

TECHSPEC® 6mm Diameter x 18mm FL, 1064nm Coated, Laser Grade PCX Lens



TECHSPEC Laser Grade PCX Lenses

Stock **#87-941** **5 In Stock**

[Other Coating Options](#)

⊖ 1 ⊕ £151²⁰

ADD TO CART

Volume Pricing	
Qty 1-5	£151.20 each
Qty 6-25	£121.60 each
Qty 26-49	£111.20 each
Need More?	Request Quote

! Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Type:

Physical & Mechanical Properties

6.00 +0.00/-0.05	Diameter (mm):
<1	Centering (arcmin):
2.00 ±0.05	Center Thickness CT (mm):
1.44	Edge Thickness ET (mm):
5.4	Clear Aperture CA (mm):
Protective as needed	Bevel:

Optical Properties

18.00 @ 587.6nm	Effective Focal Length EFL (mm):
16.62	Back Focal Length BFL (mm):
Laser V-Coat (1064nm)	Coating:
$R_{abs} < 0.25\%$ @ 1064nm	Coating Specification:
Fused Silica (Corning 7980)	Substrate: <input type="checkbox"/>
20-10	Surface Quality:
λ	Power (P-V) @ 632.8nm:
$\lambda/10$	Irregularity (P-V) @ 632.8nm:
±1	Focal Length Tolerance (%):
8.25	Radius R_1 (mm):
3.00	f#:
0.17	Numerical Aperture NA:
1064	Design Wavelength DWL (nm):
15 J/cm ² @ 1064nm, 20ns, 20Hz	Damage Threshold, By Design: <input type="checkbox"/>

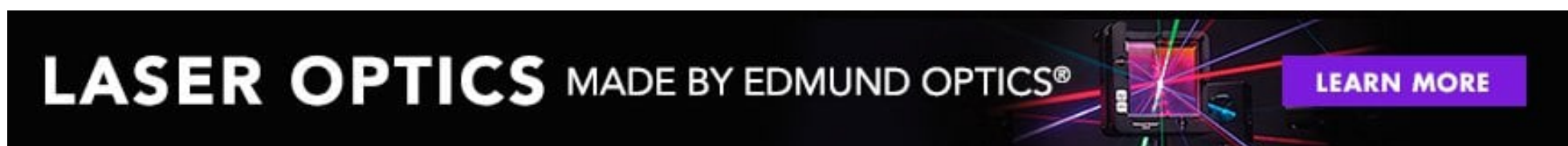
Regulatory Compliance

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

PRODUCT DETAILS

- Guaranteed Laser Damage Threshold
- 10-5 Surface Quality
- $\lambda/10$ Surface Accuracy

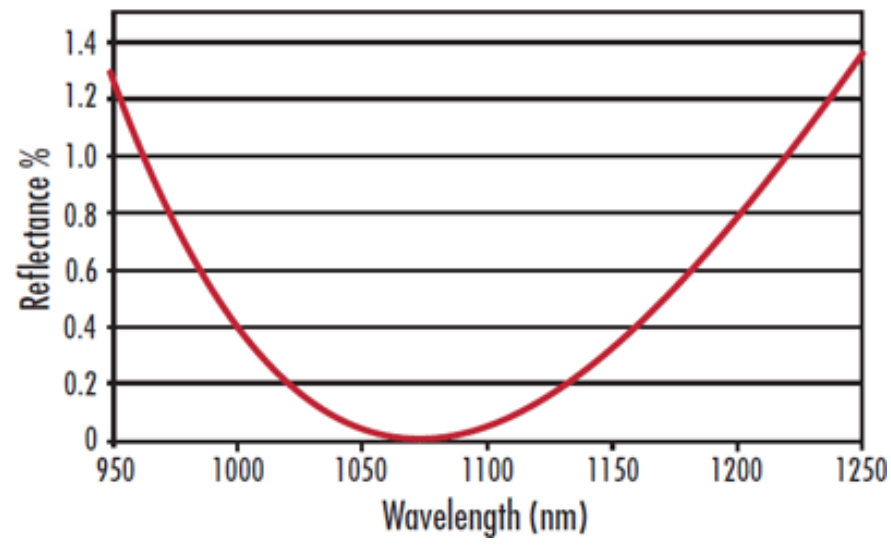
TECHSPEC® Laser Grade PCX Lenses are designed for high energy Nd:YAG laser applications including laser cutting, machining, and welding. The precision fused silica substrate, featuring $\lambda/10$ surface accuracy and 10-5 surface quality, ensures low scatter and excellent transmitted wavefront performance.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



TECHNICAL INFORMATION



1064nm V-Coat
 $R_{(obs)} < 0.25\% @ 1064\text{nm}$



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