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# 38.1mm Dia. x 63.5mm FL, Uncoated, ISP Optics Calcium Fluoride (CaF<sub>2</sub>) PCX Lens | CF-PX-38-63

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Stock #24-805 CLEARANCE **1 In Stock**

⊖ 1 ⊕ C\$365<sup>00</sup>

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## Product Downloads

### General

Plano-Convex Lens **Type:**  
CF-PX-38-63 **Model Number:**

### Physical & Mechanical Properties

38.10 +0.00/-0.13 **Diameter (mm):**

<3	<b>Centering (arcmin):</b>
10.70 ±0.20	<b>Center Thickness CT (mm):</b>
10.70	<b>Edge Thickness ET (mm):</b>
34.29	<b>Clear Aperture CA (mm):</b>
Protective as needed	<b>Bevel:</b>

## Optical Properties

63.50 @ 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>
25.10	<b>Radius R<sub>1</sub> (mm):</b>
1.67	<b>f##:</b>
0.30	<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