

TECHSPEC<sup>®</sup> 12.5mm Diameter, 785nm V-Coat, λ/4 N-BK7 Window

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Stock #64-048 14 In Stock

-

1

+

S\$129<sup>93</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | S\$129.93 each                |
| Qty 6-25       | S\$104.55 each                |
| Qty 26-49      | S\$97.08 each                 |
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Product Downloads

SPECIFICATIONS

General

Type:

Laser Line Window

Physical & Mechanical Properties

|                      |                          |
|----------------------|--------------------------|
| 11.25                | Clear Aperture CA (mm):  |
|                      |                          |
| 12.50 +0.00/-0.25    | Diameter (mm):           |
|                      |                          |
| 3.00 ±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 (785nm)            | Coating:                               |
|                                 |                                        |
| 785                             | Design Wavelength DWL (nm):            |
|                                 |                                        |
| N-BK7                           | Substrate: <input type="checkbox"/>    |
|                                 |                                        |
| 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% @ 785nm | 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:                  |
|           |                             |

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.

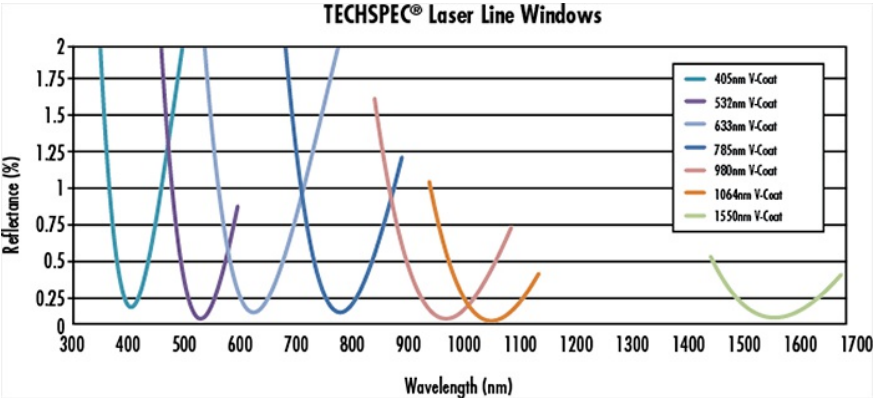
LASER OPTICS

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