

50.8mm Dia. x 1000mm FL, 8-12μm AR Coated, ISP Optics Zinc Selenide (ZnSe) PCX Lens | AR812-ZC-PX-50-1000

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Zinc Selenide Plano-Convex (PCX) Lenses



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₹47,324

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SPECIFICATIONS

General

Type:

Plano-Convex Lens	
AR812-ZC-PX-50-1000	Model Number:
Physical & Mechanical Properties	
50.80 +0.00/-0.13	Diameter (mm):
Protective as needed	Bevel:
2.70 ±0.20	Center Thickness CT (mm):
<3	Centering (arcmin):
45.72	Clear Aperture CA (mm):
2.50	Edge Thickness ET (mm):
Optical Properties	
1,000.00 @ 10.6µm	Effective Focal Length EFL (mm):
Zinc Selenide (ZnSe), CVD Grade	Substrate: ☐
19.69	f/#:
0.03	Numerical Aperture NA:
BBAR (8000-12000nm)	Coating:
8000 - 12000	Wavelength Range (nm):
999.83	Back Focal Length BFL (mm):
R _{avg} <0.5% @ 8 - 12µm R _{abs} <1% @ 8 - 12µm	Coating Specification:
±2	Focal Length Tolerance (%):
1,404.00	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 (MWIR) 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
