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**TECHSPEC® 12.0mm Diameter x 42.0mm FL, 1550nm V-Coat, PCX Lens**



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



Stock **#84-245** **5 In Stock**

[Other Coating Options](#)

⊖ 1 ⊕ **\$74<sup>.20</sup>**

**ADD TO CART**

Volume Pricing	
Qty 1-9	<b>\$74.20</b> each
Qty 10-25	<b>\$66.85</b> each
Qty 26-49	<b>\$59.15</b> each
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Product Downloads

**General**

Plano-Convex Lens **Type:**

**Physical & Mechanical Properties**

**Diameter (mm):**

12.00 +0.0/-0.025

Centering (arcmin):  
<1

Center Thickness CT (mm):  
2.70 ±0.05

Edge Thickness ET (mm):  
1.85

Clear Aperture CA (mm):  
11

Bevel:  
Protective as needed

## Optical Properties

Effective Focal Length EFL (mm):  
42.00 @ 587.6nm

Back Focal Length BFL (mm):  
40.22

Coating:  
Laser V-Coat (1550nm)

Coating Specification:  
R<sub>abs</sub> <0.25% @ 1550nm

Substrate:   
**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):  
21.71

f##:  
3.5

Numerical Aperture NA:  
0.14

Design Wavelength DWL (nm):  
1550

Damage Threshold, By Design:   
5 J/cm<sup>2</sup> @ 1550nm, 10ns

## Regulatory Compliance

RoHS 2015:  
**Compliant**

Certificate of Conformance:  
**View**

Reach 235:  
**Compliant**

## 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 Design Wavelength
- Coatings Available for Diode, HeNe, and Nd:YAG Laser Sources
- 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® 1550nm 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® 1550nm Laser Line Coated Plano-Convex (PCX) Lenses are available Laser V-Coated in a range of other wavelengths: [405nm](#), [532nm](#), [633nm](#), [785nm](#), [980nm](#), and [1064nm](#). Other coating options are available, including [uncoated](#), [MgF<sub>2</sub>](#), [VIS 0°](#), [VIS-NIR](#), [NIR I](#), and [NIR II](#).

## Technical Information



## Compatible Mounts