

TECHSPEC® 25mm Dia., 3mm Thick, YAG-BBAR Coated, λ /4 N-BK7 Window



Stock #13-318 4 In Stock

-

1

+

A\$182^{.40}

ADD TO CART

Volume Pricing	
Qty 1-5	A\$182.40 each
Qty 6-25	A\$145.60 each
Qty 26-49	A\$136.00 each
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SPECIFICATIONS

General

Protective Window

Type:

Physical & Mechanical Properties

Protective as needed

Bevel:

90	Clear Aperture (%):
22.50	Clear Aperture CA (mm):
25.00 +0.0/-0.25	Diameter (mm):
3.00 ±0.20	Thickness (mm):
Fine Ground	Edges:
610.00	Knoop Hardness (kg/mm²):
<1	Parallelism (arcmin):
0.21	Poisson's Ratio:
82	Young's Modulus (GPa):
Optical Properties	
64.17	Abbe Number (v _d):
YAG-BBAR (500-1100nm)	Coating:
R _{abs} <0.25% @ 532nm R _{abs} <0.25% @ 1064nm R _{avg} <1.0% @ 500 - 1100nm	Coating Specification:
1.516	Index of Refraction (n _d):
N-BK7	Substrate:
λ/4	Surface Flatness (P-V):
60-40	Surface Quality:
500 - 1100	Wavelength Range (nm):
5 J/cm² @ 532nm, 10ns	Damage Threshold, By Design: <input type="checkbox"/>
Material Properties	
7.1 (-30 to +70°C) 8.3 (+20 to +300°C)	Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):
2.51	Density (g/cm³):
Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 235:

