

[See all 49 Products in Family](#)**TECHSPEC® 12mm Diameter x -48 FL, NIR II Inked, Plano-Concave Lens**Stock #67-995-INK [CONTACT US](#)[Other Coating Options](#) £47^{.20}[ADD TO CART](#)

| Volume Pricing | |
|----------------|-------------------------------|
| Qty 1-9 | £47.20 each |
| Qty 10-25 | £42.40 each |
| Qty 26-49 | £37.80 each |
| Need More? | Request Quote |

Prices shown are exclusive of VAT/local taxes[Product Downloads](#)**SPECIFICATIONS****General**

Type:

Plano-Concave Lens

Physical & Mechanical Properties

| | |
|--------------|----------------------------------|
| 12.00 ±0.025 | Diameter (mm): |
| 3.50 | Center Thickness CT (mm): |
| ±0.05 | Center Thickness Tolerance (mm): |
| <1 | Centering (arcmin): |
| 11.00 | Clear Aperture CA (mm): |
| 4.12 | Edge Thickness ET (mm): |

Optical Properties

| | |
|---|---|
| -48.00 | Effective Focal Length EFL (mm): |
| N-BK7 | Substrate: <input type="checkbox"/> |
| 4.00 | f#: <input type="checkbox"/> |
| NIR II (750-1550nm) | Coating: |
| 750 - 1550 | Wavelength Range (nm): |
| -50.31 | Back Focal Length BFL (mm): |
| R _{abs} ≤ 1.5% @ 750 - 800nm R _{abs} ≤ 1.0% @ 800 - 1550nm R _{avg} ≤ 0.7% @ 750 - 1550nm | Coating Specification: |
| 587.6 | Focal Length Specification Wavelength (nm): |
| ±1.00 | Focal Length Tolerance (%): |
| -24.81 | Radius R ₁ (mm): |
| 40-20 | Surface Quality: |
| 8 J/cm ² @ 1064nm, 10ns | Damage Threshold, By Design: <input type="checkbox"/> |
| 1.5λ | Power (P-V) @ 632.8nm: |
| N4 | Irregularity (P-V) @ 632.8nm: |

Regulatory Compliance

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

PRODUCT DETAILS

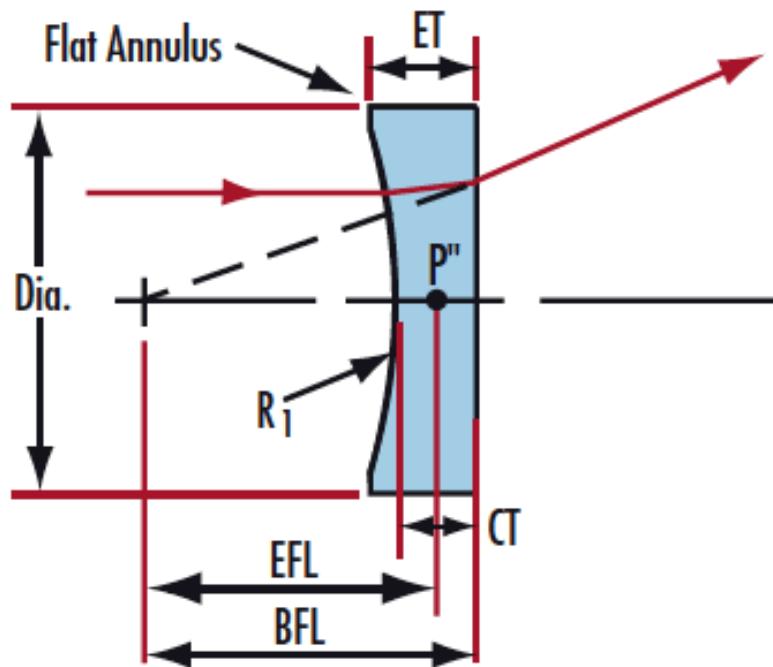
- AR Coated to Provide <0.7% Reflectance per Surface for 750 - 1550nm

- Designed for 0° Angle of Incidence

- Various Coating Options: [Uncoated](#), [VIS-EXT](#), [MgF₂](#), [VIS 0°](#), [VIS-NIR](#), [YAG-BBAR](#), and [NIRI](#)

