

TECHSPEC<sup>®</sup> 20.0mm Diameter x 40.0mm FL, 633nm V-Coat, PCX Lens



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



Stock **#89-007** 20+ In Stock

☐ [Other Coating Options](#)

-

1

+

A\$94<sup>40</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-9        | A\$94.40 each                 |
| Qty 10-25      | A\$85.60 each                 |
| Qty 26-49      | A\$75.60 each                 |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

General

Type:

Plano-Convex Lens

Physical & Mechanical Properties

Diameter (mm):

|                      |                           |
|----------------------|---------------------------|
| 20.00 +0.0/-0.025    |                           |
|                      | Centering (arcmin):       |
| <1                   |                           |
|                      | Center Thickness CT (mm): |
| 4.90 ±0.10           |                           |
|                      | Edge Thickness ET (mm):   |
| 2.32                 |                           |
|                      | Clear Aperture CA (mm):   |
| 19                   |                           |
|                      | Bevel:                    |
| Protective as needed |                           |

|                                   |                                                       |
|-----------------------------------|-------------------------------------------------------|
| Optical Properties                |                                                       |
|                                   | Effective Focal Length EFL (mm):                      |
| 40.00 @ 587.6nm                   |                                                       |
|                                   | Back Focal Length BFL (mm):                           |
| 36.77                             |                                                       |
|                                   | Coating:                                              |
| Laser V-Coat (633nm)              |                                                       |
|                                   | Coating Specification:                                |
| R <sub>abs</sub> <0.25% @ 633nm   |                                                       |
|                                   | 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):                           |
| 20.67                             |                                                       |
|                                   | f##:                                                  |
| 2.00                              |                                                       |
|                                   | Numerical Aperture NA:                                |
| 0.25                              |                                                       |
|                                   | Design Wavelength DWL (nm):                           |
| 633                               |                                                       |
|                                   | Damage Threshold, By Design: <input type="checkbox"/> |
| 5 J/cm <sup>2</sup> @ 633nm, 10ns |                                                       |

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

## 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](#).

LASER 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