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**TECHSPEC® 50mm Dia. x 75mm FL Uncoated Calcium Fluoride PCX Lens**



TECHSPEC Calcium Fluoride Plano-Convex (PCX) Lenses

Stock **#88-167** **9 In Stock**

⊖ 1 ⊕ C\$749<sup>00</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-5	C\$749.00 each
Qty 6-25	C\$597.80 each
Qty 26-49	C\$561.40 each
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Product Downloads

**General**

Plano-Convex Lens **Type:**

**Physical & Mechanical Properties**

50.00 +0.00/-0.10 **Diameter (mm):**

<3 **Centering (arcmin):**

12.50 ±0.1	<b>Center Thickness CT (mm):</b>
1.85	<b>Edge Thickness ET (mm):</b>
45	<b>Clear Aperture CA (mm):</b>
Protective as needed	<b>Bevel:</b>
<b>Optical Properties</b>	
75.00 @ 266nm	<b>Effective Focal Length EFL (mm):</b>
66.45	<b>Back Focal Length BFL (mm):</b>
Uncoated	<b>Coating:</b>
Calcium Fluoride (CaF <sub>2</sub> )	<b>Substrate:</b> <input type="checkbox"/>
40-20	<b>Surface Quality:</b>
λ	<b>Power (P-V) @ 632.8nm:</b>
3λ/2	<b>Irregularity (P-V) @ 632.8nm:</b>
34.66	<b>Radius R<sub>1</sub> (mm):</b>
1.5	<b>f#:</b>
0.33	<b>Numerical Aperture NA:</b>
200 - 7000	<b>Wavelength Range (nm):</b>
Random	<b>Axis Orientation:</b>

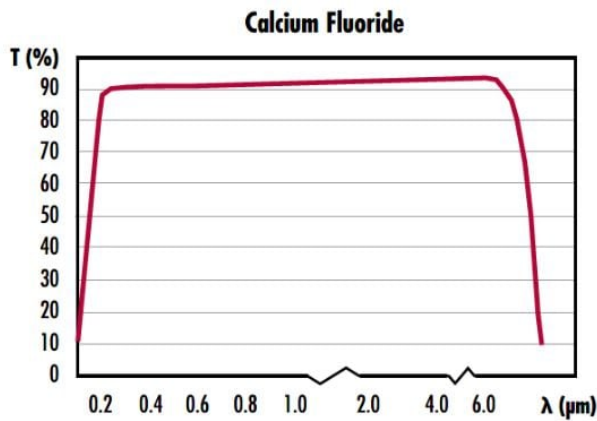
<b>Regulatory Compliance</b>	
<a href="#">Compliant</a>	<b>RoHS 2015:</b>
<a href="#">Compliant</a>	<b>Reach 219:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>

## 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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