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38.1mm Dia., 2mm Thick, Uncoated, ISP Optics Barium Fluoride (BaF₂) Window | BF-W-38-2

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Stock ~~#24-498~~ **CLEARANCE** **5 In Stock**

- 1 + C\$333^{.20}

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General

Protective Window	Type:
BF-W-38-2	Model Number:

Physical & Mechanical Properties

Protective as needed	Bevel:
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85	Clear Aperture (%):
32.38	Clear Aperture CA (mm):
38.10 +0.00/-0.13	Diameter (mm):
2.00 ±0.13	Thickness (mm):
Fine Ground	Edges:
82.00	Knoop Hardness (kg/mm²):
<3	Parallelism (arcmin):
0.34	Poisson's Ratio:
53	Young's Modulus (GPa):

Optical Properties	
81.78	Abbe Number (v _d):
Random	Axis Orientation:
Uncoated	Coating:
1.48	Index of Refraction (n _d):
Barium Fluoride (BaF ₂)	Substrate:
2λ	Surface Flatness (P-V):
40-20	Surface Quality:
200 - 12000	Wavelength Range (nm):

Material Properties	
18.1	Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):
4.89	Density (g/cm³):

Environmental & Durability Factors	
Maximum: 800	Operating Temperature (°C):

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

Product Details

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

ISP Optics Barium Fluoride (BaF₂) 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 (BaF₂) 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
