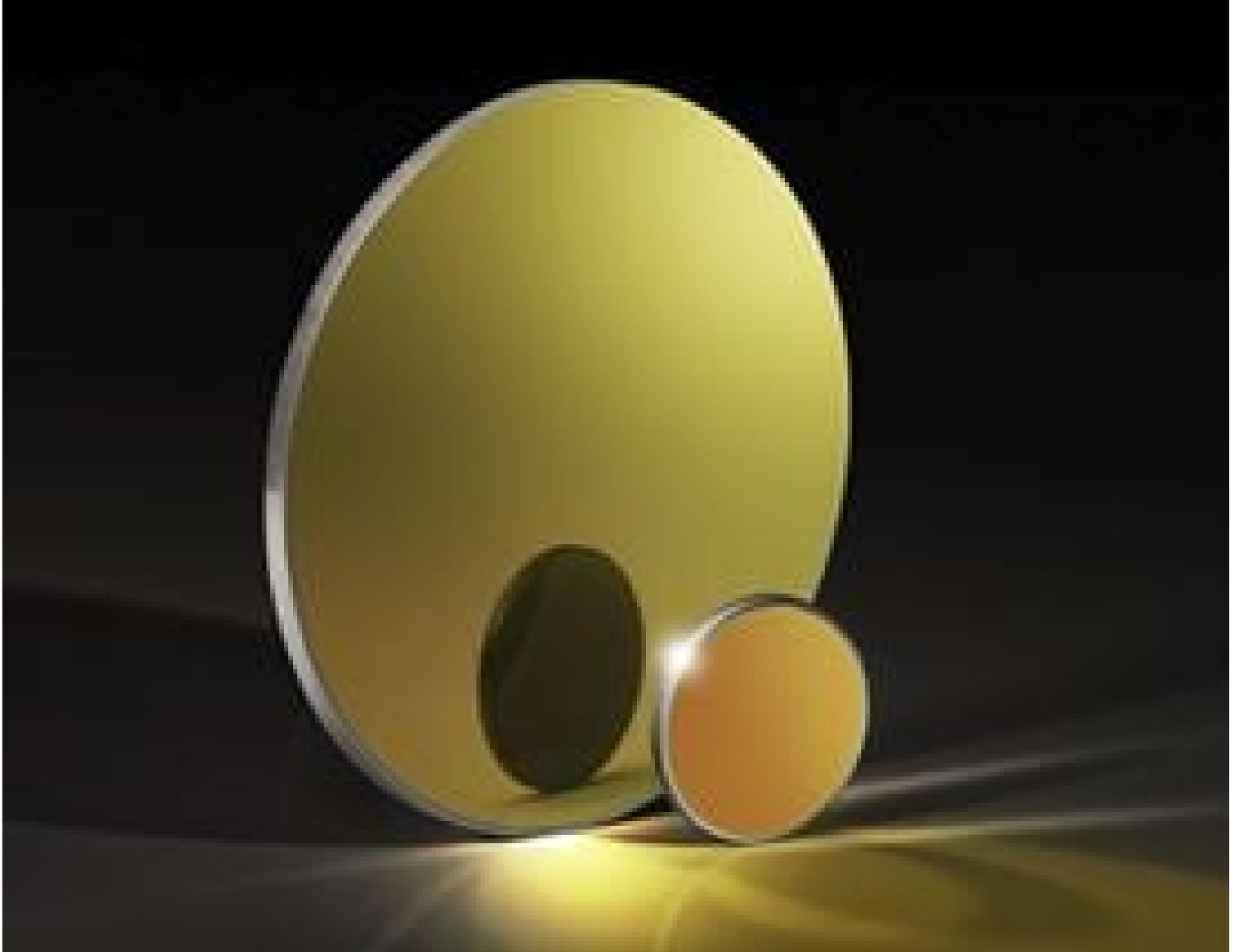


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25.4mm Dia. x 2mm Thick, 3-5µm AR Coated & DLC Coated, ISP Optics Silicon (Si) Window | DLC35-SI-W-25-2

