

TECHSPEC[®] 50mm Diameter, 1550nm V-Coat, λ /4 N-BK7 Window

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

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1

+

A\$225⁰⁰

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Volume Pricing	
Qty 1-5	A\$225.60 each
Qty 6-25	A\$179.20 each
Qty 26-49	A\$168.00 each
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Product Downloads

General	
Laser Line Window	Type:
Physical & Mechanical Properties	
45.00	Clear Aperture CA (mm):
50.00 +0.00/-0.25	Diameter (mm):

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/mm²):

Optical Properties	
Laser V-Coat (1550nm)	Coating:
1550	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% @ 1550nm	Coating Specification:
λ/4	Surface Flatness (P-V):

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

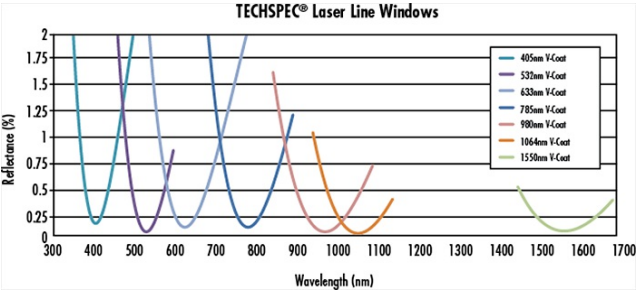
LASER OPTICS

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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

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Compatible Mounts