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



TECHSPEC Calcium Fluoride Plano-Convex (PCX) Lenses

Stock #88-160 **12 In Stock**

- 1 + A\$278⁰⁰

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| Volume Pricing | |
|----------------|-------------------------------|
| Qty 1-5 | A\$278.40 each |
| Qty 6-25 | A\$222.40 each |
| Qty 26-49 | A\$208.00 each |
| Need More? | Request Quote |

Product Downloads

General

Plano-Convex Lens **Type:**

Physical & Mechanical Properties

12.50 +0.00/-0.10 **Diameter (mm):**

<3 **Centering (arcmin):**

| | |
|--------------------------------------|-------------------------------------|
| 4.00 ±0.1 | Center Thickness CT (mm): |
| 1.17 | Edge Thickness ET (mm): |
| 11.25 | Clear Aperture CA (mm): |
| Protective as needed | Bevel: |
| Optical Properties | |
| 18.00 @266nm | Effective Focal Length EFL (mm): |
| 14.92 | Back Focal Length BFL (mm): |
| Uncoated | Coating: |
| Calcium Fluoride (CaF ₂) | Substrate: <input type="checkbox"/> |
| 40-20 | Surface Quality: |
| λ | Power (P-V) @ 632.8nm: |
| λ/2 | Irregularity (P-V) @ 632.8nm: |
| 8.32 | Radius R ₁ (mm): |
| 1.44 | f/#: |
| 0.35 | Numerical Aperture NA: |
| 200 - 7000 | Wavelength Range (nm): |
| Random | Axis Orientation: |

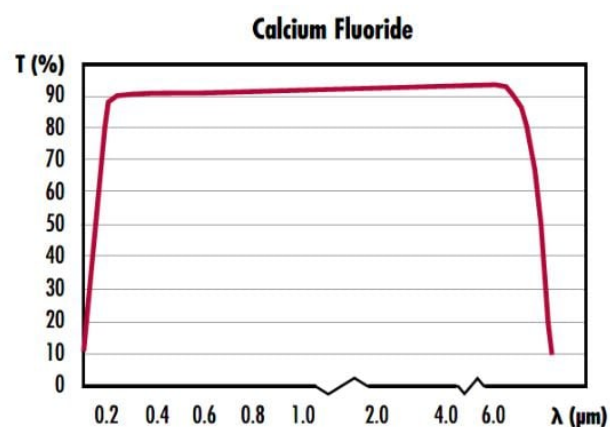
| | |
|------------------------------|-----------------------------|
| Regulatory Compliance | |
| Compliant | RoHS 2015: |
| Compliant | Reach 219: |
| View | Certificate of Conformance: |

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
