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38.1mm Dia. x 50.8mm FL, Uncoated, ISP Optics Calcium Fluoride (CaF_2) DCX Lens | CF-BX-38-50

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Calcium Fluoride Double-Convex (DCX) Lenses

Stock #24-767 CLEARANCE 3 In Stock

- 1 + S$628.60

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Volume Pricing	
Qty 1-9	**S$628.60** each
Qty 10+	**S$565.60** each
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General

Type:
Double-Convex Lens

Model Number:
CF-BX-38-50

Physical & Mechanical Properties

Diameter (mm):
38.10 +0.00/-0.13

Centering (arcmin):
<3

Bevel:
Protective as needed

Center Thickness CT (mm):
12.50 ±0.20

Edge Thickness ET (mm):
2.50

Clear Aperture CA (mm):
34.29

Optical Properties

Effective Focal Length EFL (mm):
50.80 @ 5µm

Coating:
Uncoated

Substrate:
Calcium Fluoride (CaF_2)

Surface Quality:
60-40

Irregularity (P-V) @ 632.8nm:
λ

Radius R_1 (mm):
38.64

Radius R_2 (mm):
38.64

f/#:
1.33

Focal Length Tolerance (%):
±2

Numerical Aperture NA:
0.38

Wavelength Range (nm):
300 - 8000

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

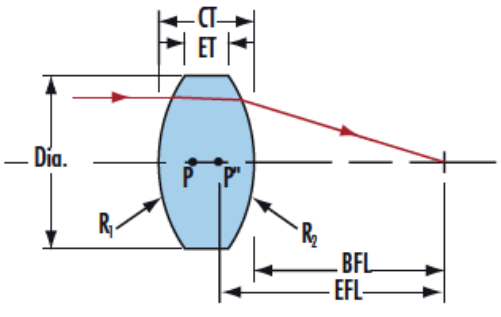
Reach 240:
Compliant

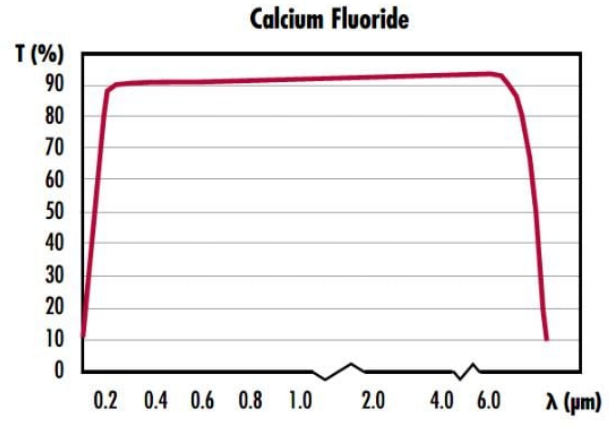
Product Details

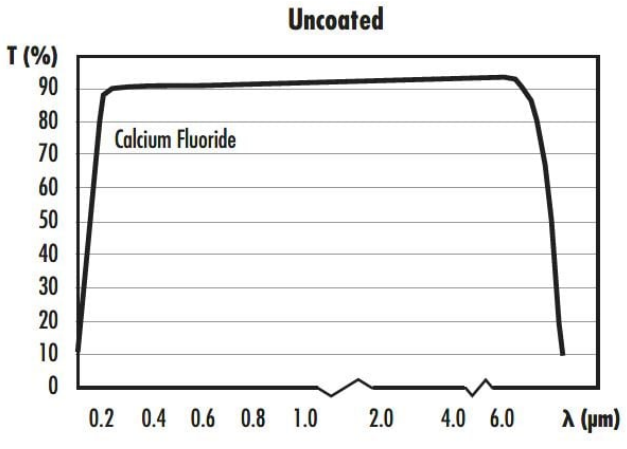
- Greater than 90% Transmission from 350nm-7µm
- Low Index of Refraction
- High Laser Damage Threshold

ISP Optics Calcium Fluoride Double-Convex (DCX) Lenses are ideal for finite imaging applications requiring high transmission in the infrared wavelength spectrum. Calcium Fluoride features greater than 90% transmission from 350nm to 7µm and a low refractive index, allowing it to be used without an antireflective coating. In addition, its low absorption and high damage threshold makes it a popular choice for use with excimer lasers. ISP Optics Calcium Fluoride Double-Convex (DCX) Lenses offer low solubility and superior hardness compared to other fluoride-based substrates, allowing for use in harsh environments.

Technical Information







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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