

25.4mm Dia. x 500mm FL, 8-12μm AR Coated, ISP Optics Zinc Selenide (ZnSe) PCX Lens | AR812-ZC-PX-25-500

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Zinc Selenide Plano-Convex (PCX) Lenses



Stock **#24-992** **CLEARANCE** **1 In Stock**

-

1

+

€207<sup>95</sup>

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SPECIFICATIONS

General

|                                                                      |                                     |
|----------------------------------------------------------------------|-------------------------------------|
| Plano-Convex Lens                                                    | Type:                               |
| AR812-ZC-PX-25-500                                                   | Model Number:                       |
| Physical & Mechanical Properties                                     |                                     |
| 25.40 +0.00/-0.13                                                    | Diameter (mm):                      |
| Protective as needed                                                 | Bevel:                              |
| 2.10 ±0.20                                                           | Center Thickness CT (mm):           |
| <3                                                                   | Centering (arcmin):                 |
| 22.86                                                                | Clear Aperture CA (mm):             |
| 2.00                                                                 | Edge Thickness ET (mm):             |
| Optical Properties                                                   |                                     |
| 500.00 @ 10.6µm                                                      | Effective Focal Length EFL (mm):    |
| Zinc Selenide (ZnSe), CVD Grade                                      | Substrate: <input type="checkbox"/> |
| 19.69                                                                | f/#:                                |
| 0.03                                                                 | Numerical Aperture NA:              |
| BBAR (8000-12000nm)                                                  | Coating:                            |
| 8000 - 12000                                                         | Wavelength Range (nm):              |
| 496.87                                                               | Back Focal Length BFL (mm):         |
| R <sub>avg</sub> <0.5% @ 8 - 12µm<br>R <sub>abs</sub> <1% @ 8 - 12µm | Coating Specification:              |
| ±2                                                                   | Focal Length Tolerance (%):         |
| 698.17                                                               | Radius R <sub>1</sub> (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 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

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