

TECHSPEC<sup>®</sup> 10mm Diameter, 785nm V-Coat, λ/4 N-BK7 Window

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Stock **#64-047** 20+ In Stock

-

1

+

C\$139<sup>30</sup>

ADD TO CART

| 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 |
|-------------------|
|-------------------|

SPECIFICATIONS

General

Laser Line Window

Type:

Physical & Mechanical Properties

|                          |  |
|--------------------------|--|
| Clear Aperture CA (mm):  |  |
| 9.00                     |  |
| Diameter (mm):           |  |
| 10.00 +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: <input type="checkbox"/>    |  |
| N-BK7                                  |  |
| Index of Refraction (n <sub>d</sub> ): |  |
| 1.516                                  |  |
| Surface Quality:                       |  |
| 60-40                                  |  |
| Abbe Number (v <sub>d</sub> ):         |  |
| 64.17                                  |  |
| Coating Specification:                 |  |
| R <sub>abs</sub> <0.25% @ 785nm        |  |
| Surface Flatness (P-V):                |  |
| λ/4                                    |  |

Material Properties

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

Regulatory Compliance

|                             |  |
|-----------------------------|--|
| RoHS 2015:                  |  |
| Compliant                   |  |
| Certificate of Conformance: |  |
| View                        |  |
| Reach 235:                  |  |
| Compliant                   |  |

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.

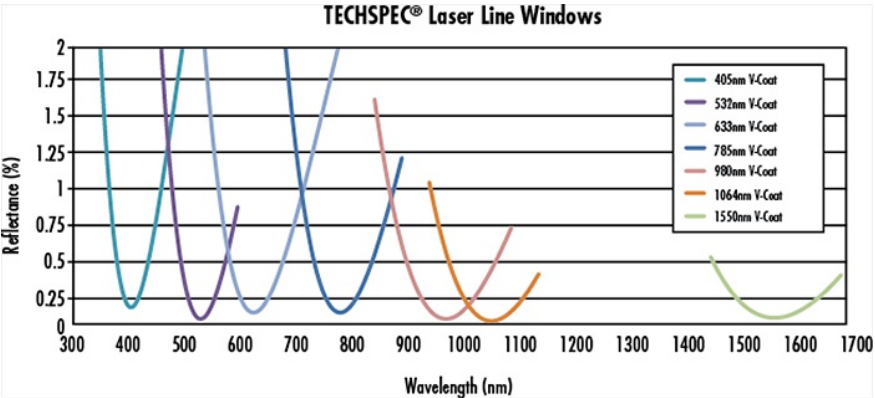
LASER OPTICS

MADE BY EDMUND OPTICS®



LEARN MORE

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