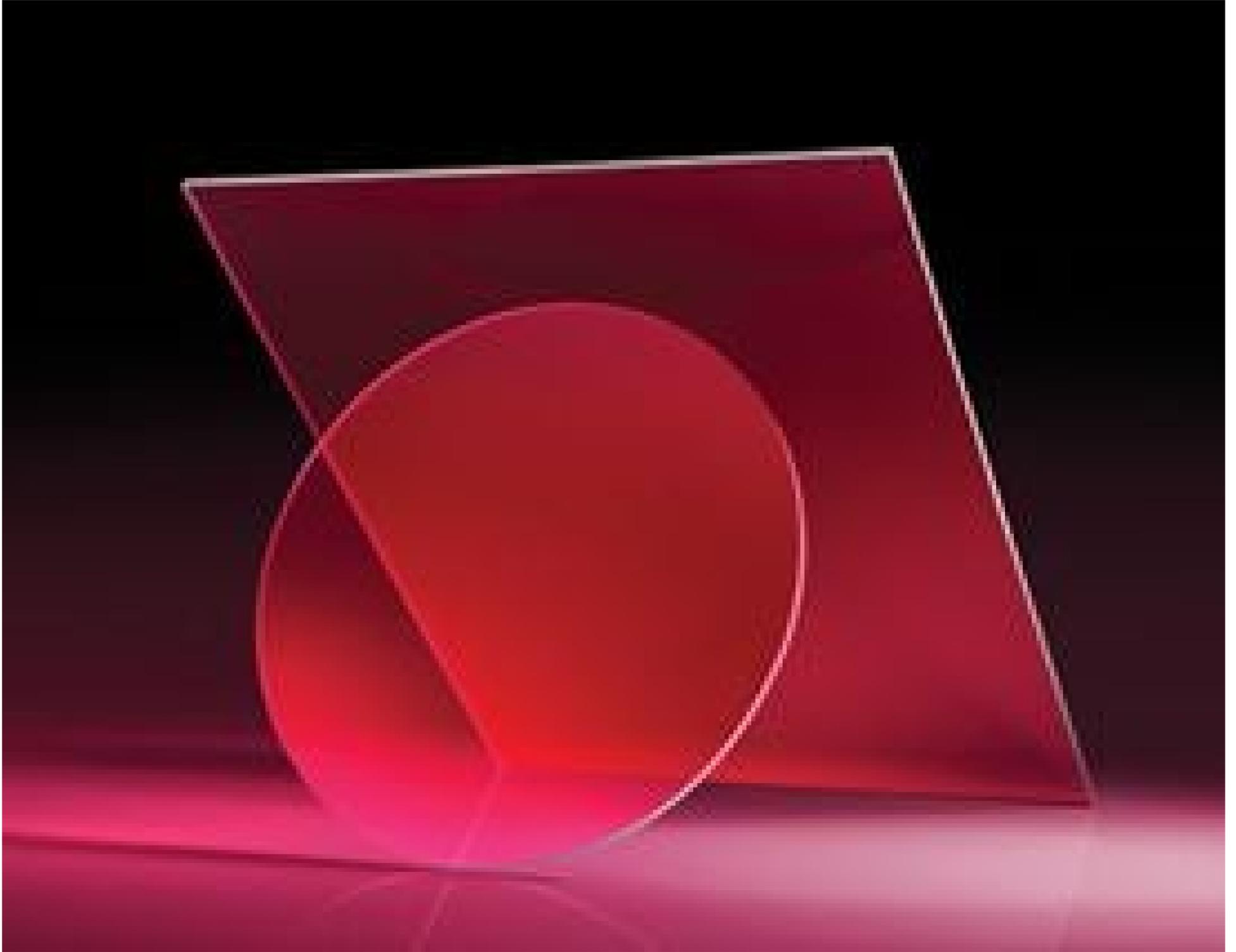


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# 5mm Square, 0.5mm Thick, Coherent® Uncoated Polycrystalline CVD Diamond Window

See More by [Coherent®](#)



Stock #12-665 **5 In Stock**

⊖ 1 ⊕ ₹34,328

**ADD TO CART**

Volume Pricing	
Qty 1-10	₹34,328 each
Qty 11-25	₹30,880 each
Qty 26-49	₹29,193 each
Need More?	<a href="#">Request Quote</a>

## Product Downloads

### General

Protective Window **Type:**

### Physical & Mechanical Properties

Protective as needed **Bevel:**

≥90 **Clear Aperture (%):**

4.50 x 4.50	<b>Clear Aperture CA (mm):</b>
5.00 x 5.00	<b>Dimensions (mm):</b>
0.50 ± 0.10	<b>Thickness (mm):</b>
<5	<b>Parallelism (arcmin):</b>
5.00	<b>Length (mm):</b>
5.00	<b>Width (mm):</b>

## Optical Properties

Uncoated	<b>Coating:</b>
2.38 @ 10.6µm	<b>Index of Refraction (n<sub>d</sub>):</b>
Coherent® Optical Grade Polycrystalline CVD Diamond	<b>Substrate:</b>
40-20	<b>Surface Quality:</b>
300 - 25000	<b>Wavelength Range (nm):</b>

## Regulatory Compliance

<a href="#">Compliant</a>	<b>RoHS 2015:</b>
<a href="#">Compliant</a>	<b>Reach 224:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>

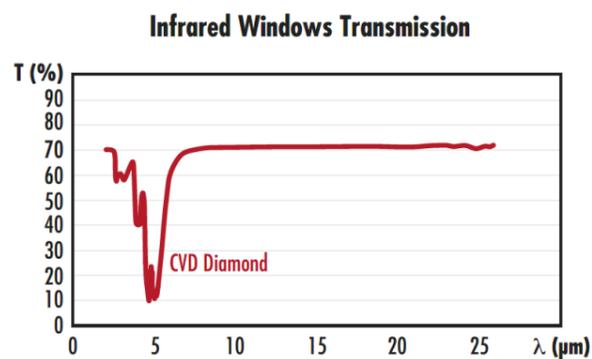
## Product Details

- 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](#).

## Compatible Mounts

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