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38.1mm Dia., 4mm Thick, Uncoated, ISP Optics Barium Fluoride (BaF₂) Window | BF-W-38-4

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Stock **#24-500** CLEARANCE **5 In Stock**

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1

+

£160^{.00}

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Volume Pricing	
Qty 1+	£160.00 each
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Product Downloads

General

Protective Window	Type:
BF-W-38-4	Model Number:

Physical & Mechanical Properties

	Bevel:
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Protective as needed	
85	Clear Aperture (%):
32.38	Clear Aperture CA (mm):
38.10 +0.00/-0.13	Diameter (mm):
4.00 ±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):
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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
