

**TECHSPEC® 12.7mm Dia. x 1000mm FL, 1064nm Coated, Laser Grade PCX Lens**



TECHSPEC Laser Grade PCX Lenses

Stock **#38-743** **5 In Stock**

[Other Coating Options](#)

⊖ 1 ⊕ €193<sup>00</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-5	€193,64 each
Qty 6-25	€154,50 each
Qty 26-49	€142,14 each
Need More?	<a href="#">Request Quote</a>

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

**SPECIFICATIONS**

**General**

Type:

## Physical & Mechanical Properties

12.70 +0.00/-0.025 **Diameter (mm):**

<1 **Centering (arcmin):**

4.00 ±0.10 **Center Thickness CT (mm):**

3.96 **Edge Thickness ET (mm):**

11.43 **Clear Aperture CA (mm):**

Protective as needed **Bevel:**

## Optical Properties

1,000.00 @ 355nm **Effective Focal Length EFL (mm):**

997.59 **Back Focal Length BFL (mm):**

Laser V-Coat (1064nm) **Coating:**

$R_{\text{abs}} < 0.25\%$  @ 1064nm **Coating Specification:**

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

10-5 **Surface Quality:**

$\lambda$  **Power (P-V) @ 632.8nm:**

$\lambda/10$  **Irregularity (P-V) @ 632.8nm:**

±1 **Focal Length Tolerance (%):**

476.09 **Radius  $R_1$  (mm):**

78.74 **f#:**

0.01 **Numerical Aperture NA:**

1064 **Design Wavelength DWL (nm):**

15 J/cm<sup>2</sup> @ 1064nm, 20ns, 20Hz **Damage Threshold, By Design:**

## Regulatory Compliance

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

## PRODUCT DETAILS

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

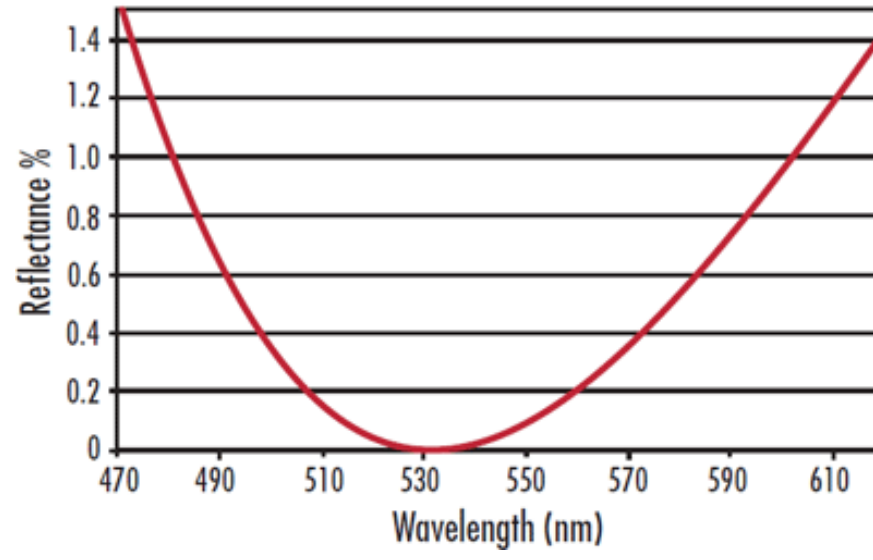
TECHSPEC® Laser Grade PCX Lenses are designed for high energy Nd:YAG laser applications including laser cutting, machining, and welding. The precision fused silica substrate, featuring  $\lambda/10$  surface accuracy and 10-5 surface quality, ensures low scatter and excellent transmitted wavefront performance.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

