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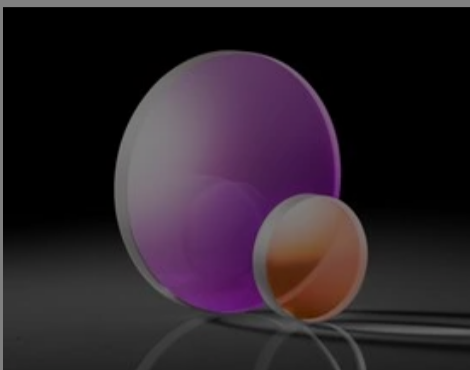
TECHSPEC®

12.7mm Dia. x 3mm

Please select your shipping country to view the most accurate inventory information, and to determine the correct Edmund Optics sales office for your order.

Select Your Country/Region: European Union

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TECHSPEC Laser Grade PCX Lenses

Stock #38-668 **3 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 €153,00 each

Need More? [Request Quote](#)

Prices shown are exclusive of VAT/local taxes

Product Downloads

- STEP:step
- Curve:pdf
- PDF Drawing:pdf
- ISO 10110 Drawing
- IGES:igs
- Curve (xlsx):xlsx
- Zemax:zar
- Zemax:zmx
- eDrawing:eprt
- Code V:seq
- EO Spec Sheet
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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): 3.86

Clear Aperture CA (mm): 11.43

Bevel: Protective as needed

Optical Properties

Effective Focal Length EFL (mm): 300.00 @ 355nm

Back Focal Length BFL (mm): 297.38

Coating: Laser V-Coat (266nm)

Coating Specification: R_{abs} <0.25% @ 266nm

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 R₁ (mm): 142.83

f/#: 23.62

Numerical Aperture NA: 0.02

Design 266
Wavelength
DWL (nm):

Damage 3 J/cm² @
Threshold, By 266nm, 20ns,
Design: ⓘ 20Hz

Regulatory Compliance

Certificate of Conformance: [View](#)

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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
- $\lambda/10$ Surface Accuracy

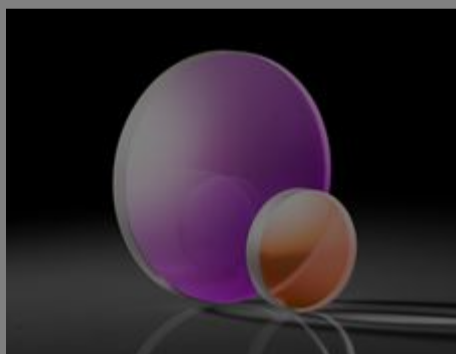
TECHSPEC® Laser Grade PCX Lenses are designed for high energy Nd:YAG laser applications including laser cutting, machining, and welding. The precision fused silica substrate, featuring $\lambda/10$ surface accuracy and 10-5 surface quality, ensures low scatter and excellent transmitted wavefront performance.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

LASER OPTICS MADE BY EDMUND OPTICS®

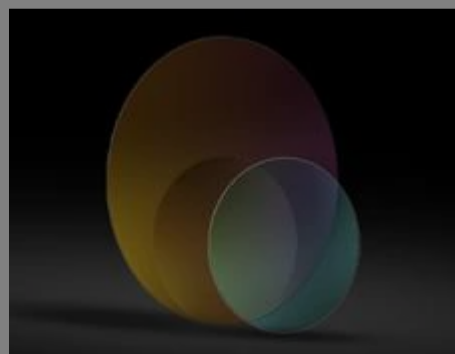
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Technical Information

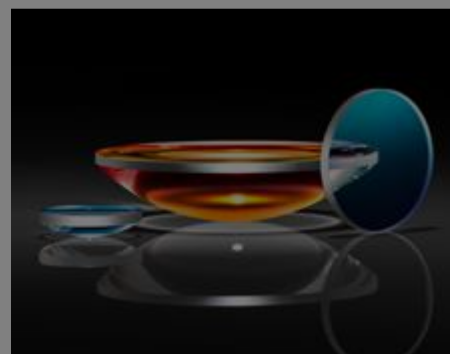
Related Products



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

Frequently Purchased Together

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#38-666 - 12.7mm Dia.
FL, 266nm Coated, La
PCX Lens
€208,00

Qty



























PCX Lens
€208,00

Qty

h Dia. x 500mm
d, Laser Grade
PCX Lens
€208,00

Qty

Compatible Mounts

| | Title | Type | Compare | Stock Number | Price | Buy |
|---|---|--|--------------------------|--------------|--------------------------|----------------|
|  |  | 12.5/12.7mm Optic Dia., SM05 Thin Mount, M4 | Fixed | #13-789 | €19,50 Request Quote | 10 In Stock 1 |
|  |  | 12.5/12.7mm Optic Dia., SM05 Thin Mount, 8-32 | Fixed | #13-790 | €19,50 Request Quote | 17 In Stock 1 |
|  |  | 12.7mm Optic Dia., Optic Mount | Fixed | #64-556 | €32,75 Request Quote | 12 In Stock 1 |
|  |  | 12.7mm Thick Inner Single Optic Mount | Fixed | #38-757 | €41,00 Request Quote | 1 In Stock 1 |
|  |  | 25mm Cage 12.7mm Diameter Lens Mount | Fixed | #85-547 | €45,75 Request Quote | 20+ In Stock 1 |
|  |  | 25mm Cage 12.7mm Diameter Thick Lens Mount | Fixed | #85-548 | €45,75 Request Quote | 3 In Stock 1 |
|  |  | 12.5/12.7mm Optic Dia., L-Slot Direct Mount | Fixed | #36-416 | €59,00 Request Quote | 17 In Stock 1 |
|  |  | 12.5/12.7mm Optic Dia., Side Flange Direct Mount | Fixed | #36-418 | €59,00 Request Quote | 10 In Stock 1 |
|  |  | 12-12.7mm Diameter, S-Mount Thick Optic Mount | Fixed | #63-952 | €67,50 Request Quote | 20+ In Stock 1 |
|  |  | 12.5/12.7mm Diameter, T-Mount Thin Optic Mount | Fixed | #52-933 | €72,00 Request Quote | 5 In Stock 1 |
|  |  | 12.7mm Thick Inner Pair Optic Mounts | Fixed | #11-053 | €80,50 Request Quote | 2 In Stock 1 |
|  |  | 12.5/12.7mm Optic Dia., L-Slot and Rotation Direct Mount | Adjustable - Rotary | #36-417 | €96,50 Request Quote | 20+ In Stock 1 |
|  |  | 12.5/12.7mm Optic Dia., X-Y Translating Optic Mount | Adjustable - Linear (XY) | #62-955 | €261,00 Request Quote | 7 In Stock 1 |

| | Title | Type | Compare | Stock Number | Price | Buy |
|-----------------------|---|------|---------|--------------|---------|---|
| MORE+ | 12.5/12.7mm Optic Dia., X... Translating Mount | | | | €429,00 | 5 In Stock <input type="text" value="1"/> |

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Resources

Media Type

- Application Note
- Technical Tool
- Video
- FAQ
- Trending in Optics
- Glossary
- Scientific Paper
- Published Article

APPLICATION NOTE

An Introduction to Optical Coatings

TECHNICAL TOOL

Gaussian Beams Calculator

VIDEO

Polarization Directed Flat Lenses Product Review

FAQ

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

TRENDING IN OPTICS

Free-Space Optical Communication

APPLICATION NOTE

Common Laser Optics Materials

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