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38.1mm Dia. x 50.8mm FL, Uncoated, ISP Optics Calcium Fluoride (CaF₂) PCX Lens | CF-PX-38-50

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Stock #24-804 CLEARANCE **4 In Stock**

⊖ 1 ⊕ **\$\$334⁹³**

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General

Plano-Convex Lens **Type:**
CF-PX-38-50 **Model Number:**

Physical & Mechanical Properties

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

<3	Centering (arcmin):
16.00 ±0.20	Center Thickness CT (mm):
16.00	Edge Thickness ET (mm):
34.29	Clear Aperture CA (mm):
Protective as needed	Bevel:

Optical Properties

50.00 @ 5μm	Effective Focal Length EFL (mm):
Uncoated	Coating:
Calcium Fluoride (CaF ₂)	Substrate: <input type="checkbox"/>
60-40	Surface Quality:
λ	Irregularity (P-V) @ 632.8nm:
±2	Focal Length Tolerance (%):
20.00	Radius R₁ (mm):
1.31	f#:
0.38	Numerical Aperture NA:
300 - 8000	Wavelength Range (nm):

Regulatory Compliance

Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 240:

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