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## TECHSPEC® 50mm Diameter, 1550nm V-Coat, $\lambda/4$ N-BK7 Window

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Stock #83-534 [CONTACT US](#)

⊖ 1 ⊕ S\$197<sup>00</sup>

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Volume Pricing	
Qty 1-5	S\$197.40 each
Qty 6-25	S\$156.80 each
Qty 26-49	S\$147.00 each
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### Product Downloads

#### General

Laser Line Window **Type:**

Glass **Type of Window:**

#### Physical & Mechanical Properties

45.00 **Clear Aperture CA (mm):**

50.00 +0.00/-0.25	<b>Diameter (mm):</b>
4.00 ±0.20	<b>Thickness (mm):</b>
≤1	<b>Parallelism (arcmin):</b>
Protective as needed	<b>Bevel:</b>
90	<b>Clear Aperture (%):</b>
Fine Ground	<b>Edges:</b>
0.21	<b>Poisson's Ratio:</b>
82	<b>Young's Modulus (GPa):</b>
610.00	<b>Knoop Hardness (kg/mm<sup>2</sup>):</b>

## Optical Properties

Laser V-Coat (1550nm)	<b>Coating:</b>
1550	<b>Design Wavelength DWL (nm):</b>
<b>N-BK7</b>	<b>Substrate:</b> <input type="checkbox"/>
1.516	<b>Index of Refraction (n<sub>d</sub>):</b>
60-40	<b>Surface Quality:</b>
64.17	<b>Abbe Number (v<sub>d</sub>):</b>
R <sub>abs</sub> <0.25% @ 1550nm	<b>Coating Specification:</b>
λ/4	<b>Surface Flatness (P-V):</b>

## Material Properties

2.51	<b>Density (g/cm<sup>3</sup>):</b>
7.1 (-30 to +70°C) 8.3 (+20 to +300°C)	<b>Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C):</b>

## Regulatory Compliance

<b>Compliant</b>	<b>RoHS 2015:</b>
<b>View</b>	<b>Certificate of Conformance:</b>
<b>Compliant</b>	<b>Reach 235:</b>

### Need different specs or modifications?

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

## Product Details

- <0.25% Reflection at Design Wavelength
- Coatings Available for HeNe, Diode, and Nd:YAG Laser Sources
- Precision N-BK7 Substrate
- Also Available [Uncoated](#), [MgF<sub>2</sub> Coated](#) and [VIS 0° Coated](#)

TECHSPEC® λ/4 N-BK7 Laser Line Windows are ideally suited for industrial and low power laser applications. The high tolerance design yields minimal beam distortion and scatter. Anti-reflection coatings provide <0.25% reflection at the coating's design wavelengths.



## Technical Information



## Compatible Mounts