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TECHSPEC® 9mm Diameter, 980nm V-Coat, $\lambda/4$ N-BK7 Window

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Stock #83-516 **2 In Stock**

€99.⁰⁰

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Volume Pricing

Qty 1-5	€99,50 each
Qty 6-25	€80,00 each
Qty 26-49	€74,50 each
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Laser Line Window **Type:**

Physical & Mechanical Properties

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

Diameter (mm):

9.00 +0.00/-0.25

2.00 ±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/mm²):**

Optical Properties

Laser V-Coat (980nm) **Coating:**

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

N-BK7 **Substrate:**

1.516 **Index of Refraction (n_d):**

60-40 **Surface Quality:**

64.17 **Abbe Number (v_d):**

R_{abs} <0.25% @ 980nm **Coating Specification:**

λ/4 **Surface Flatness (P-V):**

Material Properties

2.51 **Density (g/cm³):**

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

Regulatory Compliance

Compliant **RoHS 2015:**

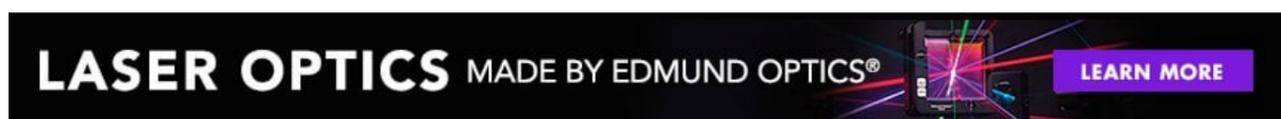
View **Certificate of Conformance:**

Compliant **Reach 235:**

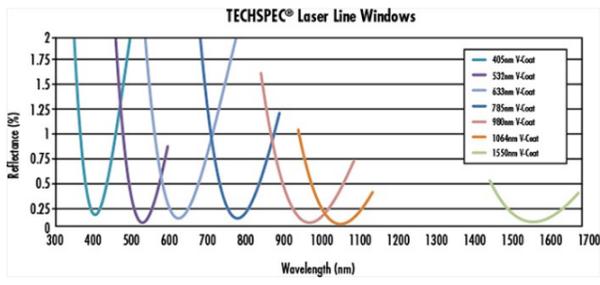
Product Details

- <0.25% Reflection at Design Wavelength
- Coatings Available for HeNe, Diode, and Nd:YAG Laser Sources
- Precision N-BK7 Substrate
- Also Available [Uncoated](#), [MgF₂ 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



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