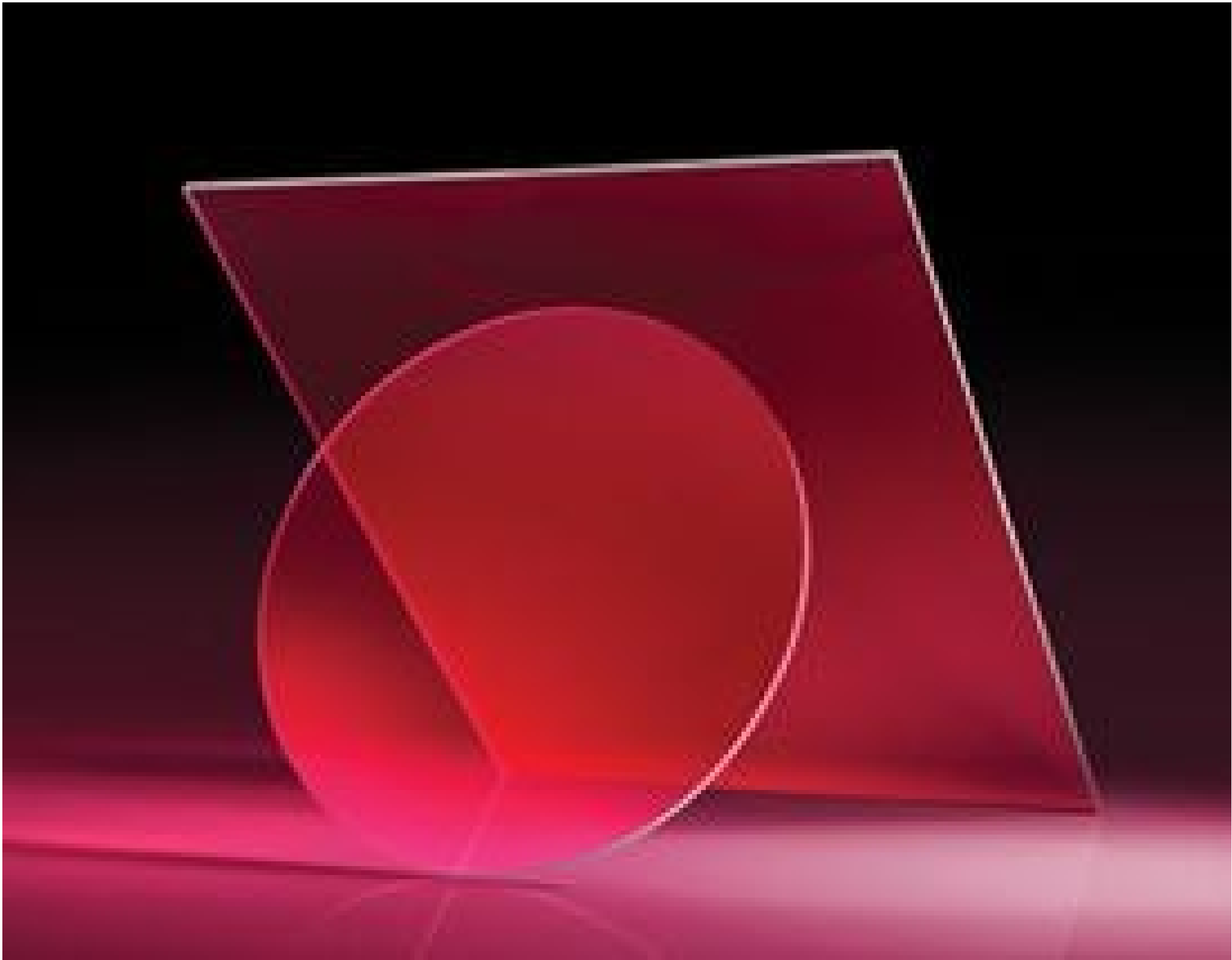


# 12.5mm Dia., 0.7mm Thick, Coherent® Uncoated Polycrystalline CVD Diamond Window

See More by [Coherent®](#)



Stock #74-071 NEW 1 In Stock

-

1

+

A\$5,152<sup>00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1+         | A\$5,152.00 each              |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

General

Protective Window

Type:

Physical & Mechanical Properties

10.75

Clear Aperture CA (mm):

12.50 ±0.05

Diameter (mm):

0.70 ±0.10

Thickness (mm):

|                                                     |                                        |
|-----------------------------------------------------|----------------------------------------|
| <5                                                  | Parallelism (arcmin):                  |
| Protective as needed                                | Bevel:                                 |
| 90                                                  | Clear Aperture (%):                    |
| Optical Properties                                  |                                        |
| Uncoated                                            | Coating:                               |
| Coherent® Optical Grade Polycrystalline CVD Diamond | Substrate: <input type="checkbox"/>    |
| 2.38 @ 10.6µm                                       | Index of Refraction (n <sub>d</sub> ): |
| 40-20                                               | Surface Quality:                       |
| 300 - 25000                                         | Wavelength Range (nm):                 |
| Regulatory Compliance                               |                                        |
| <a href="#">View</a>                                | Certificate of Conformance:            |

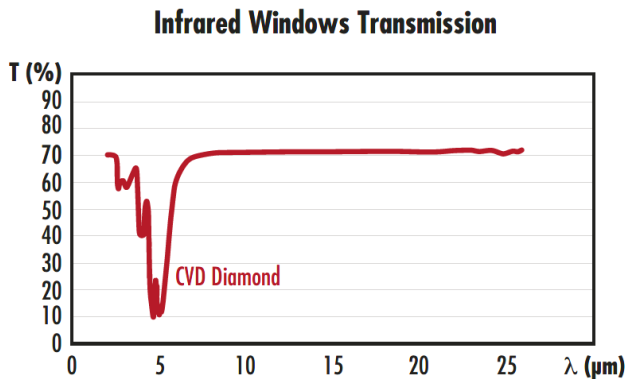
## Product Details

- 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



## 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](#).