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

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Stock #83-534 **20+ In Stock**

⊖ 1 ⊕ €141.<sup>00</sup>

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Volume Pricing	
Qty 1-5	€141,00 each
Qty 6-25	€112,00 each
Qty 26-49	€105,00 each
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

**General**

Laser Line Window **Type:**

**Physical & Mechanical Properties**

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

**Diameter (mm):**

50.00 +0.00/-0.25

4.00 ±0.20 **Thickness (mm):**

≤1 **Parallelism (arcmin):**

Protective as needed **Bevel:**

90 **Clear Aperture (%):**

Fine Ground **Edges:**

0.21 **Poisson's Ratio:**

82 **Young's Modulus (GPa):**

610.00 **Knoop Hardness (kg/mm<sup>2</sup>):**

## Optical Properties

Laser V-Coat (1550nm) **Coating:**

1550 **Design Wavelength DWL (nm):**

**N-BK7** **Substrate:**

1.516 **Index of Refraction (n<sub>d</sub>):**

60-40 **Surface Quality:**

64.17 **Abbe Number (v<sub>d</sub>):**

R<sub>abs</sub> <0.25% @ 1550nm **Coating Specification:**

λ/4 **Surface Flatness (P-V):**

## Material Properties

2.51 **Density (g/cm<sup>3</sup>):**

**Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C):**  
7.1 (-30 to +70°C)  
8.3 (+20 to +300°C)

## Regulatory Compliance

**Compliant** **RoHS 2015:**

**View** **Certificate of Conformance:**

**Compliant** **Reach 235:**

## Product Details

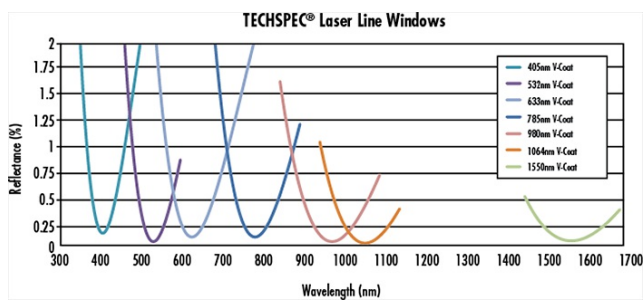
- <0.25% Reflection at Design Wavelength
- Coatings Available for HeNe, Diode, and Nd:YAG Laser Sources
- Precision N-BK7 Substrate
- Also Available [Uncoated](#), [MgF<sub>2</sub> Coated](#) and [VIS 0° Coated](#)

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.

**LASER OPTICS** MADE BY EDMUND OPTICS®

[LEARN MORE](#)

## Technical Information



## Custom

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](#).

## Compatible Mounts