

TECHSPEC[®] 12mm Dia. x 50mm FL 1064nm V-Coat, Fused Silica PCX Lens



Stock **#34-137** **6 In Stock**

☐ [Other Coating Options](#)

-

1

+

S\$204⁴⁰

ADD TO CART

Volume Pricing	
Qty 1-5	S\$204.40 each
Qty 6-25	S\$162.40 each
Qty 26-49	S\$154.00 each
Need More?	Request Quote

Product Downloads

SPECIFICATIONS

General

Type:

Plano-Convex Lens	
Physical & Mechanical Properties	
12.00 +0.0/-0.025	Diameter (mm):
≤1	Centering (arcmin):
Center Thickness CT (mm):	
2.90 ±0.05	
Edge Thickness ET (mm):	
2.1	
Clear Aperture CA (mm):	
11	
Bevel:	
Protective as needed	
Edges:	
Fine Ground, Protective Bevel as Needed	
Optical Properties	
Effective Focal Length EFL (mm):	
50.00 @ 587.6nm	
Back Focal Length BFL (mm):	
48.01	
Coating:	
Laser V-Coat (1064nm)	
Coating Specification:	
R _{abs} <0.25% @ 1064nm	
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):	
22.92	
f/#:	
4.17	
Numerical Aperture NA:	
0.12	
Design Wavelength DWL (nm):	
1064	
Damage Threshold, By Design: 	
5 J/cm ² @ 1064nm, 10ns	
Regulatory Compliance	
RoHS 2015:	
Compliant	
Certificate of Conformance:	
View	
Reach 235:	
Compliant	

PRODUCT DETAILS

- <0.25% Reflection at 1064nm for Fiber and Nd:YAG Applications
- 5 - 50mm Diameters Available
- 10 - 250mm EFL Designs Available
- 405nm, 532nm, 633nm, 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.

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

