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25.4mm Dia., 4mm Thick, Uncoated, ISP Optics Thallium Bromoiodide (KRS-5) Window | K5-W-25-4

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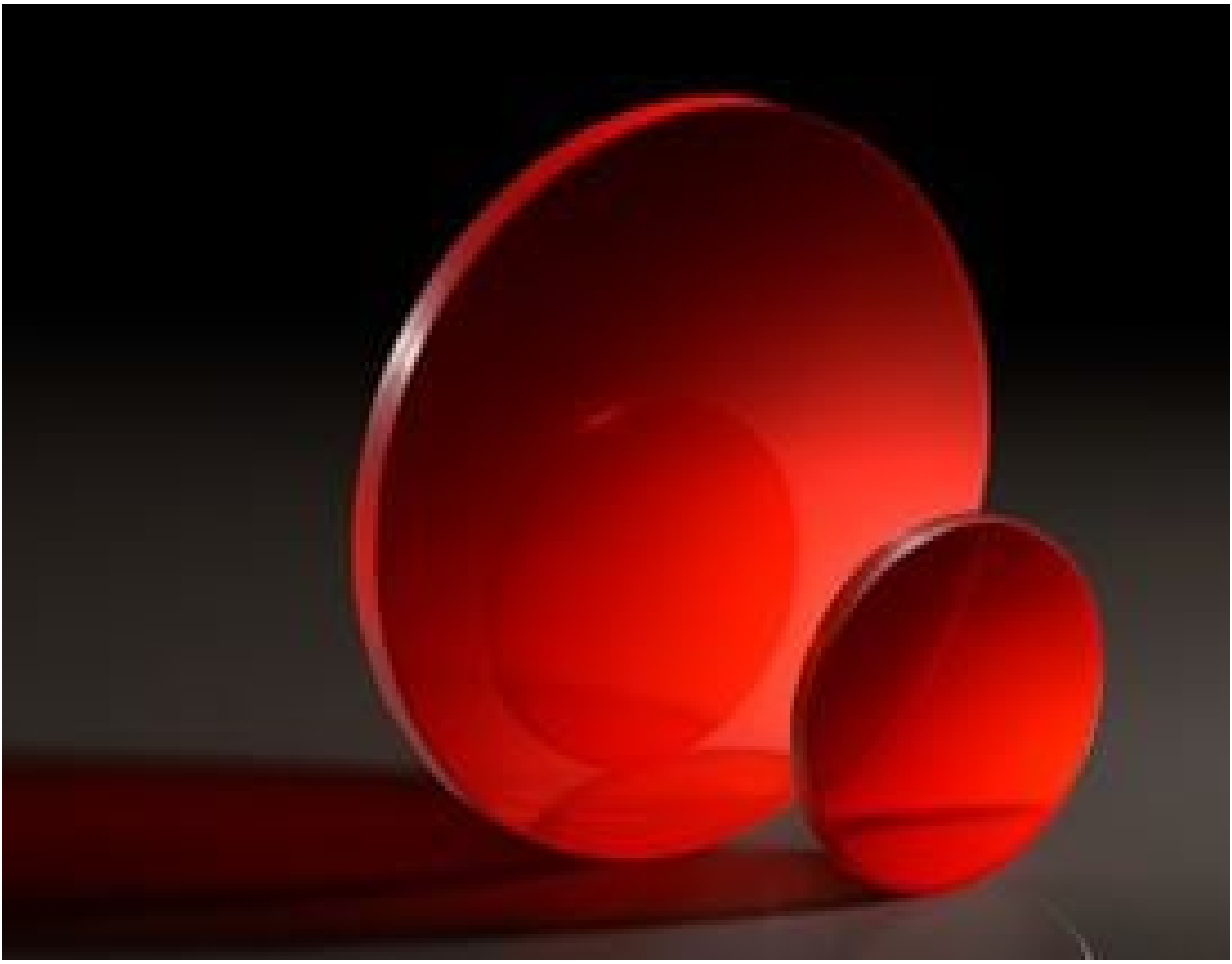

Thallium Bromoiodide (KRS-5) Windows

Stock **#24-604** CLEARANCE **2 In Stock**

- 1 + **₹67,950**

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Volume Pricing	
Qty 1+	**₹67,950** each
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Product Downloads

General

Model Number:
K5-W-25-4

Type:
Protective Window

Physical & Mechanical Properties

Clear Aperture CA (mm):
21.59

Diameter (mm):
25.40 +0.00/-0.13

Thickness (mm):
4.00 ±0.13

Parallelism (arcmin):
<3

Bevel:
Protective as needed

Clear Aperture (%):
85

Edges:
Fine Ground

Poisson's Ratio:
0.37

Young's Modulus (GPa):
31

Knoop Hardness (kg/mm^2):
40.20

Optical Properties

Coating:
Uncoated

Substrate:
Thallium Bromoiodide (KRS-5)

Index of Refraction (n_d):
2.45 @ 1µm 2.38 @ 4µm 2.37 @ 10µm 2.21 @ 40µm

Surface Quality:
60-40

Wavelength Range (nm):
700 - 40000

Surface Flatness (P-V):
λ/10 @ 10.6µm

Material Properties

Density (g/cm^3):
7.37

Coefficient of Thermal Expansion CTE (10^{-6}/°C):
6.0

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

Reach 240:
Compliant

Country of Origin:
Latvia

Imported By:
Edmund Optics India Private Limited

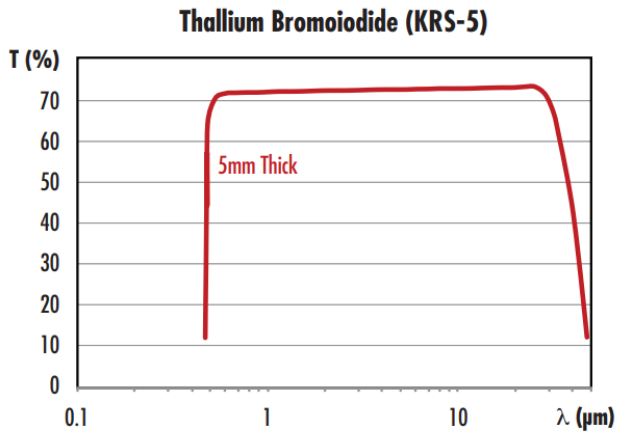
Product Details

- Broad Transmission from 700nm - 40µm
- Non-Hydroscopic
- Ideal for FTIR Spectroscopy with Aqueous Samples

ISP Optics Thallium Bromoiodide (KRS-5) Windows provide flat transmission across the broad wavelength range of 700nm - 40µm. KRS-5 is non-hygroscopic and relatively insoluble in water, allowing for its use in FTIR spectroscopy as liquid cell windows for the analysis of aqueous samples. These windows also have good chemical resistance except against strong acids. ISP Optics Thallium Bromoiododide (KRS-5) Windows are ideal for use in FTIR spectroscopy, as protective windows for acid-sensitive or hygroscopic optics, or as substrates for infrared holographic polarizers.

Note: Thallium bromoiodide (KRS-5) is a toxic material that can be absorbed through the skin. Gloves must be worn while handling this material. KRS-5 has a tendency to cold flow and the shape of these optics may change over time.

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

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