

TECHSPEC<sup>®</sup> 25.4mm Dia. x 76.2mm FL, VIS-NIR, Inked, Plano-Convex Lens



Stock **#62-603-INK** [CONTACT US](#)

☐ [Other Coating Options](#)

-

1

+

€60<sup>,77</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-9        | €60,77 each                   |
| Qty 10-24      | €54,59 each                   |
| Qty 25-49      | €48,67 each                   |
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SPECIFICATIONS

General

|                                                       |  |                                                                                                                    |
|-------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------|
| Plano-Convex Lens                                     |  | Type:                                                                                                              |
| Physical & Mechanical Properties                      |  |                                                                                                                    |
| Diameter (mm):                                        |  | 25.40 ±0.025                                                                                                       |
| Centering (arcmin):                                   |  | <1                                                                                                                 |
| Center Thickness CT (mm):                             |  | 4.00 ±0.10                                                                                                         |
| Edge Thickness ET (mm):                               |  | 1.90                                                                                                               |
| Clear Aperture CA (mm):                               |  | 24.4                                                                                                               |
| Bevel:                                                |  | Protective as needed                                                                                               |
| Optical Properties                                    |  |                                                                                                                    |
| Effective Focal Length EFL (mm):                      |  | 76.20 @ 587.6nm                                                                                                    |
| Back Focal Length BFL (mm):                           |  | 73.56                                                                                                              |
| Coating:                                              |  | VIS-NIR (400-1000nm)                                                                                               |
| Coating Specification:                                |  | R <sub>abs</sub> ≤0.25% @ 880nm<br>R <sub>avg</sub> ≤1.25% @ 400 - 870nm<br>R <sub>avg</sub> ≤1.25% @ 890 - 1000nm |
| Substrate: <input type="checkbox"/>                   |  | N-BK7                                                                                                              |
| Surface Quality:                                      |  | 40-20                                                                                                              |
| Power (P-V) @ 632.8nm:                                |  | 1.5λ                                                                                                               |
| Irregularity (P-V) @ 632.8nm:                         |  | λ/4                                                                                                                |
| Focal Length Tolerance (%):                           |  | ±1                                                                                                                 |
| Radius R <sub>1</sub> (mm):                           |  | 39.38                                                                                                              |
| f/#:                                                  |  | 3.00                                                                                                               |
| Numerical Aperture NA:                                |  | 0.17                                                                                                               |
| Wavelength Range (nm):                                |  | 400 - 1000                                                                                                         |
| Damage Threshold, By Design: <input type="checkbox"/> |  | 5 J/cm <sup>2</sup> @ 532nm, 10ns                                                                                  |
| Regulatory Compliance                                 |  |                                                                                                                    |
| Certificate of Conformance:                           |  | <a href="#">View</a>                                                                                               |

## PRODUCT DETAILS

- AR Coated to Provide <1.25% Reflectance per Surface for 400 - 1000nm
  - <0.25% Reflectance @ 880nm
  - Designed for 0° Angle of Incidence
  - Various PCX Coating Options: [Uncoated](#), [MgF<sub>2</sub>](#), [VIS 0°](#), [NIR I](#), [NIR II](#), [VIS-EXT](#), and [YAG-BBAR](#)
- TECHSPEC® VIS-NIR Coated Plano-Convex (PCX) 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. Plano-Convex lenses are ideal for a multitude of optics and photonics applications, including biotech instruments such as DNA sequencers and polymerase chain reaction (PCR) testing platforms. TECHSPEC® VIS-NIR Coated Plano-Convex (PCX) 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°](#), [NIR I](#), [NIR II](#), [VIS-EXT](#), and [YAG-BBAR](#).
- These coated lenses are optimized for a wide range of optics and photonics applications, including biotech instruments such as DNA sequencers and polymerase chain reaction (PCR) testing platforms.

## TECHNICAL INFORMATION



N-BK7

### Uncoated N-BK7 Typical Transmission



Typical transmission of a 3mm thick, uncoated N-BK7 window across the UV - NIR spectra.

