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TECHSPEC<sup>®</sup> 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

+

£42<sup>40</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-9        | £42.40 each                   |
| Qty 10-25      | £38.20 each                   |
| Qty 26-49      | £33.80 each                   |
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 Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Plano-Convex Lens

Type:

Physical & Mechanical Properties

|                      |                           |
|----------------------|---------------------------|
| 12.00 +0.0/-0.025    | Diameter (mm):            |
| <1                   | Centering (arcmin):       |
| 2.70 ±0.05           | Center Thickness CT (mm): |
| 1.85                 | Edge Thickness ET (mm):   |
| 11                   | Clear Aperture CA (mm):   |
| Protective as needed | Bevel:                    |

|                                  |                                                       |
|----------------------------------|-------------------------------------------------------|
| Optical Properties               |                                                       |
| 42.00 @ 587.6nm                  | Effective Focal Length EFL (mm):                      |
| 40.22                            | Back Focal Length BFL (mm):                           |
| Laser V-Coat (1550nm)            | Coating:                                              |
| R <sub>abs</sub> <0.25% @ 1550nm | Coating Specification:                                |
| N-BK7                            | Substrate: <input type="checkbox"/>                   |
| 40-20                            | Surface Quality:                                      |
| 1.5λ                             | Power (P-V) @ 632.8nm:                                |
| λ/4                              | Irregularity (P-V) @ 632.8nm:                         |
| ±1                               | Focal Length Tolerance (%):                           |
| 21.71                            | Radius R <sub>1</sub> (mm):                           |
| 3.5                              | f/#:                                                  |
| 0.14                             | Numerical Aperture NA:                                |
| 1550                             | Design Wavelength DWL (nm):                           |
| 5 J/cm² @ 1550nm, 10ns           | Damage Threshold, By Design: <input type="checkbox"/> |

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

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](#).

LASER 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