

**TECHSPEC® 50.8mm Dia., 3.18mm Thick, NIR II AR Coated Sapphire Window**



Stock **#39-270** 3-4 DAYS

⊖ 1 ⊕ **€442,50**

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| Qty 1-24                      |
| €442,50                       |
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ⓘ Prices shown are exclusive of VAT/local taxes

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**Abbe Number (v<sub>d</sub>):**  
72.24

**Axis Orientation:**  
Random

**Bevel:**  
Protective as needed

|                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Birefringence (<math>n_o</math>-<math>n_e</math>):</b><br>0.008 for Visible Light Orthogonal to Optical Axis                                          |
| <b>Clear Aperture (%)</b> :<br>≥90                                                                                                                       |
| <b>Clear Aperture CA (mm)</b> :<br>45.72                                                                                                                 |
| <b>Diameter (mm)</b> :<br>50.80 ±0.05                                                                                                                    |
| <b>Thickness (mm)</b> :<br>3.18 ±0.05                                                                                                                    |
| <b>Coating</b> :<br>NIR II (750-1550nm)                                                                                                                  |
| <b>Coating Specification</b> :<br>R <sub>abs</sub> ≤1.5% @ 750 - 800nm<br>R <sub>abs</sub> ≤1.0% @ 800 - 1550nm<br>R <sub>avg</sub> ≤0.7% @ 750 - 1550nm |
| <b>Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C)</b> :<br>8.8                                                                                |
| <b>Density (g/cm³)</b> :<br>3.97                                                                                                                         |
| <b>Edges</b> :<br>Fine Ground                                                                                                                            |
| <b>Index of Refraction n<sub>d</sub></b> :<br>1.77                                                                                                       |
| <b>Knoop Hardness (kg/mm²)</b> :<br>1900                                                                                                                 |
| <b>Parallelism (arcmin)</b> :<br>≤3.5                                                                                                                    |
| <b>Poisson's Ratio</b> :<br>0.27                                                                                                                         |
| <b>Substrate</b> :<br>Sapphire (Al <sub>2</sub> O <sub>3</sub> )                                                                                         |
| <b>Surface Flatness (P-V)</b> :<br>2λ (typical)                                                                                                          |
| <b>Surface Quality</b> :<br>80-50                                                                                                                        |
| <b>Type</b> :<br>Protective Window                                                                                                                       |
| <b>Wavelength Range (nm)</b> :<br>750 - 1550                                                                                                             |
| <b>Young's Modulus (GPa)</b> :<br>435                                                                                                                    |

## Regulatory Compliance

|                                                            |
|------------------------------------------------------------|
| <b>RoHS 2015:</b><br><a href="#">Compliant</a>             |
| <b>Certificate of Conformance:</b><br><a href="#">View</a> |
| <b>Reach 235:</b><br><a href="#">Compliant</a>             |