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TECHSPEC<sup>®</sup> 50mm Diameter, 980nm V-Coat,  $\lambda$ /4 N-BK7 Window

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Stock #83-524 20+ In Stock

-

1

+

₹9,022

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| Qty 1-5        | ₹9,022 each                   |
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General

Laser Line WindowType:

Physical & Mechanical Properties

45.00Clear Aperture CA (mm):

50.00 +0.00/-0.25Diameter (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 (980nm)            | Coating:                               |
| 980                             | Design Wavelength DWL (nm):            |
| N-BK7                           | Substrate: □                           |
| 1.516                           | Index of Refraction (n <sub>d</sub> ): |
| 60-40                           | Surface Quality:                       |
| 64.17                           | Abbe Number (v <sub>d</sub> ):         |
| R <sub>abs</sub> <0.25% @ 980nm | Coating Specification:                 |
| λ/4                             | Surface Flatness (P-V):                |

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

|                                     |                             |
|-------------------------------------|-----------------------------|
| Regulatory Compliance               |                             |
| Compliant                           | RoHS 2015:                  |
| View                                | Certificate of Conformance: |
| Compliant                           | Reach 235:                  |
| United States                       | Country of Origin:          |
| Edmund Optics India Private Limited | Imported By:                |

## 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](#), [MgF<sub>2</sub> 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

MADE BY EDMUND 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

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

## Compatible Mounts