

TECHSPEC<sup>®</sup> 50.8mm Dia. x 200mm FL, 1064nm Coated, Laser Grade PCX Lens



TECHSPEC Laser Grade PCXLenses

Stock **#70-045** NEW **4 In Stock**

☐ [Other Coating Options](#)

-

1

+

C\$598<sup>75</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | C\$598.75 each                |
| Qty 6-25       | C\$477.79 each                |
| Qty 26-49      | C\$438.48 each                |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

SPECIFICATIONS

General

Plano-Convex Lens

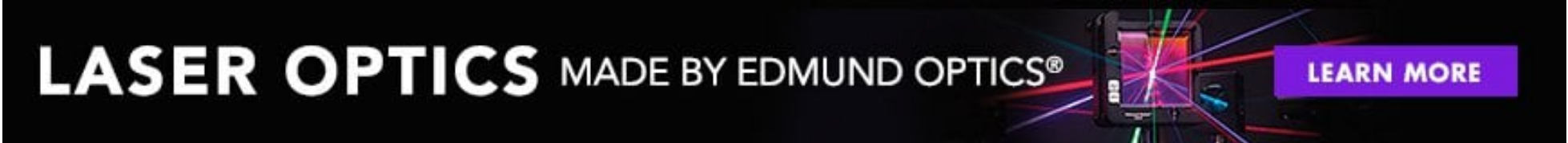
Type:

| Physical & Mechanical Properties            |                                                       |
|---------------------------------------------|-------------------------------------------------------|
| 50.80 +0.00/-0.025                          | Diameter (mm):                                        |
| <1                                          | Centering (arcmin):                                   |
| 8.00                                        | Center Thickness CT (mm):                             |
| 4.41                                        | Edge Thickness ET (mm):                               |
| 45.72                                       | Clear Aperture CA (mm):                               |
| Protective as needed                        | Bevel:                                                |
| Optical Properties                          |                                                       |
| 200.00 @ 355nm                              | Effective Focal Length EFL (mm):                      |
| 194.515                                     | Back Focal Length BFL (mm):                           |
| Laser V-Coat (1064nm)                       | Coating:                                              |
| R <sub>abs</sub> <0.25% @ 1064nm            | Coating Specification:                                |
| <a href="#">Fused Silica</a> (Corning 7980) | Substrate: <input type="checkbox"/>                   |
| 10-5                                        | Surface Quality:                                      |
| λ                                           | Power (P-V) @ 632.8nm:                                |
| λ/10 ±1                                     | Irregularity (P-V) @ 632.8nm:                         |
| 91.69                                       | Radius R <sub>1</sub> (mm):                           |
| 3.94                                        | f/#:                                                  |
| 0.13                                        | Numerical Aperture NA:                                |
| 1064                                        | Design Wavelength DWL (nm):                           |
| 15 J/cm² @ 1064nm, 20ns, 20Hz               | Damage Threshold, By Design: <input type="checkbox"/> |
| Regulatory Compliance                       |                                                       |
| <a href="#">View</a>                        | Certificate of Conformance:                           |

## PRODUCT DETAILS

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



## TECHNICAL INFORMATION



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](#).

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