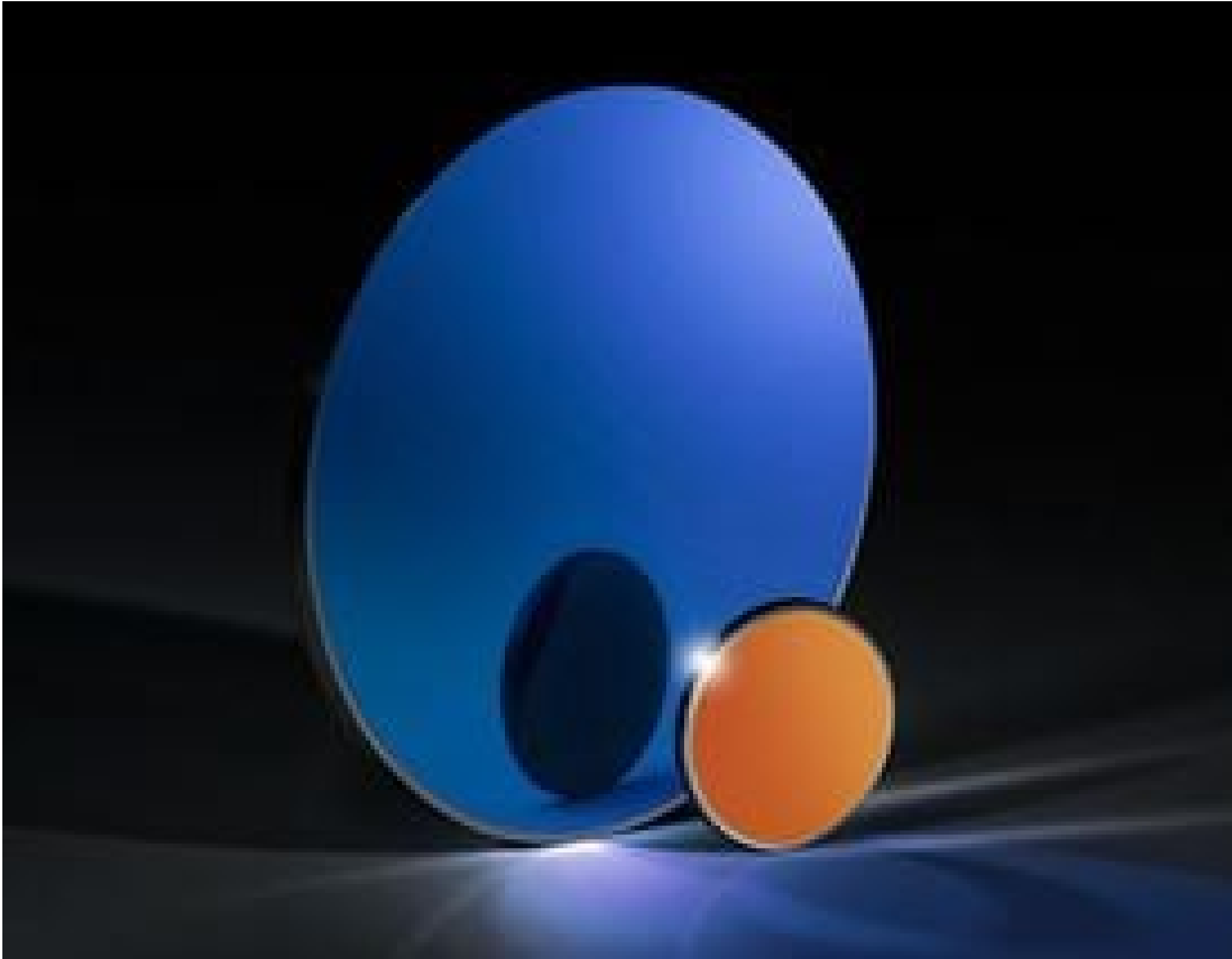


50.8mm Dia., 6mm Thick, 3-5µm BBAR Coated, ISP Optics Silicon (Si) Window | HDAR35-SI-W-50-6

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Stock **#24-644** CLEARANCE **3 In Stock**

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SPECIFICATIONS

General

Protective Window

Type:

HDAR35-SI-W-50-6

Model Number:

| Physical & Mechanical Properties                                   |                                                              |
|--------------------------------------------------------------------|--------------------------------------------------------------|
| Protective as needed                                               | Bevel:                                                       |
| 85                                                                 | Clear Aperture (%):                                          |
| 43.18                                                              | Clear Aperture CA (mm):                                      |
| 50.80 +0.00/-0.13                                                  | Diameter (mm):                                               |
| 6.00 ±0.13                                                         | Thickness (mm):                                              |
| Fine Ground                                                        | Edges:                                                       |
| 1,150.00                                                           | Knoop Hardness (kg/mm²):                                     |
| <3                                                                 | Parallelism (arcmin):                                        |
| 0.27                                                               | Poisson's Ratio:                                             |
| 140                                                                | Young's Modulus (GPa):                                       |
| Optical Properties                                                 |                                                              |
| BBAR (3000-5000nm)                                                 | Coating:                                                     |
| R<sub>avg</sub> <0.5% @ 3 - 5µm<br>R<sub>abs</sub> <1.5% @ 3 - 5µm | Coating Specification:                                       |
| 3.422 @ 5µm                                                        | Index of Refraction (n <sub>d</sub> ):                       |
| <a href="#">Silicon (Si)</a>                                       | Substrate:                                                   |
| 2λ                                                                 | Surface Flatness (P-V):                                      |
| 40-20                                                              | Surface Quality:                                             |
| 3000 - 5000                                                        | Wavelength Range (nm):                                       |
| Material Properties                                                |                                                              |
| 2.55                                                               | Coefficient of Thermal Expansion CTE (10 <sup>-6</sup> /°C): |
| 2.33                                                               | Density (g/cm³):                                             |
| Regulatory Compliance                                              |                                                              |
| <a href="#">View</a>                                               | Certificate of Conformance:                                  |

## PRODUCT DETAILS

- Transmission from 1.2 - 7µm
- Available Uncoated or HDAR Coated for 3 - 5µm
- Ideal for Weight Sensitive Applications

ISP Optics Silicon (Si) Windows provide transmission in the Near-Infrared (NIR) and Mid-Wave Infrared (MMR) from 1.2 - 7µm. Silicon features a Knoop Hardness of 1150, making it harder and less brittle than Germanium. A High-Durability Anti-Reflection (HDAR) coating option increases the durability of the substrate while significantly improving transmission from 3 - 5µm, enabling use in harsh environments. ISP Optics Silicon (Si) Windows are ideal for weight-sensitive IR applications due to its low density of 2.329 g/cm³, which is half as dense as Germanium and Zinc Selenide. These windows are ideal for NIR imaging applications and are important for detection of sources radiating at a black body temperature of 700K.