

TECHSPEC<sup>®</sup> 50.0mm Diameter x 125.0mm FL, 633nm V-Coat, PCX Lens



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



Stock **#69-459** [CONTACT US](#)

[Other Coating Options](#)

-

1

+

C\$104<sup>33</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-9        | C\$104.33 each                |
| Qty 10-25      | C\$93.74 each                 |
| Qty 26-49      | C\$83.92 each                 |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

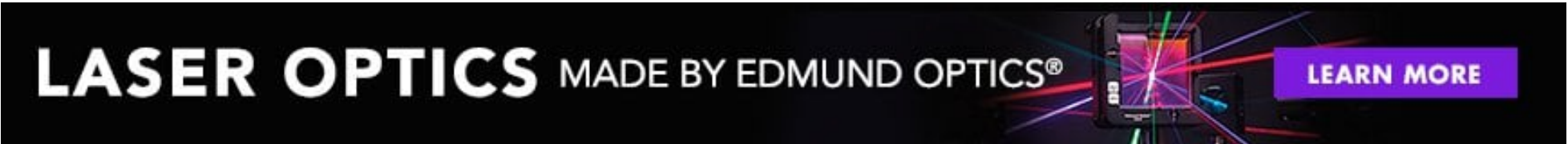
SPECIFICATIONS

General

|                                   |                                                       |
|-----------------------------------|-------------------------------------------------------|
| Plano-Convex Lens                 | Type:                                                 |
| Physical & Mechanical Properties  |                                                       |
| 50.00 +0.0/-0.025                 | Diameter (mm):                                        |
| <1                                | Centering (arcmin):                                   |
| 10.00 ±0.10                       | Center Thickness CT (mm):                             |
| 4.97                              | Edge Thickness ET (mm):                               |
| 49                                | Clear Aperture CA (mm):                               |
| Protective as needed              | Bevel:                                                |
| Optical Properties                |                                                       |
| 125.00 @ 587.6nm                  | Effective Focal Length EFL (mm):                      |
| 118.39                            | Back Focal Length BFL (mm):                           |
| Laser V-Coat (633nm)              | Coating:                                              |
| R <sub>abs</sub> <0.25% @ 633nm   | Coating Specification:                                |
| N-BK7                             | Substrate: <input type="checkbox"/>                   |
| 40-20                             | Surface Quality:                                      |
| 1.5λ                              | Power (P-V) @ 632.8nm:                                |
| λ/4                               | Irregularity (P-V) @ 632.8nm:                         |
| ±1                                | Focal Length Tolerance (%):                           |
| 64.60                             | Radius R <sub>1</sub> (mm):                           |
| 2.5                               | f/#:                                                  |
| 0.20                              | Numerical Aperture NA:                                |
| 633                               | Design Wavelength DWL (nm):                           |
| 5 J/cm <sup>2</sup> @ 633nm, 10ns | Damage Threshold, By Design: <input type="checkbox"/> |
| Regulatory Compliance             |                                                       |
| Compliant                         | RoHS 2015:                                            |
| View                              | Certificate of Conformance:                           |
| Compliant                         | Reach 235:                                            |

## PRODUCT DETAILS

- <0.25% Reflection at 633nm for HeNe 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® 633nm 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® 633nm Laser Line Coated Plano-Convex (PCX) Lenses are available Laser V-Coated in a range of other wavelengths: [405nm](#), [532nm](#), [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](#).



## 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