

TECHSPEC® 50.8mm Dia. x 200mm FL, 266nm Coated, Laser Grade PCX Lens



TECHSPEC Laser Grade PCXLenses

Stock **#70-015 3 In Stock**

[Other Coating Options](#)

⊖ 1 ⊕ **A\$697⁰⁰**

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Volume Pricing	
Qty 1+	A\$697.60 each
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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 (266nm) **Coating:**

$R_{\text{abs}} < 0.25\%$ @ 266nm **Coating Specification:**

Fused Silica (Corning 7980) **Substrate:**

10-5 **Surface Quality:**

λ **Power (P-V) @ 632.8nm:**

$M10 \pm 1$ **Irregularity (P-V) @ 632.8nm:**

91.69 **Radius R_1 (mm):**

3.94 **f#:**

0.13 **Numerical Aperture NA:**

266 **Design Wavelength DWL (nm):**

3 J/cm^2 @ 266nm, 20ns, 20Hz **Damage Threshold, By Design:**

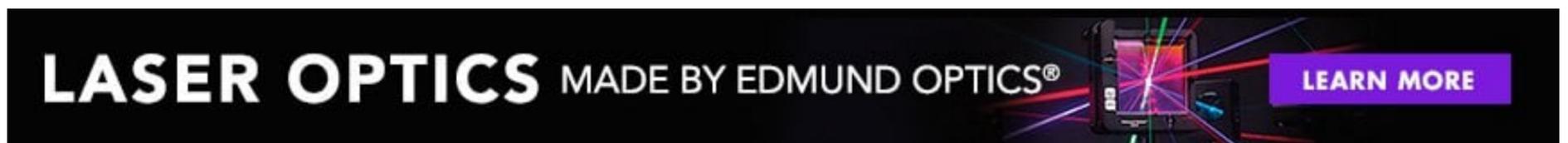
Regulatory Compliance

[View](#) **Certificate of Conformance:**

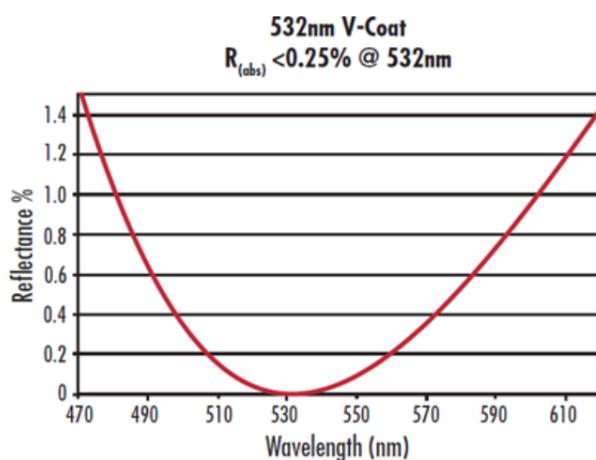
Product Details

- Guaranteed Laser Damage Threshold
- 10-5 Surface Quality
- $M10$ Surface Accuracy

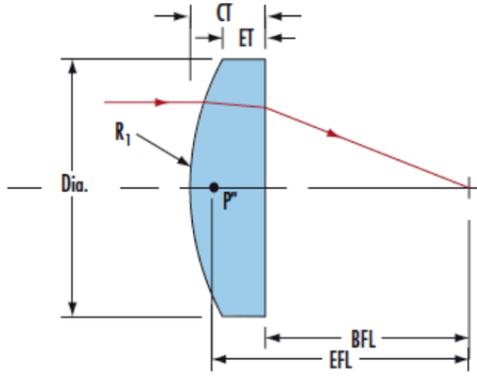
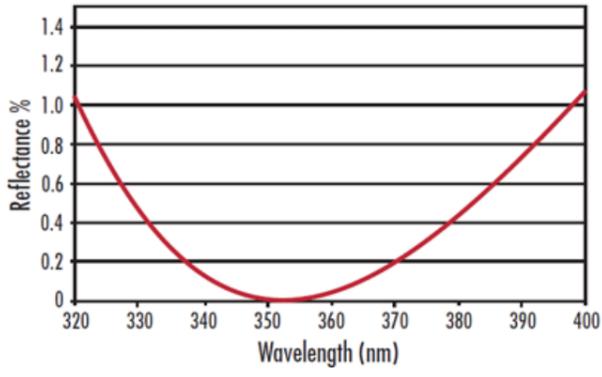
TECHSPEC® Laser Grade PCX Lenses are designed for high energy Nd:YAG laser applications including laser cutting, machining, and welding. The precision fused silica substrate, featuring $M10$ surface accuracy and 10-5 surface quality, ensures low scatter and excellent transmitted wavefront performance. 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.



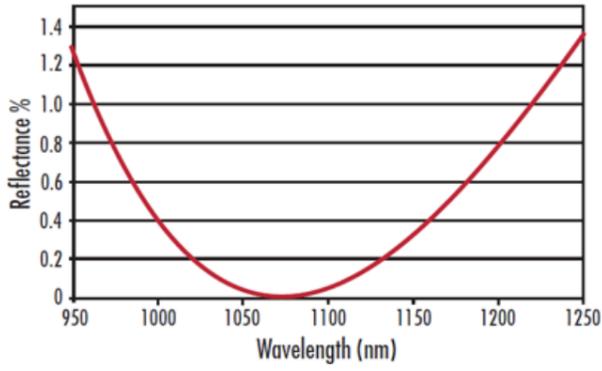
Technical Information



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](#).