

TECHSPEC® 5mm Diameter, 785nm V-Coat, λ/4 N-BK7 Window

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Stock #64-045 20+ In Stock

1 C\$139^{.30}

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Volume Pricing	
Qty 1-5	C\$139.30 each
Qty 6-25	C\$112.00 each
Qty 26-49	C\$104.30 each
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Product Downloads	
STEP:step	Curve:pdf
PDF Drawing:pdf	IGES:igs
eDrawing:eprt	
EO Spec Sheet	Download All

General

Type: Laser Line Window	Type of Window: Glass
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Physical & Mechanical Properties

Clear Aperture CA (mm): 4.50	Diameter (mm): 5.00 +0.00/-0.25
Thickness (mm): 2.00 ±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 (785nm)	Design Wavelength DWL (nm): 785
Substrate: 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% @ 785nm	Surface Flatness (P-V): λ/4

Material Properties

Density (g/cm³): 2.51	Coefficient of Thermal: 7.1 (-30 to +70°C)
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Expansion CTE (10⁻⁶/°C): 8.3 (+20 to +300°C)

Regulatory Compliance

RoHS 2015: **Compliant**

Certificate of Conformance: **View**

Reach 235: **Compliant**

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:

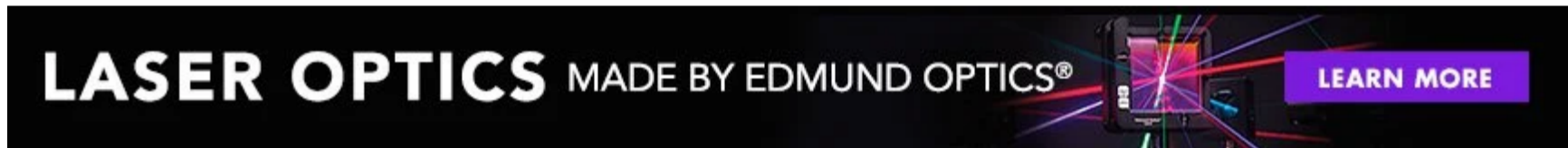
- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

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

Frequently Purchased Together



#39-953 - Diamond Coated Glass Drills
C\$105.70

Qty 



#43-627 - 2.5mm Dia., 0.5mm Thick, Uncoated, Sapphire Window
C\$38.50









Qty 



#64-048 - 12.5mm Diameter, 785nm V-Coat, λ/4 N-BK7 Window
C\$139.30

Qty 

Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
MORE+ 	5.0mm Optic Dia., Optic Mount	Fixed		#64-551	C\$45.85 Request Quote	14 In Stock <input type="text" value="1"/> 
MORE+ 	5.0 - 25.0mm Optic Height, Metric Bar-Type Optic Holder	Fixed		#55-529	C\$142.80 Request Quote	20+ In Stock <input type="text" value="1"/> 
MORE+ 	4.0 - 36.0mm Optic Dia., Self-Centering Jaw Clamp	Fixed		#16-077	C\$219.80 Request Quote	5 In Stock <input type="text" value="1"/> 
MORE+ 	5.0 - 100.0mm Optic Dia., Self-Centering Jaw Clamp	Fixed		#16-078	C\$574.00 Request Quote	CONTACT US <input type="text" value="1"/> 

Check out our full selection of mounts [here](#).

Resources

Media Type

- Application Note
- Technical Tool
- Published Article
- Glossary
- Video
- FAQ
- Scientific Paper

 APPLICATION NOTE

Anti-Reflection (AR) Coatings

 APPLICATION NOTE

An Introduction to Optical Coatings

 TECHNICAL TOOL

Gaussian Beams Calculator

 APPLICATION NOTE

Understanding Surface Roughness

 APPLICATION NOTE

Common Laser Optics Materials

 APPLICATION NOTE

Importance of Beam Diameter on Laser Damage

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