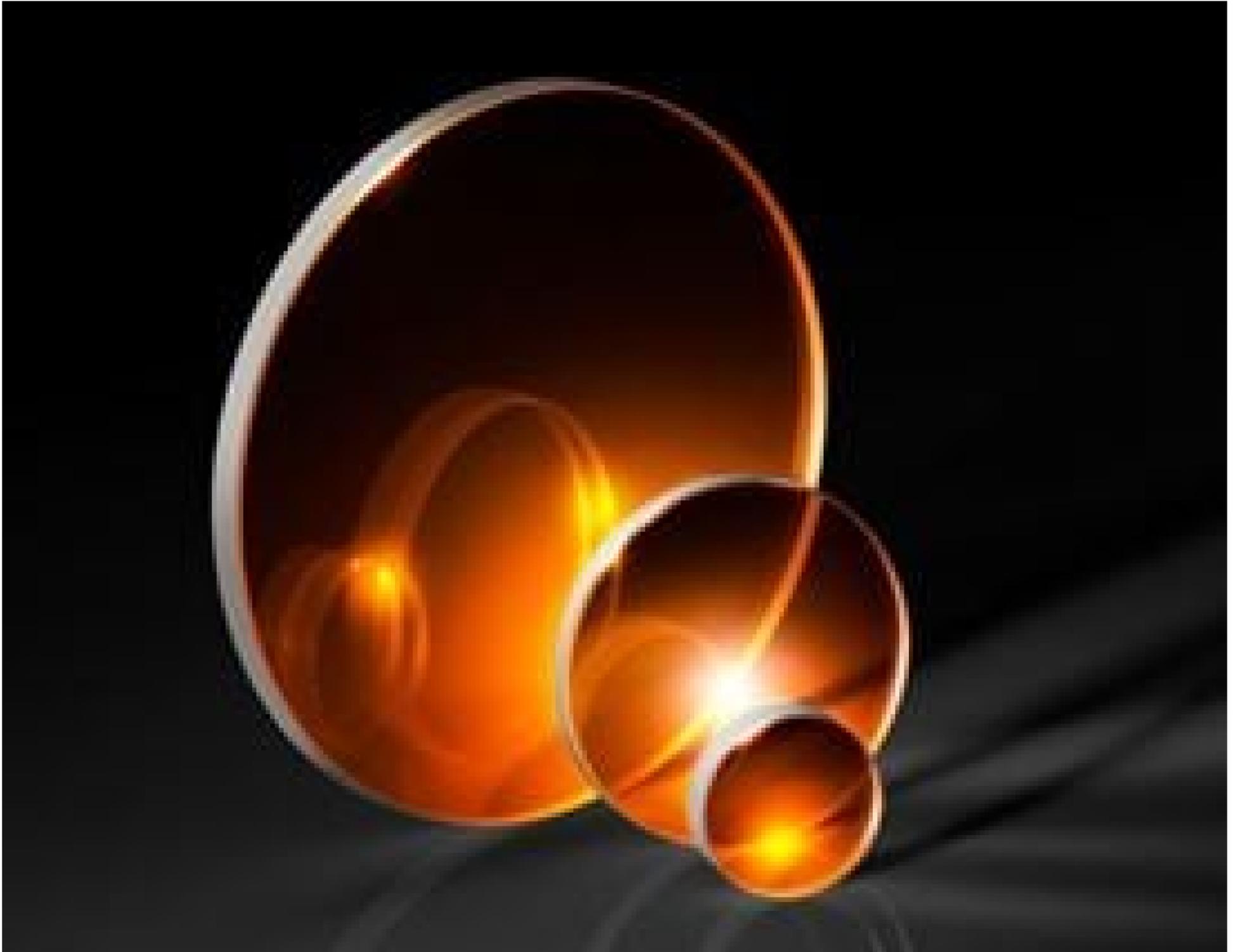


[See all 6 Products in Family](#)

25.4mm Dia., 3.18mm Thick, BBAR (1000-1100nm), Laser Grade C-Axis Sapphire Window



