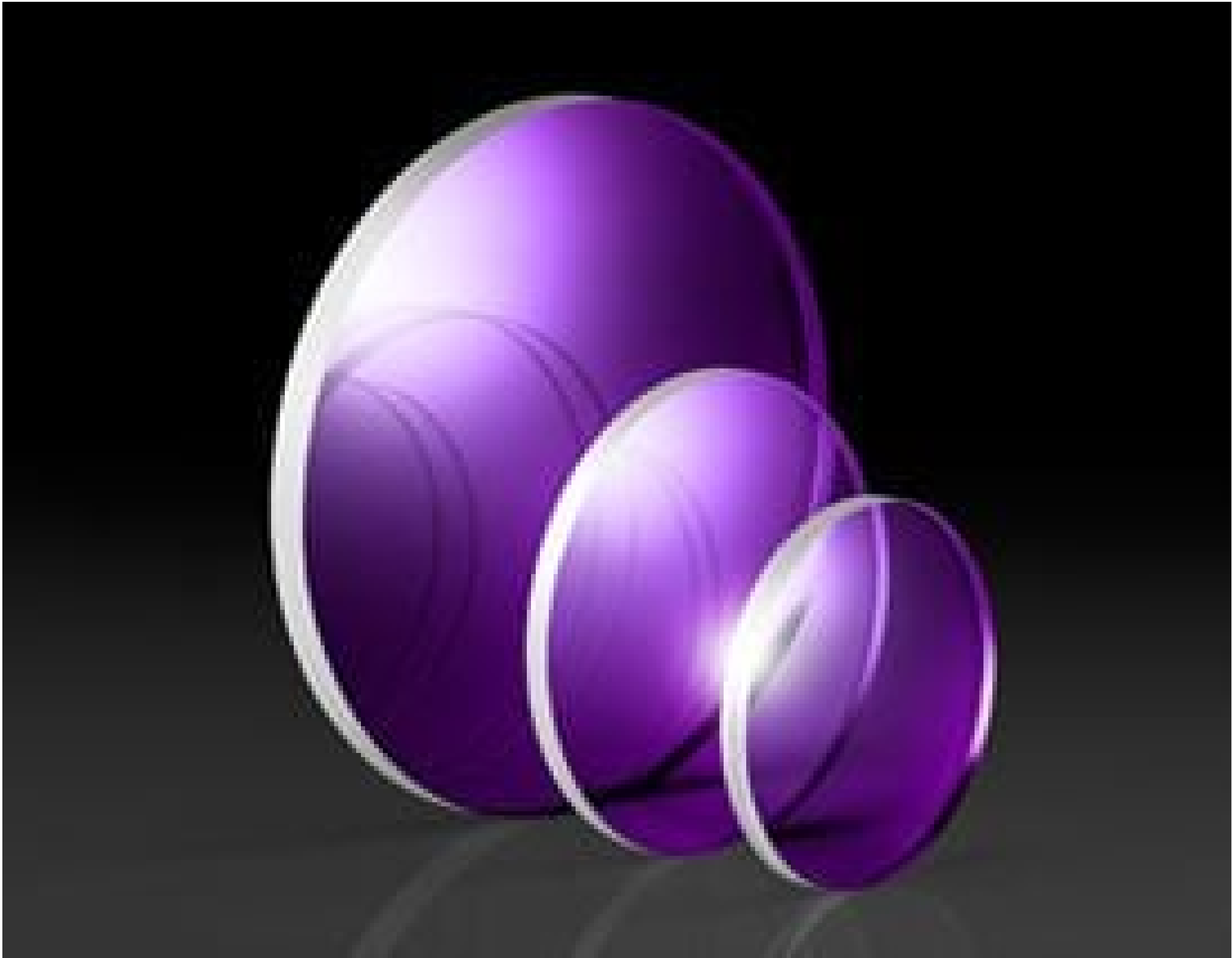


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50.8mm Dia., 3mm Thick, Uncoated, ISP Optics Calcium Fluoride (CaF2) Window | CF-W-50-3

See More by [ISP Optics](#)



Stock **#19-717** CLEARANCE CONTACT US

- 1 + €170^{,00}

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Volume Pricing	
Qty 1+	€170,00 each
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General	
CF-W-50-3	Model Number:
Protective Window	Type:

Physical & Mechanical Properties	
43.18	Clear Aperture CA (mm):
50.80 +0.0/-0.1	Diameter (mm):
3.00 ±0.13	Thickness (mm):
<3	Parallelism (arcmin):
Protective as needed	Bevel:
85	Clear Aperture (%):
Fine Ground	Edges:
0.26	Poisson's Ratio:
75.8	Young's Modulus (GPa):
158.30	Knoop Hardness (kg/mm²):

Optical Properties	
Uncoated	Coating:
Calcium Fluoride (CaF ₂)	Substrate: ☐
1.434	Index of Refraction (n _d):
40-20	Surface Quality:
94.99	Abbe Number (v _d):
Random	Axis Orientation:
300 - 8000	Wavelength Range (nm):
2λ	Surface Flatness (P-V):

Material Properties	
3.18	Density (g/cm³):
18.85	Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):

Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 240:

Product Details

- Greater than 90% Transmission from 350nm-7µm
- Low Index of Refraction
- Low Solubility and Chemically Inert

ISP Optics Calcium Fluoride (CaF₂) Windows provide environmental protection for electronic systems and sensors across the IR spectrum. Calcium Fluoride features greater than 90% transmission from 350nm to 7µm and a low refractive index, allowing it to be used without an anti-reflection (AR) coating. These windows are fabricated with IR Grade Calcium Fluoride, featuring low absorption and a high damage threshold in the infrared spectrum. ISP Optics Calcium Fluoride (CaF₂) Windows offer low solubility and superior hardness compared to other fluoride-based substrates, making them ideal for applications featuring harsh environments including infrared spectroscopy systems and thermal imaging.

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