

TECHSPEC[®] 25mm Dia. x 100mm FL Uncoated Calcium Fluoride PCX Lens



TECHSPEC Calcium Fluoride Plano-Convex (PCX) Lenses

Stock #88-166 14 In Stock

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1

+

€210⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-5	€210,00 each
Qty 6-25	€168,00 each
Qty 26-49	€158,00 each
Need More?	Request Quote

 Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Plano-Convex Lens

Type:

Physical & Mechanical Properties

25.00 +0.00/-0.10

Diameter (mm):

Centering (arcmin):

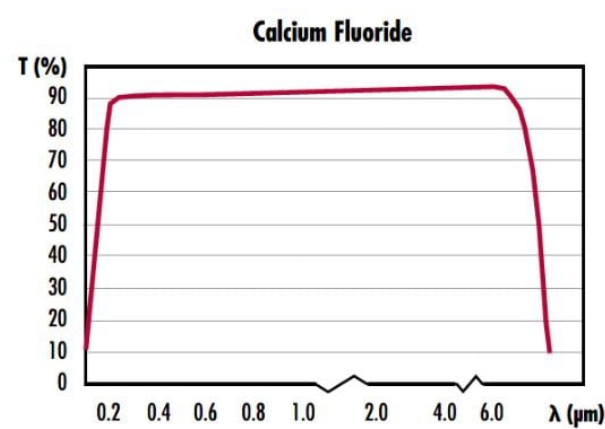
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Center Thickness CT (mm):	4.00 ±0.1
Edge Thickness ET (mm):	2.28
Clear Aperture CA (mm):	22.5
Bevel:	Protective as needed
Optical Properties	
Effective Focal Length EFL (mm):	100.00 @ 266nm
Back Focal Length BFL (mm):	97.27
Coating:	Uncoated
Substrate: ☐	Calcium Fluoride (CaF ₂)
Surface Quality:	40-20
Power (P-V) @ 632.8nm:	λ
Irregularity (P-V) @ 632.8nm:	λ/2
Radius R ₁ (mm):	46.21
f/#:	4.00
Numerical Aperture NA:	0.13
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



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