

TECHSPEC<sup>®</sup>

12.5mm H x 25mm L x -50mm FL NIR I Coated, Illumination Grade PCV Cylinder Lens



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

Stock **#69-819** **3 In Stock**

-

1

+

₹6,578

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | ₹6,578 each                   |
| Qty 6-25       | ₹5,917 each                   |
| Qty 26-49      | ₹5,605 each                   |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

General

Type:

Cylinder Lens, Plano-Concave

Physical & Mechanical Properties

Center Thickness CT (mm):

2.50

Center Thickness Tolerance (mm):

|             |                             |
|-------------|-----------------------------|
| ±0.1        |                             |
| +0.0/-0.2   | Dimensional Tolerance (mm): |
| 12.5 x 25.0 | Dimensions (mm):            |
| 3.19        | Edge Thickness ET (mm):     |

Optical Properties

|                                       |                                                       |
|---------------------------------------|-------------------------------------------------------|
| -50.00                                | Effective Focal Length EFL (mm):                      |
| N-BK7                                 | Substrate: <input type="checkbox"/>                   |
| NIR I (600-1050nm)                    | Coating:                                              |
| 600 - 1050                            | Wavelength Range (nm):                                |
| -51.65                                | Back Focal Length BFL (mm):                           |
| R <sub>avg</sub> ≤0.5% @ 600 - 1050nm | Coating Specification:                                |
| ±3                                    | Focal Length Tolerance (%):                           |
| -25.84                                | Radius R <sub>1</sub> (mm):                           |
| 60–40                                 | Surface Quality:                                      |
| 7 J/cm <sup>2</sup> @ 1064nm, 10ns    | Damage Threshold, By Design: <input type="checkbox"/> |

Regulatory Compliance

|                                     |                             |
|-------------------------------------|-----------------------------|
| Compliant                           | RoHS 2015:                  |
| View                                | Certificate of Conformance: |
| Compliant                           | Reach 235:                  |
| China                               | Country of Origin:          |
| Edmund Optics India Private Limited | Imported By:                |

## Product Details

• Cylinder Lenses Ideal for 1 Dimensional Laser Beam Convergence

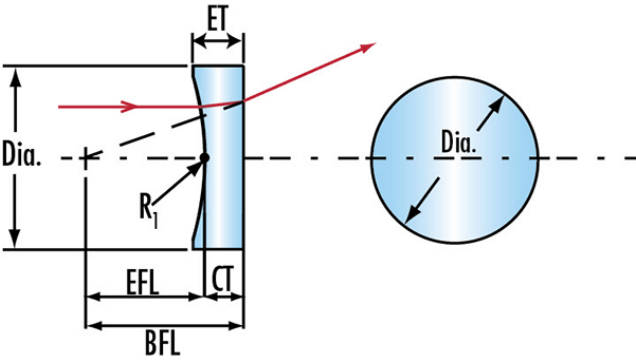
• Circular and Rectangular Form Factors

• 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



## 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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