

[See all 4 Products in Family](#)

38.1mm Dia. x 50.8mm FL, Uncoated, ISP Optics Calcium Fluoride (CaF₂) DCX Lens | CF-BX-38-50

See More by [ISP Optics](#)



Calcium Fluoride Double-Convex (DCX) Lenses

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

⊖ 1 ⊕ A\$718⁴⁰

ADD TO CART

Volume Pricing	
Qty 1-9	A\$718.40 each
Qty 10+	A\$646.40 each
Need More?	Request Quote

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 ₂)	Substrate: <input type="checkbox"/>
60-40	Surface Quality:
λ	Irregularity (P-V) @ 632.8nm:
38.64	Radius R₁ (mm):
38.64	Radius R₂ (mm):
1.33	f#:
±2	Focal Length Tolerance (%):
0.38	Numerical Aperture NA:
300 - 8000	Wavelength Range (nm):

Regulatory Compliance

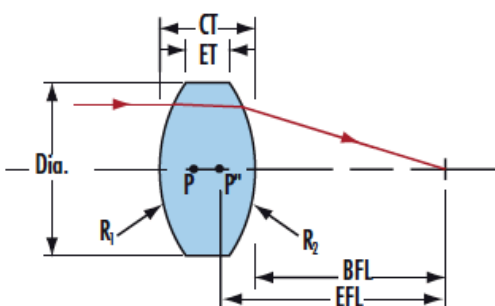
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 240:

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

;