PRODUCT DETAILS

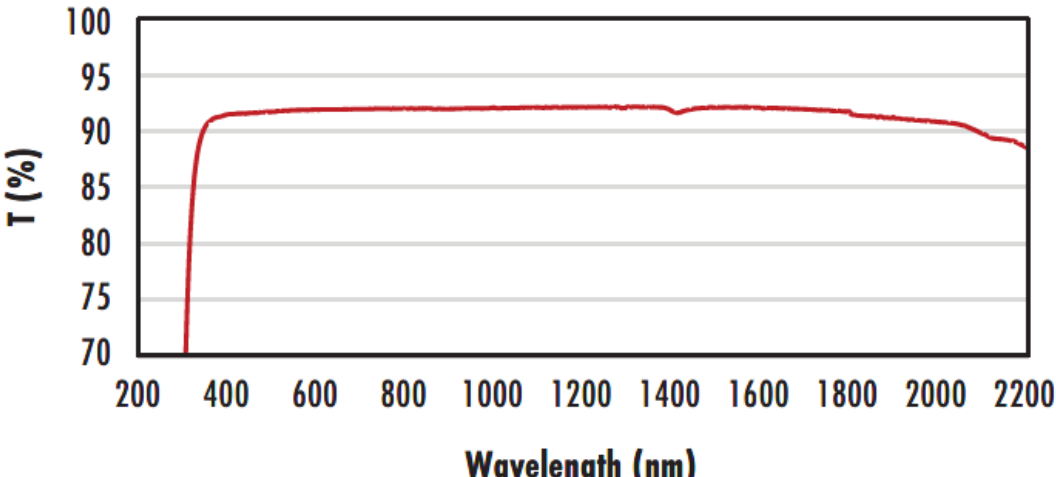
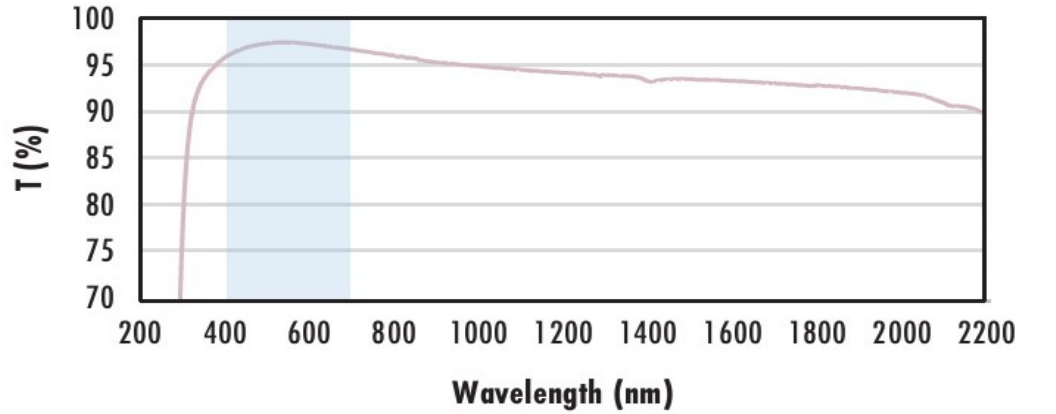
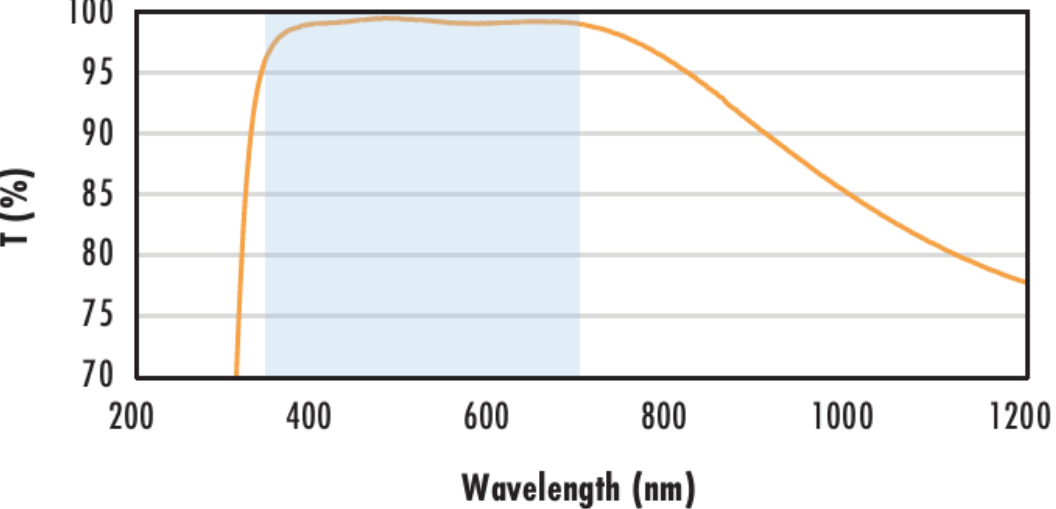
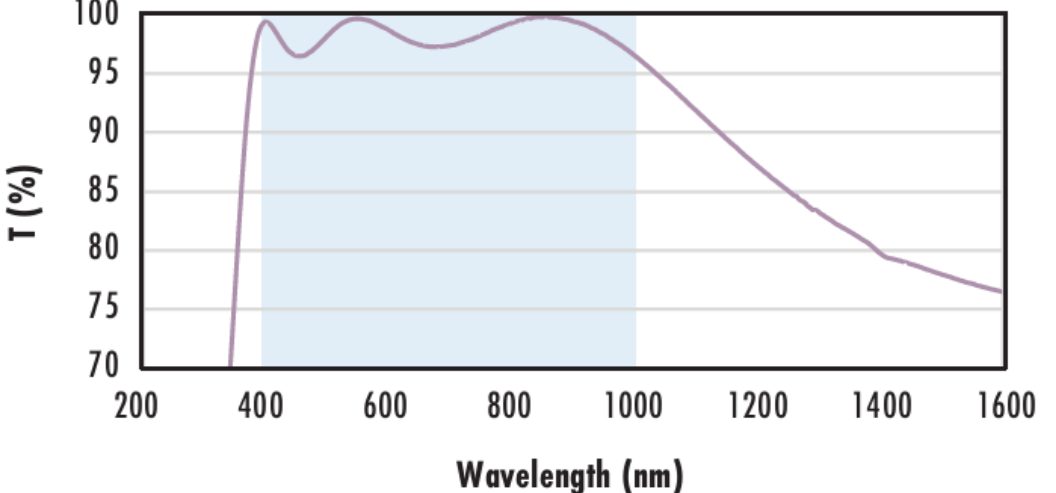
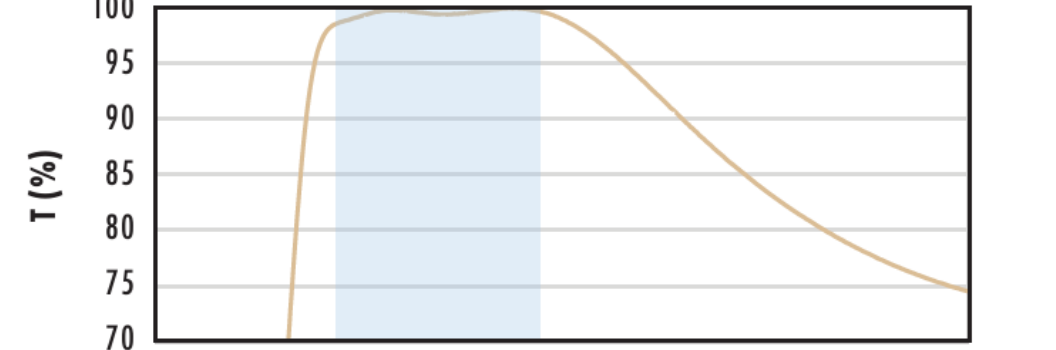
- Circular and Rectangular Sizes from 2mm to 200mm
- 8 Broadband Anti-Reflection Coating Options Available
- World's Largest Selection of Standard N-BK7 Windows
- Also Available with [Ultra-Thin N-BK7 Windows](#)