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Diamond-Like Carbon (DLC) Coated Silicon Windows

Stock #16-816 **CLEARANCE** 1 In Stock

- 1 + €319⁰⁰

ADD TO CART

Volume Pricing

Qty 1+	€319,00 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Protective Window **Type:**

Arrow on substrate edge points towards DLC coated surface **Note:**

DLC35-SI-W-25-2 **Model Number:**

Physical & Mechanical Properties

Protective as needed	Bevel:
85	Clear Aperture (%):
21.59	Clear Aperture CA (mm):
25.40 +0.00/-0.13	Diameter (mm):
2.00 ±0.13	Thickness (mm):
Fine Ground	Edges:
1,150.00	Knoop Hardness (kg/mm²):
<3	Parallelism (arcmin):

Optical Properties

S1: DLC Coating S2: BBAR (3000-5000nm)	Coating:
AR: R _{avg} ≤0.5% @ 3000 - 5000nm	Coating Specification:
Silicon (Si)	Substrate:
M10 @ 10.6µm	Surface Flatness (P-V):
40-20	Surface Quality:
3000 - 5000	Wavelength Range (nm):
AR: -80 to +160 per ML-C-48497C DLC: -80 to +160 per ML-C-48497C	Coating Temperature (°F):

Environmental & Durability Factors

AR: Moderate, per ML-C-48497C DLC: Severe, per ML-C-48497C	Coating Abrasion:
AR: per ML-C-48497C DLC: per ML-C-48497C	Coating Adhesion:
AR: 24 Hours per ML-C-48497C DLC: 24 Hours per ML-C-48497C	Coating Humidity:
AR: N/A DLC: ≥24 Hours Immersion per ML-C-675C	Coating Salt Solubility:
AR: N/A ≥72 Hours per ML-C-675	Coating Salt Spray:
AR: per ML-C-48497 DLC: per ML-C-48497	Coating Solubility and Cleaning:
AR: N/A DLC: ≥1,000 Wipes of Sand/Slurry per TS-1888	Coating Wiper Durability:

Regulatory Compliance

Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 240:

Product Details

- Meets Severe Abrasion Requirements of ML-F-48616 and ML-C-48497C
- High Transmission from 3 – 5µm
- Ideal for Harsh Environments
- [Diamond-Like Carbon \(DLC\) Coated Germanium Windows](#) Also Available

ISP Optics Diamond-Like Carbon (DLC) Coated Silicon Windows provide anti-reflection coating on one surface and a specially designed DLC coating on the other surface, making these windows highly durable and ideal for harsh environments. The DLC Coated surface is designed to withstand temperature cycling from -80 to +160°F, salt spray for a continuous period of 72 hours, and 1,000 wiper oscillations in a sand and slurry mixture. Further, these windows meet the ML-F-48616 and ML-C-48497C requirements for severe abrasion. Silicon features a Knoop Hardness of 1150 and low density, making it tougher than germanium substrates and suitable for weight-sensitive applications, respectively. ISP Optics Diamond-Like Carbon (DLC) Coated Silicon Windows are engineered for 3 to 5µm, making them ideal for infrared defense applications such as thermal imaging.

Technical Information

Specification	AR Coating	DLC Coating
Adhesion	per MIL-C-48497C	per MIL-C-48497C
Abrasion	Moderate, per MIL-C-48497C	Severe, per MIL-C-48497C
Humidity	24 Hours per MIL-C-48497C	24 Hours per MIL-C-48497C
Salt Solubility	-	≥24 Hours Immersion per MIL-C-675C
Salt Spray	-	≥72 Hours per MIL-C-675
Temperature (°F)	-80 to +160 per MIL-C-48497C	-80 to +160 per MIL-C-48497C
Solubility and Cleaning	per MIL-C-48497	per MIL-C-48497
Wiper	-	≥1,000 Wipes of Sand/Slurry per TS-1888
Coating Temperature (°F)	-80 to +160 per MIL-C-48497C	-80 to +160 per MIL-C-48497C

Custom

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).