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TECHSPEC[®] 50.0mm Diameter x 175.0mm FL, 1550nm V-Coat, PCX Lens



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



Stock **#84-273 1 In Stock**

☐ [Other Coating Options](#)

-

1

+

S\$105⁷⁰

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Volume Pricing	
Qty 1-9	S\$105.70 each
Qty 10-25	S\$95.20 each
Qty 26-49	S\$84.70 each
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Product Downloads

General

Plano-Convex Lens

Type:

Physical & Mechanical Properties

Diameter (mm):

50.00 +0.0/-0.025	
<1	Centering (arcmin):
9.00 ±0.10	Center Thickness CT (mm):
5.48	Edge Thickness ET (mm):
49	Clear Aperture CA (mm):
Protective as needed	Bevel:

Optical Properties	
175.00 @587.6nm	Effective Focal Length EFL (mm):
169.05	Back Focal Length BFL (mm):
Laser V-Coat (1550nm)	Coating:
R _{abs} <0.25% @ 1550nm	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 (%):
90.44	Radius R ₁ (mm):
3.5	f##:
0.14	Numerical Aperture NA:
1550	Design Wavelength DWL (nm):
5 J/cm ² @ 1550nm, 10ns	Damage Threshold, By Design: □

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](#), [MgF₂](#), [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](#), [MgF₂](#), [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
