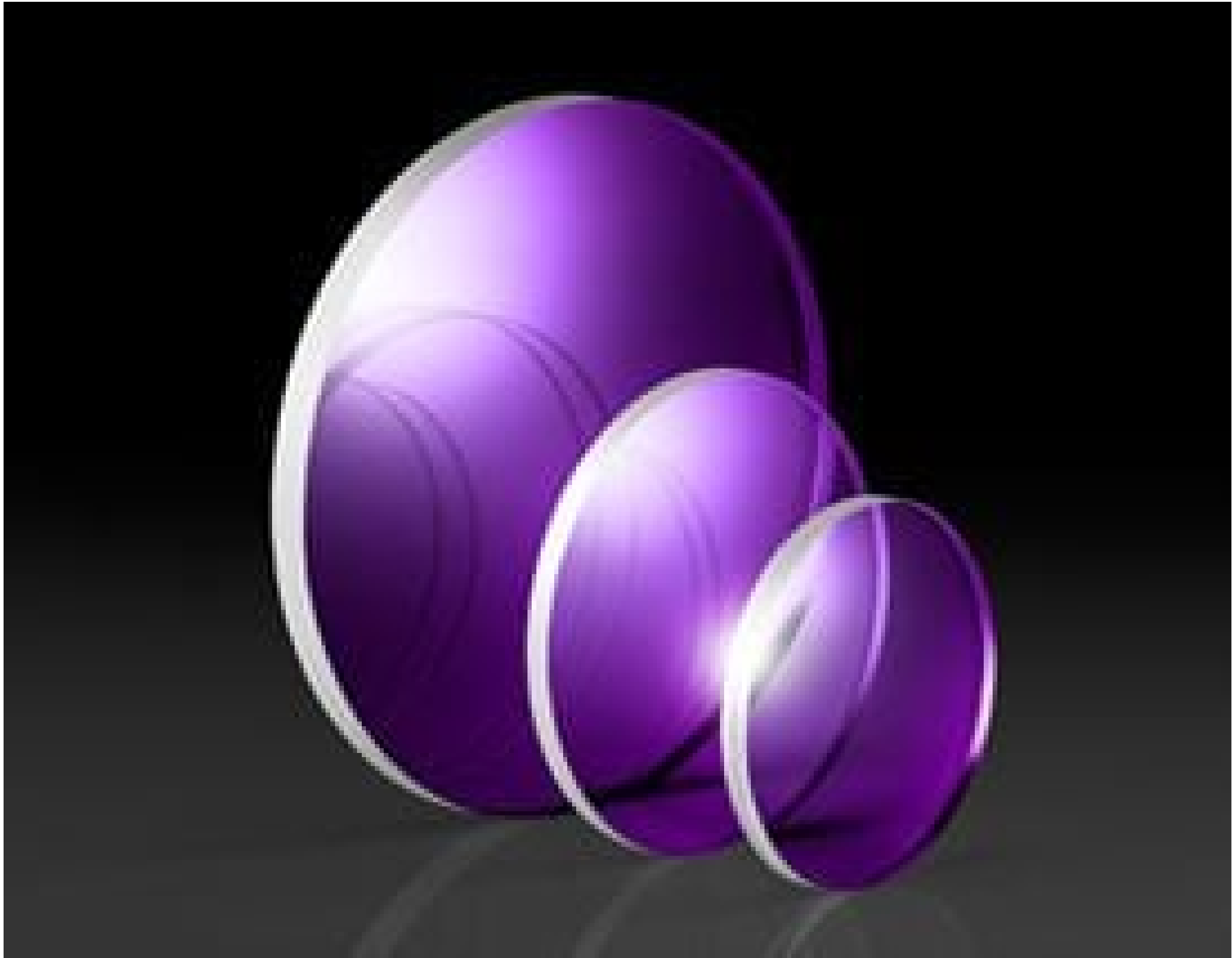


76.2mm Dia., 8mm Thick, Uncoated, ISP Optics Calcium Fluoride (CaF<sub>2</sub>) Window | CF-W-76-8

See More by [ISP Optics](#)



Stock **#24-534** CLEARANCE **3 In Stock**

-

1

+

S\$536<sup>.20</sup>

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| Volume Pricing |                               |
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| Qty 1+         | S\$536.20 each                |
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Product Downloads

| General                          |                   |
|----------------------------------|-------------------|
| Type:                            | Protective Window |
| Model Number:                    | CF-W-76-8         |
| Physical & Mechanical Properties |                   |

|                      |                          |
|----------------------|--------------------------|
| Protective as needed | Bevel:                   |
| 85                   | Clear Aperture (%):      |
| 64.77                | Clear Aperture CA (mm):  |
| 76.20 +0.00/-0.13    | Diameter (mm):           |
| 8.00 ±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 <sub>d</sub> ):         |
| Random                               | Axis Orientation:                      |
| Uncoated                             | Coating:                               |
| 1.434                                | Index of Refraction (n <sub>d</sub> ): |
| Calcium Fluoride (CaF <sub>2</sub> ) | 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 <sup>-6</sup> /°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 (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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