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TECHSPEC<sup>®</sup> 20.0mm Diameter x 100.0mm FL, 785nm V-Coat, PCX Lens



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



Stock **#89-029 7 In Stock**

☐ [Other Coating Options](#)

-

1

+

C\$82<sup>00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-9        | C\$82.60 each                 |
| Qty 10-25      | C\$74.90 each                 |
| Qty 26-49      | C\$66.15 each                 |
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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): |
| 4.30 ±0.10           |                           |
|                      | Edge Thickness ET (mm):   |
| 3.32                 |                           |
|                      | Clear Aperture CA (mm):   |
| 19                   |                           |
|                      | Bevel:                    |
| Protective as needed |                           |

| Optical Properties                |                                                   |
|-----------------------------------|---------------------------------------------------|
|                                   | Effective Focal Length EFL (mm):                  |
| 100.00 @587.6nm                   |                                                   |
|                                   | Back Focal Length BFL (mm):                       |
| 97.13                             |                                                   |
|                                   | Coating:                                          |
| Laser V-Coat (785nm)              |                                                   |
|                                   | Coating Specification:                            |
| R <sub>abs</sub> <0.25% @ 785nm   |                                                   |
|                                   | Substrate: <input type="text"/>                   |
| 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):                       |
| 51.68                             |                                                   |
|                                   | f##:                                              |
| 5.00                              |                                                   |
|                                   | Numerical Aperture NA:                            |
| 0.10                              |                                                   |
|                                   | Design Wavelength DWL (nm):                       |
| 785                               |                                                   |
|                                   | Damage Threshold, By Design: <input type="text"/> |
| 5 J/cm <sup>2</sup> @ 785nm, 10ns |                                                   |

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

## 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](#).

## Product Details

- <0.25% Reflection at 785nm
- 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® 785nm 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® 785nm Laser Line Coated Plano-Convex (PCX) Lenses are available Laser V-Coated in a range of other wavelengths: [405nm](#), [532nm](#), [633nm](#), [980nm](#), [1064nm](#), and [1550nm](#). Other coating options are available, including [uncoated](#), [MgF<sub>2</sub>](#), [VIS 0°](#), [VIS-NIR](#), [NIR I](#), and [NIR II](#).

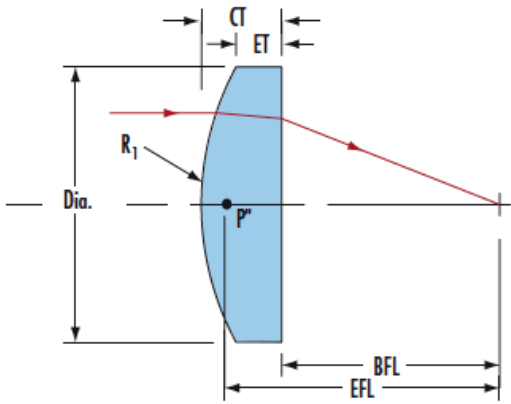
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Technical Information



Coating Curves

Compatible Mounts