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50.8mm Dia. x 100mm FL, Uncoated, ISP Optics Zinc Selenide (ZnSe) PCX Lens | ZC-PX-50-100

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Zinc Selenide Plano-Convex (PCX) Lenses



Stock #24-961 **CLEARANCE** 1 In Stock

1 **\$714⁰⁰**

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General

Plano-Convex Lens **Type:**

ZC-PX-50-100 **Model Number:**

Physical & Mechanical Properties

50.80 +0.00/-0.13	Diameter (mm):
Protective as needed	Bevel:
4.80 ±0.20	Center Thickness CT (mm):
<3	Centering (arcmin):
45.72	Clear Aperture CA (mm):
2.50	Edge Thickness ET (mm):

Optical Properties

100.00 @ 10.6µm	Effective Focal Length EFL (mm):
Zinc Selenide (ZnSe), CVD Grade	Substrate: <input type="checkbox"/>
1.97	f#:
0.25	Numerical Aperture NA:
Uncoated	Coating:
600 - 18000	Wavelength Range (nm):
97.78	Back Focal Length BFL (mm):
±2	Focal Length Tolerance (%):
139.96	Radius R₁ (mm):
60-40	Surface Quality:
λ/20	Irregularity (P-V) @ 10.6µm:

Regulatory Compliance

Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 240:

Product Details

- Low Dispersion and Absorption from 0.6 – 18µm
- High Resistance to Thermal Shock
- Uncoated or BBAR Coated for 8 – 12µm

ISP Optics Zinc Selenide (ZnSe) Plano-Convex (PCX) Lenses are ideal for focusing or collimation of light in the Mid-Wave Infrared (MMR) and Long-Wave Infrared (LWR) spectrum. Featuring low absorption and high resistance to thermal shock, ZnSe is widely used in high power CO₂ laser systems. ZnSe is not recommended for harsh environments as it is a relatively soft material that scratches easily, and only has a Knoop Hardness of 120. ISP Optics Zinc Selenide (ZnSe) Plano-Convex (PCX) Lenses are available either uncoated or Broadband Anti-Reflection (BBAR) coated for increased transmission from 8-12µm.

Note: Special care should be taken when handling Zinc Selenide as it is a toxic material. Always wear rubber or plastic gloves to avoid risk of contamination.

Special Handling

These optics require special handling to avoid damage and ensure long-term performance. Proper handling, cleaning, and storage are essential to maintain optical quality. Explore our [Optics Cleaning Resources](#) for step-by-step guides and best practices. For personalized assistance, [Email us](#) or [Chat](#) with our technical support team.



Component Handling Tools