

TECHSPEC<sup>®</sup> 6.0mm Dia. x 48.0mm FL, NIR II, Inked, Plano-Convex Lens



Stock **#67-469-INK** [CONTACT US](#)

[Other Coating Options](#)

-

1

+

S\$74<sup>.90</sup>

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| Qty 1-9        | <b>S\$74.90</b> each          |
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General

Type:  
Plano-Convex Lens

Physical & Mechanical Properties

Diameter (mm):  
6.00 ±0.025

|                      |                           |
|----------------------|---------------------------|
| <1                   | Centering (arcmin):       |
| 1.60 ±0.05           | Center Thickness CT (mm): |
| 1.42                 | Edge Thickness ET (mm):   |
| 5.4                  | Clear Aperture CA (mm):   |
| Protective as needed | Bevel:                    |

Optical Properties

|                                                                                                                        |                                                       |
|------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| 48.00 @ 587.6nm                                                                                                        | Effective Focal Length EFL (mm):                      |
| 46.95                                                                                                                  | Back Focal Length BFL (mm):                           |
| NIR II (750-1550nm)                                                                                                    | Coating:                                              |
| R <sub>abs</sub> ≤1.5% @ 750 - 800nm<br>R <sub>abs</sub> ≤1.0% @ 800 - 1550nm<br>R <sub>avg</sub> ≤0.7% @ 750 - 1550nm | Coating Specification:                                |
| N-BK7                                                                                                                  | Substrate: <input type="checkbox"/>                   |
| 40-20                                                                                                                  | Surface Quality:                                      |
| 1.5λ                                                                                                                   | Power (P-V) @ 632.8nm:                                |
| λ/4                                                                                                                    | Irregularity (P-V) @ 632.8nm:                         |
| ±1                                                                                                                     | Focal Length Tolerance (%):                           |
| 24.81                                                                                                                  | Radius R <sub>1</sub> (mm):                           |
| 8                                                                                                                      | f/#:                                                  |
| 0.06                                                                                                                   | Numerical Aperture NA:                                |
| 750 - 1550                                                                                                             | Wavelength Range (nm):                                |
| 8 J/cm <sup>2</sup> @ 1064nm, 10ns                                                                                     | Damage Threshold, By Design: <input type="checkbox"/> |

Regulatory Compliance

|      |                             |
|------|-----------------------------|
| View | Certificate of Conformance: |
|------|-----------------------------|

