38.1mm Dia., 6mm Thick, Uncoated, ISP Optics Calcium Fluoride (CaF$_2$) Window | CF-W-38-6

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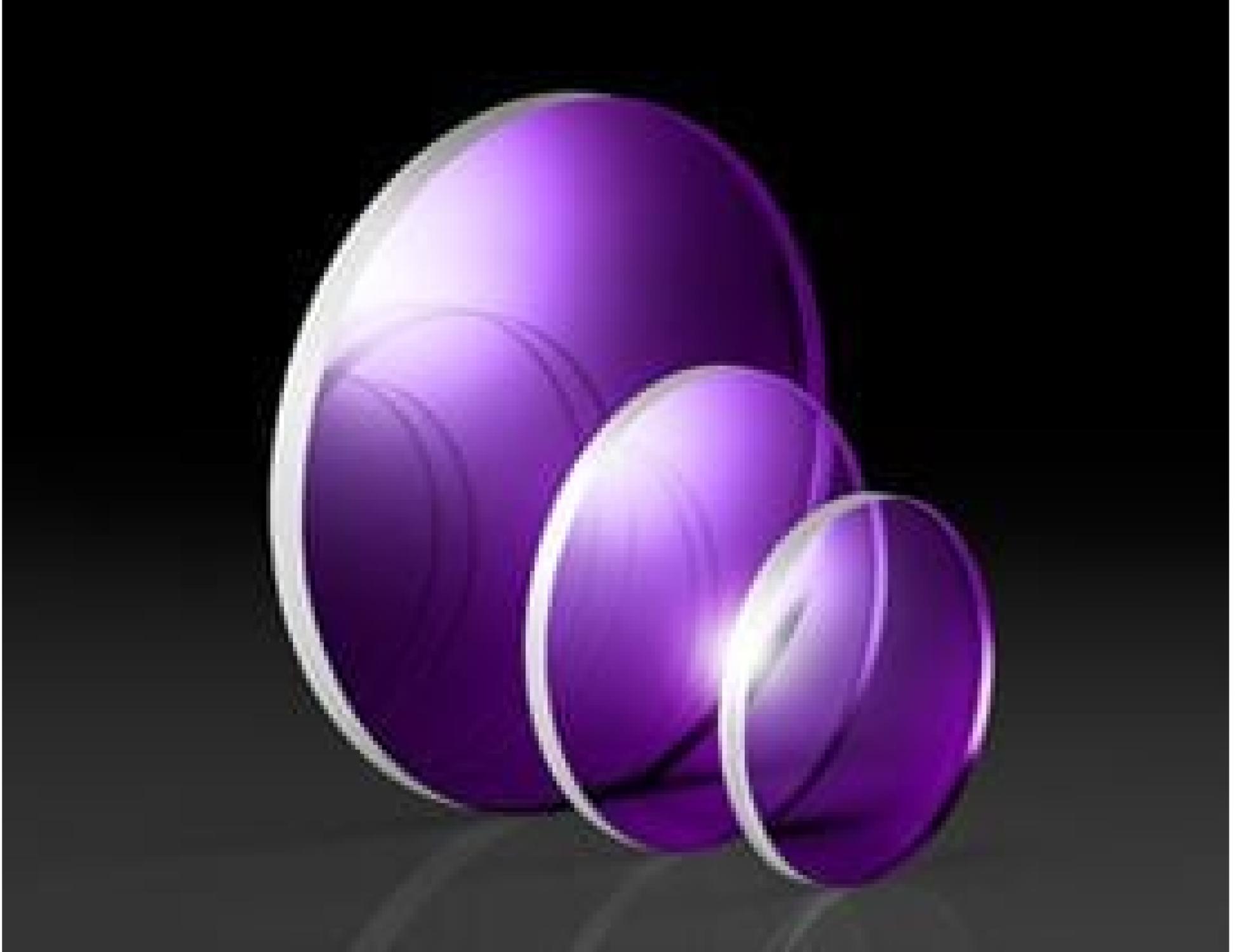
Stock **#24-525** CLEARANCE   **2 In Stock**

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General

Model Number:

CF-W-38-6

Type:

Protective Window

Physical & Mechanical Properties

	Clear Aperture CA (mm):
32.38	
	Diameter (mm):
38.10 +0.00/-0.13	
	Thickness (mm):
6.00 ±0.13	
	Parallelism (arcmin):
<3	
	Bevel:
Protective as needed	
	Clear Aperture (%):
85	
	Edges:
Fine Ground	
	Poisson's Ratio:
0.26	
	Young's Modulus (GPa):
75.8	
	Knoop Hardness (kg/mm^2):
158.30	

Optical Properties

	Coating:
Uncoated	
	Substrate: ☐
Calcium Fluoride (CaF$_2$)	
	Index of Refraction (n$_d$):
1.434	
	Surface Quality:
40-20	
	Abbe Number (v$_d$):
94.99	
	Axis Orientation:
Random	
	Wavelength Range (nm):
300 - 8000	
	Surface Flatness (P-V):
2λ	

Material Properties

	Density (g/cm^3):
3.18	
	Coefficient of Thermal Expansion CTE (10^{-6}/°C):
18.85	

Regulatory Compliance

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

Product Details

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

ISP Optics Calcium Fluoride (CaF$_2$) 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 (CaF$_2$) 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

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