Laser Grade C-Axis Sapphire Windows

Stock #15-807 **20+ In Stock**

⊖ 1 ⊕ ₹31,394

ADD TO CART

Volume Pricing	
Qty 1-10	₹31,394 each
Qty 11+	₹28,240 each
Need More?	Request Quote

Product Downloads

General

Protective Window **Type:**

Physical & Mechanical Properties

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

25.40 +0.00/-0.10 **Diameter (mm):**

Thickness (mm):

3.18 ±0.20

Parallelism (arcmin):

<3

Bevel:

Protective as needed

Edges:

Fine Ground

Poisson's Ratio:

0.27

Young's Modulus (GPa):

435

Knoop Hardness (kg/mm²):

1,900.00

Optical Properties

Coating:

BBAR (1000-1100nm)

Substrate:

Sapphire (Al₂O₃)

Index of Refraction (n_d):

1.77

Surface Quality:

10-5

Transmitted Wavefront, P-V:

λ/10 over Clear Aperture

Abbe Number (v_d):

72.24

Birefringence (n_o-n_e):

0

Axis Orientation:

C-axis

Coating Specification:

R_{avg} ≤0.3% @ 1000 - 1100nm

R_{avg} ≤0.1% @ 1020 - 1070nm

Wavelength Range (nm):

1000 - 1100

Material Properties

Density (g/cm³):

3.97

Coefficient of Thermal Expansion CTE (10⁻⁶/°C):

8.8

Regulatory Compliance

Certificate of Conformance:

[View](#)

Country of Origin:

Lithuania

Imported By:

Edmund Optics India Private Limited

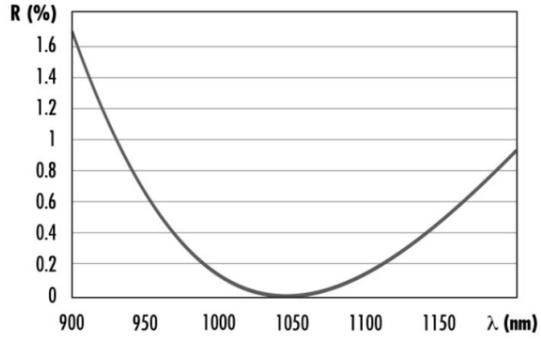
Product Details

- C-Axis Cut Sapphire to Eliminate Birefringence
- 10-5 Surface Quality and λ/10 TWFD
- Uncoated or IBS AR Coated for 1000-1100nm
- Ideal for High Power Laser Applications

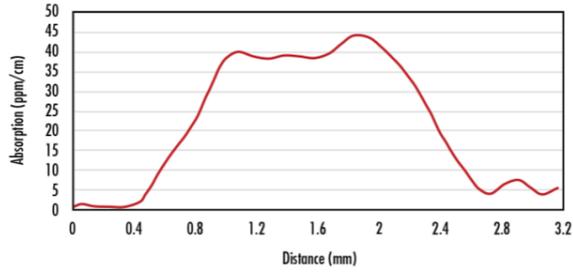
Laser Grade C-Axis Sapphire Windows are precision optical windows cut to the C-axis of sapphire to eliminate the inherent birefringent properties of the material. C-axis sapphire, also referred to as C-plane sapphire or zero degree sapphire, provides high transmission from the ultraviolet (UV) to the mid-infrared, excellent chemical resistance, and high surface hardness second only to diamond. Featuring laser grade 10-5 surface quality and λ/10 transmitted wavefront distortion (TWFD), these windows are ideal for use in laser applications or for integration into laser systems. Laser Grade C-Axis Sapphire Windows are available uncoated or with an ion-beam sputtered (IBS) antireflection (AR) coating for 1000 - 1100nm, ideal for Nd:YAG, Yb:doped fiber, or Yb:YAG laser applications. Standard imperial sizes facilitate drop-in replacement into existing laser systems; please contact us if your application requires a Laser Grade C-Axis Sapphire Window with a custom size or coating.

Technical Information

**Laser Grade C-Axis Sapphire Windows
BBAR (1000-1100nm) Coated**



**Absorption Scan of Laser Grade C-Axis Sapphire Windows
For Reference Only**



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
