

[See all 8 Products in Family](#)

# 25.4mm Dia. x 500mm FL, Uncoated, ISP Optics Calcium Fluoride (CaF<sub>2</sub>) PCX Lens | CF-PX-25-500

See More by [ISP Optics](#)



Stock #24-801 CLEARANCE **2 In Stock**

⊖ 1 ⊕ **A\$211<sup>20</sup>**

**ADD TO CART**

Volume Pricing	
Qty 1+	A\$211.20 each
Need More?	<a href="#">Request Quote</a>

Product Downloads

**General**

Plano-Convex Lens **Type:**  
CF-PX-25-500 **Model Number:**

**Physical & Mechanical Properties**

25.40 +0.00/-0.13 **Diameter (mm):**

<3	<b>Centering (arcmin):</b>
2.40 ±0.20	<b>Center Thickness CT (mm):</b>
2.40	<b>Edge Thickness ET (mm):</b>
22.86	<b>Clear Aperture CA (mm):</b>
Protective as needed	<b>Bevel:</b>

## Optical Properties

500.00 @5µm	<b>Effective Focal Length EFL (mm):</b>
Uncoated	<b>Coating:</b>
Calcium Fluoride (CaF <sub>2</sub> )	<b>Substrate:</b> <input type="checkbox"/>
60-40	<b>Surface Quality:</b>
λ	<b>Irregularity (P-V) @ 632.8nm:</b>
±2	<b>Focal Length Tolerance (%):</b>
199.99	<b>Radius R<sub>1</sub> (mm):</b>
19.69	<b>f##:</b>
0.03	<b>Numerical Aperture NA:</b>
300 - 8000	<b>Wavelength Range (nm):</b>

## Regulatory Compliance

<a href="#">Compliant</a>	<b>RoHS 2015:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>
<a href="#">Compliant</a>	<b>Reach 240:</b>

## Product Details

- Greater than 90% Transmission from 0.35-7µm
- Low Index of Refraction
- Ideal for Integration into Infrared Systems

ISP Optics Calcium Fluoride Plano-Convex (PCX) Lenses provide greater than 90% transmission from 350nm to 7µm and feature a low refractive index, allowing them to be used without an Anti-Reflection (AR) coating. Calcium Fluoride features a high laser damage threshold and low stress birefringence, making them highly suitable for integration into infrared systems. Additionally, calcium fluoride features low solubility and offers superior hardness to comparable fluoride-based substrates, making these PCX lenses capable of withstanding harsh environments and exposure to the elements. ISP Optics Calcium Fluoride Plano-Convex (PCX) Lenses are ideal for demanding applications that require superior performance from the visible through the mid-wave infrared (MMR) spectra.

## 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