

TECHSPEC[®] 12mm Diameter x 50mm FL, 1064nm Coated, Laser Grade PCX Lens



TECHSPEC Laser Grade PCXLenses

Stock **#67-972 4 In Stock**
☐ [Other Coating Options](#)

-

1

+

€208⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-5	€208,00 each
Qty 6-25	€166,00 each
Qty 26-49	€154,00 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General	
Plano-Convex Lens	Type:
Physical & Mechanical Properties	
12.00 +0.00/-0.10	Diameter (mm):

<1	Centering (arcmin):
2.90 ±0.05	Center Thickness CT (mm):
2.10	Edge Thickness ET (mm):
10.2	Clear Aperture CA (mm):
Protective as needed	Bevel:

Optical Properties

50.00 @ 587.6nm	Effective Focal Length EFL (mm):
48.01	Back Focal Length BFL (mm):
Laser V-Coat (1064nm)	Coating:
R _{abs} <0.25% @ 1064nm	Coating Specification:
Fused Silica (Corning 7980)	Substrate: ☐
20-10	Surface Quality:
λ	Power (P-V) @ 632.8nm:
N/10	Irregularity (P-V) @ 632.8nm:
±1	Focal Length Tolerance (%):
22.92	Radius R ₁ (mm):
4.17	f##:
0.12	Numerical Aperture NA:
1064	Design Wavelength DWL (nm):
15 J/cm ² @ 1064nm, 20ns, 20Hz	Damage Threshold, By Design: ☐

Regulatory Compliance

Compliant	RoHS 2015:
Compliant	REACH 201:
View	Certificate of Conformance:

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:

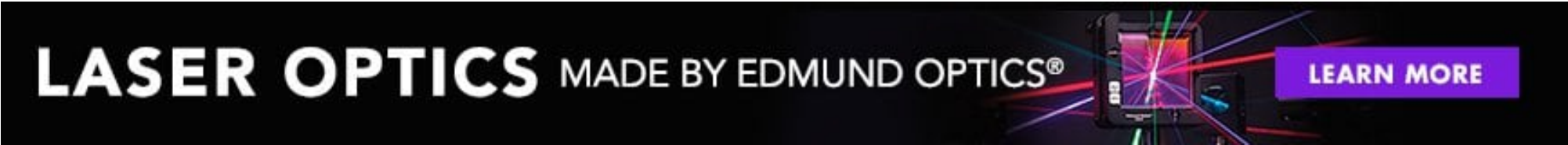
- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

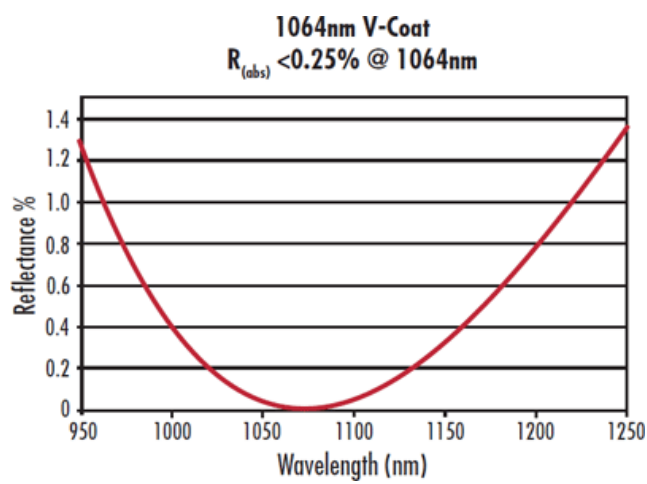
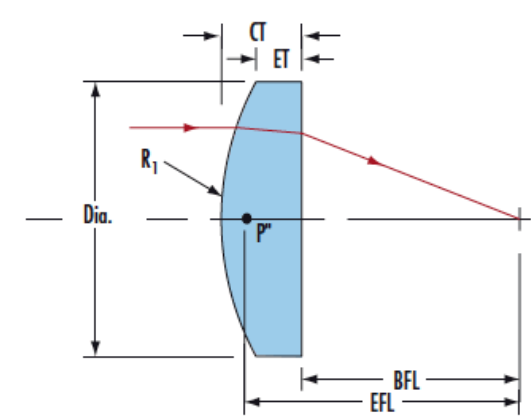
Product Details

- Guaranteed Laser Damage Threshold
- 10-5 Surface Quality
- N/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 N/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