

50.8mm Dia., 6mm Thick, 30' Wedge, BBAR (2000-5000nm) Coated, ISP Optics Barium Fluoride (BaF<sub>2</sub>) Wedged Window

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Barium Fluoride (BaF<sub>2</sub>) Wedged Windows



Stock **#23-720** [CONTACT US](#)



1



A\$1,196.00

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Abbe Number (v<sub>d</sub>):  
81.78

Axis Orientation:  
Random

Bevel:

|                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective as needed                                                                                                                                    |
| <b>Clear Aperture (%)</b> :<br>85                                                                                                                       |
| <b>Clear Aperture CA (mm)</b> :<br>43.18                                                                                                                |
| <b>Diameter (mm)</b> :<br>50.80 +0.0/-0.13                                                                                                              |
| <b>Thickness (mm)</b> :<br>6.00 ±0.13                                                                                                                   |
| <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>18.1                                                                              |
| <b>Density (g/cm³)</b> :<br>4.89                                                                                                                        |
| <b>Edges</b> :<br>Fine Ground                                                                                                                           |
| <b>Index of Refraction n<sub>d</sub></b> :<br>1.478 @ 0.5µm<br>1.451 @ 5µm<br>1.401 @ 10µm                                                              |
| <b>Knoop Hardness (kg/mm²)</b> :<br>82                                                                                                                  |
| <b>Poisson's Ratio</b> :<br>0.343                                                                                                                       |
| <b>Substrate</b> :<br><a href="#">Barium Fluoride (BaF<sub>2</sub>)</a>                                                                                 |
| <b>Surface Flatness (P-V)</b> :<br>2λ @ 633nm                                                                                                           |
| <b>Surface Quality</b> :<br>60-40                                                                                                                       |
| <b>Type</b> :<br>Protective Window                                                                                                                      |
| <b>Wavelength Range (nm)</b> :<br>2000 - 5000                                                                                                           |
| <b>Young's Modulus (GPa)</b> :<br>53                                                                                                                    |
| <b>Wedge Angle</b> :<br>30±15 arcmin                                                                                                                    |

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>             |