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TECHSPEC® 50mm Diameter, 633nm V-Coat, $\lambda/4$ N-BK7 Window

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Stock #49-144 [CONTACT US](#)

- 1 + €141⁰⁰

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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

Lasert Line Window **Type:**

Glass **Type of Window:**

Physical & Mechanical Properties

Clear Aperture CA (mm):

45.00	Diameter (mm):
50.00 +0.00/-0.25	
	Thickness (mm):
4.00 ±0.20	
	Parallelism (arcmin):
≤1	
	Bevel:
Protective as needed	
	Clear Aperture (%):
90	
	Edges:
Fine Ground	
	Poisson's Ratio:
0.21	
	Young's Modulus (GPa):
82	
	Knoop Hardness (kg/mm²):
610.00	

Optical Properties

	Coating:
Laser V-Coat (633nm)	
	Design Wavelength DWL (nm):
633	
	Substrate: <input type="checkbox"/>
N-BK7	
	Index of Refraction (n_d):
1.516	
	Surface Quality:
60-40	
	Abbe Number (v_d):
64.17	
	Coating Specification:
R _{abs} <0.25% @ 633nm	
	Surface Flatness (P-V):
λ/4	

Material Properties

	Density (g/cm³):
2.51	
	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:

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](#), [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



Compatible Mounts