

TECHSPEC<sup>®</sup> 6.25mm Dia x -50mm FL MgF<sub>2</sub> Coated, Illumination Grade PCV Cylinder Lens



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

Stock **#48-374** 1 In Stock

-

1

+

₹5,644

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | ₹5,644 each                   |
| Qty 6-25       | ₹5,099 each                   |
| Qty 26-49      | ₹4,827 each                   |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

SPECIFICATIONS

General

Cylinder Lens, Plano-Concave

Type:

Physical & Mechanical Properties

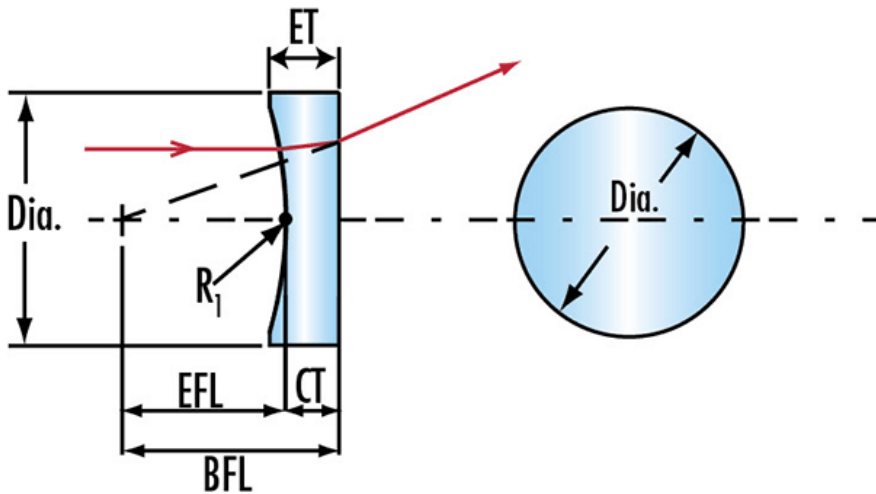
|                                        |                                                   |
|----------------------------------------|---------------------------------------------------|
| 6.25 +0.0/-0.2                         | Diameter (mm):                                    |
| 2.00                                   | Center Thickness CT (mm):                         |
| ±0.1                                   | Center Thickness Tolerance (mm):                  |
| 2.19                                   | Edge Thickness ET (mm):                           |
| Optical Properties                     |                                                   |
| -50.00                                 | Effective Focal Length EFL (mm):                  |
| N-BK7                                  | Substrate: <input type="text"/>                   |
| 8.00                                   | f#:                                               |
| 0.06                                   | Numerical Aperture NA:                            |
| MgF <sub>2</sub> (400-700nm)           | Coating:                                          |
| 400 - 700                              | Wavelength Range (nm):                            |
| -51.32                                 | Back Focal Length BFL (mm):                       |
| R <sub>avg</sub> ≤ 1.75% @ 400 - 700nm | Coating Specification:                            |
| ±3                                     | Focal Length Tolerance (%):                       |
| -25.84                                 | Radius R <sub>1</sub> (mm):                       |
| 60-40                                  | Surface Quality:                                  |
| 10 J/cm <sup>2</sup> @ 532nm, 10ns     | Damage Threshold, By Design: <input type="text"/> |
| 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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