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# 38.1mm Dia. x 50.8mm FL, Uncoated, ISP Optics Calcium Fluoride (CaF<sub>2</sub>) DCX Lens | CF-BX-38-50

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Calcium Fluoride Double-Convex (DCX) Lenses

Stock **#24-767** CLEARANCE **3 In Stock**

1  **£359<sup>.20</sup>**

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#### Volume Pricing

Qty 1-9	£359.20 each
Qty 10+	£323.20 each
Need More?	<a href="#">Request Quote</a>

**!** Prices shown are exclusive of VAT/local taxes

#### Product Downloads

#### General

Double-Convex Lens **Type:**

CF-BX-38-50 **Model Number:**

#### Physical & Mechanical Properties

38.10 +0.00/-0.13	<b>Diameter (mm):</b>
<3	<b>Centering (arcmin):</b>
Protective as needed	<b>Bevel:</b>
12.50 ±0.20	<b>Center Thickness CT (mm):</b>
2.50	<b>Edge Thickness ET (mm):</b>
34.29	<b>Clear Aperture CA (mm):</b>

### Optical Properties

50.80 @5μm	<b>Effective Focal Length EFL (mm):</b>
Uncoated	<b>Coating:</b>
Calcium Fluoride (CaF <sub>2</sub> )	<b>Substrate:</b> <input type="checkbox"/>
60-40	<b>Surface Quality:</b>
λ	<b>Irregularity (P-V) @ 632.8nm:</b>
38.64	<b>Radius R<sub>1</sub> (mm):</b>
38.64	<b>Radius R<sub>2</sub> (mm):</b>
1.33	<b>f#:</b>
±2	<b>Focal Length Tolerance (%):</b>
0.38	<b>Numerical Aperture NA:</b>
300 - 8000	<b>Wavelength Range (nm):</b>

### Regulatory Compliance

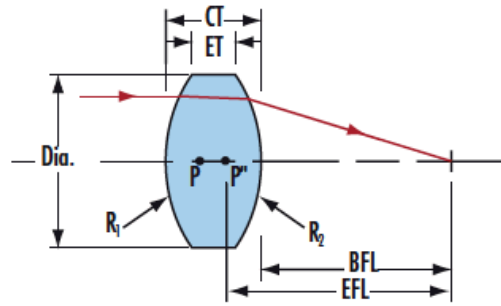
Compliant	<b>RoHS 2015:</b>
View	<b>Certificate of Conformance:</b>
Compliant	<b>Reach 240:</b>

### 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