

**TECHSPEC® 12.0mm Diameter x 54.0mm FL, 633nm V-Coat, PCX Lens**



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



Stock **#69-441** **8 In Stock**

[Other Coating Options](#)

⊖ 1 ⊕ ₹3,776

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Volume Pricing	
Qty 1-9	₹3,776 each
Qty 10-25	₹3,406 each
Qty 26-49	₹3,017 each
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**SPECIFICATIONS**

**General**

Plano-Convex Lens

Type:

## Physical & Mechanical Properties

12.00 +0.0/-0.025 **Diameter (mm):**

<1 **Centering (arcmin):**

3.00 ±0.05 **Center Thickness CT (mm):**

2.35 **Edge Thickness ET (mm):**

11 **Clear Aperture CA (mm):**

Protective as needed **Bevel:**

## Optical Properties

54.00 @ 587.6nm **Effective Focal Length EFL (mm):**

52.02 **Back Focal Length BFL (mm):**

Laser V-Coat (633nm) **Coating:**

$R_{\text{abs}} < 0.25\%$  @ 633nm **Coating Specification:**

**N-BK7** **Substrate:**

40-20 **Surface Quality:**

1.5λ **Power (P-V) @ 632.8nm:**

M4 **Irregularity (P-V) @ 632.8nm:**

±1 **Focal Length Tolerance (%):**

27.91 **Radius R<sub>1</sub> (mm):**

4.5 **f#:**

0.11 **Numerical Aperture NA:**

633 **Design Wavelength DWL (nm):**

5 J/cm<sup>2</sup> @ 633nm, 10ns **Damage Threshold, By Design:**

## Regulatory Compliance

**Compliant** **RoHS 2015:**

**View** **Certificate of Conformance:**

**Compliant** **Reach 235:**

## PRODUCT DETAILS

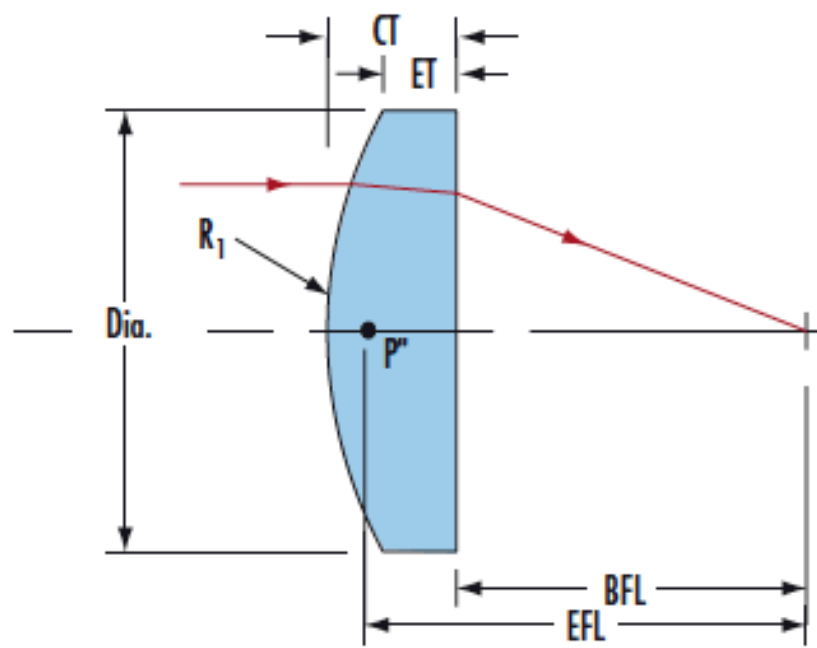
- <0.25% Reflection at 633nm for HeNe Applications
- BBAR Coating Options Also Available: [uncoated](#), [MgF<sub>2</sub>](#), [VIS 0°](#), [VIS-NIR](#), [NIR I](#), [NIR II](#)
- [405nm](#), [532nm](#), [633nm](#), [785nm](#), [980nm](#), [1064nm](#), and [1550nm](#) V-Coated Options Offered

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** 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