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## 50mm Dia x 3mm Thickness Uncoated, Potassium Bromide Window



Stock #68-811 **20+ In Stock**

- 1 + £240<sup>.80</sup>

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Volume Pricing	
Qty 1-10	£240.80 each
Qty 11-25	£216.80 each
Qty 26-49	£204.00 each
Need More?	<a href="#">Request Quote</a>

! Prices shown are exclusive of VAT/local taxes

### Product Downloads

### General

Protective Window **Type:**

Crystal **Type of Window:**

### Physical & Mechanical Properties

50.00 ±0.50 **Diameter (mm):**

3.00 ±0.50	<b>Thickness (mm):</b>
±0.50	<b>Dimensional Tolerance (mm):</b>
Protective as needed	<b>Bevel:</b>
Fine Ground	<b>Edges:</b>
0.20	<b>Poisson's Ratio:</b>
26.8	<b>Young's Modulus (GPa):</b>
7.00	<b>Knoop Hardness (kg/mm<sup>2</sup>):</b>

## Optical Properties

Uncoated	<b>Coating:</b>
Potassium Bromide (KBr)	<b>Substrate:</b> <input type="checkbox"/>
1.56	<b>Index of Refraction (n<sub>d</sub>):</b>
60-40	<b>Surface Quality:</b>
33.64	<b>Abbe Number (v<sub>d</sub>):</b>
250 - 26000	<b>Wavelength Range (nm):</b>

## Material Properties

2.753	<b>Density (g/cm<sup>3</sup>):</b>
43	<b>Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C):</b>
53.48	<b>Solubility, in 100g of H<sub>2</sub>O @ 273K (g):</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 250nm – 26µm
- Good Resistance to Mechanical Shock
- Ideal for FTIR Spectroscopy
- [Sodium Chloride \(NaCl\) Windows](#) Also Available

Potassium Bromide (KBr) Windows are ideal for FTIR spectroscopy. KBr has a slightly more extensive spectral range than Sodium Chloride (NaCl) and has excellent transmission from 250nm – 26µm. Its index of refraction varies from 1.46 - 1.59 over this range. KBr is water soluble, and its surfaces should be protected from exposure to moisture. Exposure to moisture will degrade the surface of the window. Potassium Bromide (KBr) Windows provide good resistance to mechanical shock, can be easily cleaved, and can be used in temperatures up to 300°C. KBr has a density of 2.75g/cm<sup>3</sup> and a Knoop Hardness of 7.0.

## Technical Information



## 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

## Compatible Mounts

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