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TECHSPEC<sup>®</sup> 9.0mm Diameter x 90.0mm FL, 1550nm V-Coat, PCX Lens



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



Stock **#84-229 8 In Stock**

☐ [Other Coating Options](#)

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1

+

S\$70<sup>70</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-9        | <b>S\$70.70</b> each          |
| Qty 10-25      | <b>S\$63.70</b> each          |
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General

Plano-Convex Lens

Type:

Physical & Mechanical Properties

Diameter (mm):

|                      |                           |
|----------------------|---------------------------|
| 9.00 +0.0/-0.025     |                           |
|                      | Centering (arcmin):       |
| <1                   |                           |
|                      | Center Thickness CT (mm): |
| 2.00 ±0.05           |                           |
|                      | Edge Thickness ET (mm):   |
| 1.78                 |                           |
|                      | Clear Aperture CA (mm):   |
| 8.1                  |                           |
|                      | Bevel:                    |
| Protective as needed |                           |

| Optical Properties                 |                                                       |
|------------------------------------|-------------------------------------------------------|
|                                    | Effective Focal Length EFL (mm):                      |
| 90.00 @ 587.6nm                    |                                                       |
|                                    | Back Focal Length BFL (mm):                           |
| 88.68                              |                                                       |
|                                    | Coating:                                              |
| Laser V-Coat (1550nm)              |                                                       |
|                                    | Coating Specification:                                |
| R <sub>abs</sub> <0.25% @ 1550nm   |                                                       |
|                                    | Substrate: <input type="checkbox"/>                   |
| N-BK7                              |                                                       |
|                                    | Surface Quality:                                      |
| 40-20                              |                                                       |
|                                    | Power (P-V) @ 632.8nm:                                |
| 1.5λ                               |                                                       |
|                                    | Irregularity (P-V) @ 632.8nm:                         |
| λ/4                                |                                                       |
|                                    | Focal Length Tolerance (%):                           |
| ±1                                 |                                                       |
|                                    | Radius R <sub>1</sub> (mm):                           |
| 46.51                              |                                                       |
|                                    | f##:                                                  |
| 10.00                              |                                                       |
|                                    | Numerical Aperture NA:                                |
| 0.05                               |                                                       |
|                                    | Design Wavelength DWL (nm):                           |
| 1550                               |                                                       |
|                                    | Damage Threshold, By Design: <input type="checkbox"/> |
| 5 J/cm <sup>2</sup> @ 1550nm, 10ns |                                                       |

| Regulatory Compliance |                             |
|-----------------------|-----------------------------|
|                       | RoHS 2015:                  |
| Compliant             |                             |
|                       | Certificate of Conformance: |
| View                  |                             |
|                       | Reach 235:                  |
| Compliant             |                             |

## Product Details

- <0.25% Reflection at Design Wavelength
  - Coatings Available for Diode, HeNe, and Nd:YAG Laser Sources
  - 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® 1550nm 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® 1550nm Laser Line Coated Plano-Convex (PCX) Lenses are available Laser V-Coated in a range of other wavelengths: [405nm](#), [532nm](#), [633nm](#), [785nm](#), [980nm](#), and [1064nm](#). 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

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