

TECHSPEC® 5mm Diameter, 1550nm V-Coat, λ/4 N-BK7 Window

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₹6,381

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SPECIFICATIONS

General

Laser Line Window

Type:

Physical & Mechanical Properties	
4.50	Clear Aperture CA (mm):
5.00 +0.00/-0.25	Diameter (mm):
2.00 ±0.20	Thickness (mm):
≤1	Parallelism (arcmin):
Protective as needed	Bevel:
90	Clear Aperture (%):
Fine Ground	Edges:
0.206	Poisson's Ratio:
82	Young's Modulus (GPa):
610	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):
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.

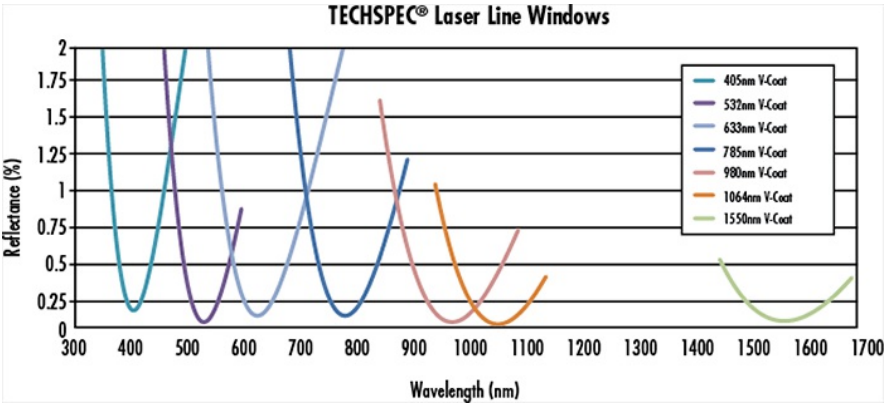
LASER OPTICS

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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