

TECHSPEC®

20.0mm Diameter x 70.0mm FL, 1064nm V-Coat, PCX Lens



Stock #89-044 **10 In Stock** [Other Coating Options](#)

1 **£47^{.20}**

ADD TO CART

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



Volume Pricing	
Qty 1-9	£47.20 each
Qty 10-25	£42.80 each
Qty 26-49	£37.80 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

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

General	
Type:	Plano-Convex Lens
Physical & Mechanical Properties	
Diameter (mm):	20.00 +0.0/-0.025
Centering (arcmin):	<1
Center Thickness CT (mm):	3.00 ±0.10
Edge Thickness ET (mm):	1.59
Clear Aperture CA (mm):	19
Bevel:	Protective as needed
Optical Properties	
Effective Focal Length EFL (mm):	70.00 @ 587.6nm
Back Focal Length BFL (mm):	68.03
Coating:	Laser V-Coat (1064nm)
Coating Specification:	R _{abs} <0.25% @ 1064nm
Substrate:	N-BK7
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):	36.18
f/#:	3.5
Numerical Aperture NA:	0.14

Design Wavelength DWL (nm): 1064

Damage Threshold, By Design: 5 J/cm² @ 1064nm, 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 1064nm for Fiber and Nd:YAG 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® 1064nm 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® 1064nm Laser Line Coated Plano-Convex (PCX) Lenses are available Laser V-Coated in a range of other wavelengths: [405nm](#), [532nm](#), [633nm](#), [785nm](#), [980nm](#), 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®

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Technical Information

Related Products



Laser Sources



Laser Optics



Laser Grade Plano-Convex (PCX) Lenses



1064nm Laser Line Coated Fused Silica PCX Lenses

Frequently Purchased Together



#49-114 - 25mm Dia., 0.50 Numerical Aperture NIR Coated, Aspheric Lens
£279.20

Qty



#65-547 - 25.0mm Diameter x 100.0mm FL, 1064nm V-Coat, PCX Lens
£47.20

Qty



#69-600 - 10.0mm Diameter x 10.0mm FL, 1064nm V-Coat, PCX Lens
£41.60

Qty



#69-617 - 25.0mm Diameter x 30.0mm FL, 1064nm V-Coat, PCX Lens
£48.80

Qty

Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
	20.0mm Optic Dia., Optic Mount	Fixed		#64-559	£26.20 Request Quote	14 In Stock <input type="text" value="1"/>
	20mm Inner Single Optic Mount	Fixed		#38-754	£32.80 Request Quote	20+ In Stock <input type="text" value="1"/>
	20mm Diameter, C-Mount Thin Optic Mount	Fixed		#54-618	£47.60 Request Quote	20+ In Stock <input type="text" value="1"/>

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

Resources

Media Type

- Application Note
- Technical Tool
- Video
- FAQ
- Trending in Optics
- Glossary
- Scientific Paper
- Published Article

APPLICATION NOTE

An Introduction to Optical Coatings

TECHNICAL TOOL

Gaussian Beams Calculator

VIDEO

Polarization Directed Flat Lenses Product Review

? FAQ

What is the best lens for focusing or collimating th...

↑ TRENDING IN OPTICS

Free-Space Optical Communication

APPLICATION NOTE

Common Laser Optics Materials

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