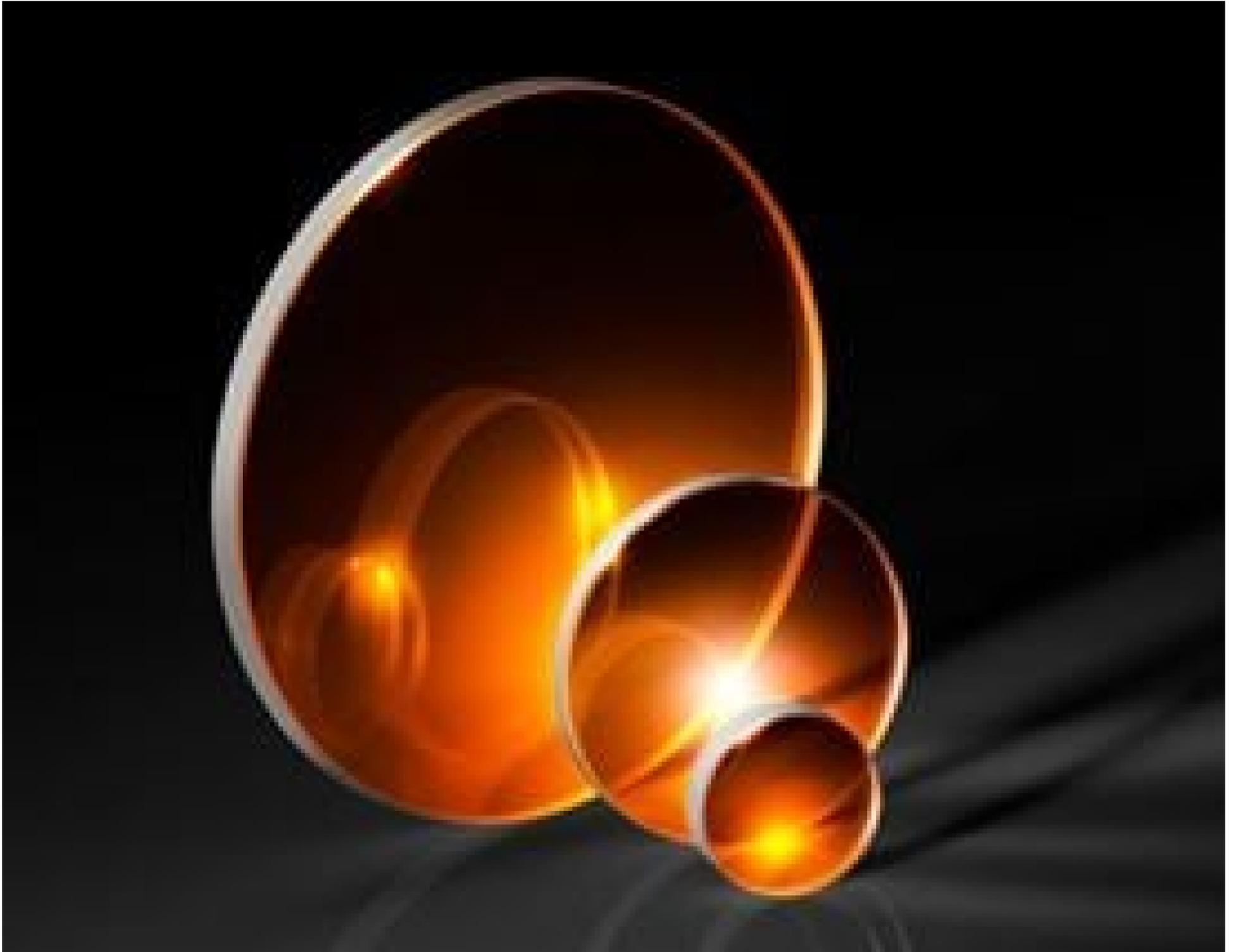


[See all 6 Products in Family](#)

12.7mm Dia., 3.18mm Thick, BBAR (1000-1100nm), Laser Grade C-Axis Sapphire Window



Laser Grade C-Axis Sapphire Windows

Stock #15-806 **20+ In Stock**

− 1 + €432⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-10	€432,00 each
Qty 11+	€389,00 each
Need More?	Request Quote

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Protective Window **Type:**

Physical & Mechanical Properties

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

12.70 +0.00/-0.10 **Diameter (mm):**

3.18 ±0.20	Thickness (mm):
<3	Parallelism (arcmin):
Protective as needed	Bevel:
Fine Ground	Edges:
0.27	Poisson's Ratio:
435	Young's Modulus (GPa):
1,900.00	Knoop Hardness (kg/mm²):

Optical Properties

BBAR (1000-1100nm)	Coating:
Sapphire (Al ₂ O ₃)	Substrate: <input type="checkbox"/>
1.77	Index of Refraction (n_d):
10-5	Surface Quality:
M10 over Clear Aperture	Transmitted Wavefront, P-V:
72.24	Abbe Number (v_d):
0	Birefringence (n_o-n_e):
C-axis	Axis Orientation:
R _{avg} ≤0.3% @ 1000 - 1100nm R _{avg} ≤0.1% @ 1020 - 1070nm	Coating Specification:
1000 - 1100	Wavelength Range (nm):

Material Properties

3.97	Density (g/cm³):
8.8	Coefficient of Thermal Expansion CTE (10⁻⁶/°C):

Regulatory Compliance

View	Certificate of Conformance:
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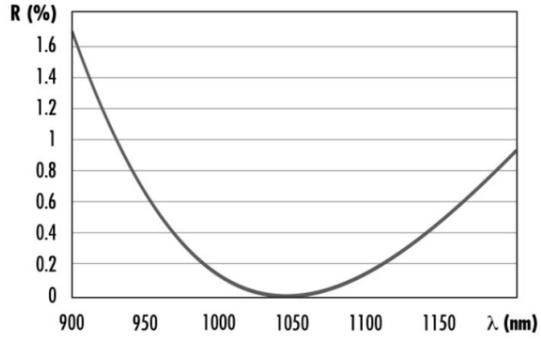
Product Details

- C-Axis Cut Sapphire to Eliminate Birefringence
- 10-5 Surface Quality and M10 TWFD
- Uncoated or IBS AR Coated for 1000-1100nm
- Ideal for High Power Laser Applications

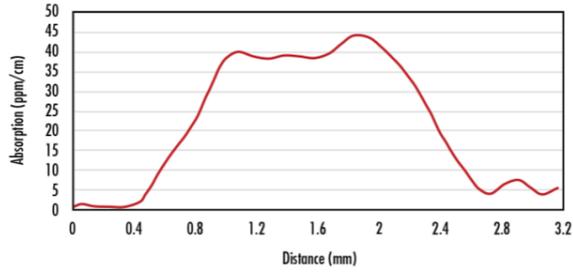
Laser Grade C-Axis Sapphire Windows are precision optical windows cut to the C-axis of sapphire to eliminate the inherent birefringent properties of the material. C-axis sapphire, also referred to as C-plane sapphire or zero degree sapphire, provides high transmission from the ultraviolet (UV) to the mid-infrared, excellent chemical resistance, and high surface hardness second only to diamond. Featuring laser grade 10-5 surface quality and M10 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