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



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

S\$421⁴⁰

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Volume Pricing	
Qty 1-10	S\$421.40 each
Qty 11-25	S\$379.40 each
Qty 26-49	S\$357.00 each
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Product Downloads

General

Protective Window Type:
 Crystal Type of Window:

Physical & Mechanical Properties

50.00 ±0.50 Diameter (mm):

3.00 ±0.50	Thickness (mm):
±0.50	Dimensional Tolerance (mm):
Protective as needed	Bevel:
Fine Ground	Edges:
0.20	Poisson's Ratio:
26.8	Young's Modulus (GPa):
7.00	Knoop Hardness (kg/mm²):

Optical Properties

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

Material Properties

2.753	Density (g/cm³):
43	Coefficient of Thermal Expansion CTE (10⁻⁶/°C):
53.48	Solubility, in 100g of H₂O @ 273K (g):

Regulatory Compliance

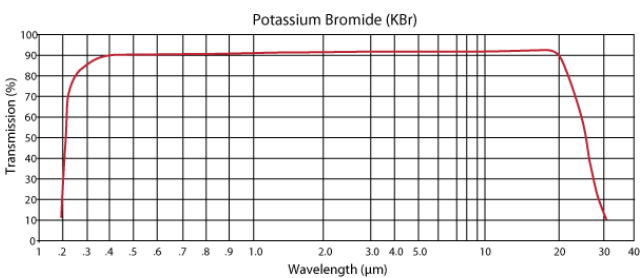
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 240:

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/cm³ 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
