

TECHSPEC® 12.5mm Dia. x 18mm FL Uncoated Calcium Fluoride PCX Lens



TECHSPEC Calcium Fluoride Plano-Convex (PCX) Lenses

Stock #88-160 3-4 DAYS

⊖ 1 ⊕ €159.⁰⁰

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):
4.00 ±0.1

Edge Thickness ET (mm):
1.17

Clear Aperture CA (mm):
11.25

Bevel:
Protective bevel as needed

Optical Properties

Effective Focal Length EFL (mm):
18.00 @ 266nm

Back Focal Length BFL (mm):
14.92

Coating:
Uncoated

Substrate: □
Calcium Fluoride (CaF₂)

Surface Quality:
40-20

Power (P-V) @ 632.8nm:
λ

Irregularity (P-V) @ 632.8nm:
λ/2

Radius R₁ (mm):
8.32

f#:
1.44

Numerical Aperture NA:
0.35

Wavelength Range (nm):
200 - 7000

Axis Orientation:
Random

Regulatory Compliance

RoHS 2015:
[Compliant](#)

Reach 219:
[Compliant](#)

Certificate of Conformance:
[View](#)

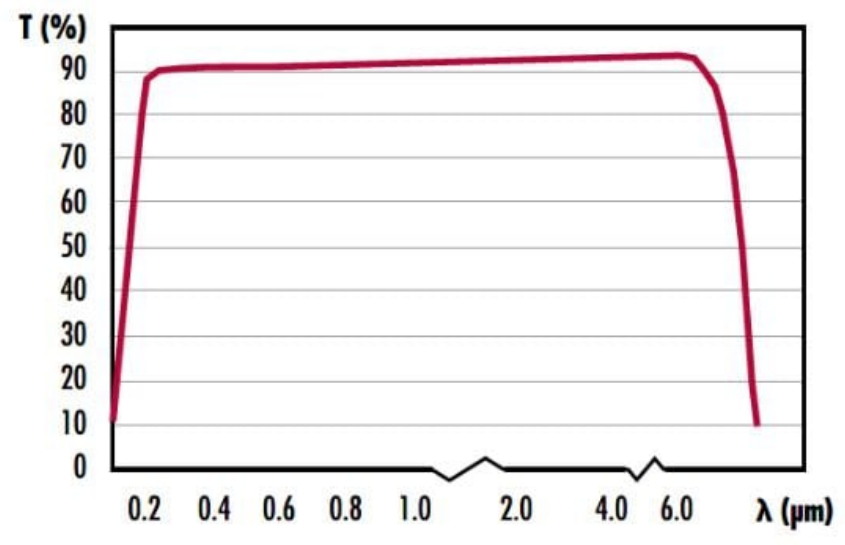
PRODUCT DETAILS

- 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
