

TECHSPEC<sup>®</sup> 12mm Diameter x 18mm FL, 355nm Coated, Laser Grade PCX Lens



TECHSPEC Laser Grade PCXLenses

Stock **#67-949 7 In Stock**  
[Other Coating Options](#)

-

1

+

S\$291<sup>20</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | <b>S\$291.20</b> each         |
| Qty 6-25       | <b>S\$232.40</b> each         |
| Qty 26-49      | <b>S\$215.60</b> each         |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

General

Type:

Plano-ConvexLens

Physical & Mechanical Properties

Diameter (mm):

12.00 +0.00/-0.10

Centering (arcmin):

|                                 |                                  |
|---------------------------------|----------------------------------|
| <1                              |                                  |
| 4.00 ±0.05                      | Center Thickness CT (mm):        |
| 1.41                            | Edge Thickness ET (mm):          |
| 10.2                            | Clear Aperture CA (mm):          |
| Protective as needed            | Bevel:                           |
| Optical Properties              |                                  |
| 18.00 @ 587.6nm                 | Effective Focal Length EFL (mm): |
| 15.23                           | Back Focal Length BFL (mm):      |
| Laser V-Coat (355nm)            | Coating:                         |
| R <sub>abs</sub> <0.25% @ 355nm | Coating Specification:           |
| Fused Silica (Corning 7980)     | Substrate: □                     |
| 20-10                           | Surface Quality:                 |
| λ                               | Power (P-V) @ 632.8nm:           |
| λ/10                            | Irregularity (P-V) @ 632.8nm:    |
| ±1                              | Focal Length Tolerance (%):      |
| 8.25                            | Radius R <sub>1</sub> (mm):      |
| 1.5                             | f/#:                             |
| 0.33                            | Numerical Aperture NA:           |
| 355                             | Design Wavelength DWL (nm):      |
| 7.5 J/cm² @ 355nm, 20ns, 20Hz   | Damage Threshold, By Design: □   |
| Regulatory Compliance           |                                  |
| Compliant                       | RoHS 2015:                       |
| Compliant                       | REACH 201:                       |
| View                            | Certificate of Conformance:      |

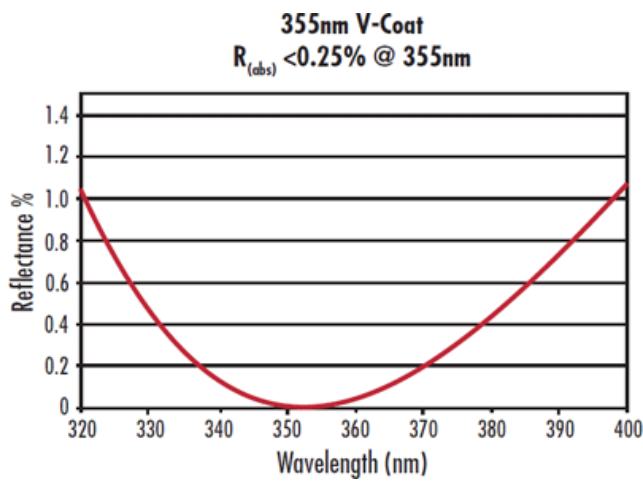
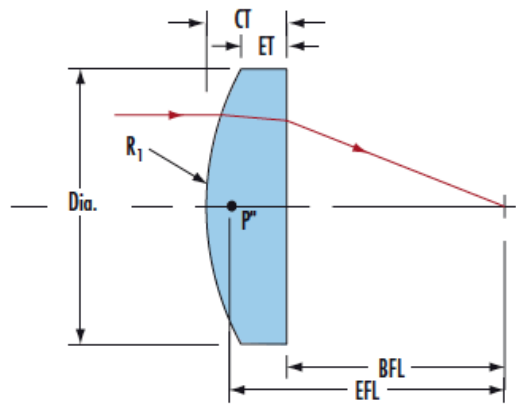
## Product Details

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

TECHSPEC® Laser Grade PCXLenses are designed for high energyNd: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 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:YAG laser 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