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TECHSPEC® 5.0mm Diameter x 7.5mm FL, 785nm V-Coat, PCX Lens



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



Stock **#89-014** **2 In Stock**

[Other Coating Options](#)

⊖ 1 ⊕ **\$83³⁰**

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Volume Pricing	
Qty 1-9	\$83.30 each
Qty 10-25	\$75.60 each
Qty 26-49	\$66.50 each
Need More?	Request Quote

Product Downloads

General

Plano-Convex Lens **Type:**

Physical & Mechanical Properties

Diameter (mm):

5.00 +0.0/-0.025

<3
Centering (arcmin):

1.90 ±0.05
Center Thickness CT (mm):

1.34
Edge Thickness ET (mm):

4.5
Clear Aperture CA (mm):

Protective as needed
Bevel:

Optical Properties

7.50 @ 587.6nm
Effective Focal Length EFL (mm):

6.43
Back Focal Length BFL (mm):

Laser V-Coat (785nm)
Coating:

$R_{\text{abs}} < 0.25\%$ @ 785nm
Coating Specification:

N-SF11
Substrate:

40-20
Surface Quality:

1.5λ
Power (P-V) @ 632.8nm:

λ/4
Irregularity (P-V) @ 632.8nm:

±1
Focal Length Tolerance (%):

5.89
Radius R_1 (mm):

1.5
f##:

0.33
Numerical Aperture NA:

785
Design Wavelength DWL (nm):

5 J/cm² @ 785nm, 10ns
Damage Threshold, By Design:

Regulatory Compliance

Compliant
RoHS 2015:

View
Certificate of Conformance:

Compliant
Reach 235:

Need different specs or modifications?

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](#), [MgF₂](#), [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](#), [MgF₂](#), [VIS 0°](#), [VIS-NIR](#), [NIR I](#), and [NIR II](#).

LASER OPTICS MADE BY EDMUND OPTICS®

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Technical Information



Coating Curves

Compatible Mounts
