

[See all 4 Products in Family](#)

# 12.7mm Dia. x 25.4mm FL, Uncoated, ISP Optics Calcium Fluoride (CaF<sub>2</sub>) DCX Lens | CF-BX-12-25

See More by [ISP Optics](#)



Calcium Fluoride Double-Convex (DCX) Lenses

Stock **#24-763** CLEARANCE **1 In Stock**

⊖ 1 ⊕ **S\$204<sup>40</sup>**

**ADD TO CART**

Volume Pricing	
Qty 1-9	S\$204.40 each
Qty 10+	S\$184.80 each
Need More?	<a href="#">Request Quote</a>

Product Downloads

**General**

Double-Convex Lens **Type:**

CF-BX-12-25 **Model Number:**

**Physical & Mechanical Properties**

12.70 +0.00/-0.13	<b>Diameter (mm):</b>
<3	<b>Centering (arcmin):</b>
Protective as needed	<b>Bevel:</b>
3.60 ±0.20	<b>Center Thickness CT (mm):</b>
1.50	<b>Edge Thickness ET (mm):</b>
11.43	<b>Clear Aperture CA (mm):</b>

## Optical Properties

25.40 @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>
19.77	<b>Radius R<sub>1</sub> (mm):</b>
19.77	<b>Radius R<sub>2</sub> (mm):</b>
2.00	<b>f#:</b>
±2	<b>Focal Length Tolerance (%):</b>
0.25	<b>Numerical Aperture NA:</b>
300 - 8000	<b>Wavelength Range (nm):</b>

## Regulatory Compliance

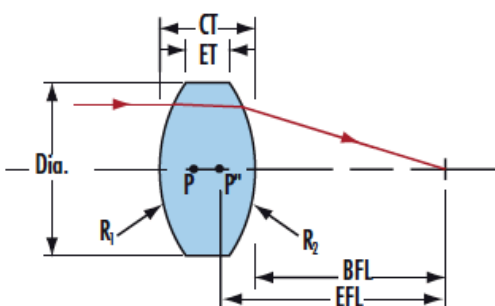
Compliant	<b>RoHS 2015:</b>
View	<b>Certificate of Conformance:</b>
Compliant	<b>Reach 240:</b>

## 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