

TECHSPEC® 50.0mm Diameter x 125.0mm FL, 785nm V-Coat, PCX Lens



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



Stock **#69-509** **6 In Stock**

[Other Coating Options](#)

⊖ 1 ⊕ £60⁰⁰

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Volume Pricing	
Qty 1-9	£60.40 each
Qty 10-25	£54.40 each
Qty 26-49	£48.40 each
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ⓘ Prices shown are exclusive of VAT/local taxes

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 (785nm) **Coating:**

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

[N-BK7](#) **Substrate:**

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 R₁ (mm):**

2.5 **f#:**

0.20 **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:**

PRODUCT DETAILS

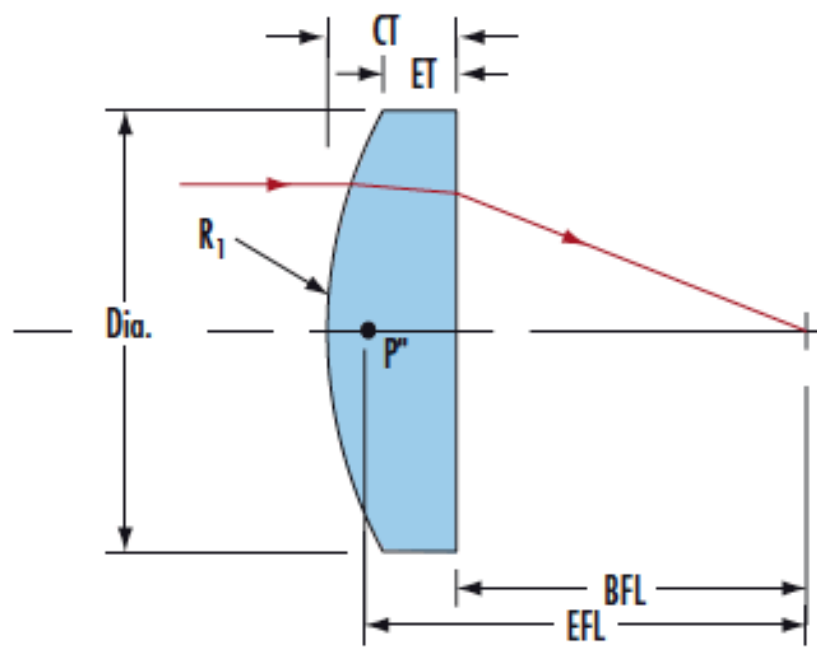
- <0.25% Reflection at 785nm
- BBAR Coating Options Also Available: [uncoated](#), [MgF₂](#), [VIS 0°](#), [VIS-NIR](#), [NIR I](#), [NIR II](#)
- [405nm](#), [532nm](#), [633nm](#), [785nm](#), [980nm](#), [1064nm](#), and [1550nm](#) V-Coated Options Offered

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



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