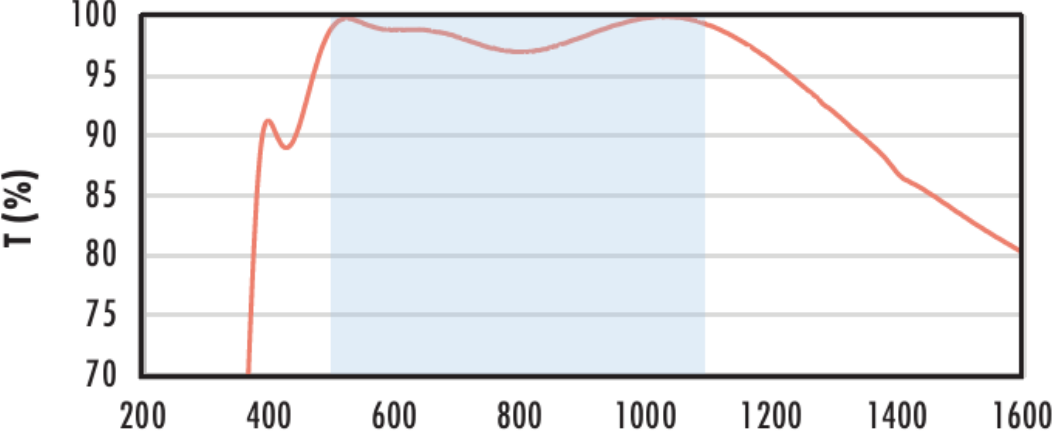
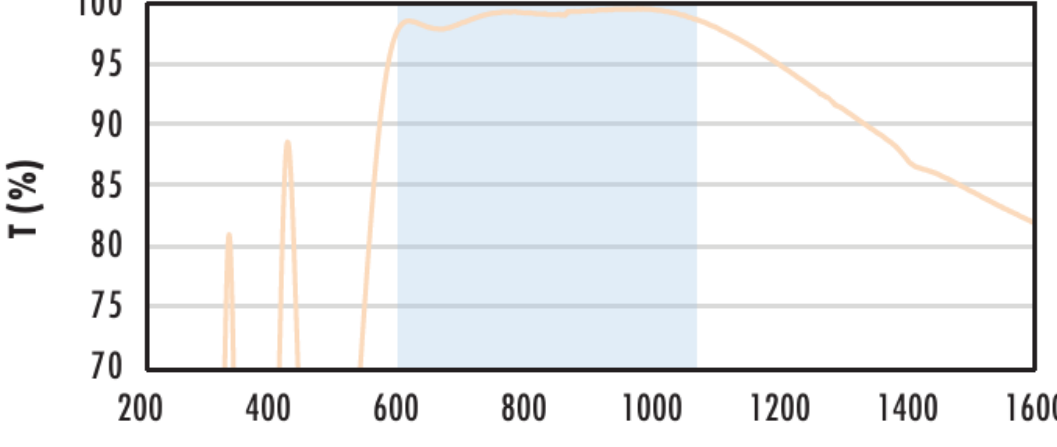
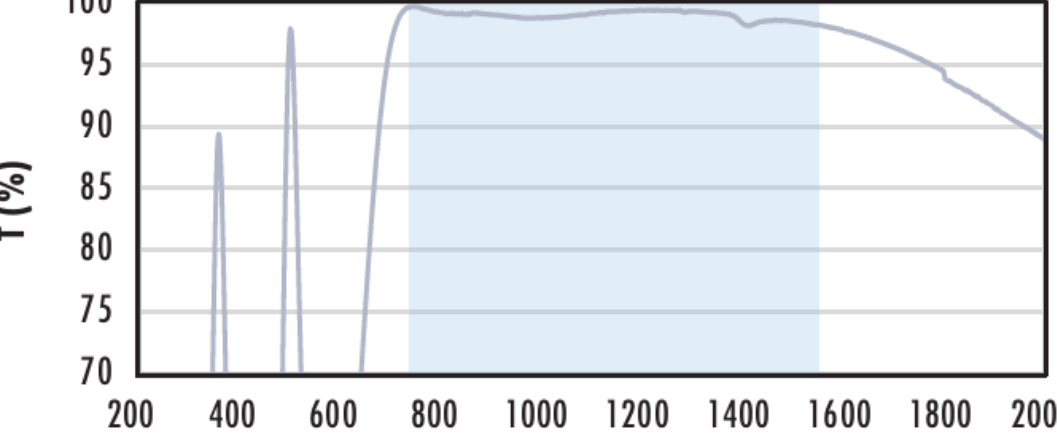
TECHSPEC® λ/4 N-BK7 Precision Windows are ideally suited for industrial and low-power laser applications. The high tolerance design yields minimal beam distortion and scatter. Broadband coating options extend the range of these precision windows through the visible and near-infrared spectra. TECHSPEC® λ/4 N-BK7 Precision Windows are offered in circular and rectangular sizes ranging from 2mm to 200mm.

