

TECHSPEC[®] 12.7mm Dia. x 50mm FL, 355nm Coated, Laser Grade PCX Lens



TECHSPEC Laser Grade PCXLenses

Stock **#38-685** **12 In Stock**

☐ [Other Coating Options](#)

-

1

+

S\$291²⁰

ADD TO CART

Volume Pricing	
Qty 1-5	S\$291.20 each
Qty 6-25	S\$232.40 each
Qty 26-49	S\$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	
4.00 ±0.10	Center Thickness CT (mm):
3.14	Edge Thickness ET (mm):
11.43	Clear Aperture CA (mm):
Protective as needed	Bevel:
Optical Properties	
50.00 @ 355nm	Effective Focal Length EFL (mm):
47.30	Back Focal Length BFL (mm):
Laser V-Coat (355nm)	Coating:
R _{abs} <0.25% @ 355nm	Coating Specification:
Fused Silica (Corning 7980)	Substrate: ☐
10-5	Surface Quality:
λ	Power (P-V) @ 632.8nm:
λ/10	Irregularity (P-V) @ 632.8nm:
±1	Focal Length Tolerance (%):
23.80	Radius R ₁ (mm):
3.94	f/#:
0.13	Numerical Aperture NA:
355	Design Wavelength DWL (nm):
7.5 J/cm² @ 355nm, 20ns, 20Hz	Damage Threshold, By Design: ☐
Regulatory Compliance	
View	Certificate of Conformance:

Product Details

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

TECHSPEC® Laser Grade PCXLenses are designed for high energyNd:YAGlaser 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:YAGlaser 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](#).

Compatible Mounts