See all 105 Products in Family

TECHSPEC®

25mm H x 50mm L x -50mm FL MgF_2 Coated, Illumination Grade PCV Cylinder Lens

TECHSPEC® Illumination Grade PCV Cylinder Lenses

Stock **#68-081** **8 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

Type:

Cylinder Lens, Plano-Concave

Physical & Mechanical Properties

Center Thickness CT (mm):

4.00

Center Thickness Tolerance (mm):

±0.1

Dimensional Tolerance (mm):
+0.0/-0.2

Dimensions (mm):
25.0 x 50.0

Edge Thickness ET (mm):
7.06

Optical Properties

Effective Focal Length EFL (mm):
-50.00

Substrate:
N-BK7

Coating:
MgF_2 (400-700nm)

Wavelength Range (nm):
400 - 700

Back Focal Length BFL (mm):
-52.64

Coating Specification:
R_{avg} ≤1.75% @ 400 - 700nm

Focal Length Tolerance (%):
±3

Radius R_1 (mm):
-25.84

Surface Quality:
60-40

Damage Threshold, By Design:
10 J/cm^2 @ 532nm, 10ns

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

Reach 235:
Compliant

Need different specs or modifications?

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.

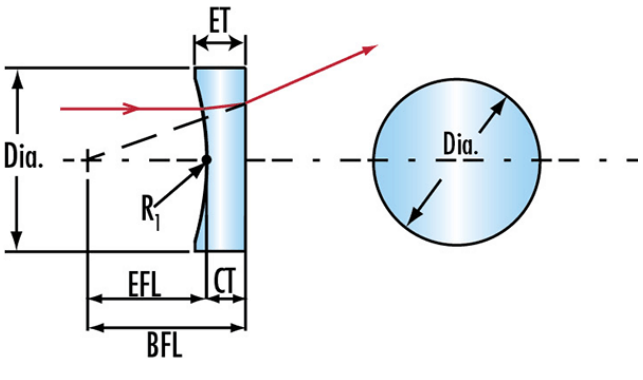
Product Details

- 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

;