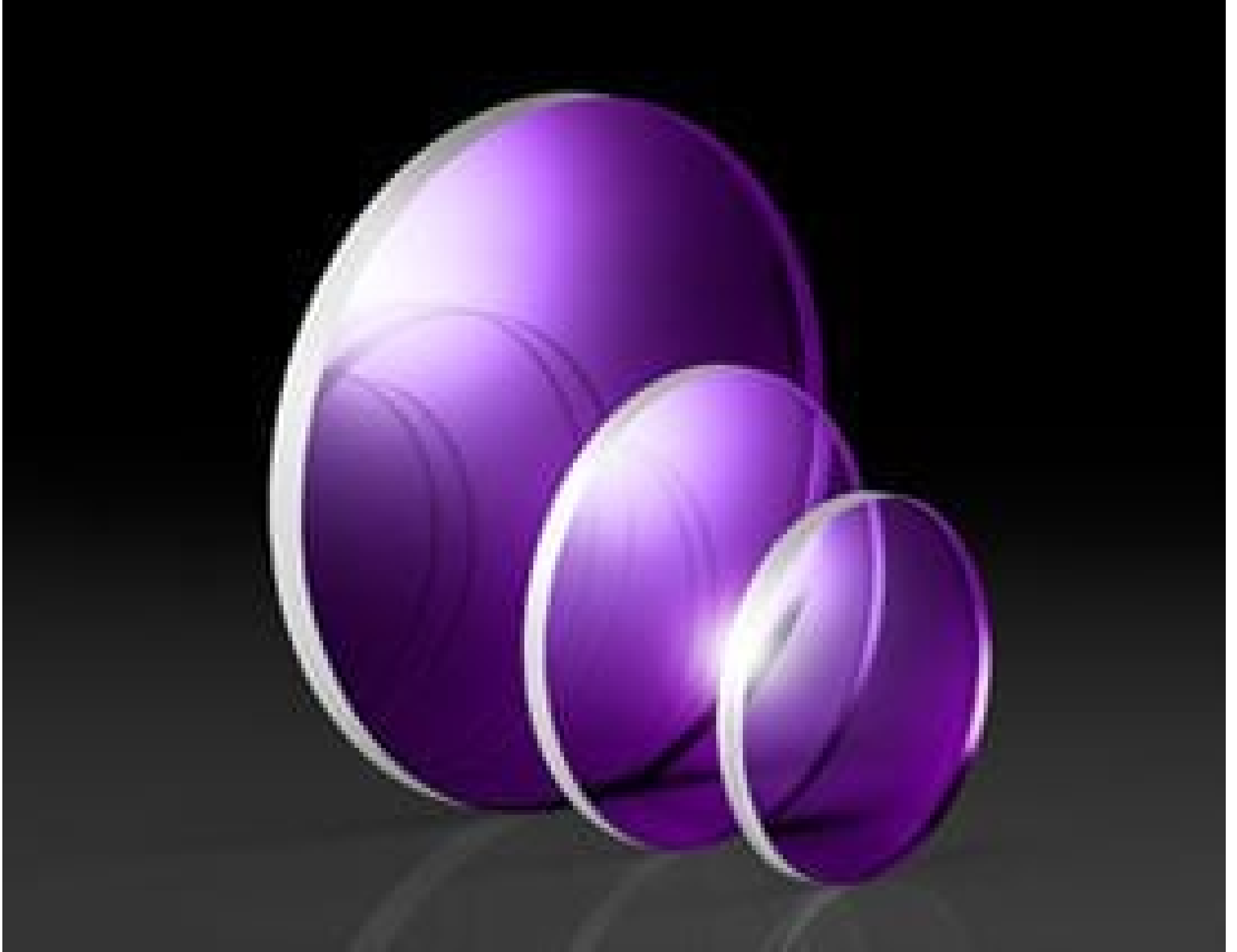


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# 38.1mm Dia., 6mm Thick, Uncoated, ISP Optics Calcium Fluoride (CaF<sub>2</sub>) Window | CF-W-38-6

See More by [ISP Optics](#)



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

− 1 + €99.<sup>00</sup>

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## Product Downloads

### General

CF-W-38-6 **Model Number:**

Protective Window **Type:**

**Type of Window:**

## Physical & Mechanical Properties

32.38 **Clear Aperture CA (mm):**

38.10 +0.00/-0.13 **Diameter (mm):**

6.00 ±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/mm<sup>2</sup>):**

## Optical Properties

Uncoated **Coating:**

[Calcium Fluoride \(CaF<sub>2</sub>\)](#) **Substrate:**

1.434 **Index of Refraction (n<sub>d</sub>):**

40-20 **Surface Quality:**

94.99 **Abbe Number (v<sub>d</sub>):**

Random **Axis Orientation:**

300 - 8000 **Wavelength Range (nm):**

2λ **Surface Flatness (P-V):**

## Material Properties

3.18 **Density (g/cm<sup>3</sup>):**

18.85 **Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°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 (CaF<sub>2</sub>) 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<sub>2</sub>) 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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