

TECHSPEC[®] 12.7mm Dia. x 75mm FL, 1064nm Coated, Laser Grade PCX Lens



TECHSPEC Laser Grade PCXLenses

Stock #38-736 16 In Stock

☐ [Other Coating Options](#)

-

1

+

C\$291²⁰

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Volume Pricing	
Qty 1-5	C\$291.20 each
Qty 6-25	C\$232.40 each
Qty 26-49	C\$214.20 each
Need More?	Request Quote

Product Downloads

General

Type:

Plano-Convex Lens

Physical & Mechanical Properties

Diameter (mm):

12.70 +0.00/-0.025

Centering (arcmin):

<1	
Center Thickness CT (mm):	4.00 ±0.10
Edge Thickness ET (mm):	3.43
Clear Aperture CA (mm):	11.43
Bevel:	Protective as needed
Optical Properties	
Effective Focal Length EFL (mm):	75.00 @ 355nm
Back Focal Length BFL (mm):	72.31
Coating:	Laser V-Coat (1064nm)
Coating Specification:	R _{abs} <0.25% @ 1064nm
Substrate: ☐	Fused Silica (Corning 7980)
Surface Quality:	10-5
Power (P-V) @ 632.8nm:	λ
Irregularity (P-V) @ 632.8nm:	λ/10
Focal Length Tolerance (%):	±1
Radius R ₁ (mm):	35.71
f/#:	5.91
Numerical Aperture NA:	0.08
Design Wavelength DWL (nm):	1064
Damage Threshold, By Design: ☐	15 J/cm² @ 1064nm, 20ns, 20Hz
Regulatory Compliance	
Certificate of Conformance:	View

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](#).

Product Details

- Guaranteed Laser Damage Threshold
- 10-5 Surface Quality
- λ/10 Surface Accuracy

TECHSPEC® Laser Grade PCX Lenses are designed for high energy Nd:YAG laser applications including laser cutting, machining, and welding. The precision fused silica substrate, featuring λ/10 surface accuracy and 10-5 surface quality, ensures low scatter and excellent transmitted wavefront performance. TECHSPEC® Laser Grade PCX Lenses are available uncoated or with a variety of high laser damage threshold anti-reflection (AR) coating options. Coatings are available at the most common Nd:YAG laser wavelengths to ensure maximum laser throughput.



Technical Information



Compatible Mounts