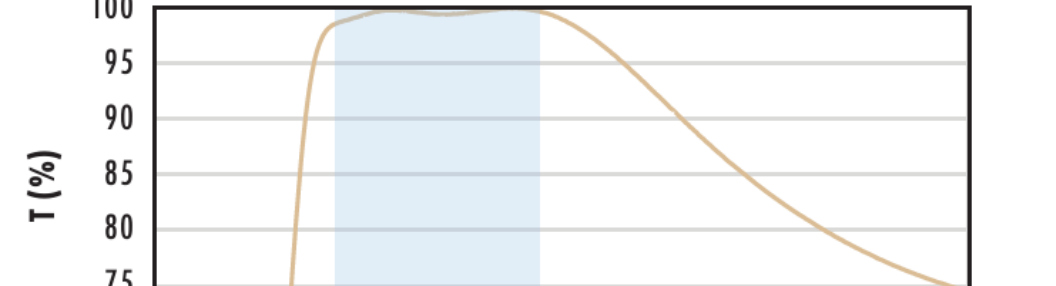
## Product Details

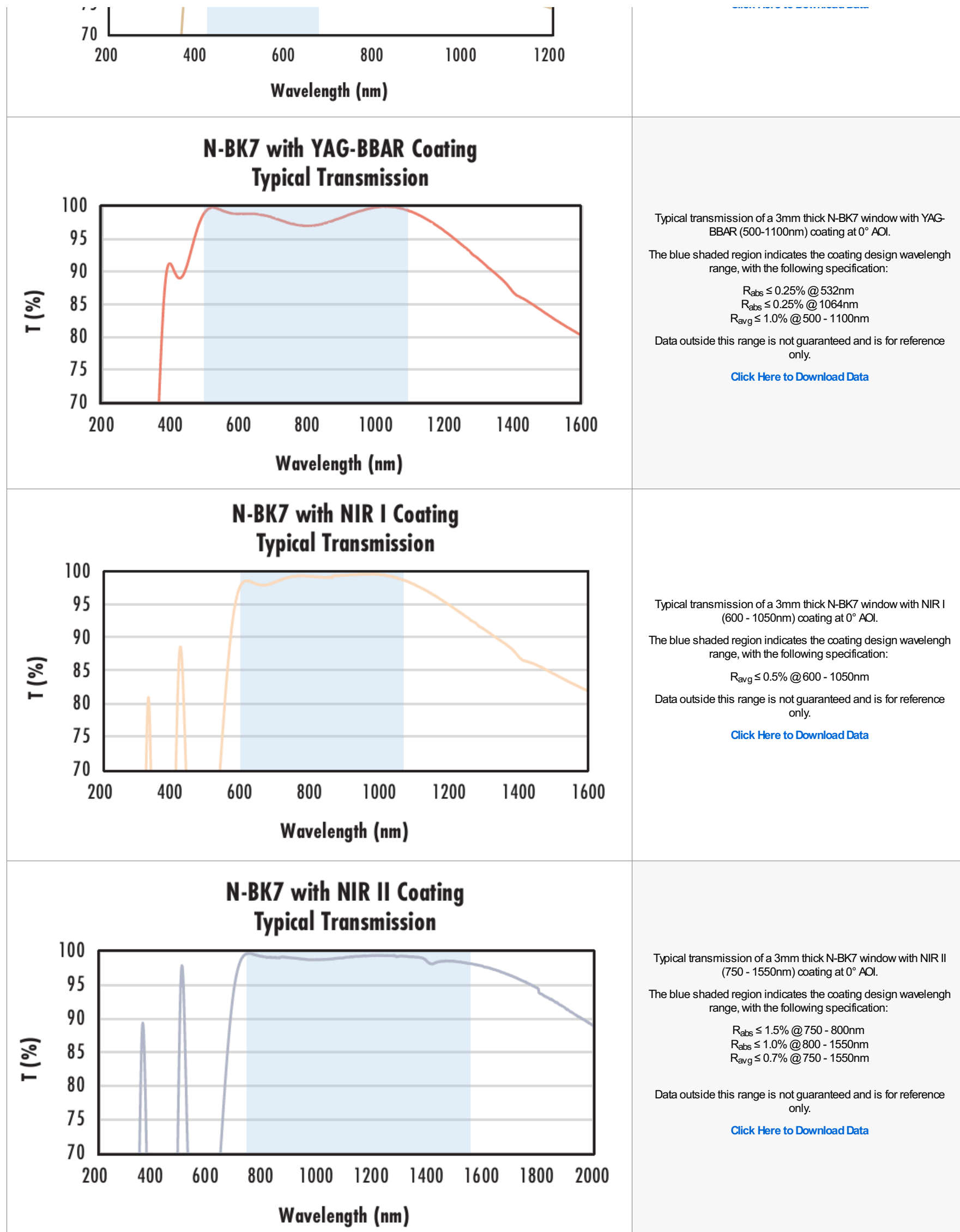
- AR Coated to Provide <0.7% Reflectance per Surface for 750 - 1550nm
- Designed for 0° Angle of Incidence
- Various PCX Coating Options: [Uncoated](#), [MgF<sub>2</sub>](#), [VIS 0°](#), [VIS-NIR](#), [NIR I](#), [VIS-EXT](#), and [YAG-BBAR](#)

TECHSPEC® NIR II Coated Plano-Convex Lenses have a positive focal length, making them ideal for collecting and focusing light in imaging applications. They are also useful in a variety of applications involving emitters, detectors, lasers, and fiber optics. TECHSPEC® NIR II Coated Plano-Convex Lenses are available in a wide variety of diameters and focal lengths. Identical designs of these PCX lenses are also offered [uncoated](#) or with broadband anti-reflective (BBAR) coatings, which include [MgF<sub>2</sub>](#), [VIS 0°](#), [VIS-NIR](#), [NIR I](#), [VIS-EXT](#), and [YAG-BBAR](#).

