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38.1mm Dia. x 63.5mm FL, Uncoated, ISP Optics Calcium Fluoride (CaF₂) DCX Lens | CF-BX-38-63

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Calcium Fluoride Double-Convex (DCX) Lenses

Stock **#24-768** CLEARANCE **7 In Stock**

⊖ 1 ⊕ **A\$718⁴⁰**

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| Volume Pricing | |
|----------------|-------------------------------|
| Qty 1-9 | A\$718.40 each |
| Qty 10+ | A\$646.40 each |
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Product Downloads

General

Type:
Double-Convex Lens

Model Number:
CF-BX-38-63

Physical & Mechanical Properties

| | |
|----------------------|----------------------------------|
| 38.10 +0.00/-0.13 | Diameter (mm): |
| <3 | Centering (arcmin): |
| Protective as needed | Bevel: |
| 10.20 ±0.20 | Center Thickness CT (mm): |
| 2.50 | Edge Thickness ET (mm): |
| 34.29 | Clear Aperture CA (mm): |

Optical Properties

| | |
|--------------------------------------|--|
| 63.50 @ 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: |
| 49.09 | Radius R₁ (mm): |
| 49.09 | Radius R₂ (mm): |
| 1.67 | f#: |
| ±2 | Focal Length Tolerance (%): |
| 0.30 | Numerical Aperture NA: |
| 300 - 8000 | Wavelength Range (nm): |

Regulatory Compliance

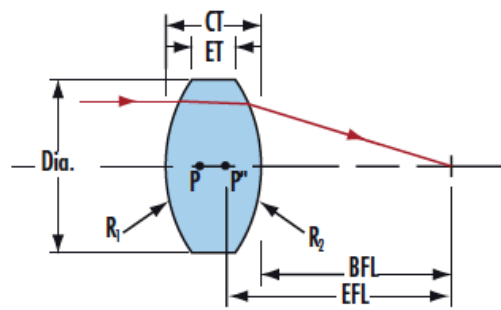
| | |
|-----------|------------------------------------|
| Compliant | RoHS 2015: |
| View | Certificate of Conformance: |
| Compliant | Reach 240: |

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