

TECHSPEC<sup>®</sup> 50mm Dia. x 150mm FL VIS-NIR Coated Calcium Fluoride PCX Lens



TECHSPEC Calcium Fluoride Plano-Convex (PCX) Lenses

Stock **#22-524** **5 In Stock**

-

1

+

A\$928<sup>00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | A\$928.00 each                |
| Qty 6-25       | A\$740.80 each                |
| Qty 26-49      | A\$696.00 each                |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

| General                          |                     |
|----------------------------------|---------------------|
| Plano-Convex Lens                | Type:               |
| Physical & Mechanical Properties |                     |
| 50.00 +0.00/-0.10                | Diameter (mm):      |
| <3                               | Centering (arcmin): |

|                      |                           |
|----------------------|---------------------------|
| 7.00 ±0.1            | Center Thickness CT (mm): |
| 2.33                 | Edge Thickness ET (mm):   |
| 48                   | Clear Aperture CA (mm):   |
| Protective as needed | Bevel:                    |

|                                      |                                  |
|--------------------------------------|----------------------------------|
| Optical Properties                   |                                  |
| 150.00 @ 266nm                       | Effective Focal Length EFL (mm): |
| 145.21                               | Back Focal Length BFL (mm):      |
| VIS-NIR (400-1000nm)                 | Coating:                         |
| Calcium Fluoride (CaF <sub>2</sub> ) | Substrate: □                     |
| 40-20                                | Surface Quality:                 |
| λ                                    | Power (P-V) @ 632.8nm:           |
| 3λ/2                                 | Irregularity (P-V) @ 632.8nm:    |
| 69.31                                | Radius R <sub>1</sub> (mm):      |
| 3.00                                 | f/#:                             |
| 0.17                                 | Numerical Aperture NA:           |
| 200 - 7000                           | Wavelength Range (nm):           |
| Random                               | Axis Orientation:                |

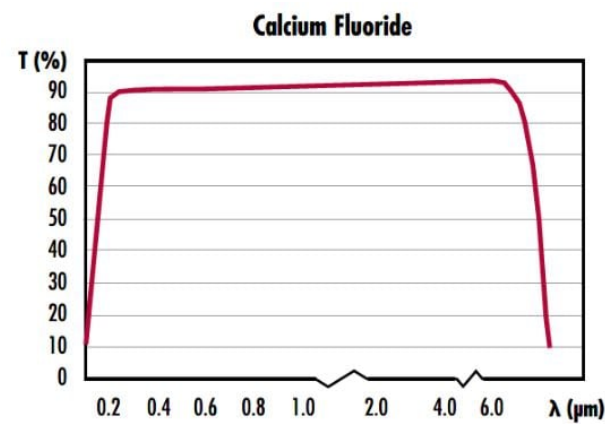
|                       |                             |
|-----------------------|-----------------------------|
| Regulatory Compliance |                             |
| Compliant             | RoHS 2015:                  |
| View                  | Certificate of Conformance: |
| Compliant             | Reach 235:                  |

## 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

## Coating Curves