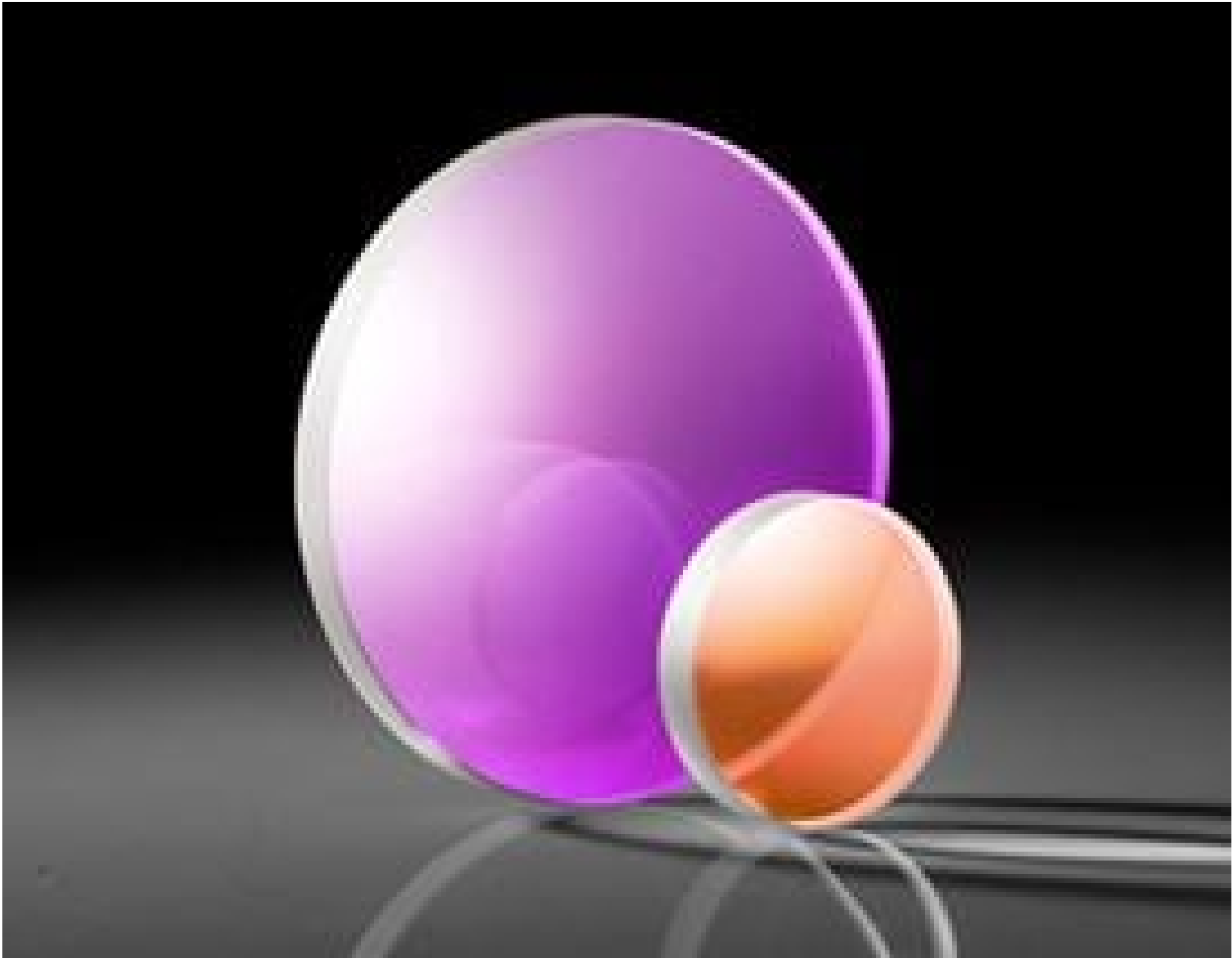


TECHSPEC<sup>®</sup> 50.8mm Dia. x 100mm FL, 355nm Coated, Laser Grade PCX Lens



TECHSPEC Laser Grade PCXLenses

Stock **#70-023** **5 In Stock**

☐ [Other Coating Options](#)

-

1

+

A\$700<sup>00</sup>

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?     | <a href="#">Request Quote</a> |

