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TECHSPEC® 25mm Dia. x 20mm FL, Uncoated, 266nm DWL, CaF_2 Aspheric Lens

TECHSPEC® Calcium Fluoride (CaF2) Aspheric Lenses

Stock **#13-462** CONTACT US

- 1 + **C$987**.00

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Volume Pricing	
Qty 1-5	**C$987.00** each
Qty 6-25	**C$882.00** each
Qty 26-49	**C$784.00** each
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Product Downloads

General

Type:

Aspheric Lens

Physical & Mechanical Properties

Diameter (mm):

25.00 +0.00/-0.10

Centering (arcmin):

<1

Clear Aperture CA (mm):
22.50

Edge Thickness ET (mm):
4.51

Center Thickness CT (mm):
14.70 ±0.10

Edges:
Diamond Turned

Optical Properties

Effective Focal Length EFL (mm):
20.00 @ 266nm

Numerical Aperture NA:
0.63

Back Focal Length BFL (mm):
10.97

Substrate:
Calcium Fluoride (CaF_2) Vacuum UV Grade

Aspheric Design Wavelength (nm):
266

Asphere Figure Error, RMS @ 632.8nm:
λ/6

Coating:
Uncoated

Surface Quality:
60-40

f/#:
0.80

Design Wavelength DWL (nm):
266

Wavelength Range (nm):
200 - 7000

Focal Length Specification Wavelength (nm):
266

Regulatory Compliance

Certificate of Conformance:
View

Need different specs or modifications?

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our custom manufacturing capabilities or submit an inquiry here.

Product Details

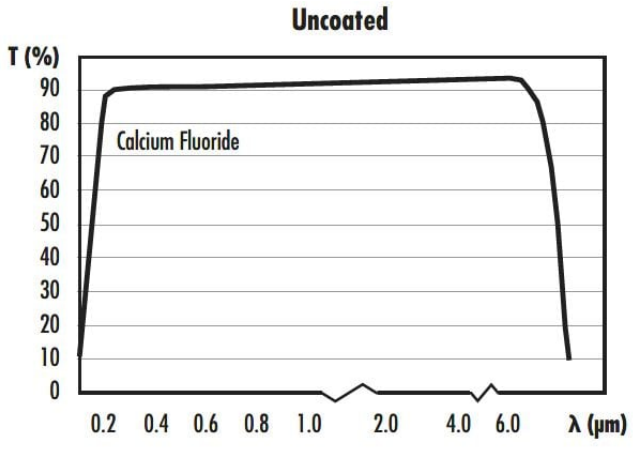
- 266nm or 4µm Design Wavelength Options
- High Transmission from 200nm to 7µm
- Diamond Turned for High Surface Accuracy
- Vacuum UV Grade CaF_2 Substrate

TECHSPEC® Calcium Fluoride (CaF_2) Aspheric Lenses have high transmission from the ultraviolet (UV) through the infrared (IR), covering the wavelength range of 200nm to 7µm. Calcium fluoride's low index of refraction enables these diamond turned aspheric lenses to be integrated with minimal Fresnel reflection loss without an anti-reflection coating. Calcium fluoride also offers low solubility and superior hardness compared to other fluoride-based substrates, allowing for these aspheric lenses to be used in harsh environments. TECHSPEC Calcium Fluoride (CaF_2) Aspheric Lenses are available in two designs; one for Nd:YAG, Excimer Laser, and other UV applications with a design wavelength of 266nm and the other for spectroscopic, mid-wave IR (MWIR) thermal imaging, and other IR applications with a design wavelength of 4µm.

Please contact us for Calcium Fluoride Aspheric Lenses with custom designs or coating options.

Note: Calcium fluoride is a relatively soft optical material and requires careful handling as it is very easily scratched. Calcium fluoride is also susceptible to thermal shock.

Technical Information



Compatible Mounts

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