

50.8mm Dia., 3mm Thick, Uncoated, ISP Optics Thallium Bromoiodide (KRS-5) Window | K5-W-50-3

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Thallium Bromoiodide (KRS-5) Windows

Stock **#16-803** CLEARANCE **2 In Stock**

-

1

+

A\$3,992<sup>00</sup>

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SPECIFICATIONS

General

Protective Window

Type:

Model Number:

|                                                        |                                                              |
|--------------------------------------------------------|--------------------------------------------------------------|
| K5-W-50-3                                              |                                                              |
| Physical & Mechanical Properties                       |                                                              |
| Protective as needed                                   | Bevel:                                                       |
| 85                                                     | Clear Aperture (%):                                          |
| 43.18                                                  | Clear Aperture CA (mm):                                      |
| 50.80 +0.00/-0.13                                      | Diameter (mm):                                               |
| 3.00 ±0.13                                             | Thickness (mm):                                              |
| Fine Ground                                            | Edges:                                                       |
| 40.20                                                  | Knoop Hardness (kg/mm²):                                     |
| <3                                                     | Parallelism (arcmin):                                        |
| 0.37                                                   | Poisson's Ratio:                                             |
| 31                                                     | Young's Modulus (GPa):                                       |
| Optical Properties                                     |                                                              |
| Uncoated                                               | Coating:                                                     |
| 2.45 @ 1µm<br>2.38 @ 4µm<br>2.37 @ 10µm<br>2.21 @ 40µm | Index of Refraction (n <sub>d</sub> ):                       |
| Thallium Bromiodide (KRS-5)                            | Substrate:                                                   |
| N10 @ 10.6µm                                           | Surface Flatness (P-V):                                      |
| 60-40                                                  | Surface Quality:                                             |
| 700 - 40000                                            | Wavelength Range (nm):                                       |
| Material Properties                                    |                                                              |
| 6.0                                                    | Coefficient of Thermal Expansion CTE (10 <sup>-6</sup> /°C): |
| 7.37                                                   | Density (g/cm³):                                             |
| Regulatory Compliance                                  |                                                              |
| Compliant                                              | RoHS 2015:                                                   |
| View                                                   | Certificate of Conformance:                                  |
| Compliant                                              | Reach 240:                                                   |

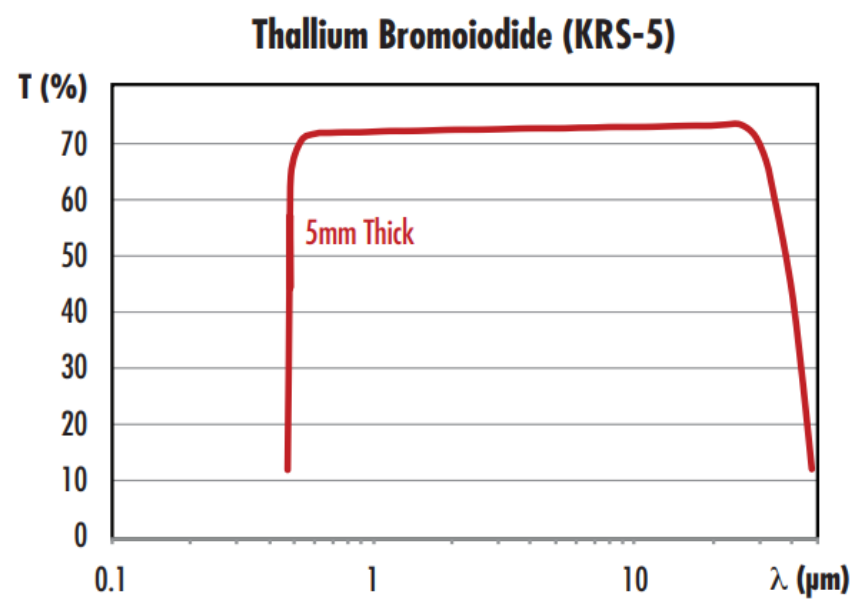
## PRODUCT DETAILS

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

ISP Optics Thallium Bromiodide (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 Bromiododide (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 bromiodide (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