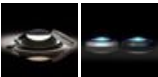


TECHSPEC<sup>®</sup> 8.0mm Dia. x 12.0mm FL, MgF<sub>2</sub> Coated, Plano-Convex Lens



Stock **#71-328** **7 In Stock**

☐ [Other Coating Options](#)

-

1

+

£30<sup>60</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-10       | £30.60 each                   |
| Qty 11-24      | £27.40 each                   |
| Qty 25-49      | £24.60 each                   |
| Need More?     | <a href="#">Request Quote</a> |

Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

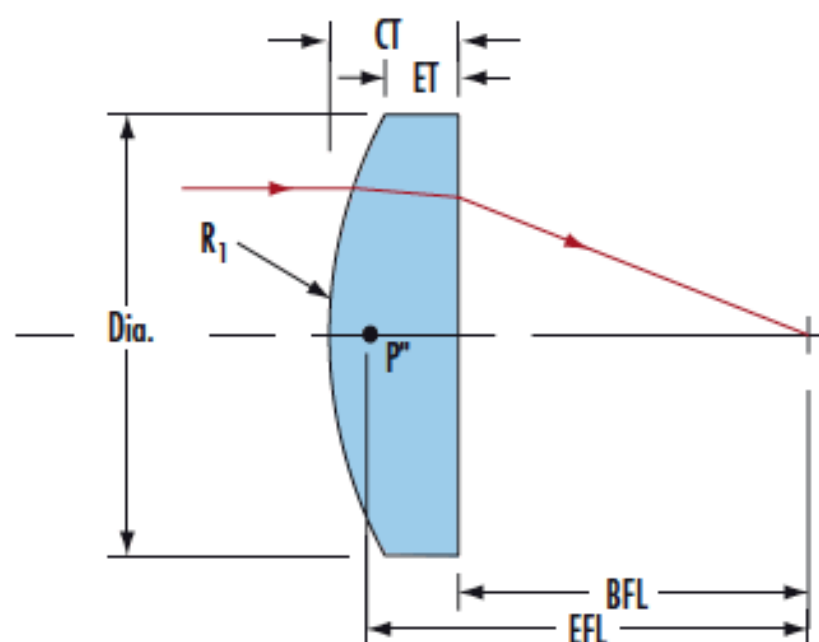
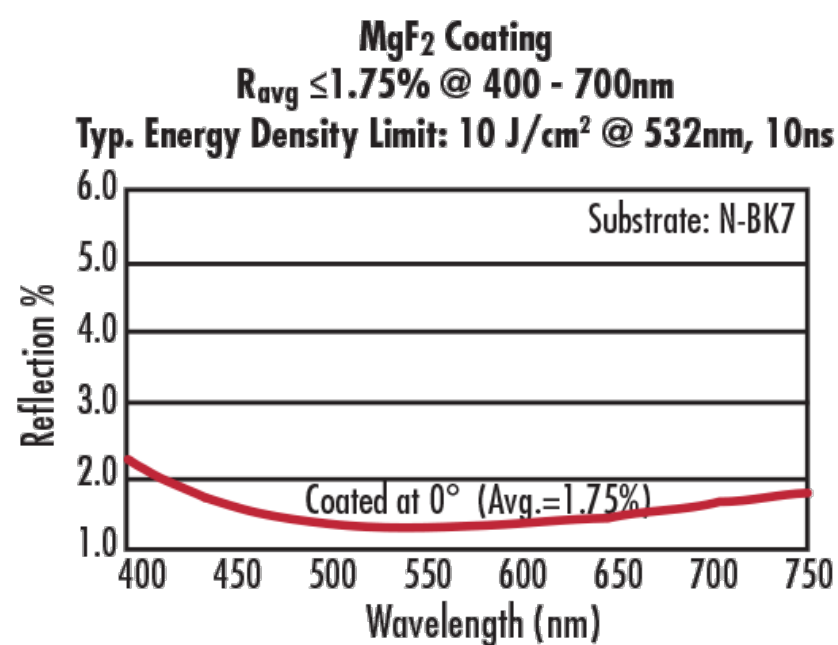
|                                        |                                                       |
|----------------------------------------|-------------------------------------------------------|
| Plano-Convex Lens                      | Type:                                                 |
| Physical & Mechanical Properties       |                                                       |
| 8.00 +0.0/-0.025                       | Diameter (mm):                                        |
| <1                                     | Centering (arcmin):                                   |
| 3.00 ±0.05                             | Center Thickness CT (mm):                             |
| 1.54                                   | Edge Thickness ET (mm):                               |
| 7.20                                   | Clear Aperture CA (mm):                               |
| Protective as needed                   | Bevel:                                                |
| Optical Properties                     |                                                       |
| 12.00 @ 587.6nm                        | Effective Focal Length EFL (mm):                      |
| 10.00                                  | Back Focal Length BFL (mm):                           |
| MgF2 (400-700nm)                       | Coating:                                              |
| R <sub>avg</sub> ≤ 1.75% @ 400 - 700nm | 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 (%):                           |
| 6.20                                   | Radius R <sub>1</sub> (mm):                           |
| 1.50                                   | f/#:                                                  |
| 0.33                                   | Numerical Aperture NA:                                |
| 400 - 700                              | Wavelength Range (nm):                                |
| 10 J/cm² @ 532nm, 10ns                 | Damage Threshold, By Design: <input type="checkbox"/> |
| Regulatory Compliance                  |                                                       |
| View                                   | Certificate of Conformance:                           |

