

[See all 102 Products in Family](#)

TECHSPEC[®] 9.0mm Diameter x 45.0mm FL, 405nm V-Coat, PCX Lens



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



Stock **#65-458** 6 In Stock

☐ [Other Coating Options](#)

-

1

+

€50⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-9	€50,50 each
Qty 10-25	€45,50 each
Qty 26-49	€40,50 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General	
Plano-Convex Lens	Type:
Physical & Mechanical Properties	

9.00 +0.0/-0.025	Diameter (mm):
<1	Centering (arcmin):
1.54 ±0.05	Center Thickness CT (mm):
1.10	Edge Thickness ET (mm):
8.1	Clear Aperture CA (mm):
Protective as needed	Bevel:

Optical Properties	
45.00 @ 587.6nm	Effective Focal Length EFL (mm):
43.98	Back Focal Length BFL (mm):
Laser V-Coat (405nm)	Coating:
R _{abs} <0.25% @ 405nm	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 (%):
23.26	Radius R ₁ (mm):
5.00	f/#:
0.10	Numerical Aperture NA:
405	Design Wavelength DWL (nm):
3 J/cm ² @ 405nm, 10ns	Damage Threshold, By Design: ☐

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

Product Details

- <0.25% Reflection at 405nm for Diode Applications
 - 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® 405nm 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® 405nm Laser Line Coated Plano-Convex (PCX) Lenses are available Laser V-Coated in a range of other wavelengths: [532nm](#), [633nm](#), [785nm](#), [980nm](#), [1064nm](#), and [1550nm](#). Other coating options are available, including [uncoated](#), [MgF₂](#), [VIS 0°](#), [VIS-NIR](#), [NIR I](#), and [NIR II](#).

LASER OPTICS

MADE BY EDMUND OPTICS®



LEARN MORE

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