Product Downloads

SPECIFICATIONS

General

Plano-Convex Lens

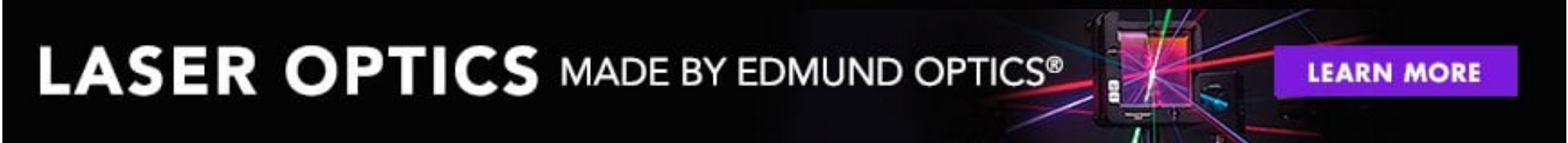
Type:

| Physical & Mechanical Properties          |                                                       |
|-------------------------------------------|-------------------------------------------------------|
| 50.80 +0.00/-0.025                        | Diameter (mm):                                        |
| <1                                        | Centering (arcmin):                                   |
| 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 (355nm)                      | Coating:                                              |
| R <sub>abs</sub> <0.25% @ 355nm           | Coating Specification:                                |
| Fused Silica (Corning 7980)               | Substrate: <input type="checkbox"/>                   |
| 10-5                                      | Surface Quality:                                      |
| λ                                         | Power (P-V) @ 632.8nm:                                |
| λ/10 ±1                                   | Irregularity (P-V) @ 632.8nm:                         |
| 45.85                                     | Radius R <sub>1</sub> (mm):                           |
| 1.97                                      | f/#:                                                  |
| 0.25                                      | Numerical Aperture NA:                                |
| 355                                       | Design Wavelength DWL (nm):                           |
| 7.5 J/cm <sup>2</sup> @ 355nm, 20ns, 20Hz | Damage Threshold, By Design: <input type="checkbox"/> |
| Regulatory Compliance                     |                                                       |
| View                                      | Certificate of Conformance:                           |

