

100mm Dia x 300mm Focal Length, MgF₂ Coated, PCX Condenser Lens



Stock #19-906 [CONTACT US](#)

1 C\$303^{.80}

ADD TO CART

Volume Pricing	
Qty 1-10	C\$303.80 each
Qty 11-49	C\$274.40 each
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Product Downloads	
STEP:step	PDF Drawing:pdf
IGES:igs	Zemax:zar
Zemax:zmx	eDrawing:eprt
Code V:seq	EO Spec Sheet
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General

Type: Condenser Lens

Physical & Mechanical Properties

Diameter (mm): 100.00 +0.0/-0.5	Center Thickness CT (mm): 12.50
Edge Thickness ET (mm): 4.21	Clear Aperture CA (mm): 97
Bevel: Protective as needed	

Optical Properties

Effective Focal Length EFL (mm): 300.00 @ 587.6nm	Back Focal Length BFL (mm): 291.00
Coating: MgF ₂ (400-700nm)	Coating Specification: R _{avg} ≤1.75% @ 400 - 700nm
Substrate: N-BK7	Surface Quality: 120-80
Radius R₁ (mm): 155.00	f/#: 3
Numerical Aperture NA: 0.17	Wavelength Range (nm): 400 - 700

Regulatory Compliance

RoHS 2015: Compliant	Certificate of Conformance: View
Reach 235: Compliant	

Product Details

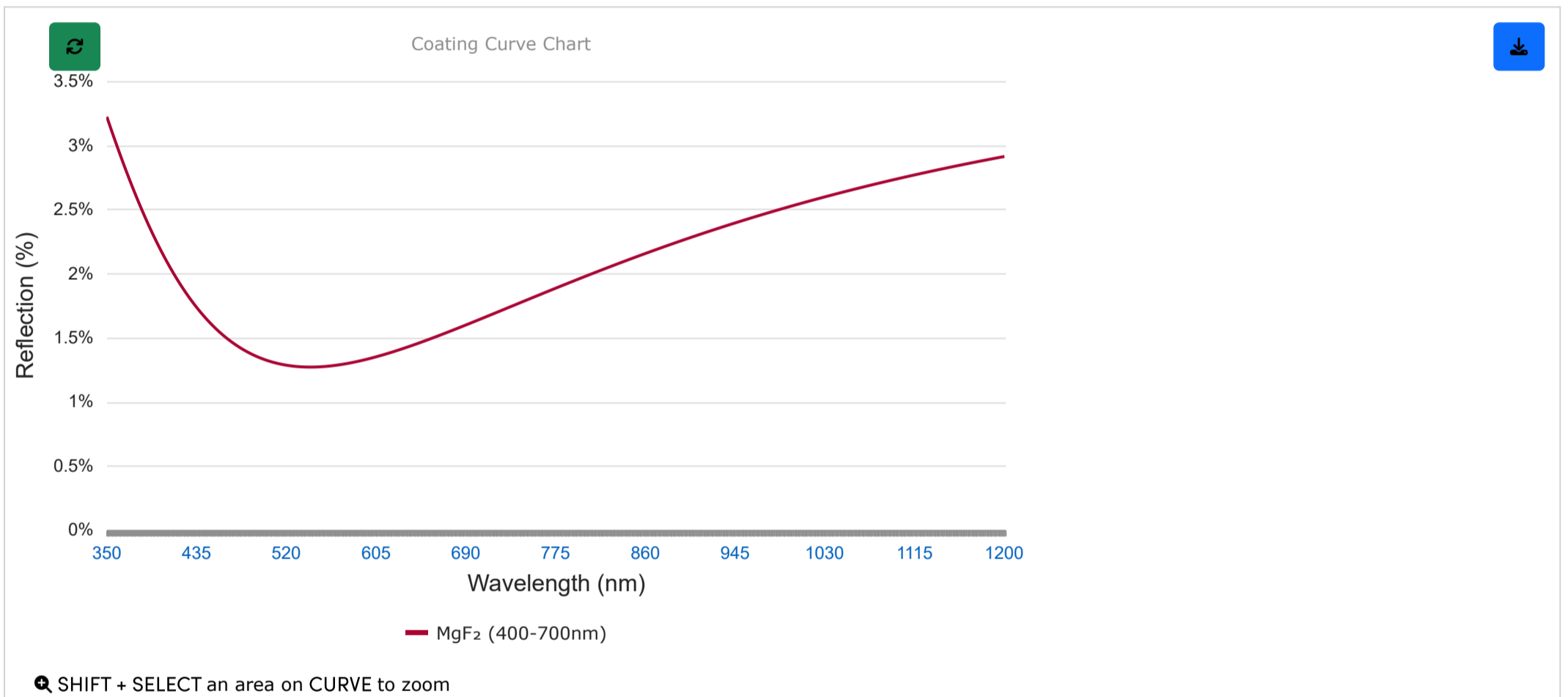
- Large Sizes Available – 100 to 250mm Diameter
- Polished Surfaces for Superior Precision vs. Cast Optics
- Wavelength Range of 350-2200nm

