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



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

[Other Coating Options](#)

1 MRP ₹34,303

Price inclusive of all taxes

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Volume Pricing	
Qty 1-5	₹34,303 each
Qty 6-25	₹27,442 each
Qty 26-49	₹25,728 each
Need More?	Request Quote

Product Downloads

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 R₁ (mm):
45.85

f#:
2.00

Numerical Aperture NA:
0.25

Design Wavelength DWL (nm):
405

Damage Threshold, By Design:
3 J/cm² @ 405nm, 10ns

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
[View](#)

Reach 235:
Compliant

Country of Origin:
Japan

Imported By:
Edmund Optics India Private Limited
267, Greystone Building, Second Floor,
6th Cross Rd, Binnamangala,
Stage 1, Indiranagar, Bengaluru,
Karnataka, India 560038
Phone: +91- 80-6845 0000

Need different specs or modifications?

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 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 PCXLenses 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%>

Compatible Mounts