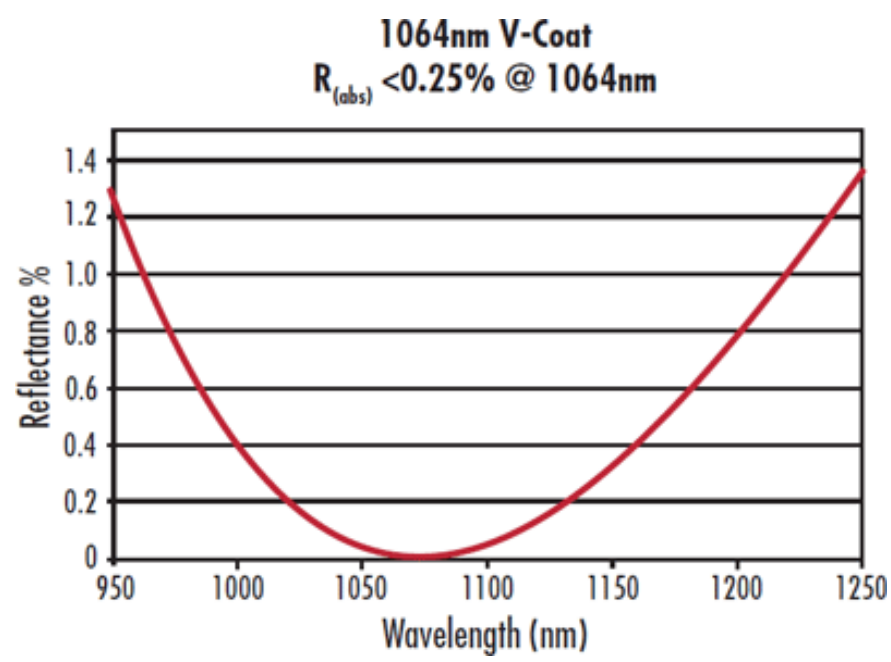
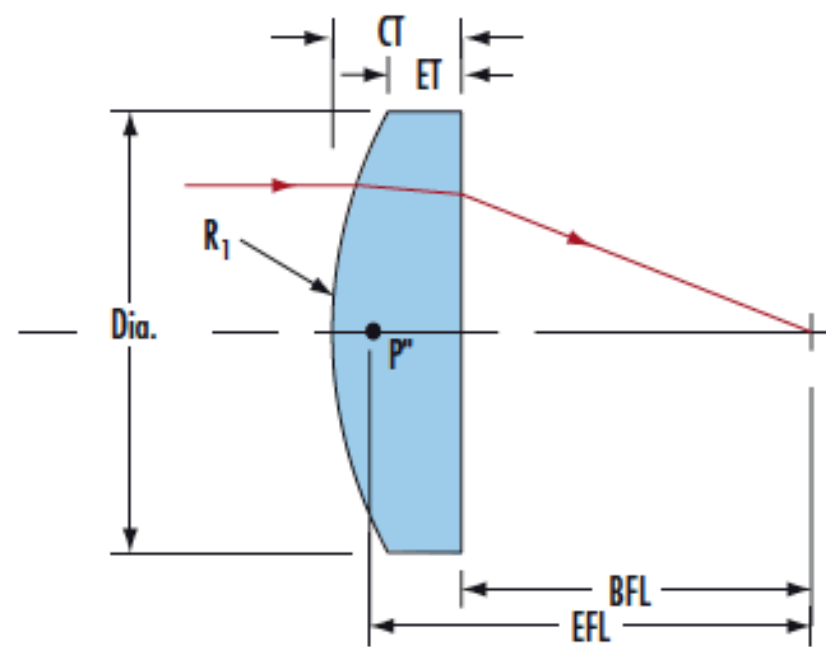
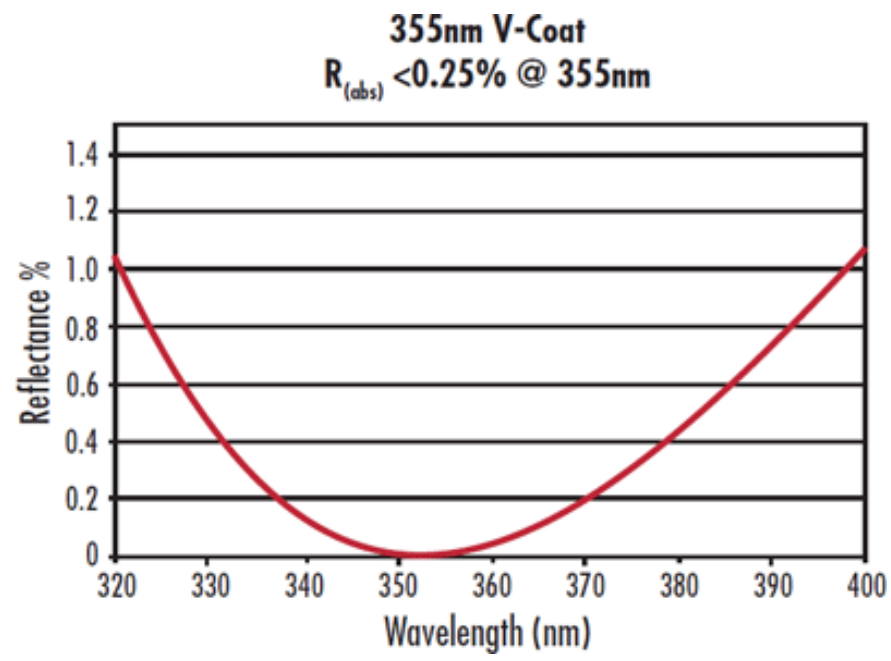
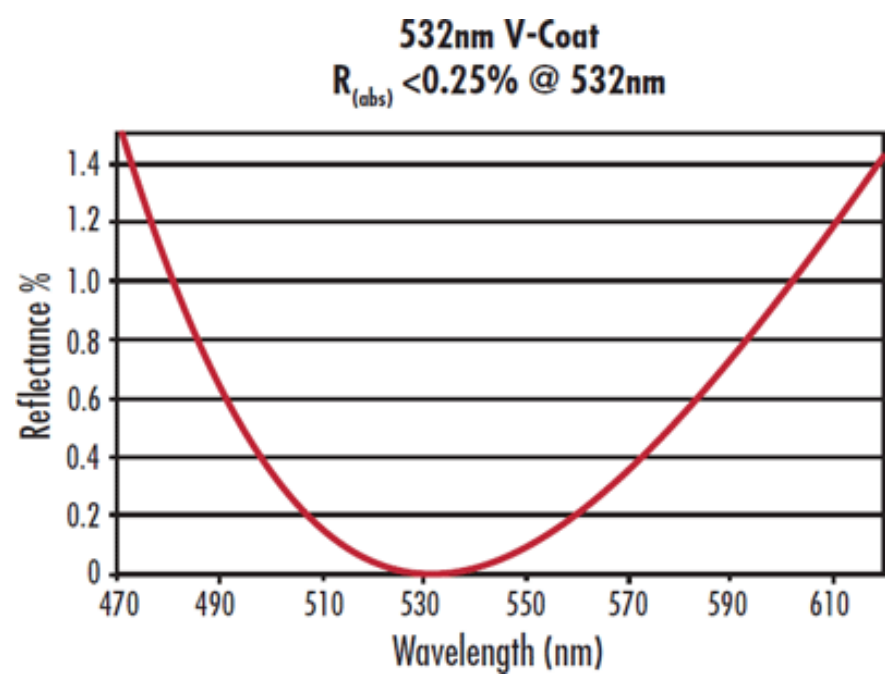
## PRODUCT DETAILS

- 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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