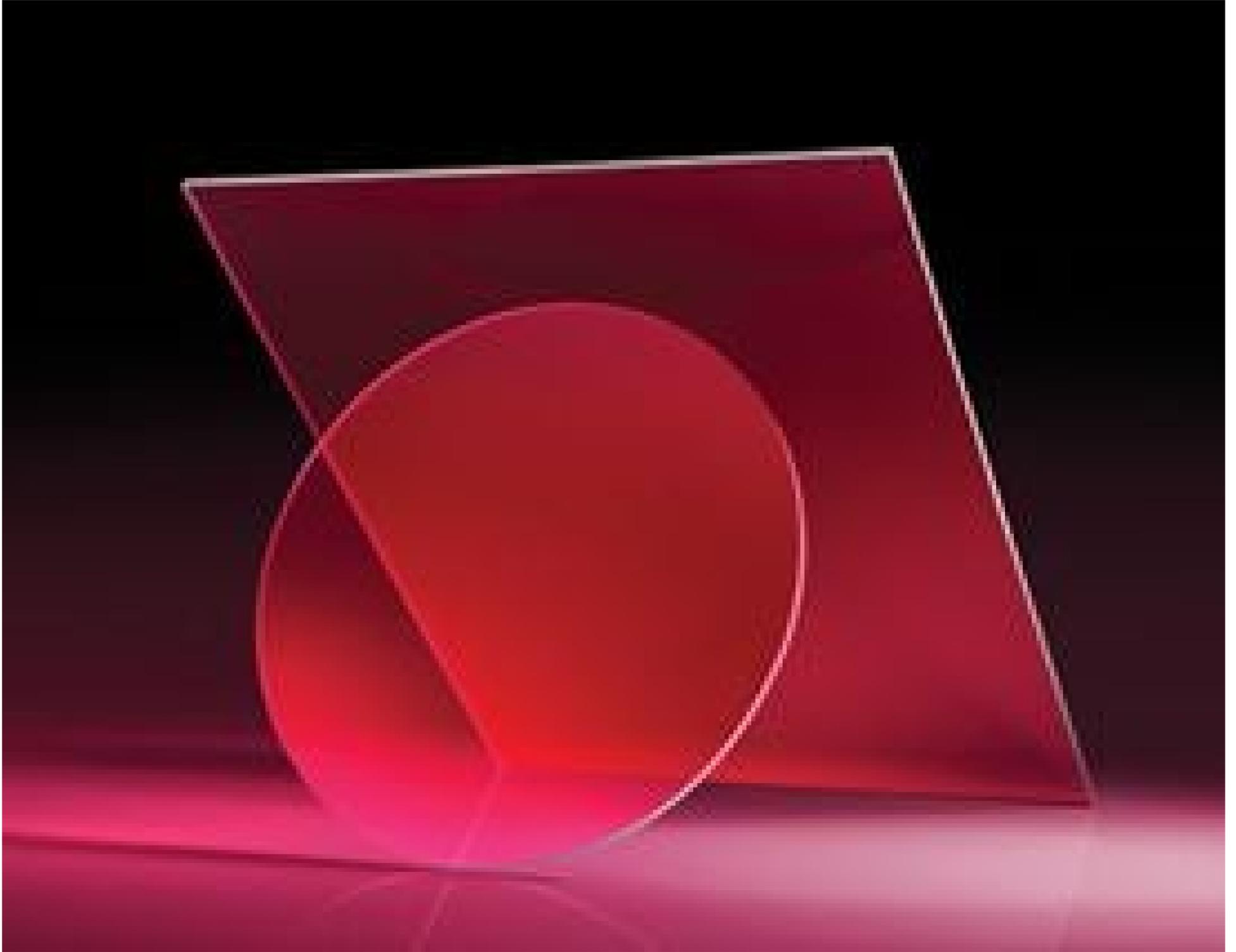


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## 2.5mm Dia., 0.5mm Thick, Coherent® Uncoated Polycrystalline CVD Diamond Window

See More by [Coherent®](#)



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

- 1 + **£544.<sup>00</sup>**

**ADD TO CART**

### Volume Pricing

Qty 1+	<b>£544.00</b> each
Need More?	<a href="#">Request Quote</a>

**!** Prices shown are exclusive of VAT/local taxes

### Product Downloads

#### General

Protective Window **Type:**

#### Physical & Mechanical Properties

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

2.50 ±0.05 **Diameter (mm):**

**Thickness (mm):**

0.50 ±0.10

Parallelism (arcmin):

<5

Bevel:

Protective as needed

Clear Aperture (%):

90

## Optical Properties

Coating:

Uncoated

Substrate:

Coherent® Optical Grade Polycrystalline CVD  
Diamond

Index of Refraction ( $n_d$ ):

2.38 @ 10.6µm

Surface Quality:

40-20

Wavelength Range (nm):

300 - 25000

## Regulatory Compliance

Certificate of Conformance:

[View](#)

## Product Details

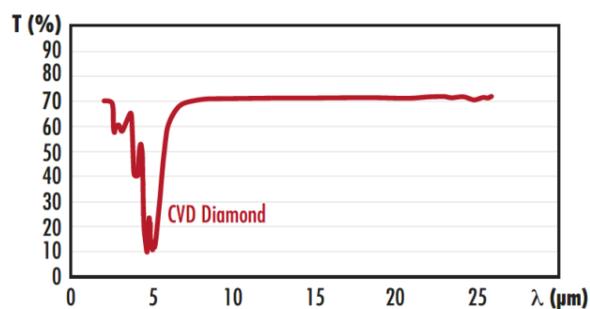
- High Transmission Across UV, FIR, and Microwave Spectra
- High Thermal Conductivity for Use with High Power Lasers
- Exceptional Hardness for Ultimate Scratch Resistance
- Coherent® Manufactured

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 CO<sub>2</sub> 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

Infrared Windows Transmission



## 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](#).