

# 12.7mm Dia., 1mm Thick, Uncoated, ISP Optics Sapphire Window | AL-W-12-1

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Stock #19-715 3-4 DAYS

⊖ 1 ⊕ **£84.15**

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Qty 1+

£84.15

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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 (%):**

|                                                                     |
|---------------------------------------------------------------------|
| 85                                                                  |
| Clear Aperture CA (mm):<br>10.80                                    |
| Diameter (mm):<br>12.70 +0.00/-0.13                                 |
| Thickness (mm):<br>1.00 ±0.13                                       |
| Coating:<br>Uncoated                                                |
| Coefficient of Thermal Expansion CTE (10 <sup>-6</sup> /°C):<br>8.8 |
| Density (g/cm³):<br>3.97                                            |
| Edges:<br>Fine Ground                                               |
| Index of Refraction n <sub>d</sub> :<br>1.77                        |
| Knoop Hardness (kg/mm²):<br>1900                                    |
| Parallelism (arcmin):<br><3                                         |
| Poisson's Ratio:<br>0.27                                            |
| Substrate:<br>Sapphire (Al <sub>2</sub> O <sub>3</sub> )            |
| Surface Flatness (P-V):<br>2λ (typical)                             |
| Surface Quality:<br>60-40                                           |
| Type:<br>Protective Window                                          |
| Wavelength Range (nm):<br>330 - 5500                                |
| Young's Modulus (GPa):<br>435                                       |
| Model Number:<br>AL-W-12-1                                          |

Regulatory Compliance

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