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TECHSPEC[®]

25mm H x 50mm L x -150mm FL VIS 0° Coated, Illumination Grade PCV Cylinder Lens



TECHSPEC[®] Illumination Grade PCV Cylinder Lenses

Stock **#69-810** [CONTACT US](#)

-

1

+

S\$197^{.00}

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Volume Pricing	
Qty 1-5	S\$197.00 each
Qty 6-25	S\$177.00 each
Qty 26-49	S\$168.00 each
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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):
4.97	Edge Thickness ET (mm):

Optical Properties

-150.00	Effective Focal Length EFL (mm):
N-BK7	Substrate: ☐
VIS 0° (425-675nm)	Coating:
425 - 675	Wavelength Range (nm):
-152.64	Back Focal Length BFL (mm):
R _{avg} ≤0.4% @ 425 - 675nm	Coating Specification:
±3	Focal Length Tolerance (%):
-77.52	Radius R ₁ (mm):
60-40	Surface Quality:
5 J/cm ² @ 532nm, 10ns	Damage Threshold, Reference: ☐

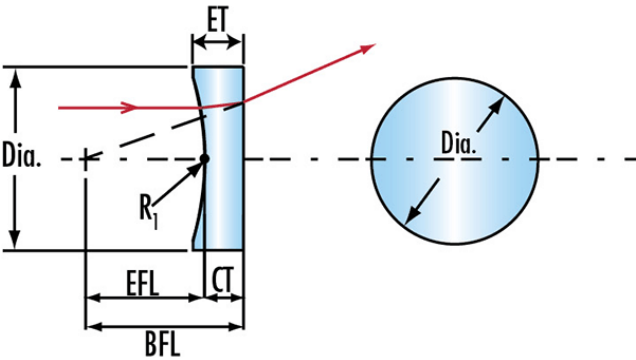
Regulatory Compliance

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](#).
