

[See all 7 Products in Family](#)

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

See More by [ISP Optics](#)



Zinc Selenide Plano-Convex (PCX) Lenses



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

- 1 + MRP ₹13,164

Price inclusive of all taxes

ADD TO CART

Volume Pricing	
Qty 1+	₹13,164 each
Need More?	Request Quote

Product Downloads

General

Plano-Convex Lens **Type:**

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

Physical & Mechanical Properties

Physical & Mechanical Properties

Diameter (mm):
12.70 +0.00/-0.13

Bevel:
Protective as needed

Center Thickness CT (mm):
2.60 ±0.20

Centering (arcmin):
<3

Clear Aperture CA (mm):
11.43

Edge Thickness ET (mm):
2.00

Optical Properties

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

Substrate:
Zinc Selenide (ZnSe), CVD Grade

f#:
2.00

Numerical Aperture NA:
0.25

Coating:
BBAR (8000-12000nm)

Wavelength Range (nm):
8000 - 12000

Back Focal Length BFL (mm):
24.56

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

Focal Length Tolerance (%):
±2

Radius R₁ (mm):
35.97

Surface Quality:
60-40

Irregularity (P-V) @ 10.6µm:
λ/20

Regulatory Compliance

RoHS 2015:
[Compliant](#)

Certificate of Conformance:
[View](#)

Reach 240:
[Compliant](#)

Country of Origin:
Latvia

Imported By:
Edmund Optics India Private Limited
267, Greystone Building, Second Floor,
6th Cross Rd, Binnamangala,
Stage 1, Indiranagar, Bengaluru,
Karnataka, India 560038
Phone: +91- 80-6845 0000

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

;