

2.5mm Dia., 0.5mm Thick, Coherent® Uncoated Polycrystalline CVD Diamond Window

See More by [Coherent®](#)



Stock **#74-069** NEW **9 In Stock**

-

1

+

A\$1,088⁰⁰

ADD TO CART

Volume Pricing	
Qty 1+	A\$1,088.00 each
Need More?	Request Quote

Product Downloads

General

Type: Protective Window

Physical & Mechanical Properties

Clear Aperture CA (mm): 2.25

Diameter (mm): 2.50 ±0.05

Thickness (mm): 0.50 ±0.10

<5	Parallelism (arcmin):
Protective as needed	Bevel:
90	Clear Aperture (%):
Optical Properties	
Uncoated	Coating:
Coherent® Optical Grade Polycrystalline CVD Diamond	Substrate: ☐
2.38 @ 10.6µm	Index of Refraction (n _d):
40-20	Surface Quality:
300 - 25000	Wavelength Range (nm):
Regulatory Compliance	
View	Certificate of Conformance:

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](#).

Product Details

- High Transmission Across UV, FIR, and Microwave Spectra
- High Thermal Conductivity for Use with High Power Lasers
- Exceptional Hardness for Ultimate Scratch Resistance
- Coherent® Manufactured

Coherent® Optical Grade Polycrystalline CVD Diamond Windows feature high transmission across the ultraviolet (UV), far infrared (FIR), and microwave wavelength spectra. Manufactured from plasma chemical vapor deposited diamond by Coherent®, these windows offer high-purity, uniformity, and ultimate scratch resistance. These windows also have exceptional chemical resistance and biocompatibility, enabling their use in harsh environments as well as in medical applications. Coherent® Optical Grade Polycrystalline CVD Diamond Windows are used as exit windows of high-power CO₂ lasers, offering higher thermal conductivity and lower absorption than other infrared materials to minimize effects on beam quality. Other common applications include their use as microwave windows in diamond-based nuclear detectors, general microwave engineering, and multi-spectral optic systems. Custom coating opportunities, including anti-reflection and high-reflectivity coatings, are available. Please [contact us](#) for more information.

Note: II-VI Incorporated is now Coherent Corp.

Technical Information