## Technical Information



|                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div data-bbox="231 68 1304 688"><div data-bbox="231 68 1304 118">N-BK7</div><div data-bbox="231 118 1304 688"><h3 data-bbox="525 142 1087 192">Uncoated N-BK7 Typical Transmission</h3></div></div> | <div data-bbox="1304 68 1869 688"><p data-bbox="1339 350 1843 400">Typical transmission of a 3mm thick, uncoated N-BK7 window across the UV - NIR spectra.</p><p data-bbox="1472 415 1711 439"><a href="#">Click Here to Download Data</a></p></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <div data-bbox="231 688 1304 1240"><h3 data-bbox="588 742 955 825">N-BK7 with MgF<sub>2</sub> Coating Typical Transmission</h3></div>                                                               | <div data-bbox="1304 688 1869 1240"><p data-bbox="1339 831 1843 881">Typical transmission of a 3mm thick N-BK7 window with MgF2 (400-700nm) coating at 0° AOI.</p><p data-bbox="1339 896 1843 946">The blue shaded region indicates the coating design wavelength range, with the following specification:</p><p data-bbox="1436 961 1747 985"><math>R_{avg} \leq 1.75\% @ 400 - 700\text{nm}</math> (N-BK7)</p><p data-bbox="1339 1000 1843 1050">Data outside this range is not guaranteed and is for reference only.</p><p data-bbox="1472 1065 1711 1089"><a href="#">Click Here to Download Data</a></p></div>                                                                                                                                                                                       |
| <div data-bbox="231 1240 1304 1881"><h3 data-bbox="588 1261 1018 1344">N-BK7 with VIS-EXT Coating Typical Transmission</h3></div>                                                                  | <div data-bbox="1304 1240 1869 1881"><p data-bbox="1339 1430 1843 1481">Typical transmission of a 3mm thick N-BK7 window with VIS-EXT (350-700nm) coating at 0° AOI.</p><p data-bbox="1339 1495 1843 1546">The blue shaded region indicates the coating design wavelength range, with the following specification:</p><p data-bbox="1478 1561 1705 1584"><math>R_{avg} \leq 0.5\% @ 350 - 700\text{nm}</math></p><p data-bbox="1339 1599 1843 1650">Data outside this range is not guaranteed and is for reference only.</p><p data-bbox="1472 1665 1711 1688"><a href="#">Click Here to Download Data</a></p></div>                                                                                                                                                                                      |
| <div data-bbox="231 1881 1304 2487"><h3 data-bbox="588 1902 1003 1985">N-BK7 with VIS-NIR Coating Typical Transmission</h3></div>                                                                  | <div data-bbox="1304 1881 1869 2487"><p data-bbox="1339 2018 1843 2068">Typical transmission of a 3mm thick N-BK7 window with VIS-NIR (400-1000nm) coating at 0° AOI.</p><p data-bbox="1339 2083 1843 2133">The blue shaded region indicates the coating design wavelength range, with the following specification:</p><p data-bbox="1478 2148 1692 2172"><math>R_{abs} \leq 0.25\% @ 880\text{nm}</math></p><p data-bbox="1478 2172 1709 2196"><math>R_{avg} \leq 1.25\% @ 400 - 870\text{nm}</math></p><p data-bbox="1478 2196 1709 2220"><math>R_{avg} \leq 1.25\% @ 890 - 1000\text{nm}</math></p><p data-bbox="1339 2258 1843 2309">Data outside this range is not guaranteed and is for reference only.</p><p data-bbox="1472 2323 1711 2347"><a href="#">Click Here to Download Data</a></p></div> |
| <div data-bbox="231 2487 1304 2899"><h3 data-bbox="588 2522 976 2605">N-BK7 with VIS 0° Coating Typical Transmission</h3></div>                                                                    | <div data-bbox="1304 2487 1869 2899"><p data-bbox="1339 2656 1843 2706">Typical transmission of a 3mm thick N-BK7 window with VIS 0° (425-675nm) coating at 0° AOI.</p><p data-bbox="1339 2721 1843 2772">The blue shaded region indicates the coating design wavelength range, with the following specification:</p><p data-bbox="1478 2786 1705 2810"><math>R_{avg} \leq 0.4\% @ 425 - 675\text{nm}</math></p><p data-bbox="1339 2825 1843 2875">Data outside this range is not guaranteed and is for reference only.</p><p data-bbox="1472 2890 1711 2914"><a href="#">Click Here to Download Data</a></p></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