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TECHSPEC[®] 5.0mm Diameter x 7.5mm FL, 1550nm V-Coat, PCX Lens



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



Stock **#89-048** 20+ In Stock

☐ Other Coating Options

-

1

+

C\$83³⁰

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Volume Pricing	
Qty 1-9	C\$83.30 each
Qty 10-25	C\$75.60 each
Qty 26-49	C\$66.50 each
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Product Downloads

General

Plano-Convex Lens

Type:

Physical & Mechanical Properties

Diameter (mm):

5.00 +0.0/-0.025	
<3	Centering (arcmin):
1.90 ±0.05	Center Thickness CT (mm):
1.34	Edge Thickness ET (mm):
4.5	Clear Aperture CA (mm):
Protective as needed	Bevel:

Optical Properties	
7.50 @ 587.6nm	Effective Focal Length EFL (mm):
6.43	Back Focal Length BFL (mm):
Laser V-Coat (1550nm)	Coating:
R _{abs} <0.25% @ 1550nm	Coating Specification:
N-SF11	Substrate: □
40-20	Surface Quality:
1.5λ	Power (P-V) @ 632.8nm:
λ/4	Irregularity (P-V) @ 632.8nm:
±1	Focal Length Tolerance (%):
5.89	Radius R ₁ (mm):
1.5	f/#:
0.33	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:

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](#).

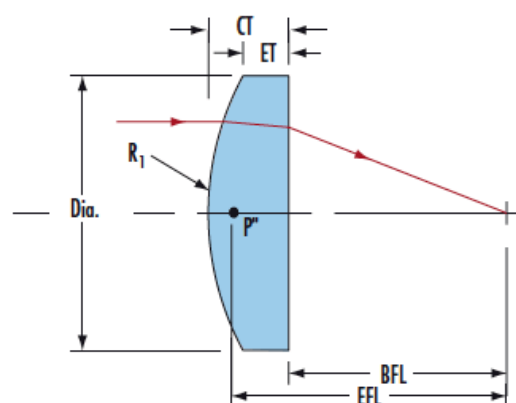
Product Details

- <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](#).



Technical Information



Compatible Mounts