

TECHSPEC[®] 50mm Dia. x 100mm FL 405nm V-Coat, UV PCX Lens



Stock **#34-079** 1 In Stock

☐ Other Coating Options

-

1

+

€318²⁷

ADD TO CART

Volume Pricing	
Qty 1-5	€318,27 each
Qty 6-25	€254,41 each
Qty 26-49	€238,96 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Plano-Convex Lens		Type:
Physical & Mechanical Properties		
Diameter (mm):		50.00 +0.0/-0.025
Centering (arcmin):		≤1
Center Thickness CT (mm):		9.00 ±0.10
Edge Thickness ET (mm):		1.58
Clear Aperture CA (mm):		49
Bevel:		Protective as needed
Edges:		Fine Ground, Protective Bevel as Needed
Optical Properties		
Effective Focal Length EFL (mm):		100.00 @ 587.6nm
Back Focal Length BFL (mm):		93.84
Coating:		Laser V-Coat (405nm)
Coating Specification:		R _{abs} <0.25% @ 405nm
Substrate: ☐		Fused Silica (Corning 7980)
Surface Quality:		40-20
Power (P-V) @ 632.8nm:		1.5λ
Irregularity (P-V) @ 632.8nm:		λ/4
Focal Length Tolerance (%):		±1
Radius R ₁ (mm):		45.85
f/#:		2.00
Numerical Aperture NA:		0.25
Design Wavelength DWL (nm):		405
Damage Threshold, By Design: ☐		3 J/cm ² @ 405nm, 10ns
Regulatory Compliance		
RoHS 2015:		Compliant
Certificate of Conformance:		View
Reach 235:		Compliant

PRODUCT DETAILS

- <0.25% Reflection at 405nm for 405nm Diodes
- 5 - 50mm Diameters Available
- 10 - 250mm EFL Designs Available
- 532nm, 633nm, 1064nm,** and **1550nm** V-Coated Options Offered

TECHSPEC® Laser Line Coated Fused Silica PCX Lenses are available in a variety of laser line V-Coat AR coating options. Designed for maximum throughput at the specified laser wavelength, these lenses are ideal for applications utilizing low power HeNe, Diode, and Nd:YAG laser sources. 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.></0.25%>

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

