

[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** **10 In Stock**

-

 1

+

A\$208⁰⁰

ADD TO CART

Volume Pricing	
Qty 1+	A\$208.00 each
Need More?	Request Quote

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 R ₁ (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