

TECHSPEC[®]

25mm H x 50mm L x -100mm FL MgF₂ Coated,Illumination Grade PCV Cylinder Lens



TECHSPEC[®] Illumination Grade PCV Cylinder Lenses

Stock **#68-083** 17 In Stock

-

1

+

S\$182^{.00}

ADD TO CART

Volume Pricing	
Qty 1-5	S\$182.00 each
Qty 6-25	S\$163.00 each
Qty 26-49	S\$155.00 each
Need More?	Request Quote

Product Downloads

General

Cylinder Lens, Plano-Concave

Type:

Physical & Mechanical Properties

4.00

Center Thickness CT (mm):

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: ☐
MgF ₂ (400-700nm)	Coating:
400 - 700	Wavelength Range (nm):
-102.64	Back Focal Length BFL (mm):
R _{avg} ≤1.75% @ 400 - 700nm	Coating Specification:
±3	Focal Length Tolerance (%):
-51.68	Radius R ₁ (mm):
60-40	Surface Quality:
10 J/cm ² @ 532nm, 10ns	Damage Threshold, By Design: ☐

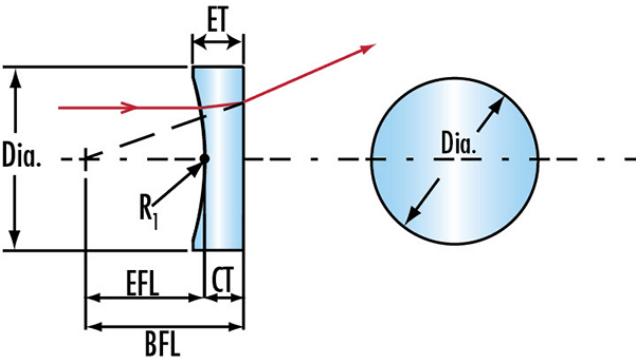
Regulatory Compliance

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](#).
