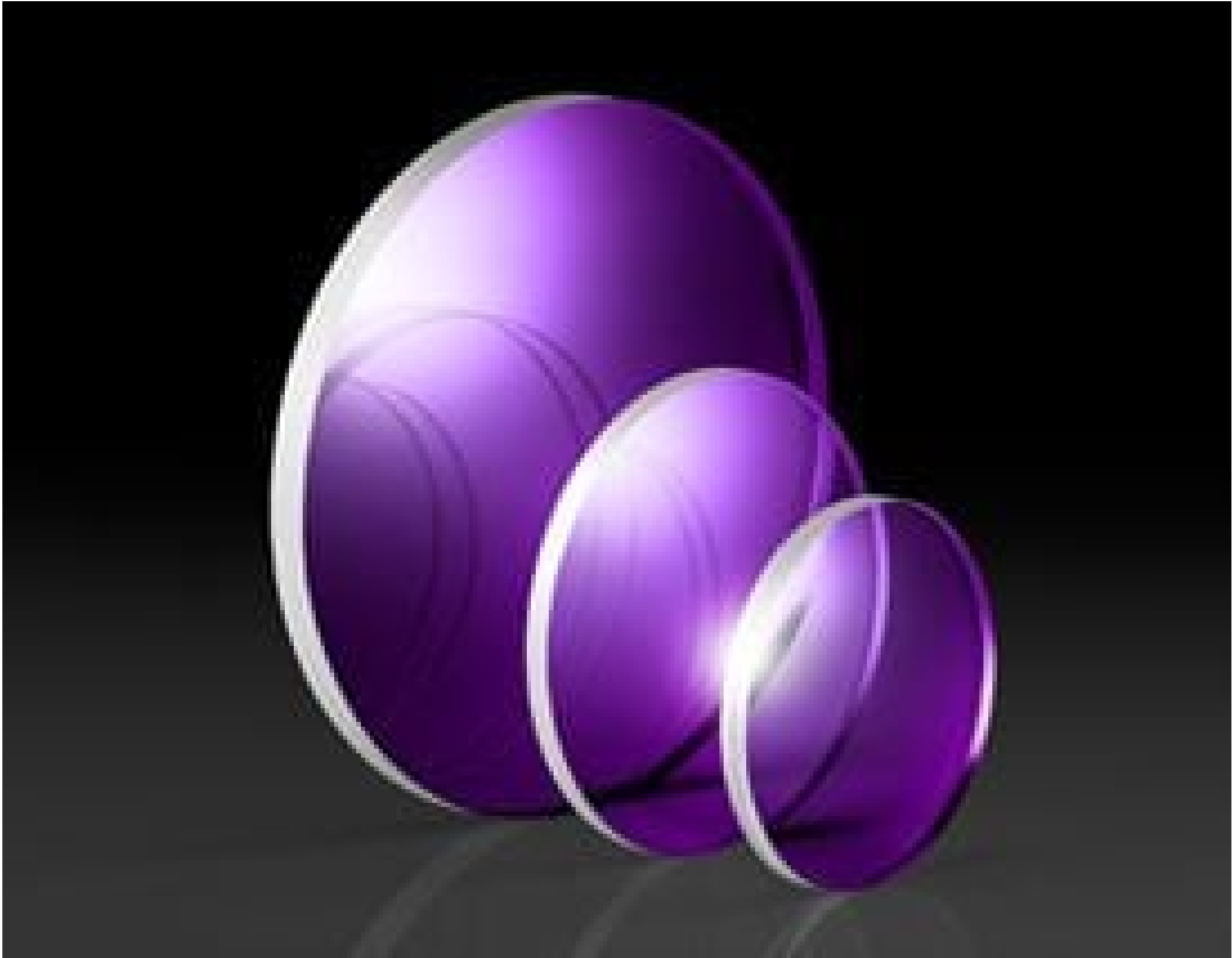


50.8mm Dia., 3mm Thick, Uncoated, ISP Optics Calcium Fluoride (CaF₂) Window | CF-W-50-3

See More by [ISP Optics](#)



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

-

1

+

£140^{.25}

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Volume Pricing	
Qty 1+	£140.25 each
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Product Downloads

SPECIFICATIONS

General

Protective Window	Type:
CF-W-50-3	Model Number:
Physical & Mechanical Properties	
Protective as needed	Bevel:
85	Clear Aperture (%):
43.18	Clear Aperture CA (mm):
50.80 +0.0/-0.1	Diameter (mm):
3.00 ±0.13	Thickness (mm):
Fine Ground	Edges:
158.30	Knoop Hardness (kg/mm²):
<3	Parallelism (arcmin):
0.26	Poisson's Ratio:
75.8	Young's Modulus (GPa):
Optical Properties	
94.99	Abbe Number (v _d):
Random	Axis Orientation:
Uncoated	Coating:
1.434	Index of Refraction (n _d):
Calcium Fluoride (CaF ₂)	Substrate:
2λ	Surface Flatness (P-V):
40-20	Surface Quality:
300 - 8000	Wavelength Range (nm):
Material Properties	
18.85	Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):
3.18	Density (g/cm³):
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

