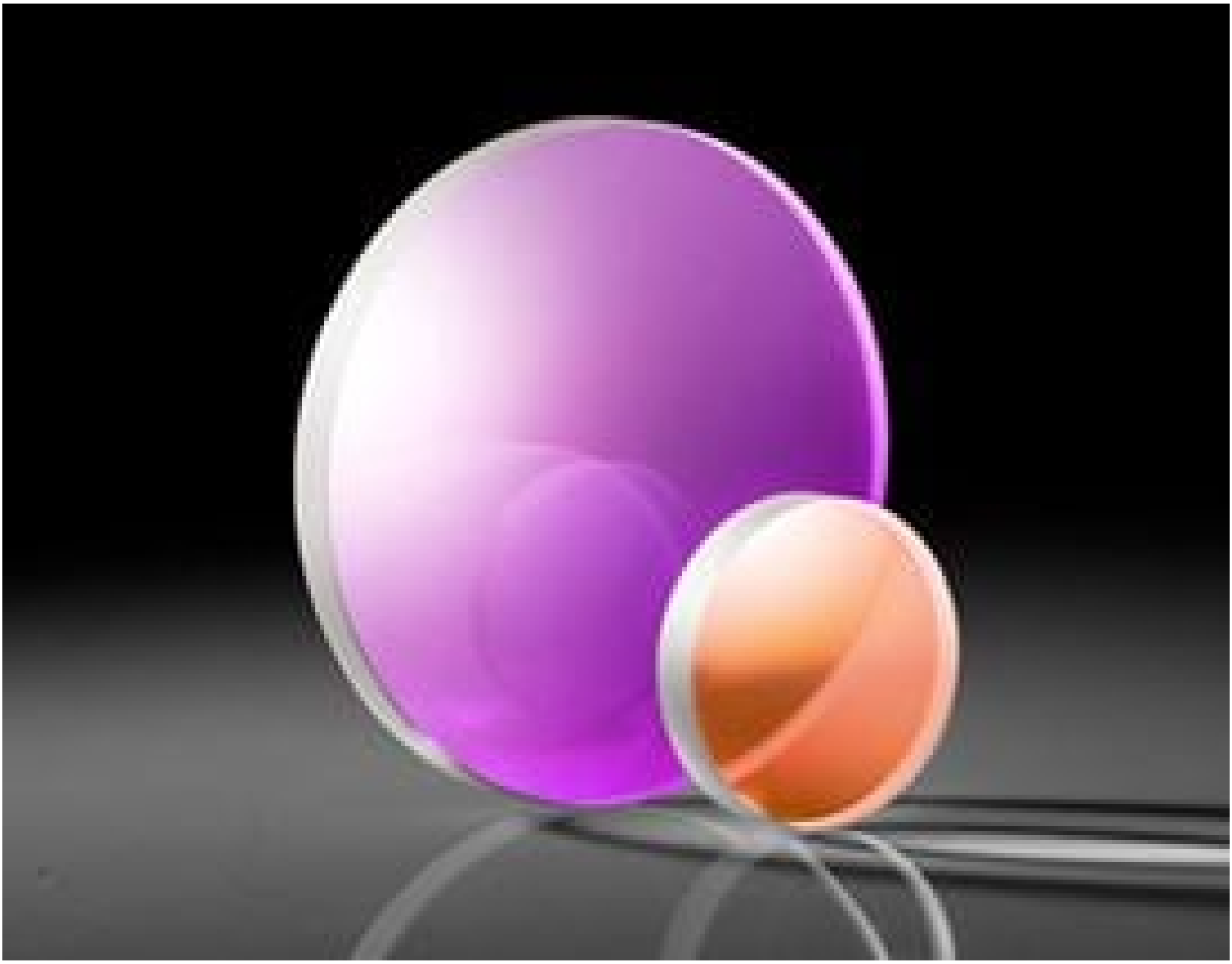
TECHSPEC 50.8mm Dia. x 200mm FL, 532nm Coated, Laser Grade PCX Lens



TECHSPEC Laser Grade PCX Lenses

Stock **#70-035** **13 In Stock**

Other Coating Options

- 1 + **£346.70**

ADD TO CART

Volume Pricing	
Qty 1-5	**£346.70** each
Qty 6-25	**£276.66** each
Qty 26-49	**£253.90** each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

