

TECHSPEC[®] 50mm Dia. x 150mm FL Uncoated Calcium Fluoride PCX Lens



TECHSPEC Calcium Fluoride Plano-Convex (PCX) Lenses

Stock **#88-169** **6 In Stock**

-

1

+

S\$722⁸⁵

ADD TO CART

Volume Pricing	
Qty 1-5	S\$722.85 each
Qty 6-25	S\$577.98 each
Qty 26-49	S\$542.14 each
Need More?	Request Quote

Product Downloads

SPECIFICATIONS

General

Type:
Plano-Convex Lens

Physical & Mechanical Properties

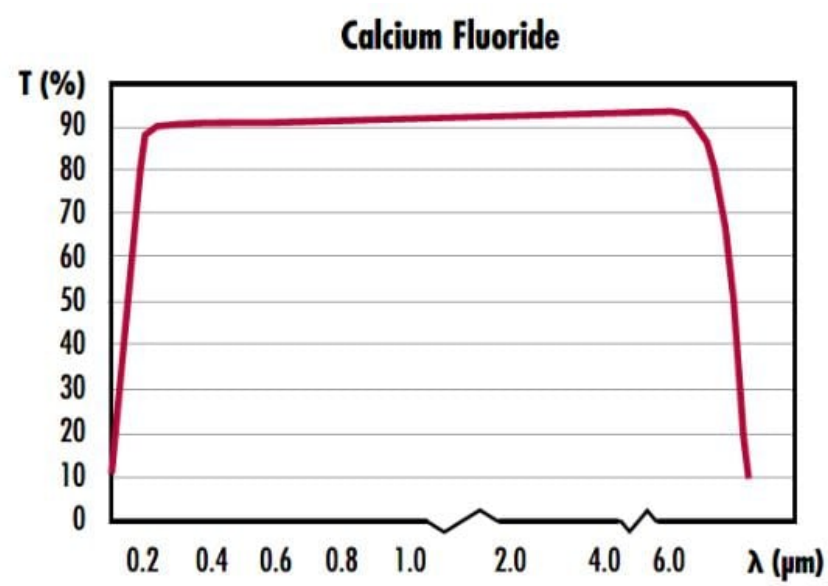
50.00 +0.00/-0.10	Diameter (mm):
<3	Centering (arcmin):
7.00 ±0.1	Center Thickness CT (mm):
2.33	Edge Thickness ET (mm):
45	Clear Aperture CA (mm):
Protective as needed	Bevel:
Optical Properties	
150.00 @ 266nm	Effective Focal Length EFL (mm):
145.21	Back Focal Length BFL (mm):
Uncoated	Coating:
Calcium Fluoride (CaF ₂)	Substrate:
40-20	Surface Quality:
λ	Power (P-V) @ 632.8nm:
3λ/2	Irregularity (P-V) @ 632.8nm:
69.31	Radius R ₁ (mm):
3.00	f#:
0.17	Numerical Aperture NA:
200 - 7000	Wavelength Range (nm):
Random	Axis Orientation:
Regulatory Compliance	
Compliant	RoHS 2015:
Compliant	Reach 219:
View	Certificate of Conformance:

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