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### N-BK7 with $MgF_2$ Coating Typical Transmission



Typical transmission of a 3mm thick N-BK7 window with  $MgF_2$  (400-700nm) coating at  $0^\circ$  AOI.

The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{avg} \leq 1.75\% @ 400 - 700\text{nm}$  (N-BK7)

Data outside this range is not guaranteed and is for reference only.

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### N-BK7 with VIS-EXT Coating Typical Transmission



Typical transmission of a 3mm thick N-BK7 window with VIS-EXT (350-700nm) coating at  $0^\circ$  AOI.

The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{avg} \leq 0.5\% @ 350 - 700\text{nm}$

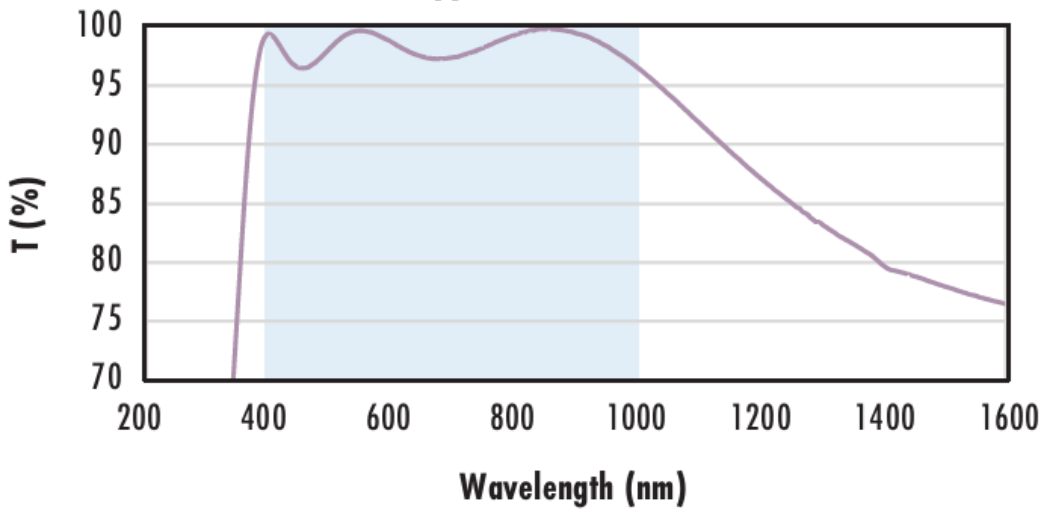
Data outside this range is not guaranteed and is for reference only.

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**N-BK7 with VIS-NIR Coating  
Typical Transmission**



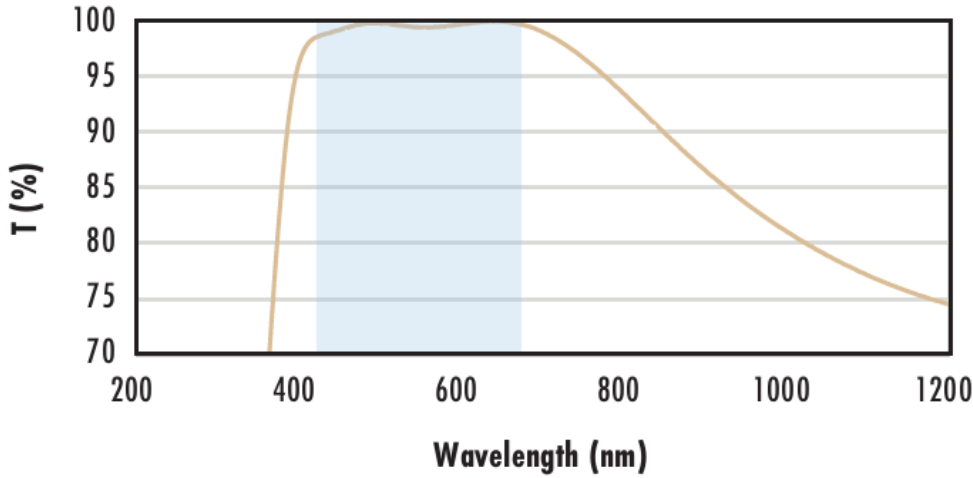
Typical transmission of a 3mm thick N-BK7 window with VIS-NIR (400-1000nm) coating at 0° AOI.  
The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{abs} \leq 0.25\% \text{ @ } 880\text{nm}$   
 $R_{avg} \leq 1.25\% \text{ @ } 400 - 870\text{nm}$   
 $R_{avg} \leq 1.25\% \text{ @ } 890 - 1000\text{nm}$

