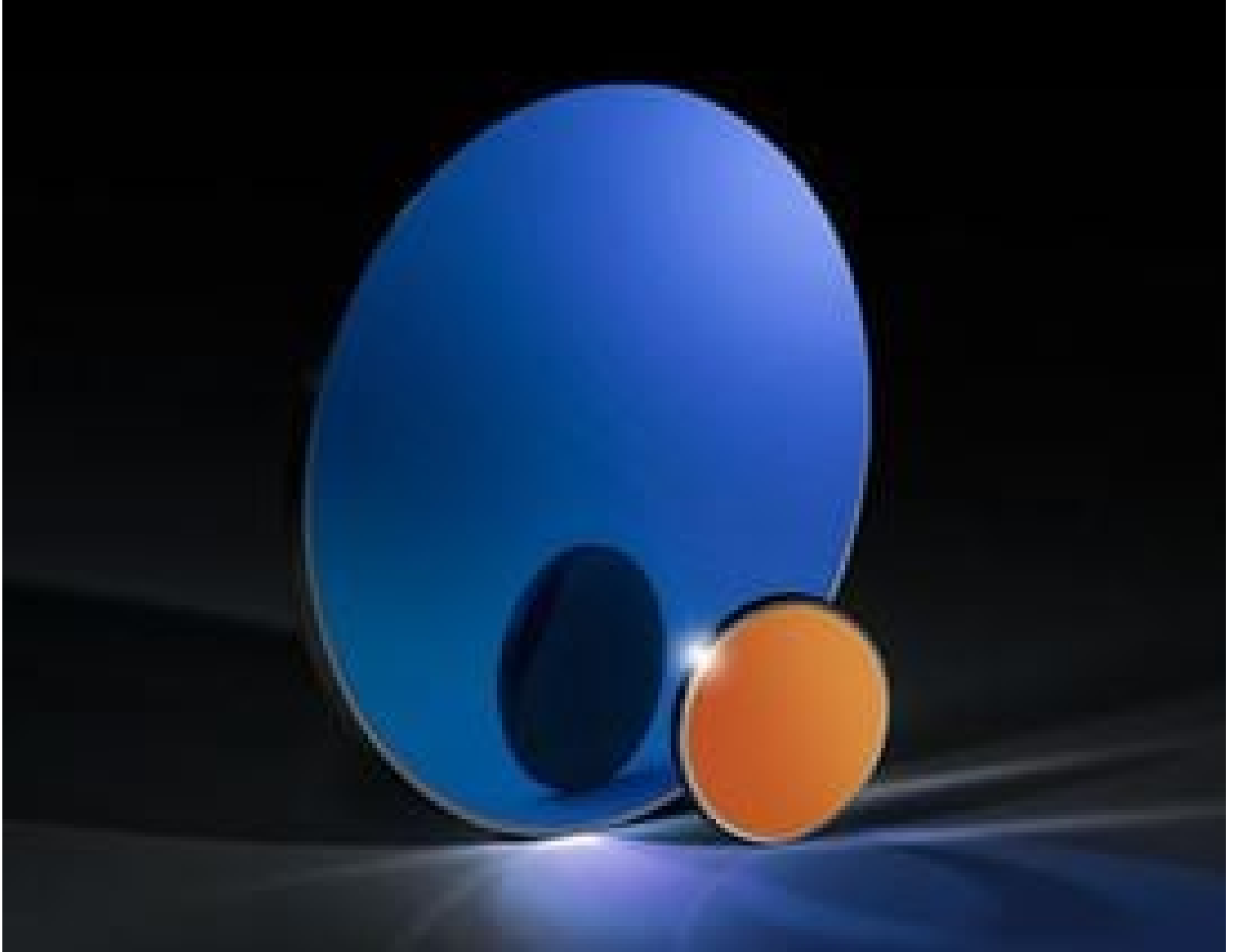


[See all 3 Products in Family](#)

# 25.4mm Dia., 1mm Thick, 3-5µm BBAR Coated, ISP Optics Silicon (Si) Window | HDAR35-SI-W-25-1

See More by [ISP Optics](#)



Stock #24-638 **CLEARANCE** 12 In Stock

- 1 + €111.<sup>00</sup>

**ADD TO CART**

#### Volume Pricing

Qty 1+	€111,00 each
Need More?	<a href="#">Request Quote</a>

**i** Prices shown are exclusive of VAT/local taxes

#### Product Downloads

#### General

HDAR35-SI-W-25-1 **Model Number:**

Protective Window **Type:**

Crystal **Type of Window:**

## Physical & Mechanical Properties

21.59	Clear Aperture CA (mm):
25.40 +0.00/-0.13	Diameter (mm):
1.00 ±0.13	Thickness (mm):
<3	Parallelism (arcmin):
Protective as needed	Bevel:
85	Clear Aperture (%):
Fine Ground	Edges:
0.27	Poisson's Ratio:
140	Young's Modulus (GPa):
1,150.00	Knoop Hardness (kg/mm <sup>2</sup> ):

## Optical Properties

BBAR (3000-5000nm)	Coating:
<a href="#">Silicon (Si)</a>	Substrate: <input type="checkbox"/>
3.422 @ 5μm	Index of Refraction (n <sub>d</sub> ):
40-20	Surface Quality:
Coating Specification: R <sub>avg</sub> <0.5% @ 3 - 5μm R <sub>abs</sub> <1.5% @ 3 - 5μm	
3000 - 5000	Wavelength Range (nm):
2λ	Surface Flatness (P-V):

## Material Properties

2.33	Density (g/cm <sup>3</sup> ):
2.55	Coefficient of Thermal Expansion CTE (10 <sup>-6</sup> /°C):

## 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 (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/cm<sup>3</sup>, 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.