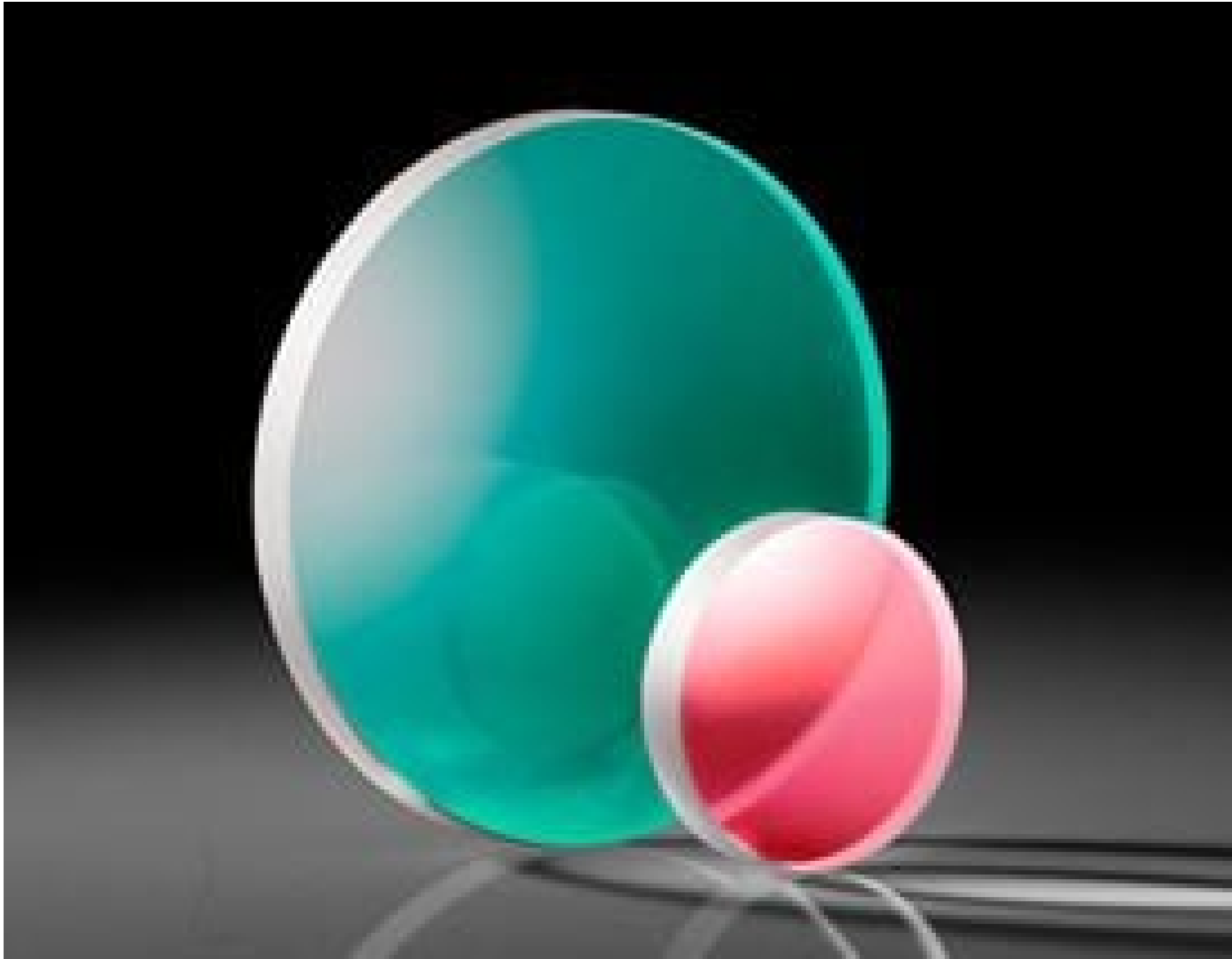


38.1mm Dia. x 63.5mm FL, Uncoated, ISP Optics Calcium Fluoride (CaF<sub>2</sub>) PCX Lens | CF-PX-38-63

See More by [ISP Optics](#)



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

-

1

+

€261<sup>00</sup>

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| Volume Pricing |                               |
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| Qty 1+         | €261,00 each                  |
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Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:  
Plano-Convex Lens

Model Number:  
CF-PX-38-63

Physical & Mechanical Properties

Diameter (mm):

|                      |                           |
|----------------------|---------------------------|
| 38.10 +0.00/-0.13    |                           |
| <3                   | Centering (arcmin):       |
| 10.70 ±0.20          | Center Thickness CT (mm): |
| 10.70                | Edge Thickness ET (mm):   |
| 34.29                | Clear Aperture CA (mm):   |
| Protective as needed | Bevel:                    |

|                                      |                                     |
|--------------------------------------|-------------------------------------|
| Optical Properties                   |                                     |
| 63.50 @ 5µm                          | Effective Focal Length EFL (mm):    |
| Uncoated                             | Coating:                            |
| Calcium Fluoride (CaF <sub>2</sub> ) | Substrate: <input type="checkbox"/> |
| 60-40                                | Surface Quality:                    |
| λ                                    | Irregularity (P-V) @ 632.8nm:       |
| ±2                                   | Focal Length Tolerance (%):         |
| 25.10                                | Radius R <sub>1</sub> (mm):         |
| 1.67                                 | f/#:                                |
| 0.30                                 | 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