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**TECHSPEC® 12.5mm Dia. x 25mm FL Uncoated Calcium Fluoride PCX Lens**



TECHSPEC Calcium Fluoride Plano-Convex (PCX) Lenses

Stock #88-161 [CONTACT US](#)

- 1 + **\$243<sup>00</sup>**

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Volume Pricing	
Qty 1-5	<b>\$243.60</b> each
Qty 6-25	<b>\$194.60</b> each
Qty 26-49	<b>\$182.00</b> each
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Product Downloads

**General**

Plano-Convex Lens **Type:**

**Physical & Mechanical Properties**

12.50 +0.00/-0.10 **Diameter (mm):**

<3 **Centering (arcmin):**

Center Thickness CT (mm):  
3.50 ±0.1

Edge Thickness ET (mm):  
1.66

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Clear Aperture CA (mm):  
11.25

Bevel:  
Protective as needed

### Optical Properties

Effective Focal Length EFL (mm):  
25.00 @266nm

Back Focal Length BFL (mm):  
22.61

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Coating:  
Uncoated

Substrate:   
Calcium Fluoride (CaF<sub>2</sub>)

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Surface Quality:  
40-20

Power (P-V) @ 632.8nm:  
λ

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Irregularity (P-V) @ 632.8nm:  
λ/2

Radius R<sub>1</sub> (mm):  
11.55

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f#:  
2.00

Numerical Aperture NA:  
0.25

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Wavelength Range (nm):  
200 - 7000

Axis Orientation:  
Random

### Regulatory Compliance

RoHS 2015:  
[Compliant](#)

Reach 219:  
[Compliant](#)

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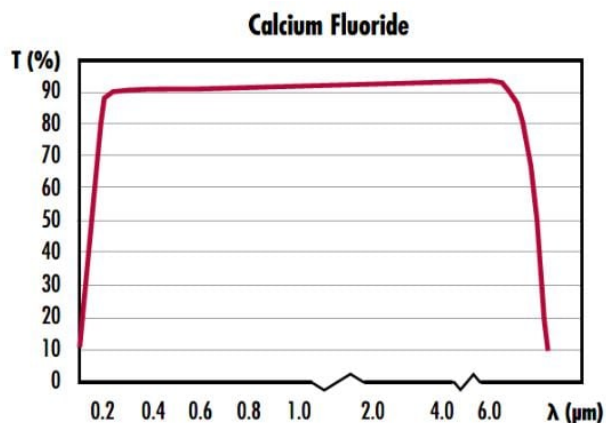
Certificate of Conformance:  
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## Product Details

- Low Index of Refraction
- Vacuum Grade UV Substrate
- Uncoated, VIS-NIR, and NIR II Broadband AR Coating Options

TECHSPEC® Calcium Fluoride Plano-Convex Lenses are ideal for demanding applications that require superior performance from the ultraviolet through the mid-wave infrared spectra. The lenses' low refractive index, high laser damage threshold, and low axial and radial-stress birefringence are highly suitable for use with Excimer lasers or for integration into infrared systems. Additionally, calcium fluoride features low solubility and offers superior hardness to comparable fluoride-based substrates, making these PCX lenses capable of withstanding harsh environments and exposure to the elements. TECHSPEC® Calcium Fluoride Plano-Convex Lenses are offered in 12.5mm, 25mm, and 50mm diameters. The lenses are available uncoated, VIS-NIR, or with NIR II broadband AR coating options.

## 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

## Compatible Mounts

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