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**TECHSPEC®**

# 25mm Dia x 50mm FL MgF<sub>2</sub> Coated, Illumination Grade PCX Cylinder Lens


 Stock #48-358 **17 In Stock**

- 1 +

MRP ₹9,330

ⓘ Price inclusive of all taxes

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Volume Pricing	
Qty 1-5	₹9,330 each
Qty 6-25	₹8,369 each
Qty 26-49	₹7,936 each
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Product Downloads	
STEP:step	Curve:pdf
PDF Drawing:pdf	IGES:igs
Zemax:zar	Zemax:zmx
eDrawing:eprt	Code V:seq
EO Spec Sheet	<a href="#">Download All</a>

## General

**Type:** Cylinder Lens, Plano-Convex


## Physical & Mechanical Properties

<b>Diameter (mm):</b>	25.00	<b>Center Thickness CT (mm):</b>	4.24
<b>Center Thickness Tolerance (mm):</b>	±0.1	<b>Dimensional Tolerance (mm):</b>	+0.0/-0.2
<b>Edge Thickness ET (mm):</b>	1.03		

## Optical Properties

<b>Effective Focal Length EFL (mm):</b>	50.00	<b>Substrate:</b> ⓘ <b>N-BK7</b>	
<b>f/#:</b>	2	<b>Numerical Aperture NA:</b>	0.25
<b>Coating:</b>	MgF <sub>2</sub> (400-700nm)	<b>Wavelength Range (nm):</b>	400 - 700
<b>Back Focal Length BFL (mm):</b>	47.20	<b>Coating Specification:</b>	R <sub>avg</sub> ≤1.75% @ 400 - 700nm
<b>Focal Length Tolerance (%):</b>	±3	<b>Radius R<sub>1</sub> (mm):</b>	25.93

**Surface Quality:** 60-40

**Damage Threshold, By Design:** 10 J/cm<sup>2</sup> @ 532nm, 10ns 

## Regulatory Compliance

**RoHS 2015:** **Compliant**

**Reach 209:** **Compliant**

**Certificate of Conformance:** **View**

**Country of Origin:** China

**Imported By:** Edmund Optics India Private Limited  
267, Greystone Building,  
Second Floor,  
6th Cross Rd,  
Binnamangala,  
Stage 1,  
Indiranagar,  
Bengaluru,  
Karnataka,  
India 560038  
Phone: +91-80-6845 0000

## 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

- 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](#).

