

TECHSPEC®

50.8mm Dia., 3.18mm Thick, BBAR (2000-5000nm) AR Coated Sapphire Window



Stock #16-013

3-4 DAYS

-

1

+

£397.38

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| Qty 1-24                      |
| £397.38                       |
| Qty 25+                       |
| £317.90                       |
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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>BBAR (2000-5000nm)                                                                                                                  |
| <b>Coating Specification</b> :<br>R <sub>avg</sub> <1.5% @ 2000-5000nm<br>R <sub>abs</sub> <3.0% @ 2000-5000nm<br>R <sub>avg</sub> <1.75% @ 2000-4000nm |
| <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 <math>n_d</math></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>2000 - 5000                                                                                                           |
| <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>             |