Data outside this range is not guaranteed and is for reference only.

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**N-BK7 with VIS 0° Coating  
Typical Transmission**



Typical transmission of a 3mm thick N-BK7 window with VIS 0° (425-675nm) coating at 0° AOI.  
The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{avg} \leq 0.4\% \text{ @ } 425 - 675\text{nm}$

Data outside this range is not guaranteed and is for reference only.

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**N-BK7 with YAG-BBAR Coating  
Typical Transmission**



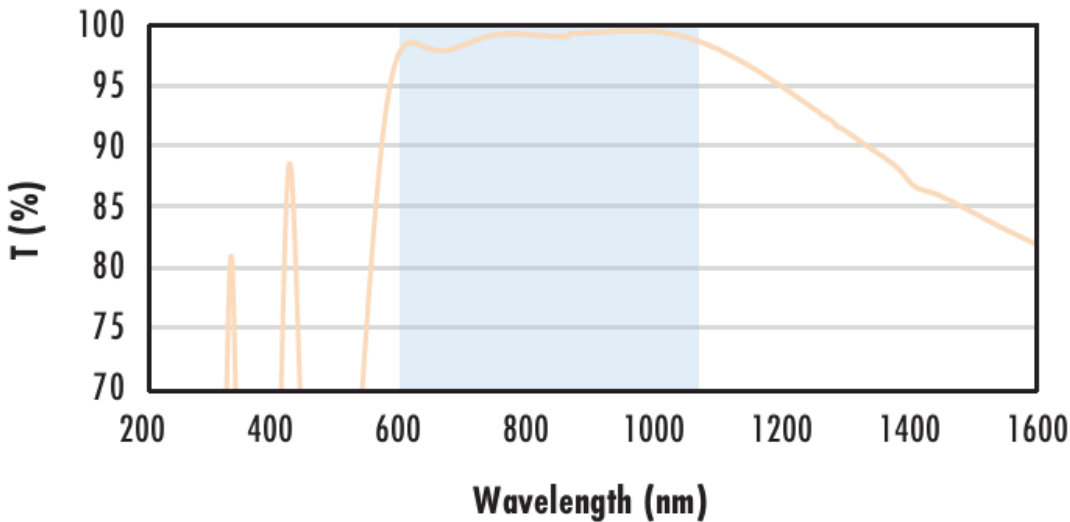
Typical transmission of a 3mm thick N-BK7 window with YAG-BBAR (500-1100nm) coating at 0° AOI.  
The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{abs} \leq 0.25\% \text{ @ } 532\text{nm}$   
 $R_{abs} \leq 0.25\% \text{ @ } 1064\text{nm}$   
 $R_{avg} \leq 1.0\% \text{ @ } 500 - 1100\text{nm}$

Data outside this range is not guaranteed and is for reference only.

[Click Here to Download Data](#)

**N-BK7 with NIR I Coating  
Typical Transmission**



Typical transmission of a 3mm thick N-BK7 window with NIR I (600 - 1050nm) coating at 0° AOI.  
The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{avg} \leq 0.5\% \text{ @ } 600 - 1050\text{nm}$

Data outside this range is not guaranteed and is for reference only.

[Click Here to Download Data](#)

**N-BK7 with NIR II Coating  
Typical Transmission**



## CUSTOM

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