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TECHSPEC[®] 50.0mm Diameter x 50.0mm FL, 633nm V-Coat, PCX Lens



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



Stock **#69-456** **14 In Stock**

☐ [Other Coating Options](#)

-

1

+

S\$112⁷⁰

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Volume Pricing	
Qty 1-9	S\$112.70 each
Qty 10-25	S\$101.50 each
Qty 26-49	S\$90.30 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):
12.00 ±0.10	
	Edge Thickness ET (mm):
3.00	
	Clear Aperture CA (mm):
49	
	Bevel:
Protective as needed	

Optical Properties	
	Effective Focal Length EFL (mm):
50.00 @ 587.6nm	
	Back Focal Length BFL (mm):
43.28	
	Coating:
Laser V-Coat (633nm)	
	Coating Specification:
R _{abs} <0.25% @ 633nm	
	Substrate: □
N-SF11	
	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):
39.24	
	f##:
1.00	
	Numerical Aperture NA:
0.50	
	Design Wavelength DWL (nm):
633	
	Damage Threshold, By Design: □
5 J/cm ² @ 633nm, 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 633nm for HeNe 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® 633nm 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® 633nm Laser Line Coated Plano-Convex (PCX) Lenses are available Laser V-Coated in a range of other wavelengths: [405nm](#), [532nm](#), [785nm](#), [980nm](#), [1064nm](#), and [1550nm](#). Other coating options are available, including [uncoated](#), [MgF₂](#), [VIS 0°](#), [VIS-NIR](#), [NIR I](#), and [NIR II](#).



Technical Information



Compatible Mounts