Note: New additions to this product family may be specified with a transmitted wavefront distortion (TWD) specification instead of a surface flatness. For more information on the difference between these two specifications, see our application note on [Understanding Optical Windows](#).

TECHNICAL INFORMATION



<div data-bbox="262 68 1249 578"><h3>Uncoated N-BK7 Typical Transmission</h3></div>	<div data-bbox="1339 270 1839 359"><p>Typical transmission of a 3mm thick, uncoated N-BK7 window across the UV - NIR spectra.</p><p>Click Here to Download Data</p></div>
<div data-bbox="262 667 1249 1142"><h3>N-BK7 with MgF₂ Coating Typical Transmission</h3></div>	<div data-bbox="1339 750 1839 1003"><p>Typical transmission of a 3mm thick N-BK7 window with MgF₂ (400-700nm) coating at 0° AOI.</p><p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p><p>$R_{avg} \leq 1.75\% @ 400 - 700\text{nm}$ (N-BK7)</p><p>Data outside this range is not guaranteed and is for reference only.</p><p>Click Here to Download Data</p></div>
<div data-bbox="262 1187 1249 1765"><h3>N-BK7 with VIS-EXT Coating Typical Transmission</h3></div>	<div data-bbox="1339 1350 1839 1599"><p>Typical transmission of a 3mm thick N-BK7 window with VIS-EXT (350-700nm) coating at 0° AOI.</p><p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p><p>$R_{avg} \leq 0.5\% @ 350 - 700\text{nm}$</p><p>Data outside this range is not guaranteed and is for reference only.</p><p>Click Here to Download Data</p></div>
<div data-bbox="262 1825 1249 2389"><h3>N-BK7 with VIS-NIR Coating Typical Transmission</h3></div>	<div data-bbox="1339 1938 1839 2258"><p>Typical transmission of a 3mm thick N-BK7 window with VIS-NIR (400-1000nm) coating at 0° AOI.</p><p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p><p>$R_{abs} \leq 0.25\% @ 880\text{nm}$ $R_{avg} \leq 1.25\% @ 400 - 870\text{nm}$ $R_{avg} \leq 1.25\% @ 890 - 1000\text{nm}$</p><p>Data outside this range is not guaranteed and is for reference only.</p><p>Click Here to Download Data</p></div>
<div data-bbox="262 2448 1249 2878"><h3>N-BK7 with VIS 0° Coating Typical Transmission</h3></div>	<div data-bbox="1339 2576 1839 2828"><p>Typical transmission of a 3mm thick N-BK7 window with VIS 0° (425-675nm) coating at 0° AOI.</p><p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p><p>$R_{avg} \leq 0.4\% @ 425 - 675\text{nm}$</p><p>Data outside this range is not guaranteed and is for reference only.</p><p>Click Here to Download Data</p></div>

<div>20040060080010001200</div> <div>Wavelength (nm)</div>	
<div>N-BK7 with YAG-BBAR Coating Typical Transmission</div> <div></div> <div>Wavelength (nm)</div>	<div>Typical transmission of a 3mm thick N-BK7 window with YAG-BBAR (500-1100nm) coating at 0° AOI.</div> <div>The blue shaded region indicates the coating design wavelength range, with the following specification:</div> <div><div>$R_{abs} \leq 0.25\% \text{ @ } 532\text{nm}$$R_{abs} \leq 0.25\% \text{ @ } 1064\text{nm}$$R_{avg} \leq 1.0\% \text{ @ } 500 - 1100\text{nm}$</div></div> <div>Data outside this range is not guaranteed and is for reference only.</div> <div>Click Here to Download Data</div>
<div>N-BK7 with NIR I Coating Typical Transmission</div> <div></div> <div>Wavelength (nm)</div>	<div>Typical transmission of a 3mm thick N-BK7 window with NIR I (600 - 1050nm) coating at 0° AOI.</div> <div>The blue shaded region indicates the coating design wavelength range, with the following specification:</div> <div><div>$R_{avg} \leq 0.5\% \text{ @ } 600 - 1050\text{nm}$</div></div> <div>Data outside this range is not guaranteed and is for reference only.</div> <div>Click Here to Download Data</div>
<div>N-BK7 with NIR II Coating Typical Transmission</div> <div></div> <div>Wavelength (nm)</div>	<div>Typical transmission of a 3mm thick N-BK7 window with NIR II (750 - 1550nm) coating at 0° AOI.</div> <div>The blue shaded region indicates the coating design wavelength range, with the following specification:</div> <div><div>$R_{abs} \leq 1.5\% \text{ @ } 750 - 800\text{nm}$$R_{abs} \leq 1.0\% \text{ @ } 800 - 1550\text{nm}$$R_{avg} \leq 0.7\% \text{ @ } 750 - 1550\text{nm}$</div></div> <div>Data outside this range is not guaranteed and is for reference only.</div> <div>Click Here to Download Data</div>

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