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12.7mm Dia. x 25.4mm FL, 8-12µm AR Coated, ISP Optics Zinc Selenide (ZnSe) PCX Lens | AR812-ZC-PX-12-25

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Zinc Selenide Plano-Convex (PCX) Lenses



Stock #24-982 **CLEARANCE** 9 In Stock

⊖ 1 ⊕ €130⁰⁰

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Qty 1+	€130,00 each
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Product Downloads

General

Plano-Convex Lens **Type:**
AR812-ZC-PX-12-25 **Model Number:**

Physical & Mechanical Properties

12.70 +0.00/-0.13 **Diameter (mm):**

Protective as needed **Bevel:**

2.60 ±0.20 **Center Thickness CT (mm):**

<3 **Centering (arcmin):**

11.43 **Clear Aperture CA (mm):**

2.00 **Edge Thickness ET (mm):**

Optical Properties

25.40 @ 10.6µm **Effective Focal Length EFL (mm):**

Zinc Selenide (ZnSe), CVD Grade **Substrate:**

2.00 **f#:**

0.25 **Numerical Aperture NA:**

BBAR (8000-12000nm) **Coating:**

8000 - 12000 **Wavelength Range (nm):**

24.56 **Back Focal Length BFL (mm):**

R_{avg} <0.5% @ 8 - 12µm
R_{abs} <1% @ 8 - 12µm **Coating Specification:**

±2 **Focal Length Tolerance (%):**

35.97 **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 (LWIR) 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

