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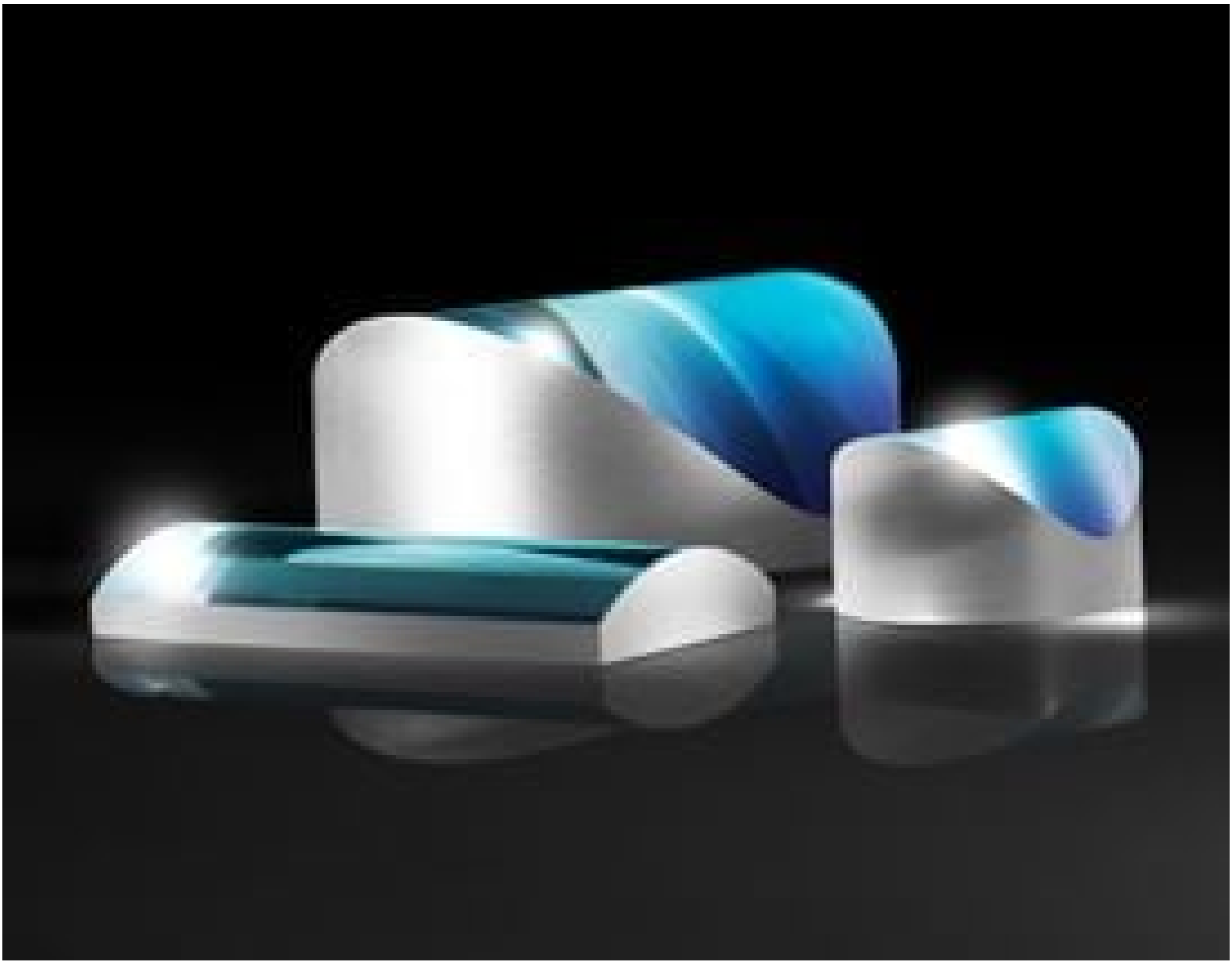
TECHSPEC®

12.5mm H x 25mm L x 20mm FL MgF_2 Coated,Illumination Grade PCX Cylinder Lens



Stock **#68-045** **1 In Stock**

- 1 + **C$122.50**

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Volume Pricing	
Qty 1-5	**C$122.50** each
Qty 6-25	**C$110.60** each
Qty 26-49	**C$105.00** each
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Product Downloads

General

Type:
Cylinder Lens, Plano-Convex

Physical & Mechanical Properties

Center Thickness CT (mm):
3.60

Center Thickness Tolerance (mm):
±0.1

Dimensional Tolerance (mm):
+0.0/-0.2

Dimensions (mm):
12.5 x 25.0

Edge Thickness ET (mm):
1.50

Optical Properties

Effective Focal Length EFL (mm):
20.00

Substrate:
N-BK7

f/#:
1.6

Numerical Aperture NA:
0.31

Coating:
MgF_2 (400-700nm)

Wavelength Range (nm):
400 - 700

Back Focal Length BFL (mm):
17.63

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

Focal Length Tolerance (%):
±3

Radius R_1 (mm):
10.34

Surface Quality:
60-40

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

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

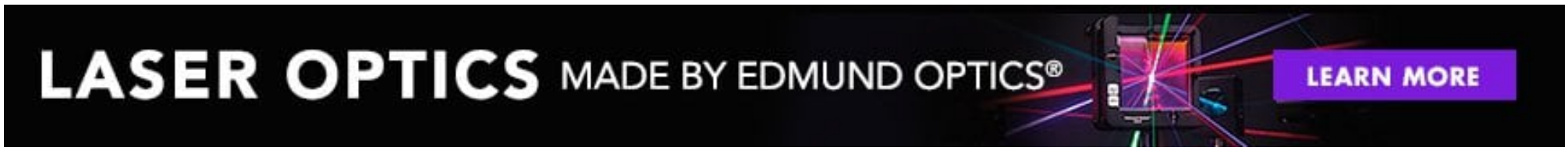
Reach 235:
Compliant

Product Details

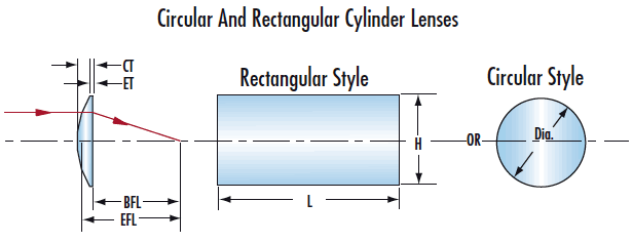
- N-BK7 Substrate for Broadband Performance
- Cost-Effective for OEM Integration
- Multiple Coating Options Available

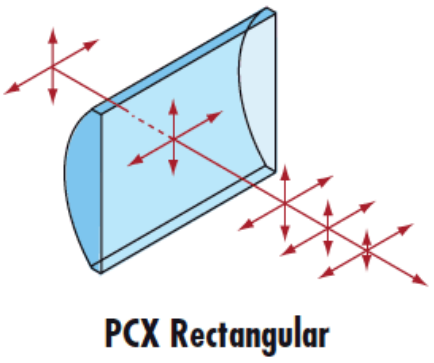
TECHSPEC® Illumination Grade PCX Cylinder Lenses are similar to Plano-Convex (PCX) lenses in profile, but include a portion of a cylinder instead of a sphere. These lenses focus light in one dimension and can transform a point of light into a line. TECHSPEC® Illumination Grade PCX Cylinder Lenses are available in circular and rectangular versions, along with multiple coating options. Cylinder lenses are ideal for line projection in machine vision applications or guidance systems.

Note: For negative focal length cylinder lenses, see our TECHSPEC® Illumination Grade PCV Cylinder Lenses.



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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