Large PCX Condenser Lenses are condenser lenses that concentrate light into a projected beam. They are used in projectors, enlargers, spotlights, and other projection and illumination applications. Our large condensers are available in sizes not available in our standard PCX lenses and are available in a variety of focal lengths. Combine two condenser lenses of the same focal length to produce a system with half the focal length of a single lens. Large PCX Condenser Lenses are available uncoated or with a MgF2 coating. These lenses feature a N-BK7 substrate and are offered in diameters ranging from 100 to 250mm.

Technical Information

Coating Curves

MgF₂ (400-700nm)



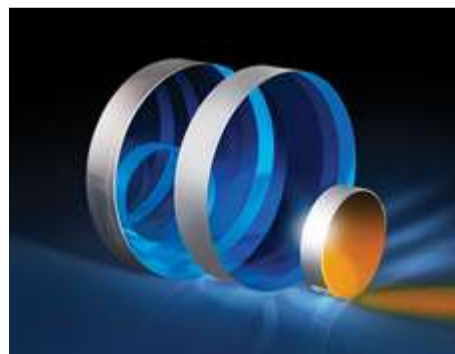
Please note that coating performance outside each product's specified design range is theoretical and may vary.

Frequently Purchased Together



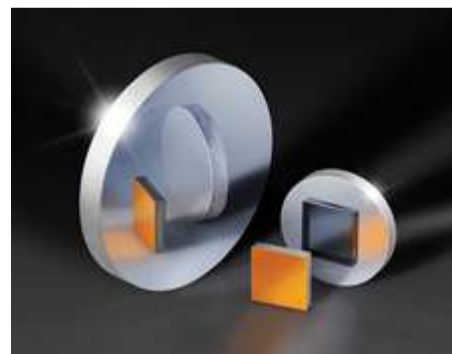
#03-676 – 7.0 – 40.0 Optic Height,
English Bar-Type Optic Holder
C\$148.40

Qty



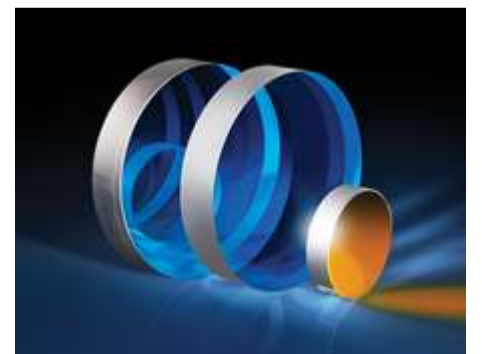
#31-393-577 – 6" Dia. Protected
Silver, $\lambda/10$ Flat ZERODUR®
C\$3,479.00

Qty



#34-393 – 25 x 25mm Protected
Silver, $\lambda/20$ Mirror
C\$298.20

Qty



#43-412-522 – 1" Dia. Protected
Aluminum, $\lambda/20$ Flat ZERODUR®
C\$336.00

Qty



Resources

Media Type

- Application Note
- Technical Tool
- Trending in Optics
- FAQ
- Glossary
- Video

APPLICATION NOTE

Anti-Reflection
(AR) Coatings

APPLICATION NOTE

An
Introduction to
Optical
Coatings

APPLICATION NOTE

Understanding
Optical
Specifications

APPLICATION NOTE

Lens Geometry
Performance
Comparison

TECHNICAL TOOL

SAG Calculator

TRENDING IN OPTICS

Future of
Spherical
Lenses

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