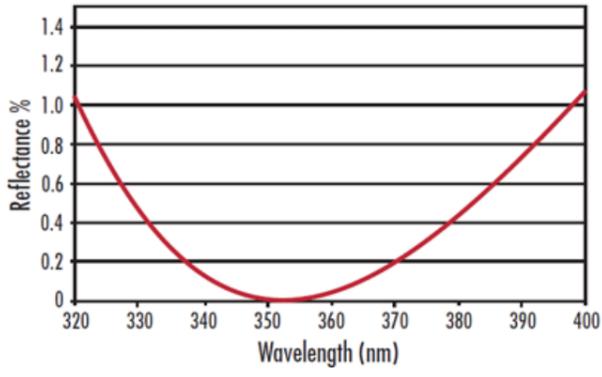
# LASER OPTICS MADE BY EDMUND OPTICS®

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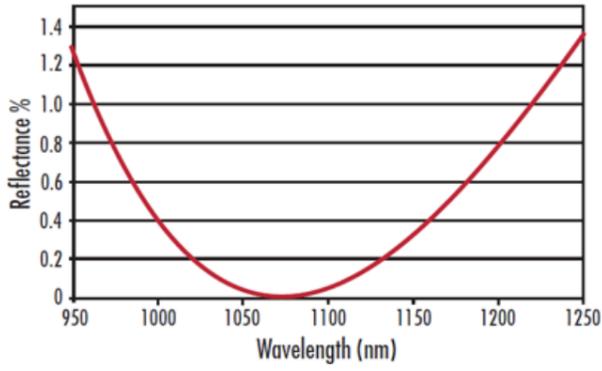
## Technical Information



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



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



## 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](#).