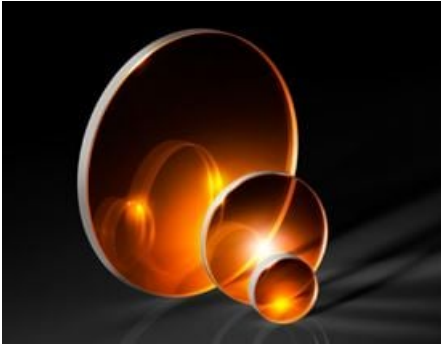


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## Laser Grade C-Axis Sapphire Windows



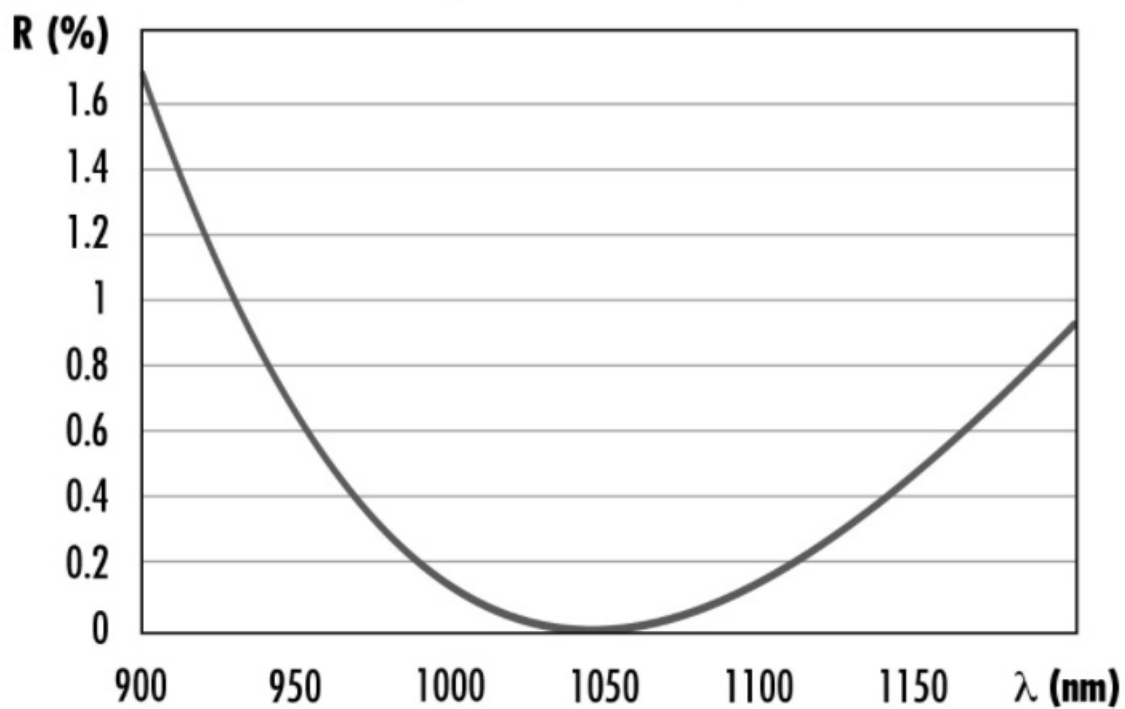
- C-Axis Cut Sapphire to Eliminate Birefringence
- 10-5 Surface Quality and  $\lambda/10$  TWFD
- Uncoated or IBS AR Coated for 1000-1100nm
- Ideal for High Power Laser Applications

