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38.1mm Dia. x 200mm FL, 8-12µm AR Coated, ISP Optics Zinc Selenide (ZnSe) PCX Lens | AR812-ZC-PX-38-200

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Zinc Selenide Plano-Convex (PCX) Lenses



Stock #24-999 **CLEARANCE** 2 In Stock

1 A\$561⁰⁰

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Volume Pricing

| | |
|------------|-------------------------------|
| Qty 1+ | A\$561.60 each |
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Product Downloads

General

Plano-Convex Lens **Type:**

AR812-ZC-PX-38-200 **Model Number:**

Physical & Mechanical Properties

| | |
|----------------------|----------------------------------|
| 38.10 +0.00/-0.13 | Diameter (mm): |
| Protective as needed | Bevel: |
| 2.60 ±0.20 | Center Thickness CT (mm): |
| <3 | Centering (arcmin): |
| 34.29 | Clear Aperture CA (mm): |
| 2.00 | Edge Thickness ET (mm): |

Optical Properties

| | |
|----------------------------------------------------------------------|--------------------------------------------|
| 200.00 @ 10.6µm | Effective Focal Length EFL (mm): |
| Zinc Selenide (ZnSe), CVD Grade | Substrate: <input type="checkbox"/> |
| 5.25 | f/#: |
| 0.10 | Numerical Aperture NA: |
| BBAR (8000-12000nm) | Coating: |
| 8000 - 12000 | Wavelength Range (nm): |
| 199.39 | Back Focal Length BFL (mm): |
| R _{avg} <0.5% @ 8 - 12µm R _{abs} <1% @ 8 - 12µm | Coating Specification: |
| ±2 | Focal Length Tolerance (%): |
| 281.20 | 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 (MMIR) 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

