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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 **S\$173<sup>00</sup>**

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**General**

Plano-Convex Lens **Type:**

AR812-ZC-PX-12-25 **Model Number:**

**Physical & Mechanical Properties**

12.70 +0.00/-0.13	<b>Diameter (mm):</b>
Protective as needed	<b>Bevel:</b>
2.60 ±0.20	<b>Center Thickness CT (mm):</b>
<3	<b>Centering (arcmin):</b>
11.43	<b>Clear Aperture CA (mm):</b>
2.00	<b>Edge Thickness ET (mm):</b>

## Optical Properties

25.40 @ 10.6µm	<b>Effective Focal Length EFL (mm):</b>
Zinc Selenide (ZnSe), CVD Grade	<b>Substrate:</b> <input type="checkbox"/>
2.00	<b>f#:</b>
0.25	<b>Numerical Aperture NA:</b>
BBAR (8000-12000nm)	<b>Coating:</b>
8000 - 12000	<b>Wavelength Range (nm):</b>
24.56	<b>Back Focal Length BFL (mm):</b>
R <sub>avg</sub> <0.5% @ 8 - 12µm R <sub>abs</sub> <1% @ 8 - 12µm	<b>Coating Specification:</b>
±2	<b>Focal Length Tolerance (%):</b>
35.97	<b>Radius R<sub>1</sub> (mm):</b>
60-40	<b>Surface Quality:</b>
λ/20	<b>Irregularity (P-V) @ 10.6µm:</b>

## Regulatory Compliance

<a href="#">Compliant</a>	<b>RoHS 2015:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>
<a href="#">Compliant</a>	<b>Reach 240:</b>

## 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 (MMIR) and Long-Wave Infrared (LWIR) spectrum. Featuring low absorption and high resistance to thermal shock, ZnSe is widely used in high power CO<sub>2</sub> 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