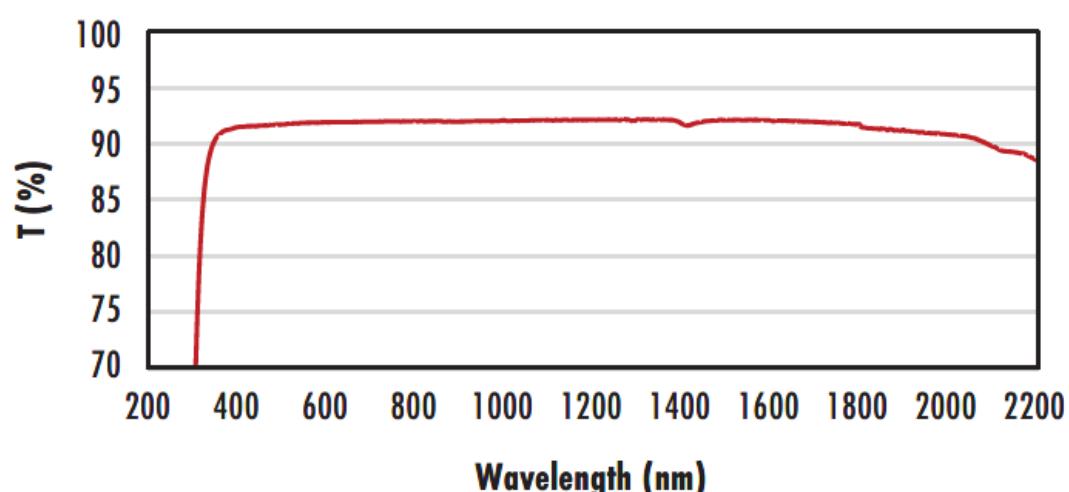
TECHSPEC® NIR II Coated Plano-Concave (PCV) Lenses are designed to bend parallel input rays to diverge from one another on the lens's output side causing this lens to have a negative focal length. These lenses can be used for balancing aberrations created by other lenses within a system due to their negative spherical aberration. Plano-Concave (PCV) lenses are commonly used in a variety of applications including image reduction, beam expansion and telescopes. TECHSPEC NIR II Coated Plano-Concave (PCV) Lenses offer optimal performance in the 750 to 1550nm range. These lenses are also available [Uncoated](#), [VIS-EXT](#), [MgF₂](#), [VIS 0°](#), [VIS-NIR](#), [YAG-BBAR](#), or with [NIRI](#) AR coating options.

TECHNICAL INFORMATION



N-BK7

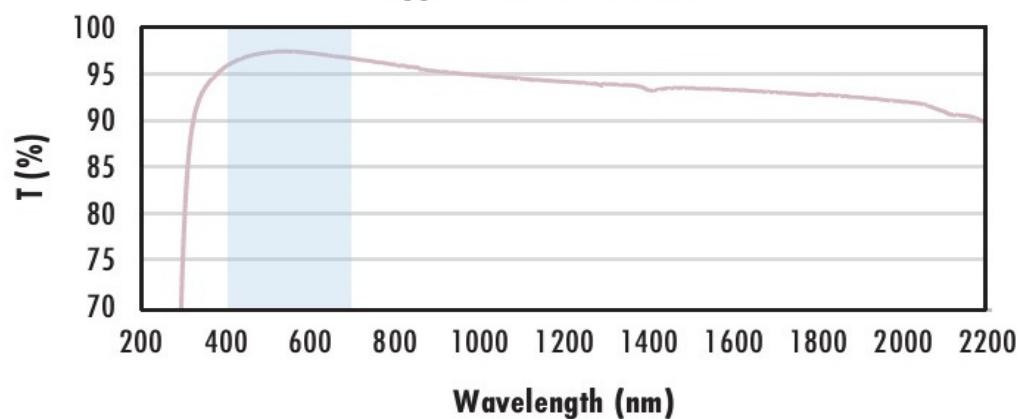
Uncoated N-BK7 Typical Transmission



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

[Click Here to Download Data](#)