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):
4.41

Clear Aperture CA (mm):
45.72

Bevel:
Protective as needed

Optical Properties

Effective Focal Length EFL (mm):
200.00 @ 355nm

Back Focal Length BFL (mm):
194.515

Coating:
Laser V-Coat (532nm)

Coating Specification:
R_{abs} <0.25% @ 532nm

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):
91.69

f/#:
3.94

Numerical Aperture NA:
0.13

Design Wavelength DWL (nm):
532

Damage Threshold, By Design:
10 J/cm^2 @ 532nm, 20ns, 20Hz

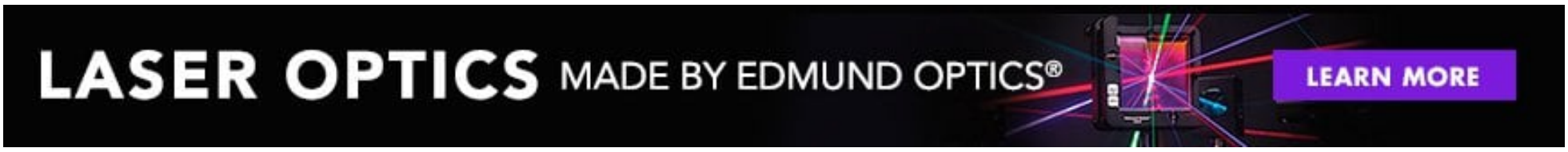
Regulatory Compliance

Certificate of Conformance:
View

PRODUCT DETAILS

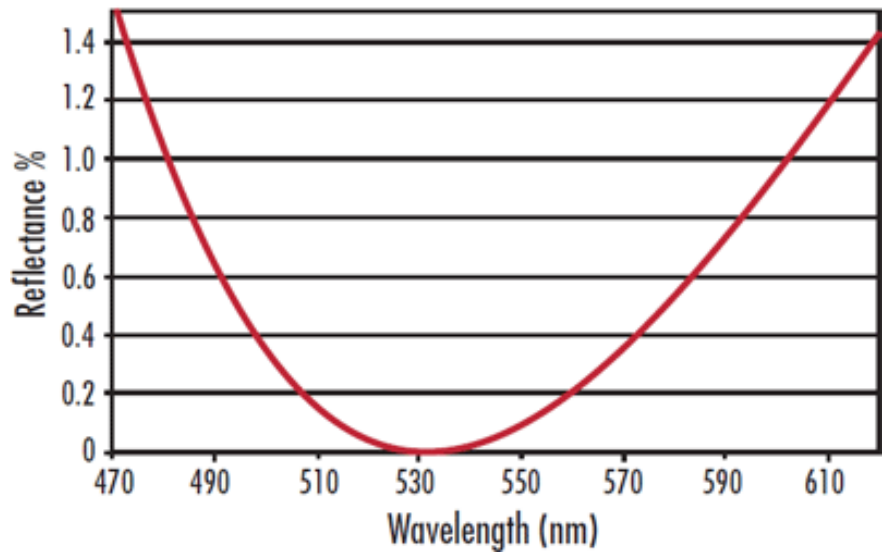
- Guaranteed Laser Damage Threshold
- 10-5 Surface Quality
- λ/10 Surface Accuracy

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.