## PRODUCT DETAILS

- AR Coated to Provide <1.75% Reflectance per Surface for 400 - 700nm
- Designed for 0° Angle of Incidence
- Various PCX Coating Options: [Uncoated](#), [VIS 0°](#), [VIS-NIR](#), [NIR I](#), [NIR II](#), [VIS-EXT](#), and [YAG-BBAR](#)
- Also Available [Pre-Mounted in Engraved C-Mount Housings](#)

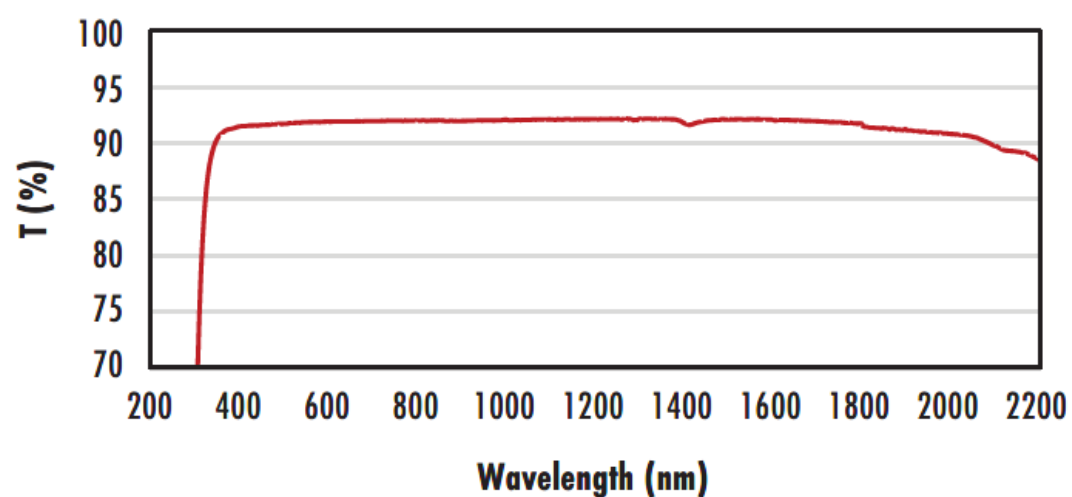
TECHSPEC® MgF2 Coated Plano-Convex (PCX) Lenses have a positive focal length, making them ideal for collecting and focusing light in imaging applications. They are also useful in a variety of applications involving emitters, detectors, lasers, and fiber optics. TECHSPEC® MgF2 Coated Plano-Convex (PCX) 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 [VIS 0°](#), [VIS-NIR](#), [NIR I](#), [NIR II](#), [VIS-EXT](#), and [YAG-BBAR](#).

