

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



TECHSPEC Calcium Fluoride Plano-Convex (PCX) Lenses

Stock #88-161 3-4 DAYS

⊖ 1 ⊕ €159.<sup>00</sup>

**ADD TO CART**

Qty 1-5  
€159,00

Qty 6+  
€127,00

Volume Pricing

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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads



## SPECIFICATIONS

### General

Type:  
Plano-Convex Lens

## Physical & Mechanical Properties

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

**Centering (arcmin):**  
<3

**Center Thickness CT (mm):**  
3.50 ±0.1

**Edge Thickness ET (mm):**  
1.66

**Clear Aperture CA (mm):**  
11.25

**Bevel:**  
Protective bevel as needed

## Optical Properties

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

**Back Focal Length BFL (mm):**  
22.61

**Coating:**  
Uncoated

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

**Surface Quality:**  
40-20

**Power (P-V) @ 632.8nm:**  
λ

**Irregularity (P-V) @ 632.8nm:**  
λ/2

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

**f#:**  
2.00

**Numerical Aperture NA:**  
0.25

**Wavelength Range (nm):**  
200 - 7000

**Axis Orientation:**  
Random

## Regulatory Compliance

**RoHS 2015:**  
[Compliant](#)

**Reach 219:**  
[Compliant](#)

**Certificate of Conformance:**  
[View](#)

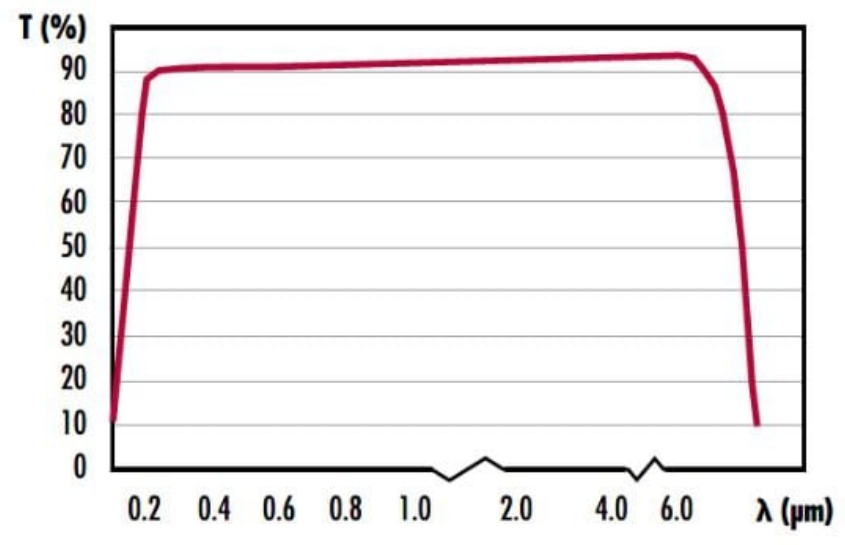
## PRODUCT DETAILS

- 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

### Calcium Fluoride



COMPATIBLE MOUNTS

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