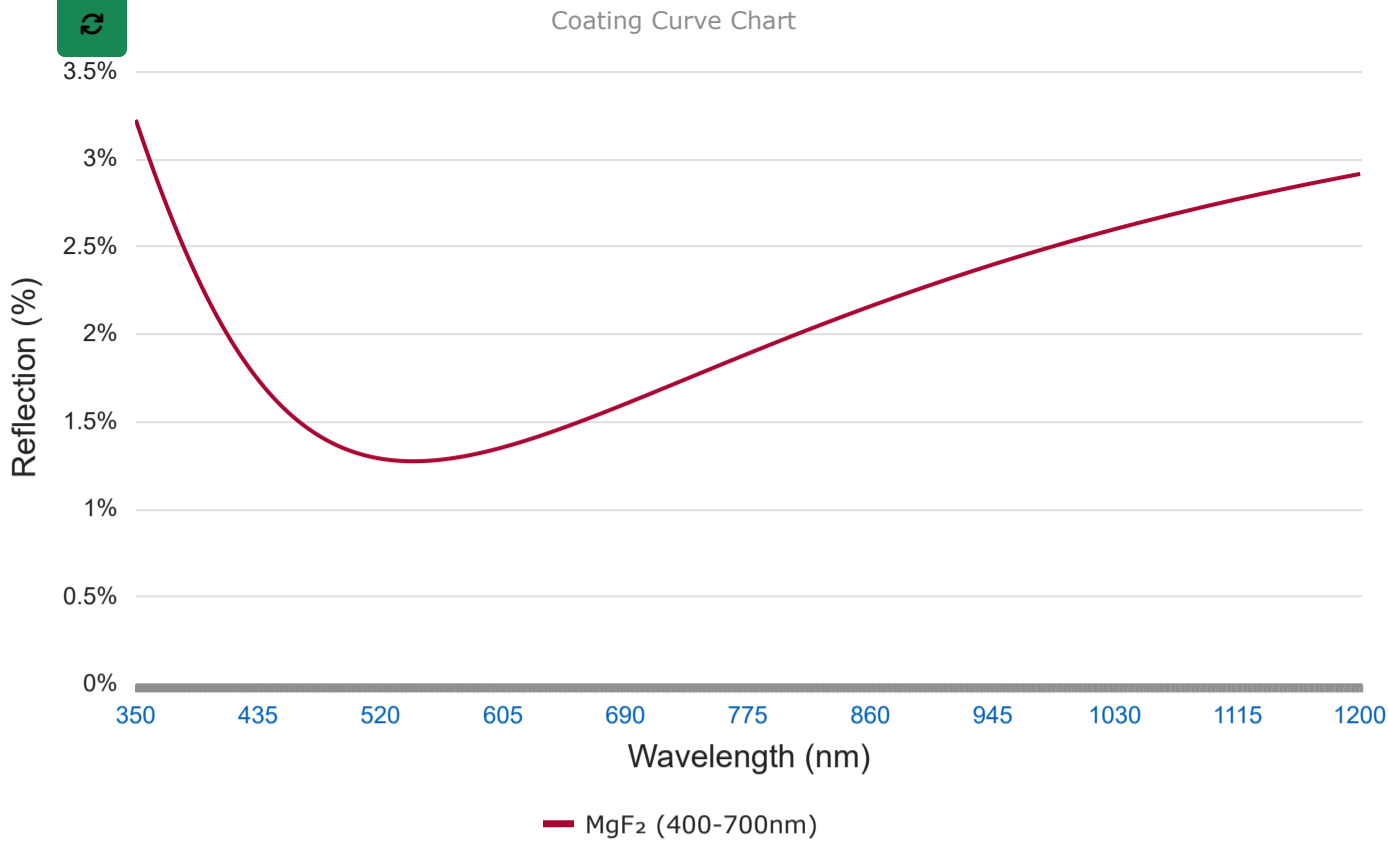
**LASER OPTICS** MADE BY EDMUND OPTICS®

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## Technical Information

## Coating Curves

MgF<sub>2</sub> (400-700nm)



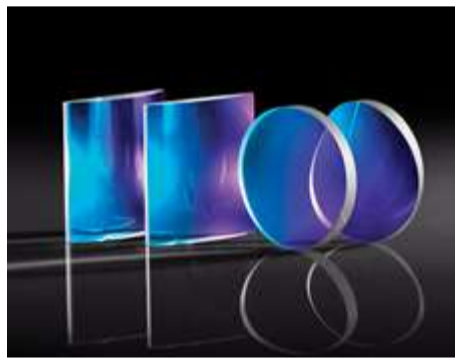
SHIFT + SELECT an area on CURVE to zoom

Please note that coating performance outside each product's specified design range is theoretical and may vary.

### Related Products



Illumination Grade PCV Cylinder Lenses



Imaging Grade PCX Cylinder Lenses



Laser Grade Laser Line Cylinder Lenses



Laser Grade Broadband Cylinder Lenses

### Frequently Purchased Together



#01-307 - 25,400 Lines/Inch, 2" Square Card, 15/Pack, Holographic Diffraction Grating Film  
₹2,876

Qty



#32-327 - 25mm Dia. x 100mm FL, MgF<sub>2</sub> Coated, Achromatic Doublet Lens  
₹12,309

Qty



#35-111 - 20mm Max. Aperture, Iris Diaphragm  
₹5,751

Qty



#38-257 - 2" x 2" Positive, USAF 1951 Resolution Target  
₹23,152

Qty

## Resources

**Media Type**

- Application Note
- Trending in Optics
- Published Article
- FAQ
- Glossary
- Video

**APPLICATION NOTE**

### Anti-Reflection (AR) Coatings

**APPLICATION NOTE**

### Laser Beam Shaping Overview

**TRENDING IN OPTICS**

### Non-Circular Optics for System Miniaturization

**APPLICATION NOTE**

### What are Cylinder Lenses?

**APPLICATION NOTE**

### Considerations When Using Cylinder Lenses

**PUBLISHED ARTICLE**

### Cylinder Lenses for Beam Shaping

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