## TECHNICAL INFORMATION



N-BK7

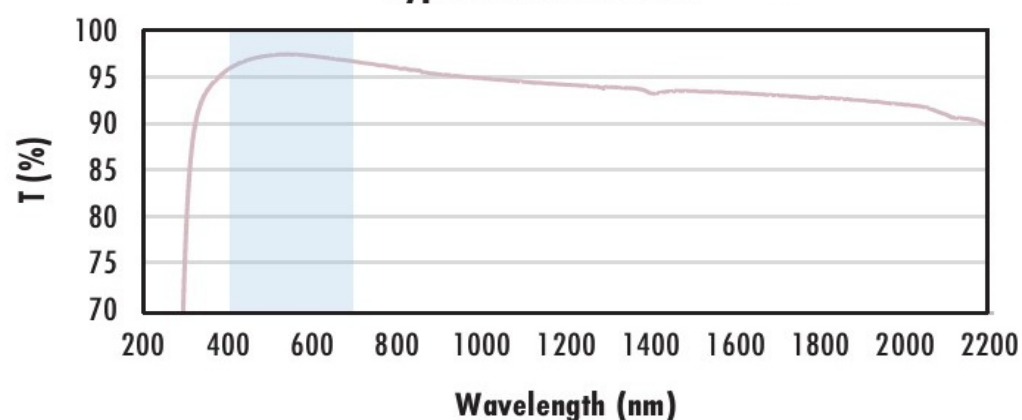
**Uncoated N-BK7 Typical Transmission**



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

[Click Here to Download Data](#)

**N-BK7 with MgF<sub>2</sub> Coating  
Typical Transmission**



Typical transmission of a 3mm thick N-BK7 window with MgF<sub>2</sub> (400-700nm) coating at 0° 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)

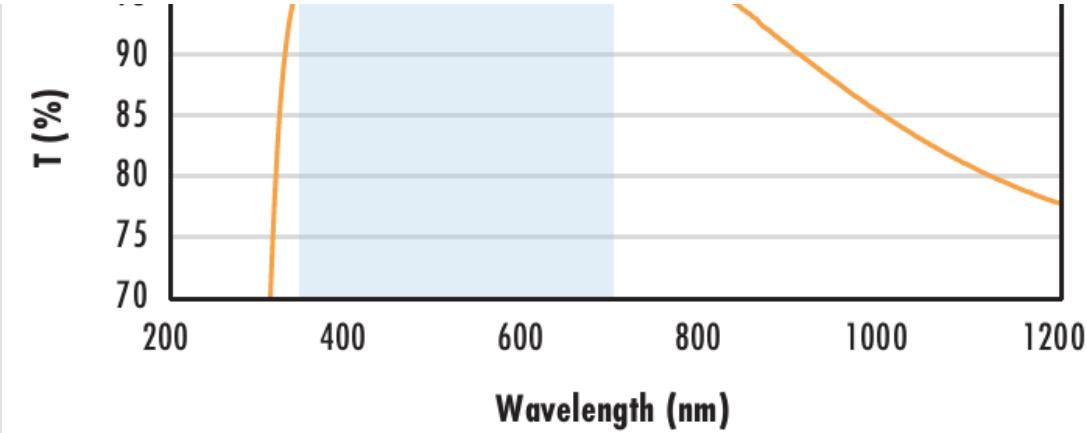
Data outside this range is not guaranteed and is for reference only.