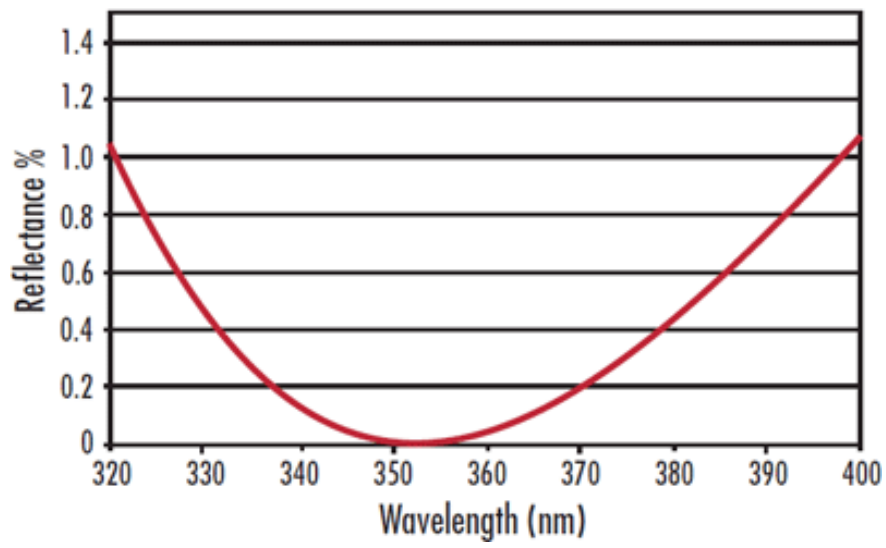


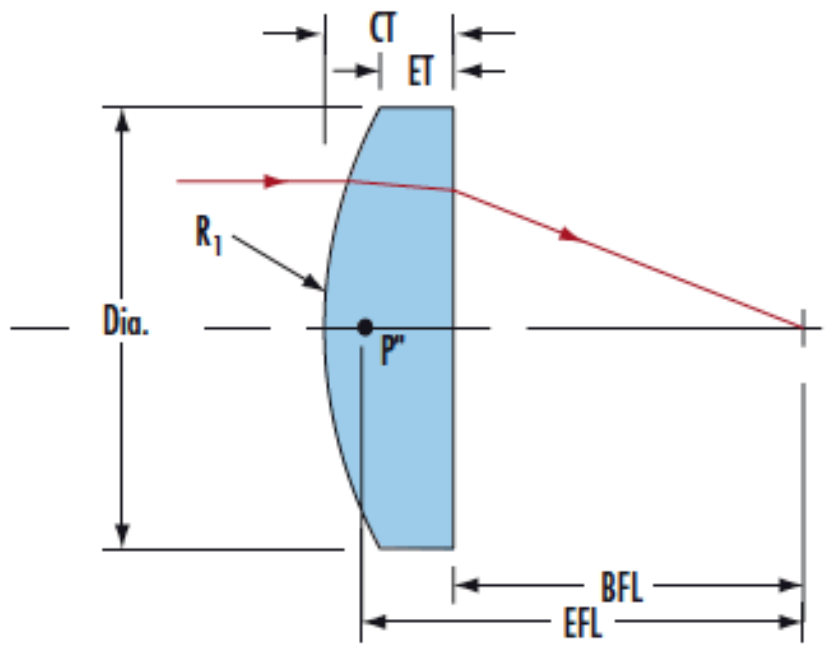
TECHNICAL INFORMATION

532nm V-Coat
$R_{(abs)}$ <0.25% @ 532nm

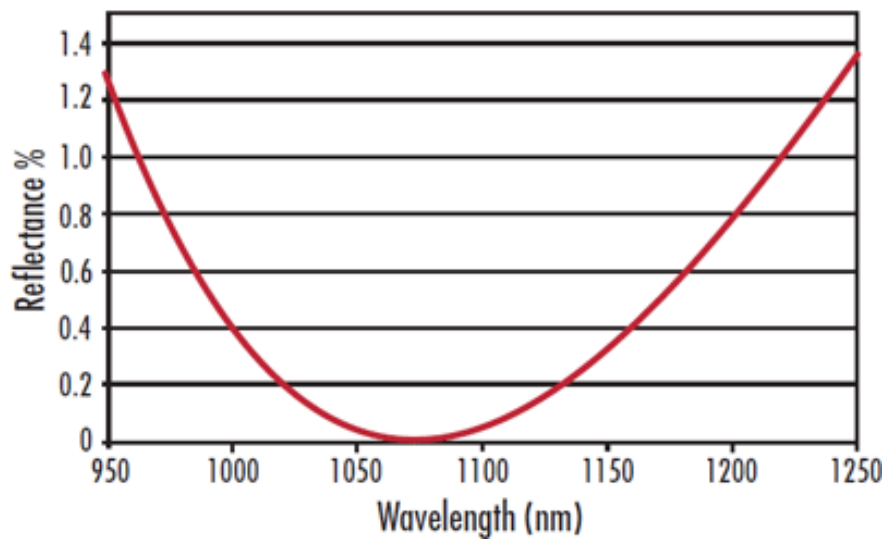


355nm V-Coat
$R_{(abs)}$ <0.25% @ 355nm





1064nm V-Coat
$R_{(abs)}$ <0.25% @ 1064nm



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.**