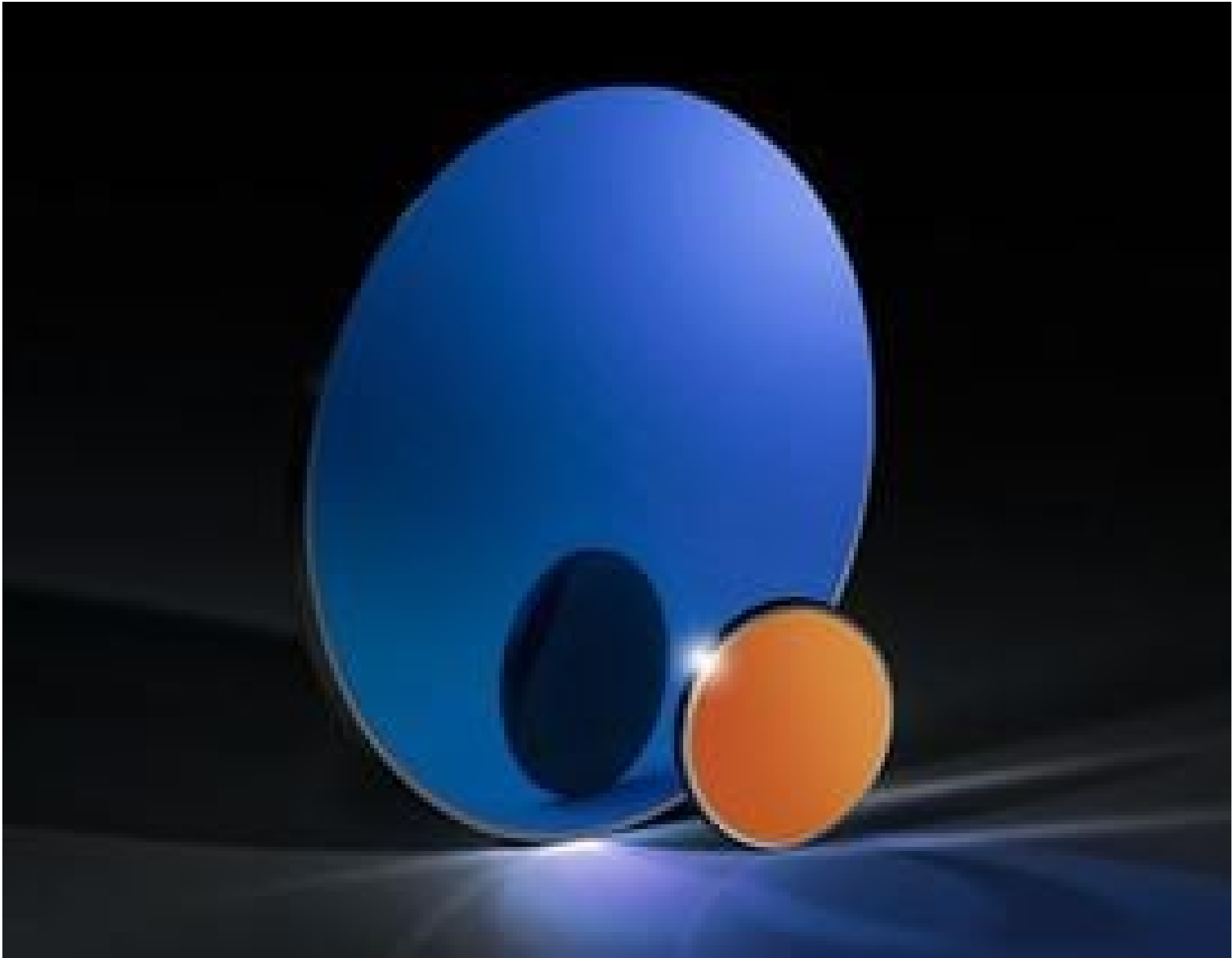


50.8mm Dia., 6mm Thick, 3-5µm BBAR Coated, ISP Optics Silicon (Si) Window | HDAR35-SI-W-50-6

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-

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£225⁶⁰

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General

Type:

Protective Window

Model Number:

HDAR35-SI-W-50-6

Physical & Mechanical Properties

Bevel:

Protective as needed	
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_{avg} <0.5% @ 3 - 5µm R_{abs} <1.5% @ 3 - 5µm	Coating Specification:
3.422 @ 5µm	Index of Refraction (n _d):
Silicon (Si)	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 ⁻⁶ /°C):
2.33	Density (g/cm³):

Regulatory Compliance	
View	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 (MMIR) 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.