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TECHSPEC[®] 12.0mm Diameter x 42.0mm FL, 633nm V-Coat, PCX Lens



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



Stock #69-440 14 In Stock

[Other Coating Options](#)

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1

+

S\$74^{.20}

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Volume Pricing	
Qty 1-9	S\$74.20 each
Qty 10-25	S\$66.85 each
Qty 26-49	S\$59.15 each
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Product Downloads

General

Plano-Convex Lens

Type:

Physical & Mechanical Properties

Diameter (mm):

12.00 +0.0/-0.025	
	Centering (arcmin):
<1	
	Center Thickness CT (mm):
2.70 ±0.05	
	Edge Thickness ET (mm):
1.85	
	Clear Aperture CA (mm):
11	
	Bevel:
Protective as needed	

Optical Properties	
	Effective Focal Length EFL (mm):
42.00 @ 587.6nm	
	Back Focal Length BFL (mm):
40.22	
	Coating:
Laser V-Coat (633nm)	
	Coating Specification:
R _{abs} <0.25% @ 633nm	
	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 R ₁ (mm):
21.71	
	f##:
3.5	
	Numerical Aperture NA:
0.14	
	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	

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](#).

LASER OPTICS

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Technical Information



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
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Compatible Mounts

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