

[See all 5 Products in Family](#)

# 25.4mm Dia., 4mm Thick, Uncoated, ISP Optics Barium Fluoride (BaF<sub>2</sub>) Window | BF-W-25-4

See More by [ISP Optics](#)



Stock **#24-494** CLEARANCE CONTACT US

⊖ 1 ⊕ **A\$204<sup>00</sup>**

**ADD TO CART**

Volume Pricing	
Qty 1+	A\$204.80 each
Need More?	<a href="#">Request Quote</a>

Product Downloads

**General**

Model Number:  
BF-W-25-4

Type:  
Protective Window

**Physical & Mechanical Properties**

Clear Aperture CA (mm):  
21.59

25.40 +0.00/-0.13	<b>Diameter (mm):</b>
4.00 ±0.13	<b>Thickness (mm):</b>
<3	<b>Parallelism (arcmin):</b>
Protective as needed	<b>Bevel:</b>
85	<b>Clear Aperture (%):</b>
Fine Ground	<b>Edges:</b>
0.34	<b>Poisson's Ratio:</b>
53	<b>Young's Modulus (GPa):</b>
82.00	<b>Knoop Hardness (kg/mm<sup>2</sup>):</b>

## Optical Properties

Uncoated	<b>Coating:</b>
<a href="#">Barium Fluoride (BaF<sub>2</sub>)</a>	<b>Substrate:</b> <input type="checkbox"/>
1.48	<b>Index of Refraction (n<sub>d</sub>):</b>
40-20	<b>Surface Quality:</b>
81.78	<b>Abbe Number (v<sub>d</sub>):</b>
Random	<b>Axis Orientation:</b>
200 - 12000	<b>Wavelength Range (nm):</b>
2λ	<b>Surface Flatness (P-V):</b>

## Material Properties

4.89	<b>Density (g/cm<sup>3</sup>):</b>
18.1	<b>Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C):</b>

## Environmental & Durability Factors

Maximum: 800	<b>Operating Temperature (°C):</b>
--------------	------------------------------------

## Regulatory Compliance

<a href="#">Compliant</a>	<b>RoHS 2015:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>
<a href="#">Compliant</a>	<b>Reach 240:</b>

## Product Details

- Excellent Transmission from 0.2 - 12μm
- Resistant to High-Energy Radiation
- High Transmission without AR Coatings

ISP Optics Barium Fluoride (BaF<sub>2</sub>) Windows provide excellent transmission from 0.2- 12μm without the need for an Anti-Reflection (AR) coating due to its low index of refraction. Barium Fluoride has similar physical properties to Calcium Fluoride, but features higher resistance to high-energy radiation. This makes Barium Fluoride ideal for vacuum UV (VUV) applications such as thermography or laser spectroscopy where high radiation resistance is required. ISP Optics Barium Fluoride (BaF<sub>2</sub>) Windows can be used up to 800°C in a dry environment, but prolonged exposure to moisture can degrade transmission in the ultraviolet range.

**Note:** These optical windows are very sensitive to thermal shock.

## 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

---

;