

**TECHSPEC® 50mm Sq., 4mm Thick, MgF<sub>2</sub> Coated λ/4 N-BK7 Window**



Stock **#47-945** ☐ In Stock

-

1

+

**\$107.00**

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|-------------------------------|
| Qty 1-5                       |
| \$107.00                      |
| Qty 6+                        |
| \$85.50                       |
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**Abbe Number (v<sub>d</sub>):**  
64.17

**Bevel:**  
Protective as needed

**Clear Aperture (%):**  
90

**Clear Aperture CA (mm):**

|                                                                                                                |
|----------------------------------------------------------------------------------------------------------------|
| 45.00 x 45.00                                                                                                  |
| <b>Dimensions (mm):</b><br>50.00 x 50.00                                                                       |
| <b>Thickness (mm):</b><br>4.00 ±0.20                                                                           |
| <b>Coating:</b><br>MgF <sub>2</sub> (400-700nm)                                                                |
| <b>Coating Specification:</b><br>R <sub>avg</sub> ≤1.75% @ 400 - 700nm                                         |
| <b>Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C):</b><br>7.1 (-30 to +70°C)<br>8.3 (+20 to +300°C) |
| <b>Density (g/cm³):</b><br>2.51                                                                                |
| <b>Edges:</b><br>Fine Ground                                                                                   |
| <b>Index of Refraction n<sub>d</sub>:</b><br>1.516                                                             |
| <b>Knoop Hardness (kg/mm²):</b><br>610                                                                         |
| <b>Parallelism (arcmin):</b><br><1                                                                             |
| <b>Poisson's Ratio:</b><br>0.206                                                                               |
| <b>Substrate:</b><br><a href="#">N-BK7</a>                                                                     |
| <b>Surface Flatness (P-V):</b><br>λ/4                                                                          |
| <b>Surface Quality:</b><br>60-40                                                                               |
| <b>Type:</b><br>Protective Window                                                                              |
| <b>Wavelength Range (nm):</b><br>400 - 700                                                                     |
| <b>Young's Modulus (GPa):</b><br>82                                                                            |
| <b>Length (mm):</b><br>50.00                                                                                   |
| <b>Width (mm):</b><br>50.00                                                                                    |
| <b>Damage Threshold, Reference:</b> <input type="checkbox"/><br>10 J/cm² @532nm, 10ns                          |

## 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>             |