

TECHSPEC® 50.8mm Dia. x 100mm FL, 1064nm Coated, Laser Grade PCX Lens



TECHSPEC Laser Grade PCXLenses

Stock **#70-043 5 In Stock**

☐ Other Coating Options

-

1

+

₹30,829

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Volume Pricing	
Qty 1-5	₹30,829 each
Qty 6-25	₹24,601 each
Qty 26-49	₹22,577 each
Need More?	Request Quote

Product Downloads

General

Type:

Plano-Convex Lens

Physical & Mechanical Properties

Diameter (mm):

50.80 +0.00/-0.025

Centering (arcmin):

<1	
12.00	Center Thickness CT (mm):
4.32	Edge Thickness ET (mm):
45.72	Clear Aperture CA (mm):
Protective as needed	Bevel:
Optical Properties	
100.00 @ 355nm	Effective Focal Length EFL (mm):
91.773	Back Focal Length BFL (mm):
Laser V-Coat (1064nm)	Coating:
R _{abs} <0.25% @ 1064nm	Coating Specification:
Fused Silica (Corning 7980)	Substrate: ☐
10-5	Surface Quality:
λ	Power (P-V) @ 632.8nm:
λ/10 ±1	Irregularity (P-V) @ 632.8nm:
45.85	Radius R ₁ (mm):
1.97	f/#:
0.25	Numerical Aperture NA:
1064	Design Wavelength DWL (nm):
15 J/cm ² @ 1064nm, 20ns, 20Hz	Damage Threshold, By Design: ☐
Regulatory Compliance	
View	Certificate of Conformance:
United States	Country of Origin:
Edmund Optics India Private Limited	Imported By:

Product Details

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

TECHSPEC® Laser Grade PCXLenses 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 PCXLenses 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



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](#).