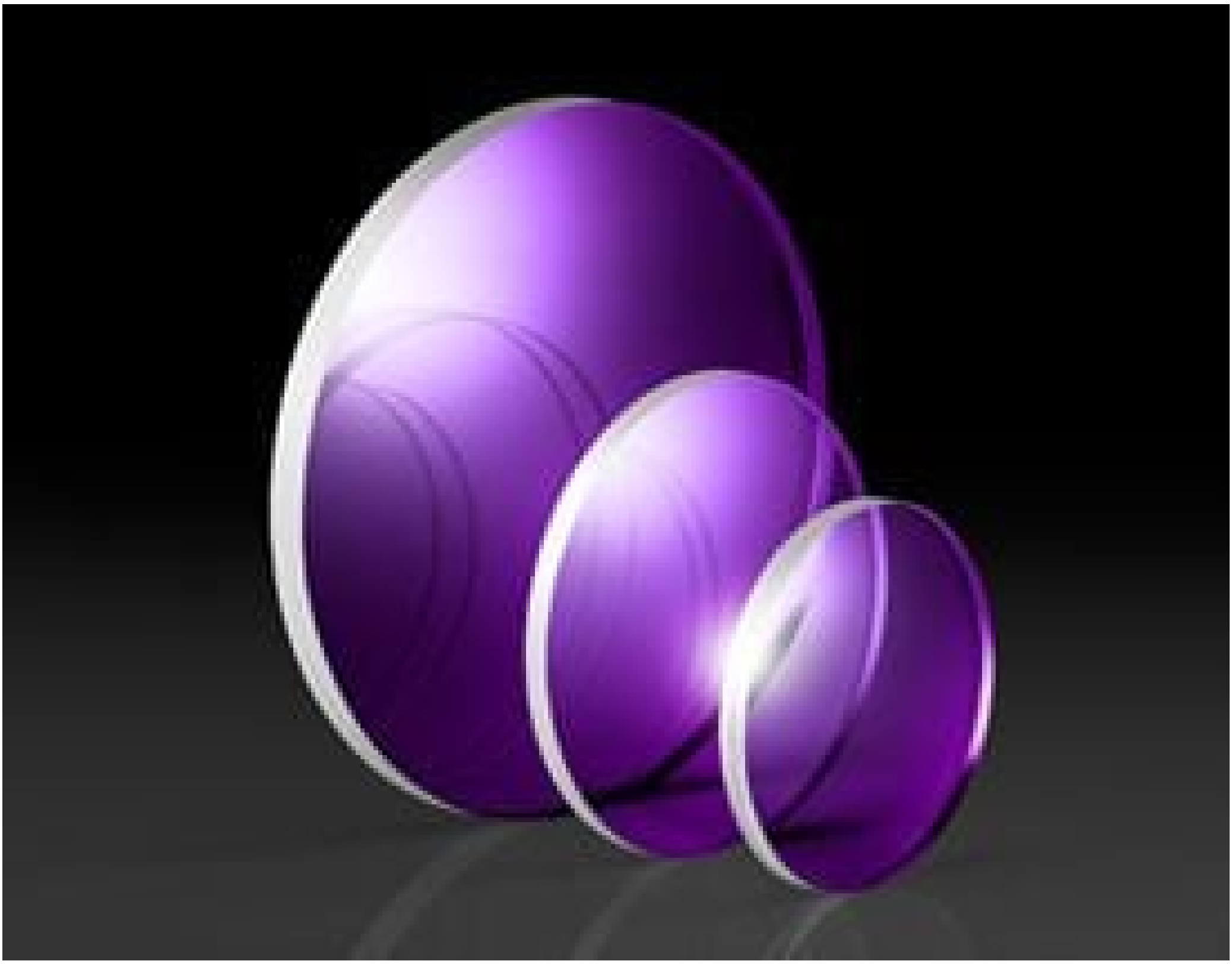
38.1mm Dia., 6mm Thick, Uncoated, ISP Optics Calcium Fluoride (CaF_2) Window | CF-W-38-6

See More by ISP Optics



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SPECIFICATIONS

General

Type:

Protective Window

Model Number:
CF-W-38-6

Physical & Mechanical Properties

Bevel:
Protective as needed

Clear Aperture (%):
85

Clear Aperture CA (mm):
32.38

Diameter (mm):
38.10 +0.00/-0.13

Thickness (mm):
6.00 ±0.13

Edges:
Fine Ground

Knoop Hardness (kg/mm^2):
158.30

Parallelism (arcmin):
<3

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 (CaF_2)

Surface Flatness (P-V):
2λ

Surface Quality:
40-20

Wavelength Range (nm):
300 - 8000

Material Properties

Coefficient of Thermal Expansion CTE (10^{-6}/°C):
18.85

Density (g/cm^3):
3.18

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