

TECHSPEC[®] 12.5mm Dia. x 18mm FL VIS-NIR Coated Calcium Fluoride PCX Lens



TECHSPEC Calcium Fluoride Plano-Convex (PCX) Lenses

Stock **#22-515** **5 In Stock**

-

1

+

£172⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-5	£172.80 each
Qty 6-25	£138.40 each
Qty 26-49	£129.60 each
Need More?	Request Quote

i Prices shown are exclusive of VAT/local taxes

Product Downloads

General	
Plano-Convex Lens	Type:
Physical & Mechanical Properties	
12.50 +0.00/-0.10	Diameter (mm):
	Centering (arcmin):

<3	
Center Thickness CT (mm):	4.00 ±0.1
Edge Thickness ET (mm):	1.17
Clear Aperture CA (mm):	11.5
Bevel:	Protective as needed

Optical Properties

Effective Focal Length EFL (mm):	18.00 @ 266nm
Back Focal Length BFL (mm):	14.92
Coating:	VIS-NIR (400-1000nm)
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):	8.32
f/#:	1.44
Numerical Aperture NA:	0.35
Wavelength Range (nm):	200 - 7000
Axis Orientation:	Random

Regulatory Compliance

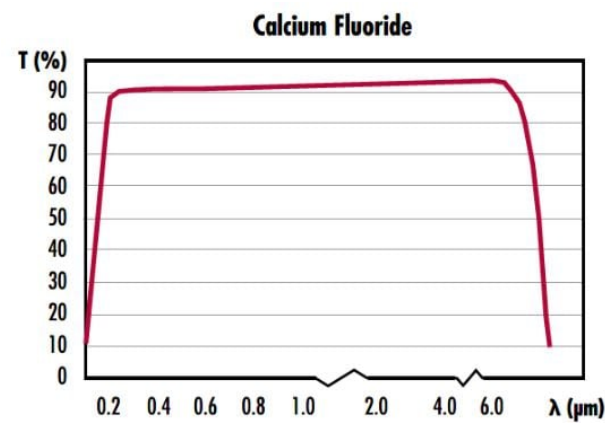
RoHS 2015:	Compliant
Certificate of Conformance:	View
Reach 235:	Compliant

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