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

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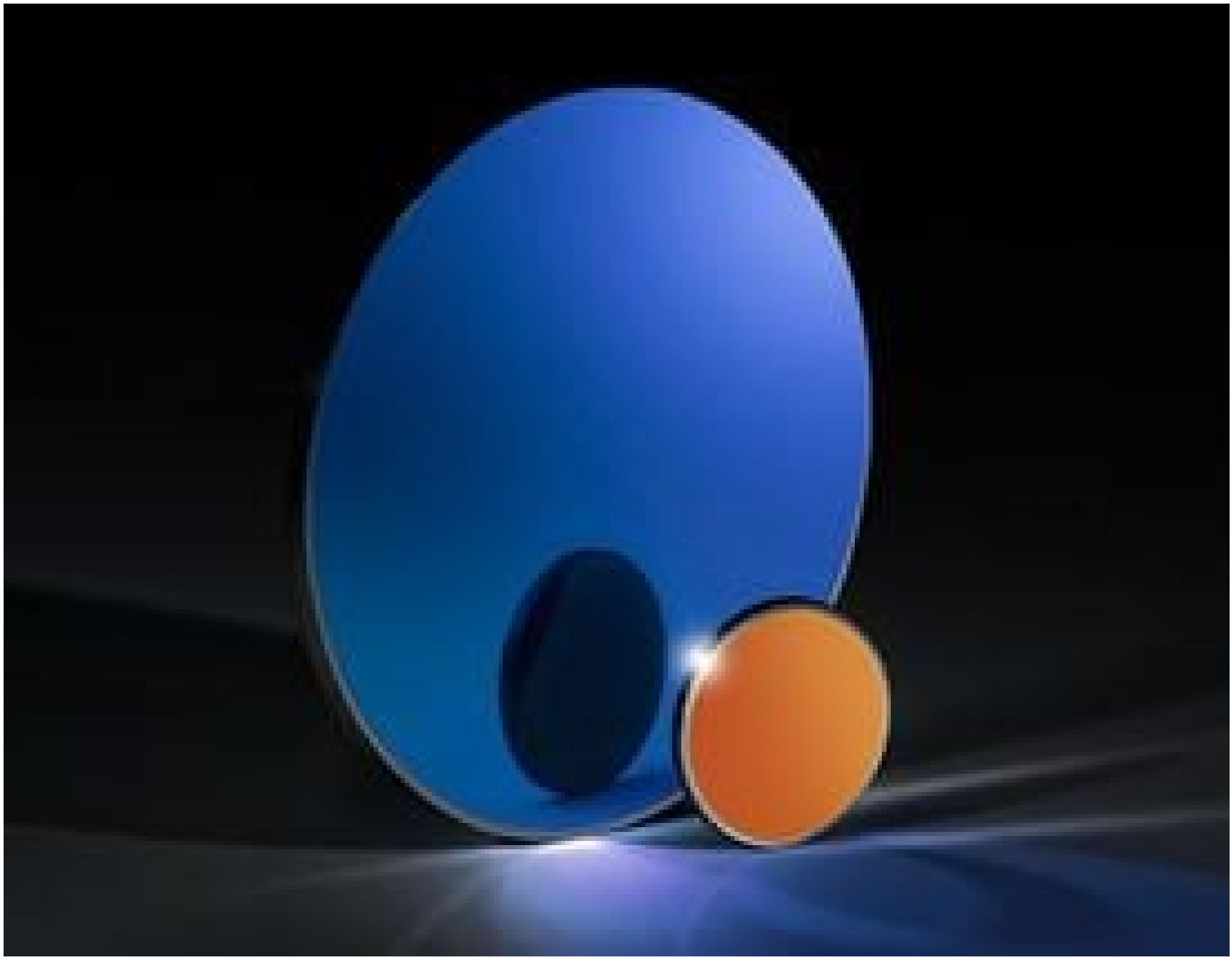

Stock **#24-624** CLEARANCE **15 In Stock**

- 1 + **MRP ₹9,022**

Price inclusive of all taxes

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Qty 1+	**₹9,022** each
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Product Downloads

General

Model Number:
SI-W-12-2

Type:
Protective Window

Type of Window:
Crystal

Physical & Mechanical Properties

Clear Aperture CA (mm):
10.79

Diameter (mm):
12.70 +0.00/-0.13

Thickness (mm):
2.00 ±0.13

Parallelism (arcmin):
<3

Bevel:
Protective as needed

Clear Aperture (%):
85

Edges:
Fine Ground

Poisson's Ratio:
0.27

Young's Modulus (GPa):
140

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

Optical Properties

Coating:
Uncoated

Substrate:
Silicon (Si)

Index of Refraction (n_d):
3.422 @ 5µm

Surface Quality:
40-20

Wavelength Range (nm):
1200 - 7000

Surface Flatness (P-V):
2λ

Material Properties

Density (g/cm^3):
2.33

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

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

Reach 240:
Compliant

Country of Origin:
Latvia

Imported By:
Edmund Optics India Private Limited
267, Greystone Building, Second Floor,
6th Cross Rd, Binnamangala,
Stage 1, Indiranagar, Bengaluru,
Karnataka, India 560038
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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.

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