# Common Specifications

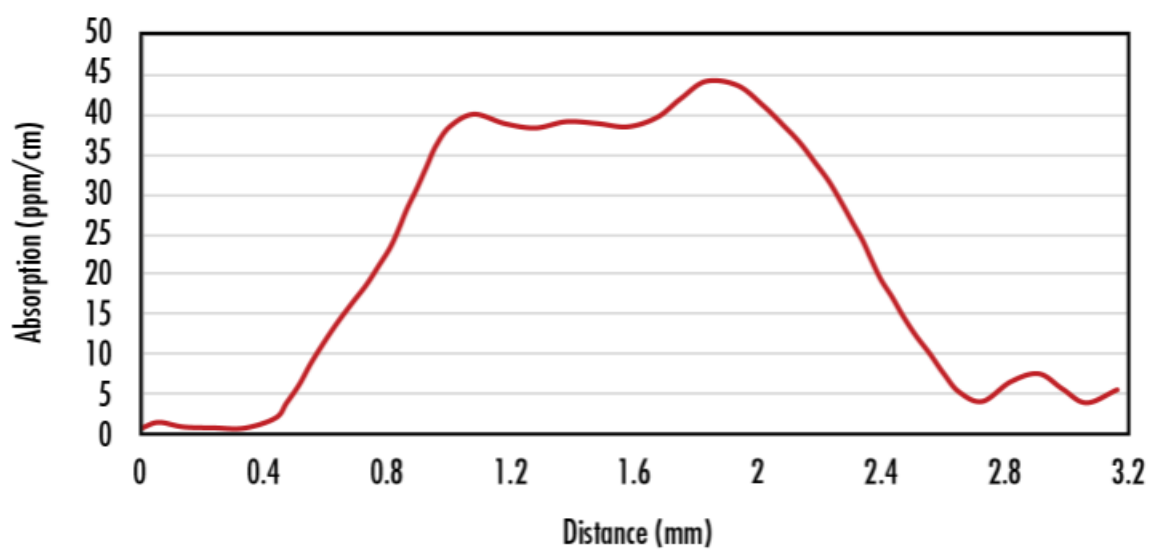
|                                                              |                                            |                                                  |             |
|--------------------------------------------------------------|--------------------------------------------|--------------------------------------------------|-------------|
| Physical & Mechanical Properties                             |                                            |                                                  |             |
| 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/mm <sup>2</sup> ):                        | 1,900.00                                   |                                                  |             |
| Optical Properties                                           |                                            |                                                  |             |
| Substrate:                                                   | Sapphire (Al <sub>2</sub> O <sub>3</sub> ) |                                                  |             |
| Index of Refraction (n <sub>d</sub> ):                       | 1.77                                       | Surface Quality:                                 | 10-5        |
| Abbe Number (v <sub>d</sub> ):                               | 72.24                                      | Birefringence (n <sub>o</sub> -n <sub>e</sub> ): | 0           |
| Axis Orientation:                                            | C-axis                                     |                                                  |             |
| Material Properties                                          |                                            |                                                  |             |
| Density (g/cm <sup>3</sup> ):                                |                                            | 3.97                                             |             |
| Coefficient of Thermal Expansion CTE (10 <sup>-6</sup> /°C): |                                            | 8.8                                              |             |

## Technical Information

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



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



## Products

| Dia.<br>(mm) | Coating            | Thickness<br>(mm) | Stock<br>Number         | Price                                     | Buy          |
|--------------|--------------------|-------------------|-------------------------|-------------------------------------------|--------------|
| 12.70        | Uncoated           | 3.18              | <a href="#">#15-803</a> | ₹15,404<br><a href="#">Volume Pricing</a> | 20+ In Stock |
| 12.70        | BBAR (1000-1100nm) | 3.18              | <a href="#">#15-806</a> | ₹26,993<br><a href="#">Volume Pricing</a> | 15 In Stock  |
| 25.40        | Uncoated           | 3.18              | <a href="#">#15-804</a> | ₹23,839<br><a href="#">Volume Pricing</a> | 10 In Stock  |
| 25.40        | BBAR (1000-1100nm) | 3.18              | <a href="#">#15-807</a> | ₹31,394<br><a href="#">Volume Pricing</a> | 20+ In Stock |
| 50.80        | Uncoated           | 3.18              | <a href="#">#15-805</a> | ₹45,697<br><a href="#">Volume Pricing</a> | 12 In Stock  |
| 50.80        | BBAR (1000-1100nm) | 3.18              | <a href="#">#15-808</a> | ₹59,414<br><a href="#">Volume Pricing</a> | 20+ In Stock |



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