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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

+

C\$628<sup>.60</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-9        | C\$628.60 each                |
| Qty 10+        | C\$565.60 each                |
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Product Downloads

| General                          |                    |
|----------------------------------|--------------------|
| Type:                            | Double-Convex Lens |
| Model Number:                    | CF-BX-38-50        |
| Physical & Mechanical Properties |                    |

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

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

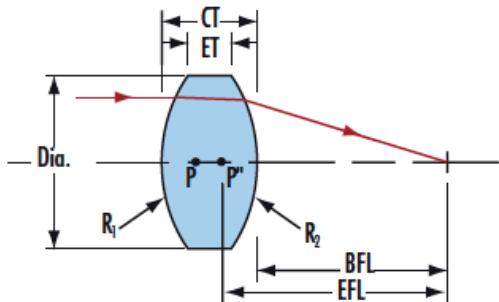
|                       |                             |
|-----------------------|-----------------------------|
| Regulatory Compliance |                             |
| Compliant             | RoHS 2015:                  |
| View                  | Certificate of Conformance: |
| Compliant             | Reach 240:                  |

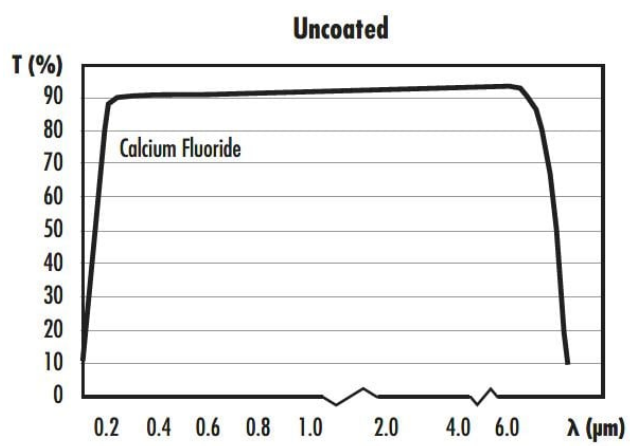
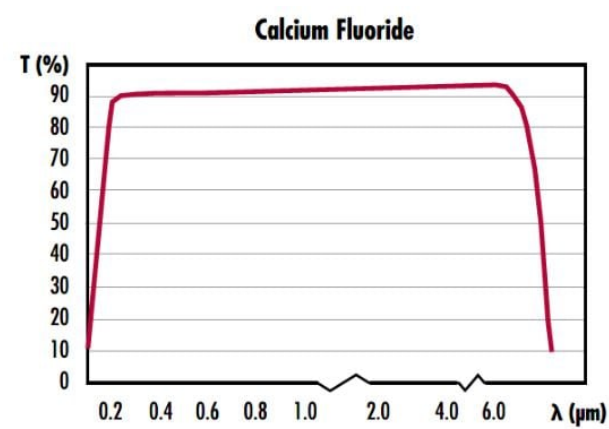
## Product Details

- Greater than 90% Transmission from 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