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SUBMIT

TECHSPEC® 50.8mm Dia., 3.18mm Thick, VIS-NIR AR Coated Sapphire window



Stock #37-704 3-4 DAYS

1 €442,50

ADD TO CART

Qty 1-24

€442,50

Qty 25+

€354,00

Volume Pricing

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Abbe Number ( $v_d$ ):  
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>VIS-NIR (400-1000nm)                                                                                                          |
| <b>Coating Specification:</b><br>R <sub>avg</sub> ≤0.25% @880nm<br>R <sub>avg</sub> ≤1.25% @400 - 870nm<br>R <sub>avg</sub> ≤1.25% @890 - 1000nm |
| <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>400 - 1000                                                                                                      |
| <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>             |