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SUBMIT



TECHSPEC Precision Sapphire Windows

Stock **#88-428** CLEARANCE ☐ In Stock



1



€59,95

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Qty 1+

€59,95

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**Abbe Number ( $v_d$ ):**  
72.24

**Axis Orientation:**  
Random

**Bevel:**  
Protective as needed

**Birefringence ( $n_o$ - $n_e$ ):**  
0.008 for Visible Light Orthogonal to Optical Axis

**Clear Aperture (%)**:

|                                                                          |
|--------------------------------------------------------------------------|
| 90.00                                                                    |
| <b>Clear Aperture CA (mm):</b><br>13.50                                  |
| <b>Diameter (mm):</b><br>15.00 +0.00/-0.25                               |
| <b>Thickness (mm):</b><br>2.00 ±0.1                                      |
| <b>Coating:</b><br>Uncoated                                              |
| <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                                       |
| <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>λ/4                                    |
| <b>Surface Quality:</b><br>40-20                                         |
| <b>Type:</b><br>Protective Window                                        |
| <b>Wavelength Range (nm):</b><br>200 - 5500                              |
| <b>Young's Modulus (GPa):</b><br>435                                     |

## Regulatory Compliance

|                                                            |
|------------------------------------------------------------|
| <b>RoHS 2015:</b><br><a href="#">Compliant</a>             |
| <b>Reach 197:</b><br><a href="#">Compliant</a>             |
| <b>Certificate of Conformance:</b><br><a href="#">View</a> |