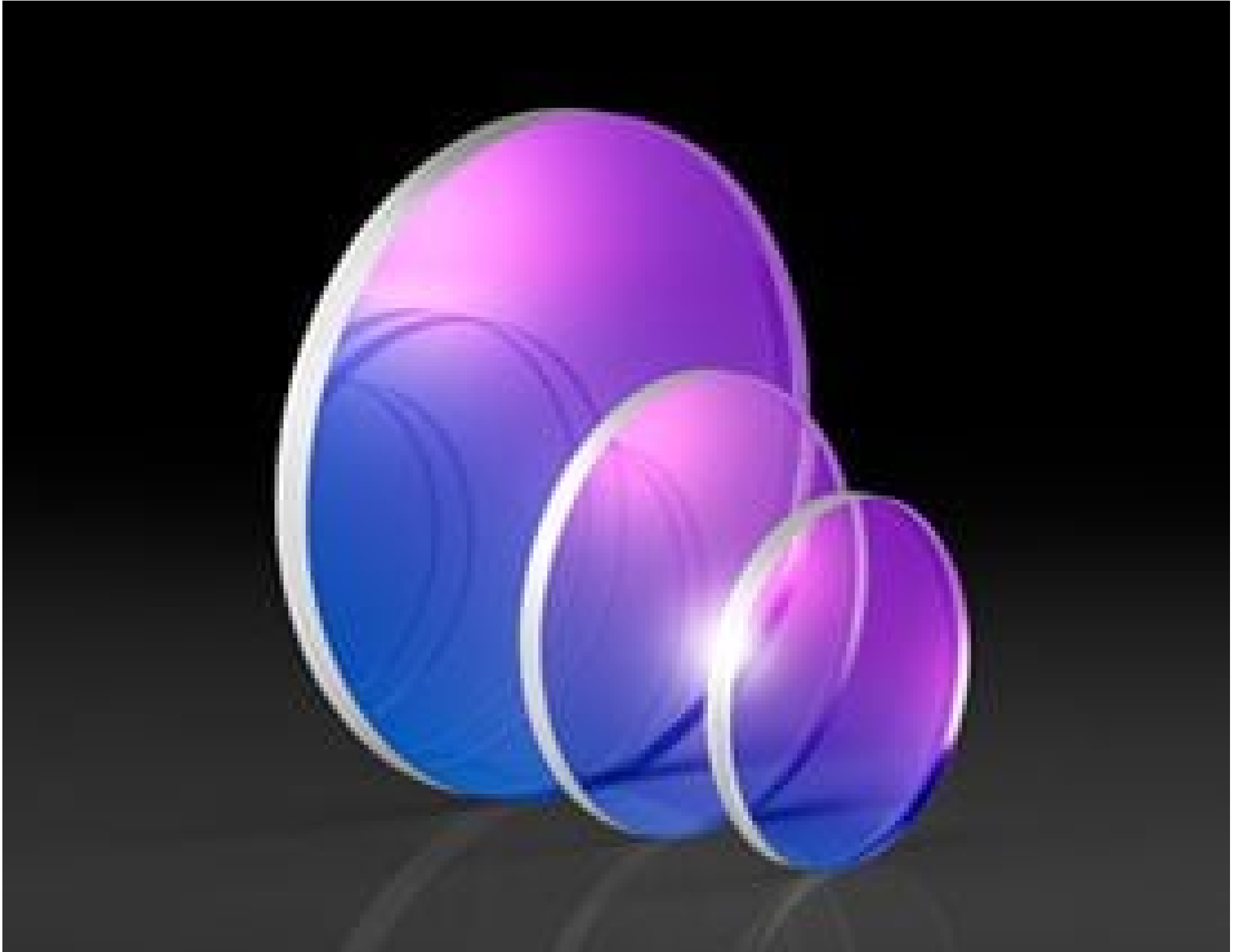


TECHSPEC® 15mm Diameter Uncoated, Calcium Fluoride Window



TECHSPEC Calcium Fluoride (CaF₂) Windows

Stock #48-854 In Stock

⊖ 1 ⊕ €138.⁰⁰

ADD TO CART

Qty 1-10
€138,00

Qty 11+
€122,00

Volume Pricing
[Request Quote](#)