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



Typical transmission of a 3mm thick N-BK7 window with VIS-EXT



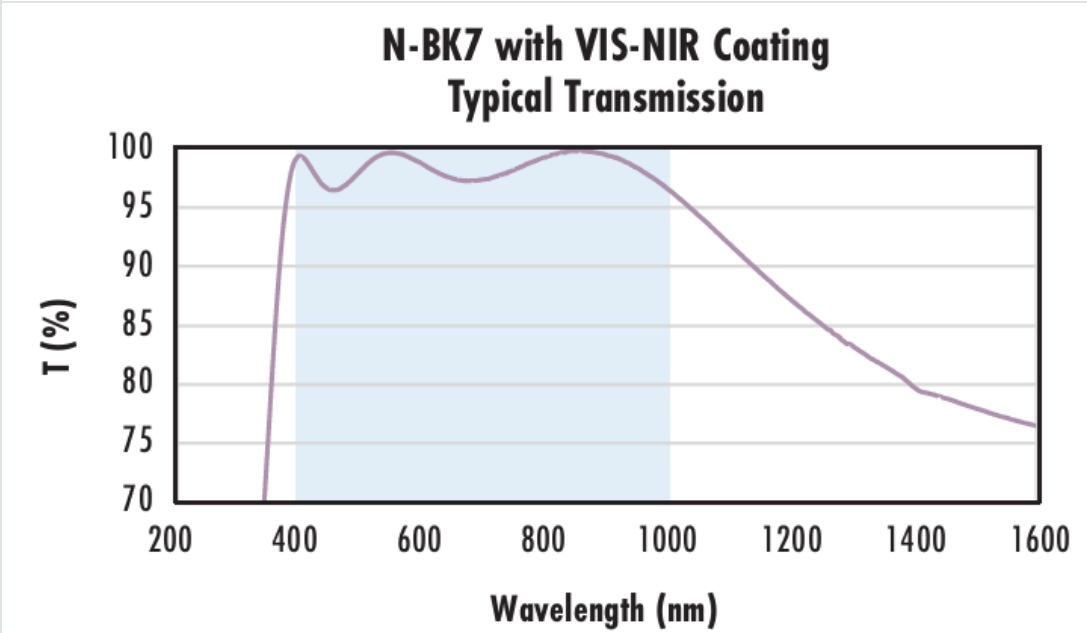
Typical transmission of a 3mm thick N-BK7 window with VIS-NIR (350-700nm) coating at 0° AOI.

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

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

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

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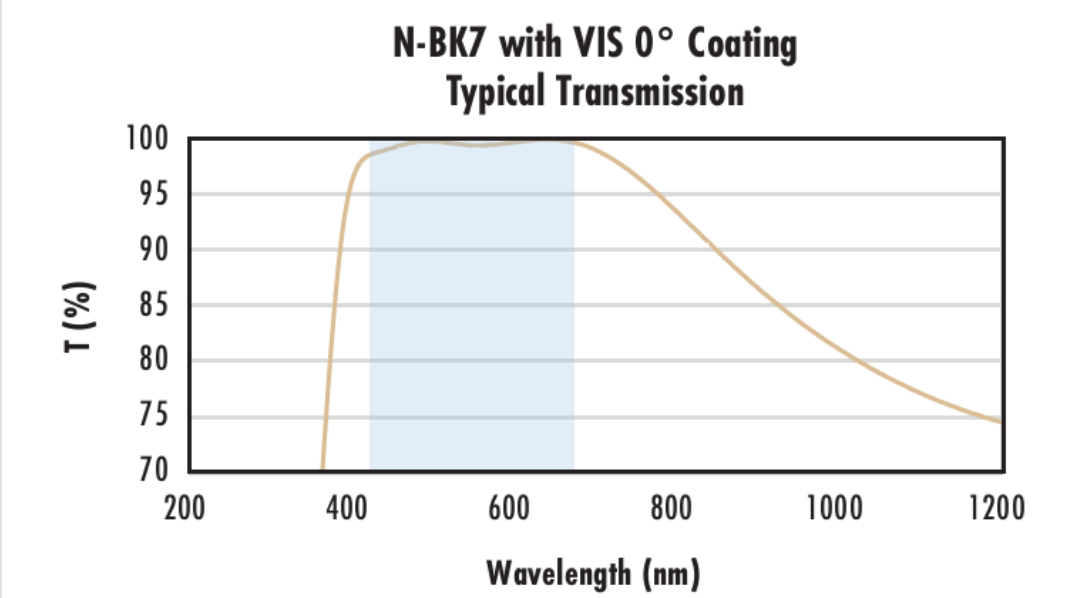
Typical transmission of a 3mm thick N-BK7 window with VIS-NIR (400-1000nm) coating at 0° AOI.

