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TECHSPEC[®] 40mm Diameter, 1550nm V-Coat, λ /4 N-BK7 Window

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Stock #83-533 12 In Stock

-

1

+

₹10,300

 Price inclusive of all taxes

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Volume Pricing	
Qty 1-5	₹10,300 each
Qty 6-25	₹8,222 each
Qty 26-49	₹7,703 each
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General

Laser Line Window

Type:

Physical & Mechanical Properties

36.00

Clear Aperture CA (mm):

Diameter (mm):

40.00 +0.00/-0.25	
Thickness (mm):	4.00 ±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 (1550nm)
Design Wavelength DWL (nm):	1550
Substrate: ☐	N-BK7
Index of Refraction (n _d):	1.516
Surface Quality:	60-40
Abbe Number (v _d):	64.17
Coating Specification:	R _{abs} <0.25% @ 1550nm
Surface Flatness (P-V):	λ/4

Material Properties	
Density (g/cm³):	2.51
Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°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
Country of Origin:	United States
Imported By:	Edmund Optics India Private Limited

Need different specs or modifications?

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

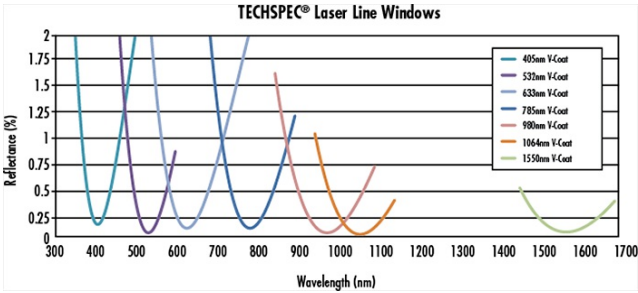
Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

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.

Technical Information



Compatible Mounts