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads



SPECIFICATIONS

General

Type:
Protective Window

Physical & Mechanical Properties

Bevel:
Protective as needed

Clear Aperture (%):
90

Clear Aperture CA (mm):
13.50

Diameter (mm):
15.00 +0.0/-0.1

Thickness (mm):
2.00 ±0.1

Edges:
Fine Ground

Knoop Hardness (kg/mm²):
158.3

Parallelism (arcmin):
<1

Poisson's Ratio:
0.26

Young's Modulus (GPa):
75.8

Optical Properties

Abbe Number (v_d):
94.99

Axis Orientation:
Random

Coating:
Uncoated

Index of Refraction (n_d):
1.434

Substrate:
Calcium Fluoride (CaF₂) Vacuum UV Grade

Surface Flatness (P-V):
λ/2

Surface Quality:
40-20

Wavelength Range (nm):
200 - 7000

Material Properties

Coefficient of Thermal Expansion CTE (10⁻⁶/°C):
18.85

Density (g/cm³):
3.18

Regulatory Compliance

RoHS 2015:
[Compliant](#)

Reach 219:
[Compliant](#)

Certificate of Conformance:
[View](#)

PRODUCT DETAILS

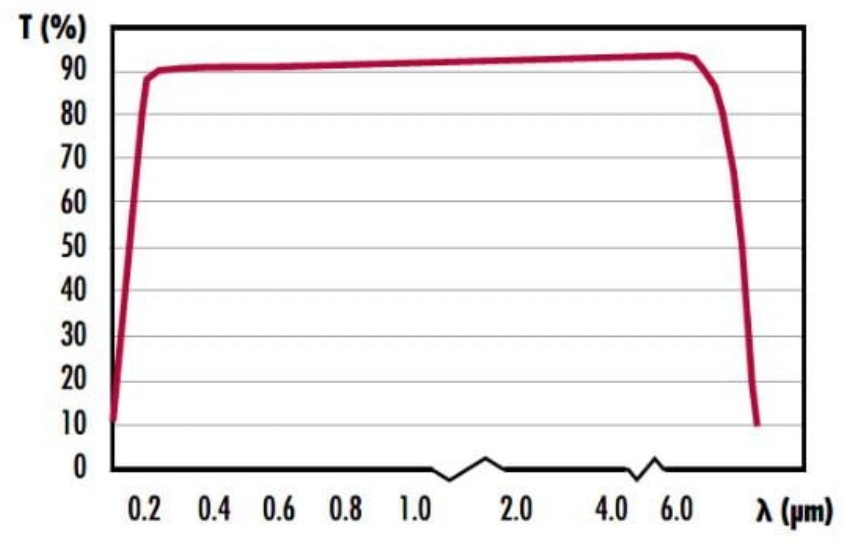
- Low Absorption, High Transmission UV Grade Calcium Fluoride
- Low Index of Refraction
- AR Coatings Spanning 250 - 5000nm Available
- [Calcium Fluoride \(CaF₂\) Wedged Windows](#) also Available

TECHSPEC® Calcium Fluoride (CaF₂) Windows offer a low index of refraction, providing high transmission from 200 - 7000nm when used uncoated. To further increase transmission and reduce back reflections, a variety of AR coatings are available spanning wavelength regions from the Ultra-Violet (UV) to the Mid-Wave Infrared (MMIR). The high bulk damage threshold of calcium fluoride coupled with its low absorption makes it a popular choice for use with laser systems, including excimer lasers. TECHSPEC® Calcium Fluoride (CaF₂) Windows are ideal for use as protective windows for gas detectors operating in the Vacuum UV (VUV) and MMIR, UV spectroscopy systems, cryogenically cooled thermal imaging systems, and as substrates for coatings requiring wideband substrate transmission.

Note: Calcium fluoride is a relatively soft optical material and is more susceptible to scratches than typical glass windows.

TECHNICAL INFORMATION

Calcium Fluoride



COMPATIBLE MOUNTS