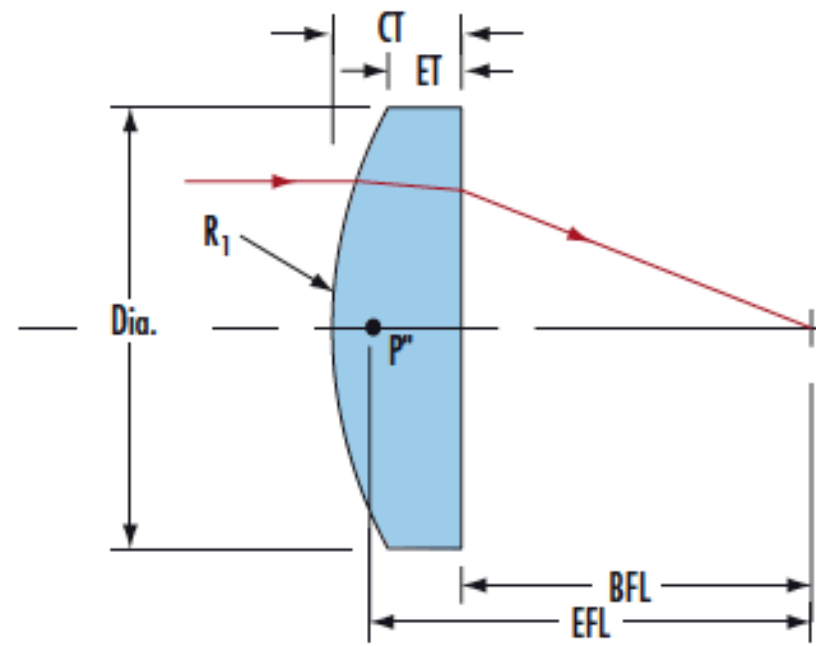
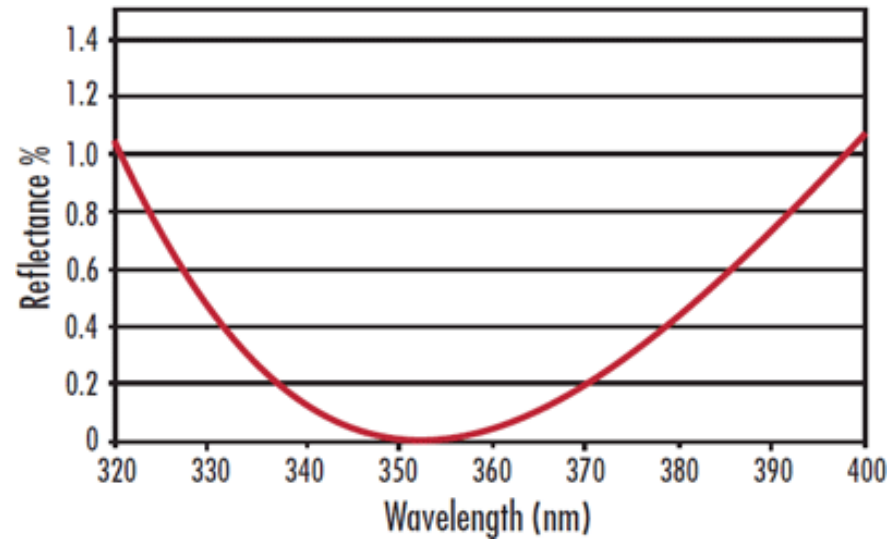
[LEARN MORE](#)

## TECHNICAL INFORMATION

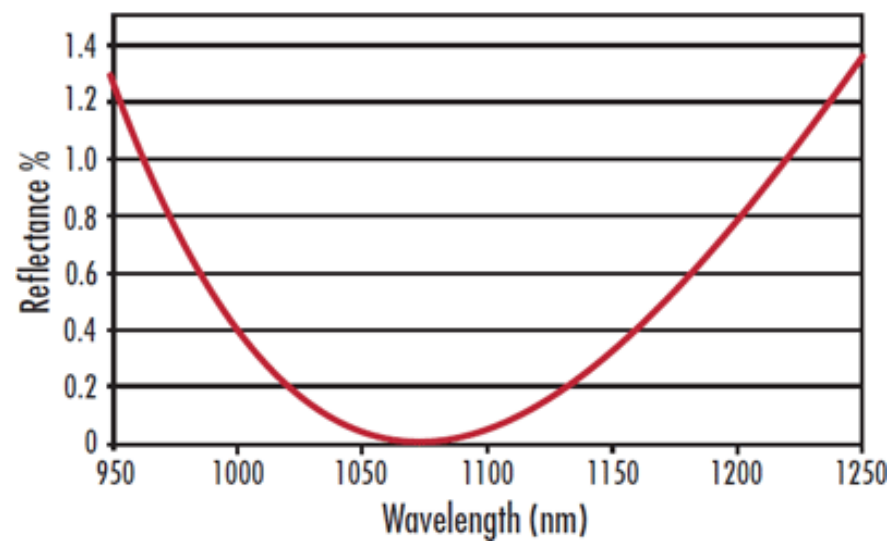
**532nm V-Coat**  
 $R_{(abs)} < 0.25\% @ 532nm$



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



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



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](#).

## COMPATIBLE MOUNTS

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