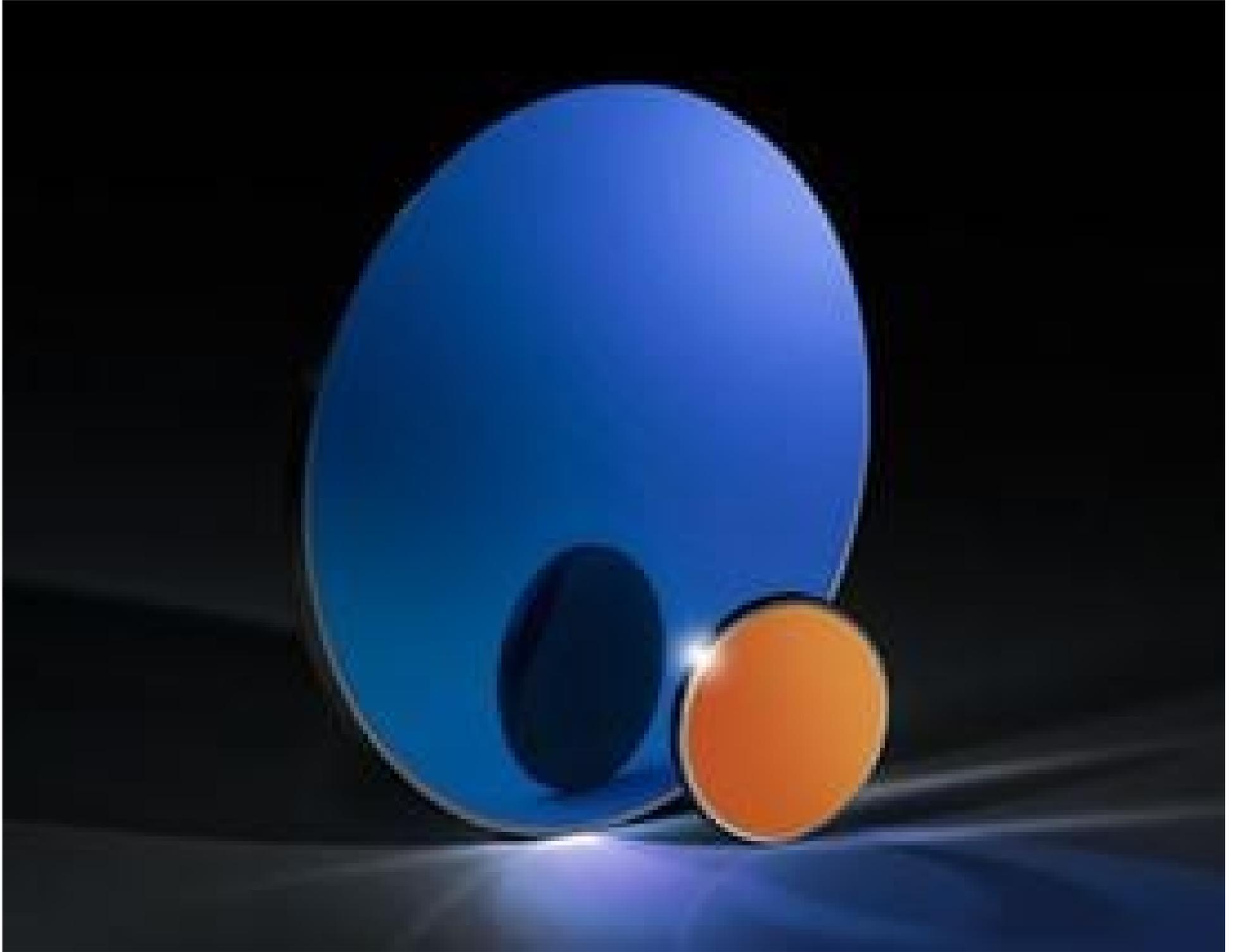


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12.7mm Dia., 2mm Thick, Uncoated, ISP Optics Silicon (Si) Window | SI-W-12-2

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Stock #24-624 **CLEARANCE** 15 In Stock

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Product Downloads

General

SI-W-12-2 **Model Number:**

Protective Window **Type:**

Physical & Mechanical Properties

10.79 **Clear Aperture CA (mm):**

Diameter (mm):

12.70 +0.00/-0.13

2.00 ±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/mm²):**

Optical Properties

Uncoated **Coating:**

[Silicon \(Si\)](#) **Substrate:**

3.422 @5µm **Index of Refraction (n_d):**

40-20 **Surface Quality:**

1200 - 7000 **Wavelength Range (nm):**

2λ **Surface Flatness (P-V):**

Material Properties

2.33 **Density (g/cm³):**

2.55 **Coefficient of Thermal Expansion CTE (10⁻⁶/°C):**

Regulatory Compliance

[Compliant](#) **RoHS 2015:**

[View](#) **Certificate of Conformance:**

[Compliant](#) **Reach 240:**

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.