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38.1mm Dia. x 1000mm FL, Uncoated, ISP Optics Calcium Fluoride (CaF_2) PCX Lens | CF-PX-38-1000

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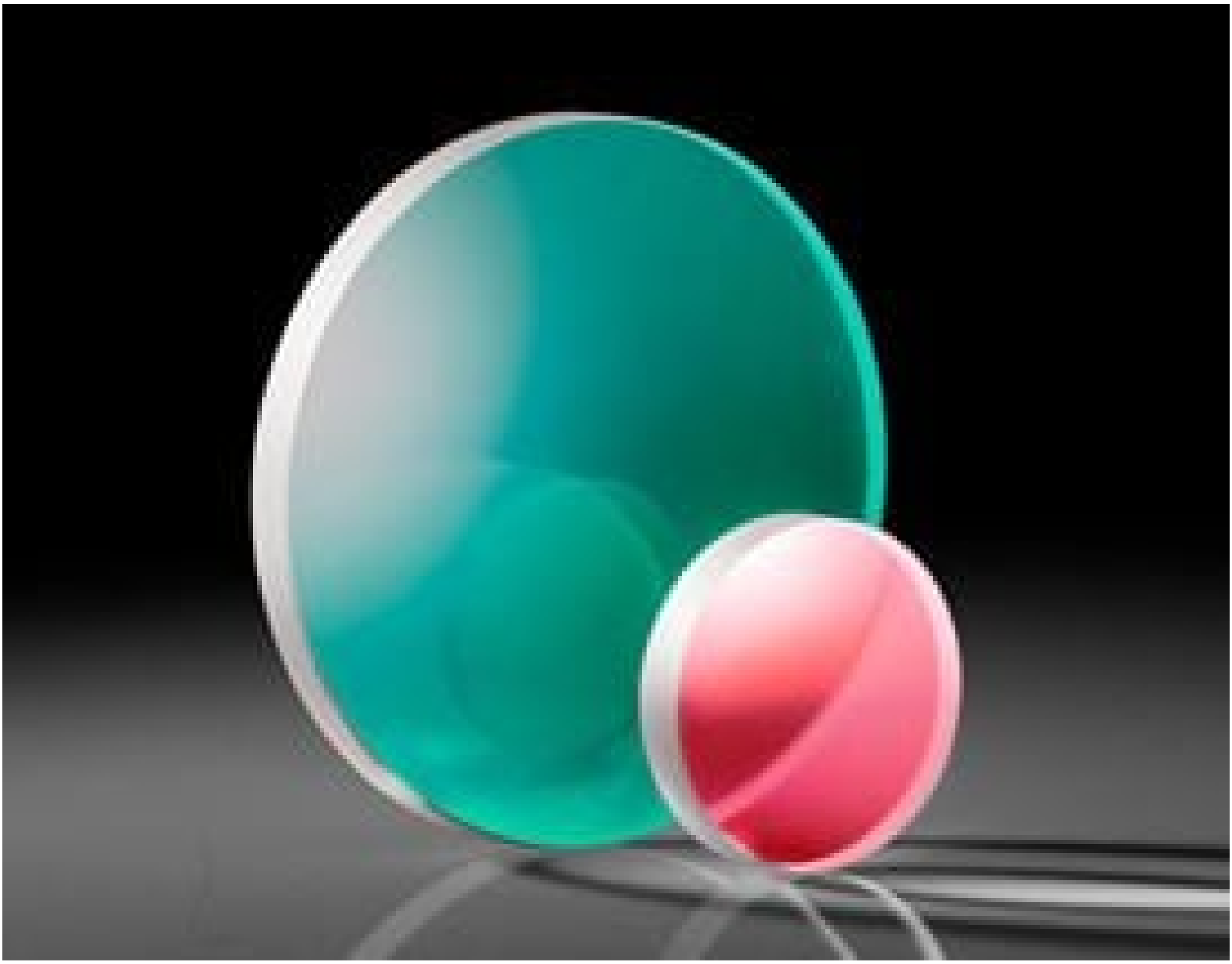

Stock **#24-811** CLEARANCE **1 In Stock**

- 1 + **€303**.00

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Qty 1+	**€303,00** each
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Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:
Plano-Convex Lens

Model Number:
CF-PX-38-1000

Physical & Mechanical Properties

Diameter (mm):

38.10 +0.00/-0.13

Centering (arcmin):

<3

Center Thickness CT (mm):

2.50 ±0.20

Edge Thickness ET (mm):

2.50

Clear Aperture CA (mm):

34.29

Bevel:

Protective as needed

Optical Properties

Effective Focal Length EFL (mm):

1,000.00 @ 5µm

Coating:

Uncoated

Substrate:

Calcium Fluoride (CaF_2)

Surface Quality:

60-40

Irregularity (P-V) @ 632.8nm:

λ

Focal Length Tolerance (%):

±2

Radius R_1 (mm):

399.90

f/#:

26.25

Numerical Aperture NA:

0.02

Wavelength Range (nm):

300 - 8000

Regulatory Compliance

RoHS 2015:

Compliant

Certificate of Conformance:

View

Reach 240:

Compliant

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 (MWIR) 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

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