

TECHSPEC<sup>®</sup>

25mm H x 50mm L x -100mm FL VIS 0° Coated, Illumination Grade PCV Cylinder Lens



TECHSPEC<sup>®</sup> Illumination Grade PCV Cylinder Lenses

Stock **#69-809** [CONTACT US](#)

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+

C\$218<sup>.40</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | C\$218.40 each                |
| Qty 6-25       | C\$196.00 each                |
| Qty 26-49      | C\$186.20 each                |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

General

Type:

Cylinder Lens, Plano-Concave

Physical & Mechanical Properties

Center Thickness CT (mm):

4.00

Center Thickness Tolerance (mm):

|             |                             |
|-------------|-----------------------------|
| ±0.1        |                             |
| +0.0/-0.2   | Dimensional Tolerance (mm): |
| 25.0 x 50.0 | Dimensions (mm):            |
| 5.46        | Edge Thickness ET (mm):     |

Optical Properties

|                                      |                                                       |
|--------------------------------------|-------------------------------------------------------|
| -100.00                              | Effective Focal Length EFL (mm):                      |
| N-BK7                                | Substrate: <input type="checkbox"/>                   |
| VIS 0° (425-675nm)                   | Coating:                                              |
| 425 - 675                            | Wavelength Range (nm):                                |
| -102.64                              | Back Focal Length BFL (mm):                           |
| R <sub>avg</sub> ≤0.4% @ 425 - 675nm | Coating Specification:                                |
| ±3                                   | Focal Length Tolerance (%):                           |
| -51.68                               | Radius R <sub>1</sub> (mm):                           |
| 60-40                                | Surface Quality:                                      |
| 5 J/cm <sup>2</sup> @ 532nm, 10ns    | Damage Threshold, Reference: <input type="checkbox"/> |

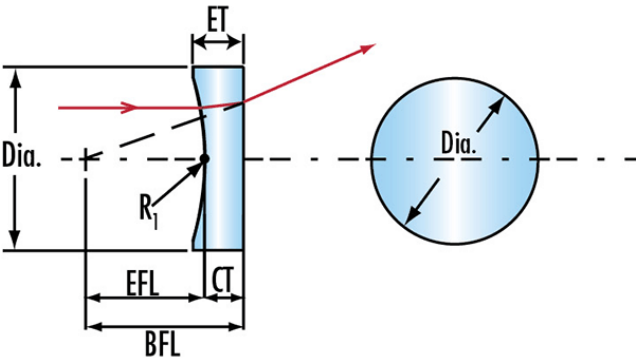
Regulatory Compliance

|           |                             |
|-----------|-----------------------------|
| Compliant | RoHS 2015:                  |
| View      | Certificate of Conformance: |
| Compliant | Reach 235:                  |

## Product Details

- Cylinder Lenses Ideal for 1 Dimensional Laser Beam Convergence
  - Circular and Rectangular Form Factors
  - Multiple Coating Options Available
- TECHSPEC® Illumination Grade PCV Cylinder Lenses are commonly used to turn a collimated laser source into a line generator. These PCV Cylinder Lenses and [TECHSPEC Illumination Grade PCX Cylinder Lenses](#) can be used together for beam expander applications.
- The thin lens approximation for the length of a line generated by a negative cylinder lens is:  $L = 2 * (r_0/f) * (z + f)$  where L is the line length,  $r_0$  is half the beam diameter, z is the projection distance, and -f is the focal length of the lens.

## Technical Information



## Coating Curves

## 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](#).

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