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

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

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

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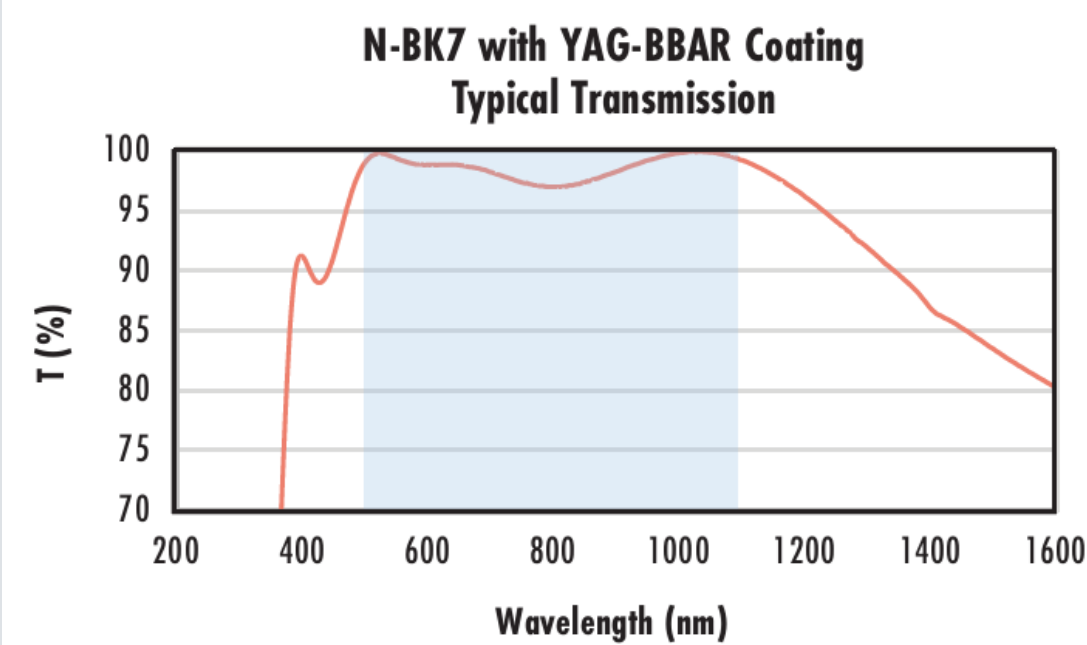
Typical transmission of a 3mm thick N-BK7 window with VIS 0° (425-675nm) coating at 0° AOI.

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

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

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

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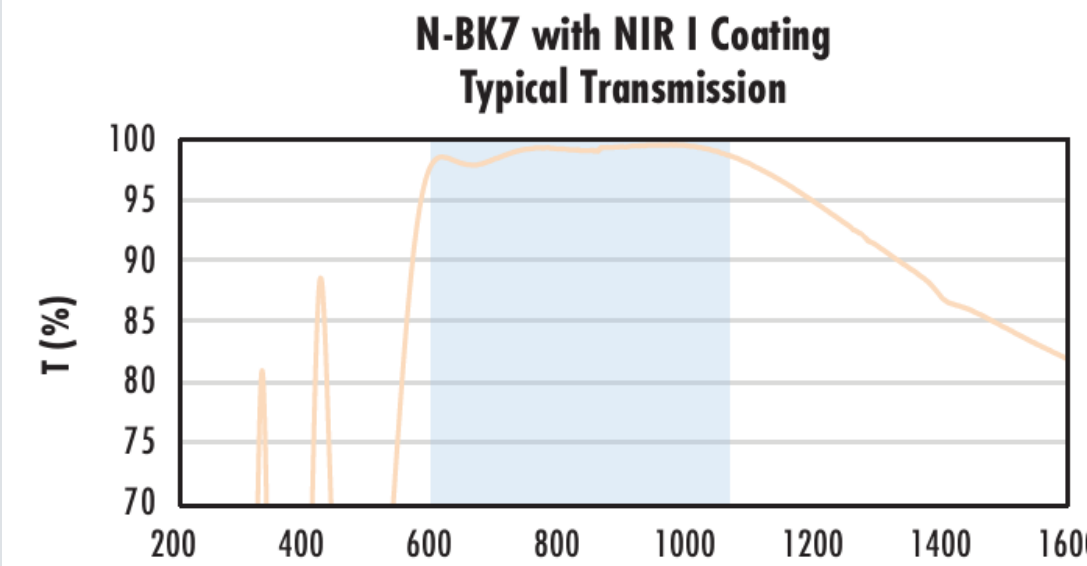
Typical transmission of a 3mm thick N-BK7 window with YAG-BBAR (500-1100nm) coating at 0° AOI.

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

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

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

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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:

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

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

[Click Here to Download Data](#)

