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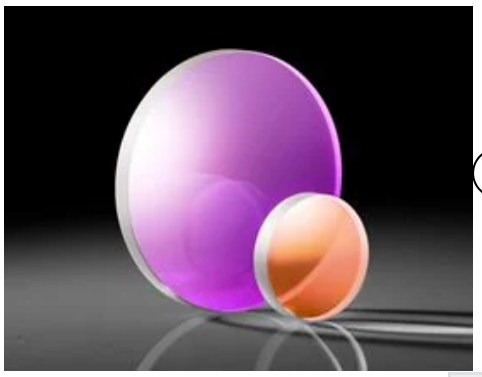
TECHSPEC®

50.8mm Dia. x 250mm FL, Uncoated, Laser Grade PCX Lens



TECHSPEC Laser Grade PCX Lenses

Stock #70-006 20+ In Stock

Other Coating Options

- 1 +

£325.60

ADD TO CART

Volume Pricing	
Qty 1-5	£325.60 each
Qty 6-25	£260.80 each
Qty 26-49	£250.40 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

EO Spec Sheet

General

Type:	Plano-Convex Lens

Physical & Mechanical Properties

Diameter (mm):	50.80 +0.00/-0.025	**Centering (arcmin):**	<1
Center Thickness CT (mm):	8.00	**Edge Thickness ET (mm):**	5.15
Clear Aperture CA (mm):	45.72	**Bevel:**	Protective as needed

Optical Properties

Effective Focal Length EFL (mm):	250.00 @ 355nm	**Back Focal Length BFL (mm):**	244.514
Coating:	Uncoated	**Substrate:** ⓘ	Fused Silica (Corning 7980)
Surface Quality:	10-5	**Power (P-V) @ 632.8nm:**	λ
Irregularity (P-V) @ 632.8nm:	λ/10 ±1	**Radius R_1 (mm):**	114.62
f/#:	4.92	**Numerical Aperture NA:**	0.10
Wavelength Range (nm):	200 - 2200		

Regulatory Compliance

Certificate of Conformance:	View

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.**

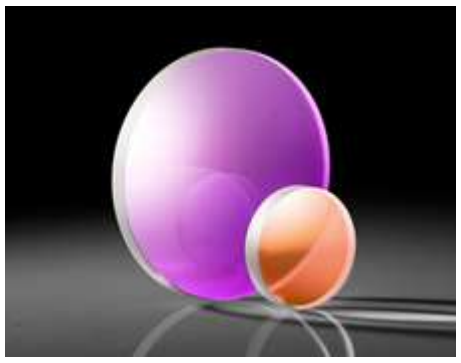
Product Details

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

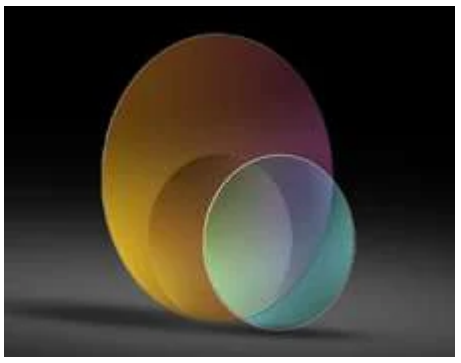
TECHSPEC® Laser Grade PCX Lenses are designed for high energy Nd:YAG laser applications including laser cutting, machining, and welding. The precision fused silica substrate, featuring λ/10 surface accuracy and 10-5 surface quality, ensures low scatter and excellent transmitted wavefront performance. 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

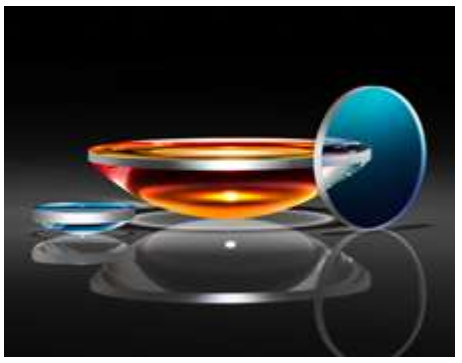
Related Products



Plano-Convex (PCX) Laser Lenses



Thin Fused Silica Plano-Convex (PCX) Laser Lenses



UV Fused Silica Plano-Convex (PCX) Lenses - Uncoated

Optical Lens and Filter Mounts

Resources

Media Type

APPLICATION NOTE

An Introduction to Optical Coatings

TECHNICAL TOOL

Gaussian Beams Calculator

VIDEO

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- [ ] Technical Tool
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? FAQ

What is the best lens for focusing or collimating th...

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Free-Space Optical Communication

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Common Laser Optics Materials

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