

**TECHSPEC® 12.0mm Diameter x 48.0mm FL, 405nm V-Coat, PCX Lens**



633nm Laser Line Coated Plano-Convex(PCX) Lenses



Stock #65-462 **14 In Stock**

[Other Coating Options](#)

⊖ 1 ⊕ C\$73<sup>33</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-9	C\$73.33 each
Qty 10-25	C\$66.15 each
Qty 26-49	C\$58.59 each
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Product Downloads

**SPECIFICATIONS**

**General**

Plano-Convex Lens

Type:

## Physical & Mechanical Properties

12.00 +0.0/-0.025 **Diameter (mm):**

<1 **Centering (arcmin):**

2.50 ±0.05 **Center Thickness CT (mm):**

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

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

Protective as needed **Bevel:**

## Optical Properties

48.00 @ 587.6nm **Effective Focal Length EFL (mm):**

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

Laser V-Coat (405nm) **Coating:**

$R_{\text{abs}} < 0.25\%$  @ 405nm **Coating Specification:**

[N-BK7](#) **Substrate:**

40-20 **Surface Quality:**

1.5λ **Power (P-V) @ 632.8nm:**

M4 **Irregularity (P-V) @ 632.8nm:**

±1 **Focal Length Tolerance (%):**

24.82 **Radius R<sub>1</sub> (mm):**

4.00 **f#:**

0.13 **Numerical Aperture NA:**

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

3 J/cm<sup>2</sup> @ 405nm, 10ns **Damage Threshold, By Design:**

## Regulatory Compliance

[Compliant](#) **RoHS 2015:**

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

[Compliant](#) **Reach 235:**

## PRODUCT DETAILS

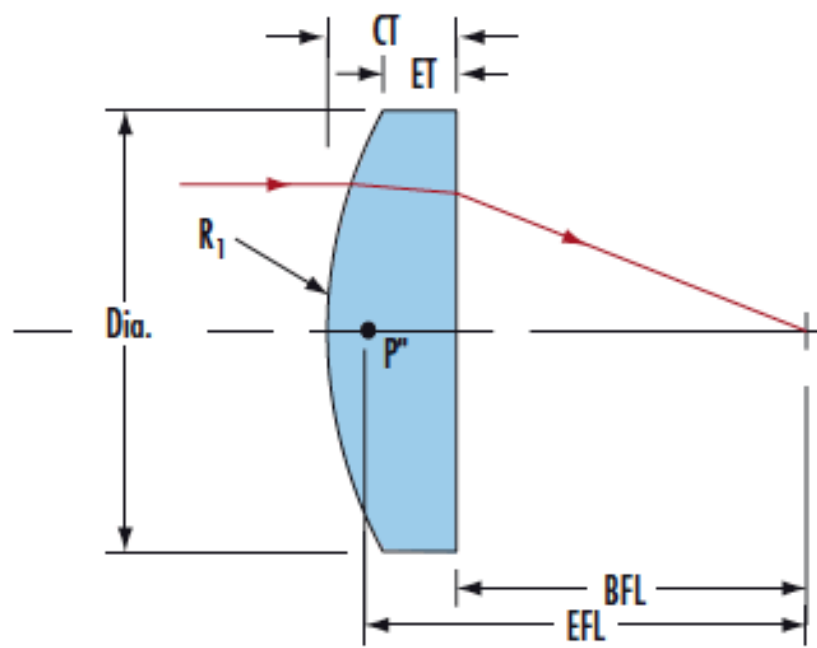
- <0.25% Reflection at 405nm for Diode Applications
- BBAR Coating Options Also Available: [uncoated](#), [MgF<sub>2</sub>](#), [VIS 0°](#), [VIS-NIR](#), [NIR I](#), [NIR II](#)
- 405nm, [532nm](#), [633nm](#), [785nm](#), [980nm](#), [1064nm](#), and [1550nm](#) V-Coated Options Offered

TECHSPEC® 405nm Laser Line Coated Plano-Convex (PCX) Lenses are designed for maximum throughput at the specified laser wavelength. These lenses are ideal for collecting and focusing light from laser sources and their corresponding harmonics. With a maximum reflection of <0.25% per surface at the design wavelength, the lenses will provide superior transmission in applications utilizing multiple optical components. TECHSPEC® 405nm Laser Line Coated Plano-Convex (PCX) Lenses are available Laser V-Coated in a range of other wavelengths: [532nm](#), [633nm](#), [785nm](#), [980nm](#), [1064nm](#), and [1550nm](#). Other coating options are available, including [uncoated](#), [MgF<sub>2</sub>](#), [VIS 0°](#), [VIS-NIR](#), [NIR I](#), and [NIR II](#).

**LASER OPTICS** MADE BY EDMUND OPTICS®

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## 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](#).

## COMPATIBLE MOUNTS