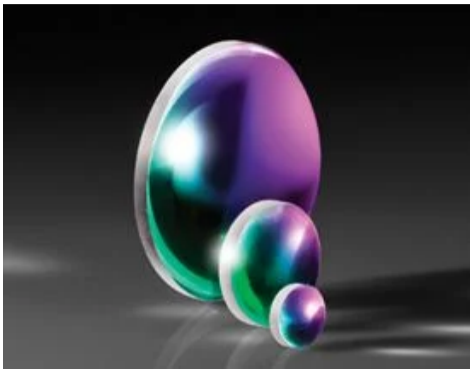


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[/ Fused Silica Plano-Convex \(PCX\) Lenses](#)
[/ 1550nm Laser Line Coated Fused Silica PCX Lenses](#)

TECHSPEC® 50mm Dia. x 200mm FL 1550nm V-Coat, UV PCX Lens



Stock #34-173 **2 In Stock** [Other Coating Options](#)

1 **C\$467^{.60}**

ADD TO CART



Volume Pricing	
Qty 1-5	C\$467.60 each
Qty 6-25	C\$373.80 each
Qty 26-49	C\$351.40 each
Need More?	Request Quote

Product Downloads	
STEP:stp	Curve:pdf
PDF Drawing:pdf	
ISO 10110 Drawing	
IGES:igs	Zemax:zar
Zemax:zmx	eDrawing:eprt
Code V:seq	EO Spec Sheet
Download All	

General

Type: Plano-Convex Lens

Physical & Mechanical Properties

Diameter (mm): 50.00 +0.0/-0.025	Centering (arcmin): ≤1
Center Thickness CT (mm): 7.00 ±0.10	Edge Thickness ET (mm): 3.53
Clear Aperture CA (mm): 49.00	Bevel: Protective as needed
Edges: Fine Ground, Protective Bevel as Needed	

Optical Properties

Effective Focal Length EFL (mm): 200.00 @ 587.6nm	Back Focal Length BFL (mm): 195.19
Coating: Laser V-Coat (1550nm)	Coating Specification: R _{abs} <0.25% @ 1550nm
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): 91.69
f/#: 4.00	Numerical Aperture NA: 0.13

Design Wavelength DWL (nm): 587.6

Damage Threshold, By Design: 5 J/cm² @ 1550nm, 10ns

Regulatory Compliance

RoHS 2015: **Compliant**

Certificate of Conformance: [View](#)

Reach 235: **Compliant**

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 1550nm
- 5 - 50mm Diameters Available
- 10 - 250mm EFL Designs Available
- **405nm, 532nm, 633nm, and 1064nm** 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.

Related Products



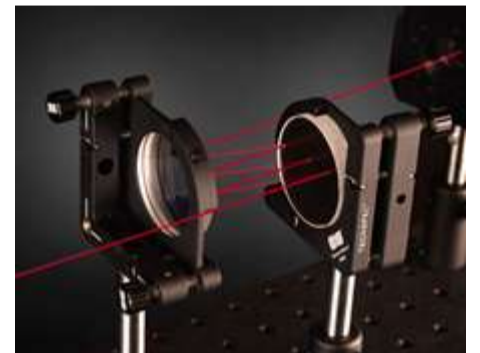
1550nm Laser Line Coated Plano-Convex (PCX) Lenses



λ/4 N-BK7 Laser Line Windows










1550nm Precision Near-Infrared (NIR) Aspheric Lenses



Laser Optics

Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
MORE+	50.0/50.8mm Optic Dia., SM2 Thin Mount	Fixed		#17-716	C\$50.75 Request Quote	20+ In Stock <input type="text" value="1"/>
MORE+	50.0mm Optic Dia., Optic Mount	Fixed		#64-567	C\$68.95 Request Quote	2 In Stock <input type="text" value="1"/>
MORE+	50.0mm Optic Dia., Optic Mount	Fixed		#64-568	C\$68.95 Request Quote	7 In Stock <input type="text" value="1"/>
	50mm Diameter, T-Mount Thin Optic	Fixed		#88-943	C\$144.20 Request	20+ In Stock <input type="text" value="1"/>

	Title	Type	Compare	Stock Number	Price	Buy
	Mount				Quote	
MORE+ 	50.0/50.8mm Optic Dia., X-Y Translating Optic Mount	Adjustable - Linear (XY)		#62-957	C\$431.20 Request Quote	1 In Stock <input type="text" value="1"/> 
MORE+ 	50.0/50.8mm Optic Dia., X-Y-Z Translating Optic Mount	Adjustable - Linear (XYZ)		#62-960	C\$847.00 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+ 	50.0/50.8mm Optic Dia., 5 Axes Optical Mount	Adjustable - Linear (XYZ) & Tip-Tilt		#13-778	C\$1,176.00 Request Quote	10 In Stock <input type="text" value="1"/> 

Check out our full selection of mounts [here](#).

Resources

Media Type

Application Note

