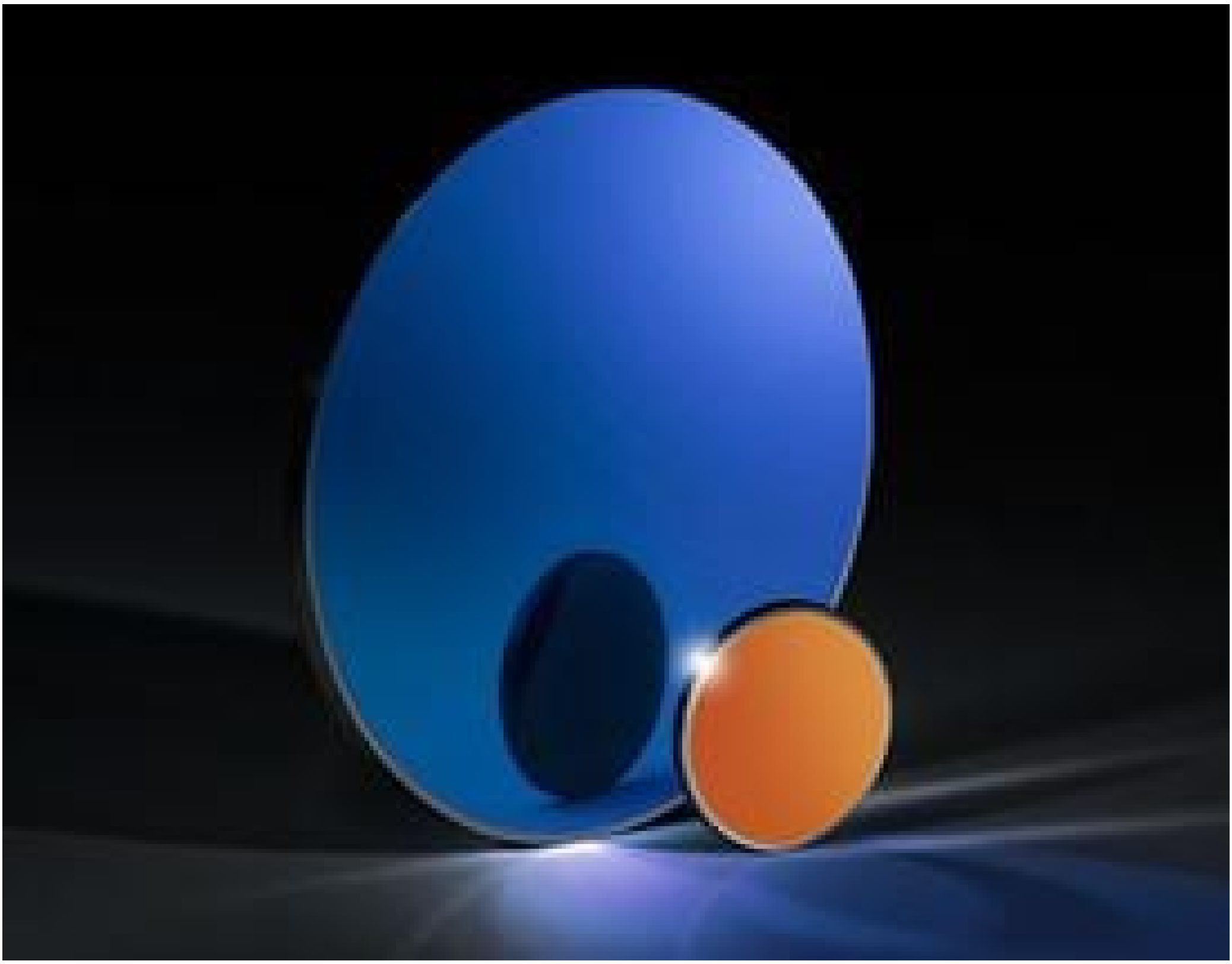
See all 4 Products in Family

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 **14 In Stock**

- 1 + **€111**.00

ADD TO CART

Volume Pricing	
Qty 1+	**€111,00** each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:
Protective Window

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

Physical & Mechanical Properties

Bevel:

Protective as needed

Clear Aperture (%):
85

Clear Aperture CA (mm):
21.59

Diameter (mm):
25.40 +0.00/-0.13

Thickness (mm):
1.00 ±0.13

Edges:
Fine Ground

Knoop Hardness (kg/mm^2):
1,150.00

Parallelism (arcmin):
<3

Poisson's Ratio:
0.27

Young's Modulus (GPa):
140

Optical Properties

Coating:
BBAR (3000-5000nm)

Coating Specification:
R_{avg} <0.5% @ 3 - 5µm
R_{abs} <1.5% @ 3 - 5µm

Index of Refraction (n_d):
3.422 @ 5µm

Substrate:
Silicon (Si)

Surface Flatness (P-V):
2λ

Surface Quality:
40-20

Wavelength Range (nm):
3000 - 5000

Material Properties

Coefficient of Thermal Expansion CTE (10^{-6}/°C):
2.55

Density (g/cm^3):
2.33

Regulatory Compliance

Certificate of Conformance:
View

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 (MWIR) 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^3, 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.