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25.4mm Dia. x 1000mm FL, Uncoated, ISP Optics Calcium Fluoride (CaF_2) PCX Lens | CF-PX-25-1000

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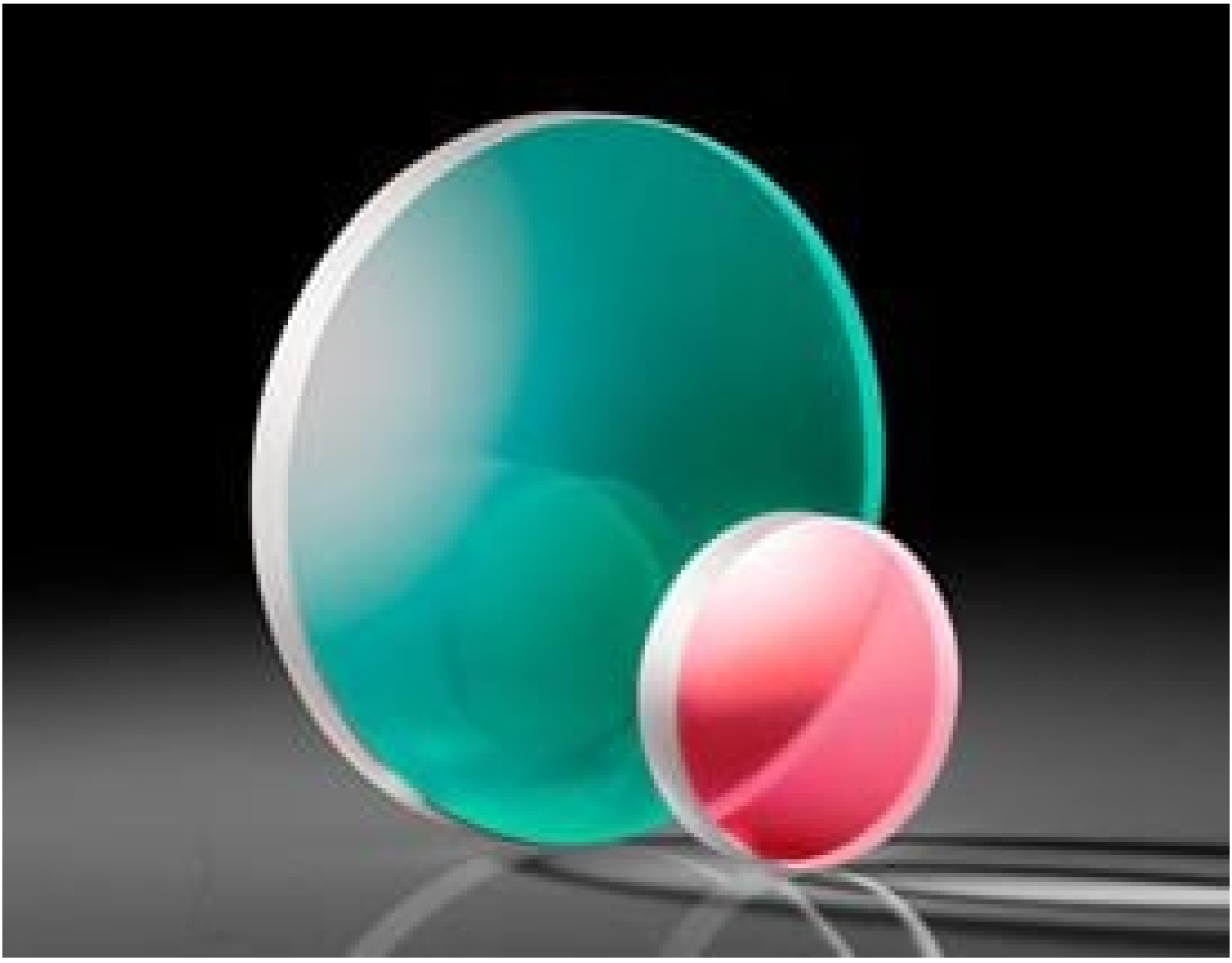

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- 1 + **C$170**.93

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General

Type:
Plano-Convex Lens

Model Number:
CF-PX-25-1000

Physical & Mechanical Properties

Diameter (mm):
25.40 +0.00/-0.13

Centering (arcmin):
<3

Center Thickness CT (mm):
2.20 ±0.20

Edge Thickness ET (mm):
2.20

Clear Aperture CA (mm):
22.86

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/#:
39.37

Numerical Aperture NA:
0.01

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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