

TECHSPEC®

50mm Dia. x 75mm FL Uncoated Calcium Fluoride PCX Lens



TECHSPEC Calcium Fluoride Plano-Convex (PCX) Lenses

Stock **#88-167** 16 In Stock

-

1

+

S\$749⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-5	S\$749.00 each
Qty 6-25	S\$597.80 each
Qty 26-49	S\$561.40 each
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Product Downloads

General

Plano-Convex Lens

Type:

Physical & Mechanical Properties

50.00 +0.00/-0.10

Diameter (mm):

<3

Centering (arcmin):

12.50 ±0.1	Center Thickness CT (mm):
1.85	Edge Thickness ET (mm):
45	Clear Aperture CA (mm):
Protective as needed	Bevel:

Optical Properties	
75.00 @ 266nm	Effective Focal Length EFL (mm):
66.45	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:
34.66	Radius R ₁ (mm):
1.5	f/#:
0.33	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

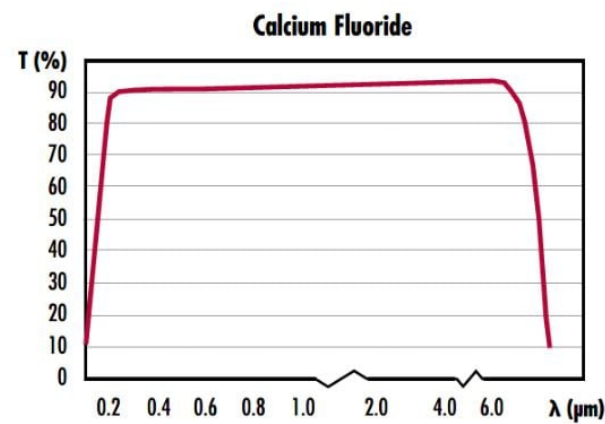
• Low Index of Refraction

• 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