N-BK7 with MgF_2 Coating Typical Transmission



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

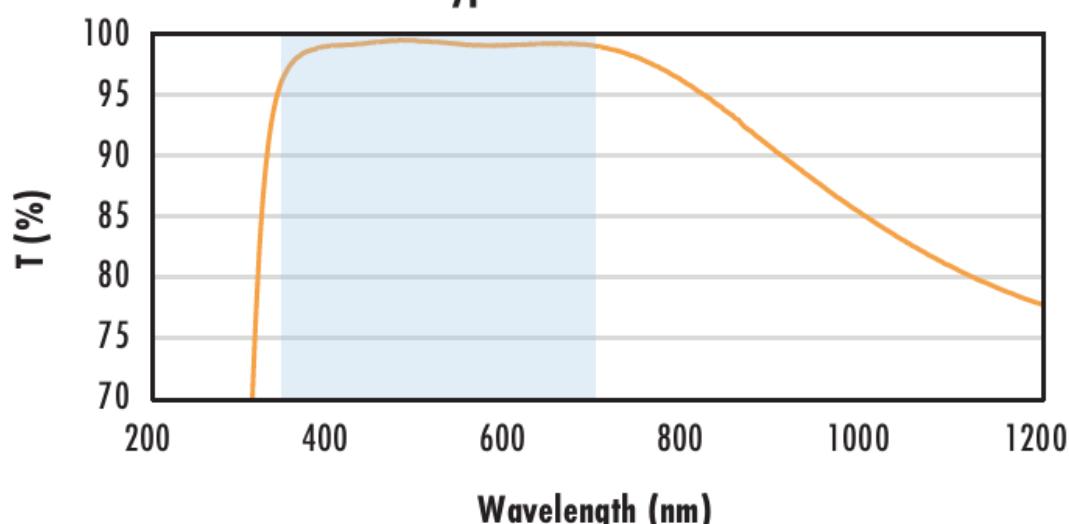
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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

[Click Here to Download Data](#)

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° AOI.

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

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

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

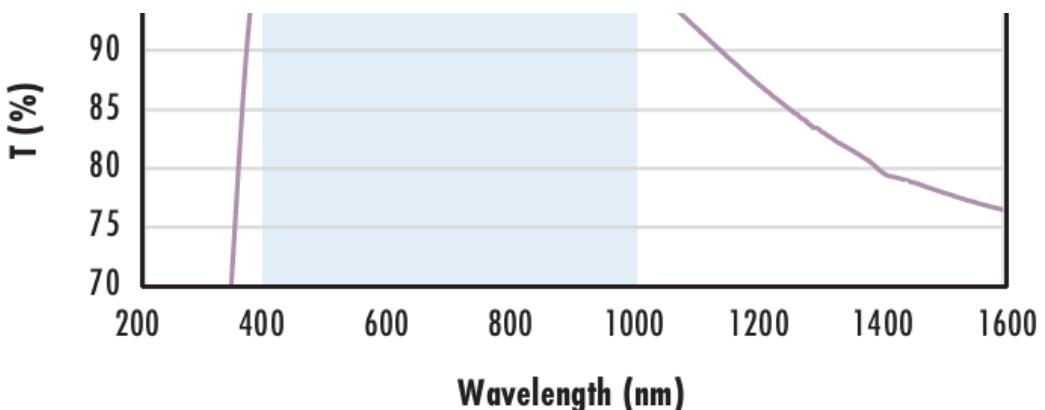
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N-BK7 with VIS-NIR Coating Typical Transmission



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.

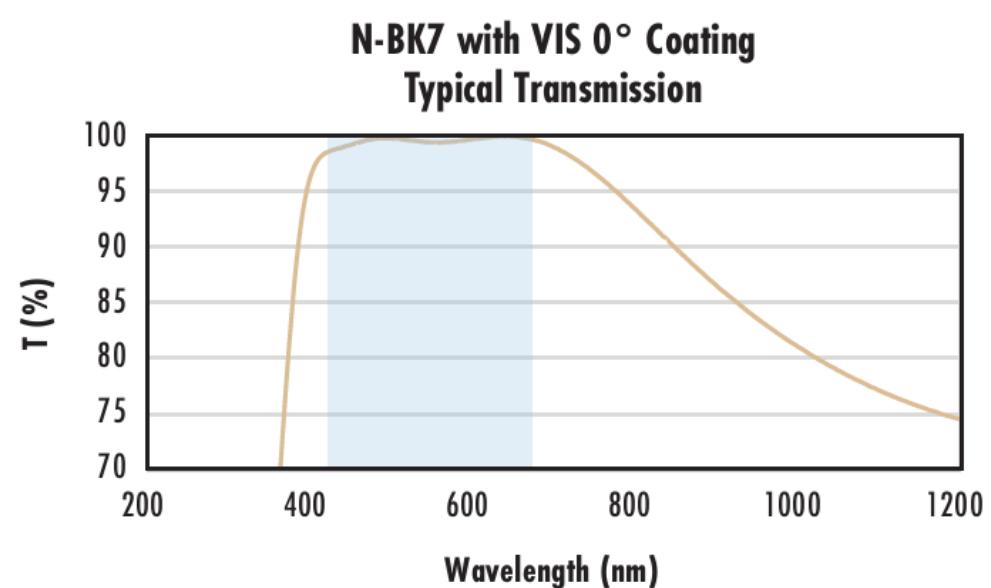


The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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

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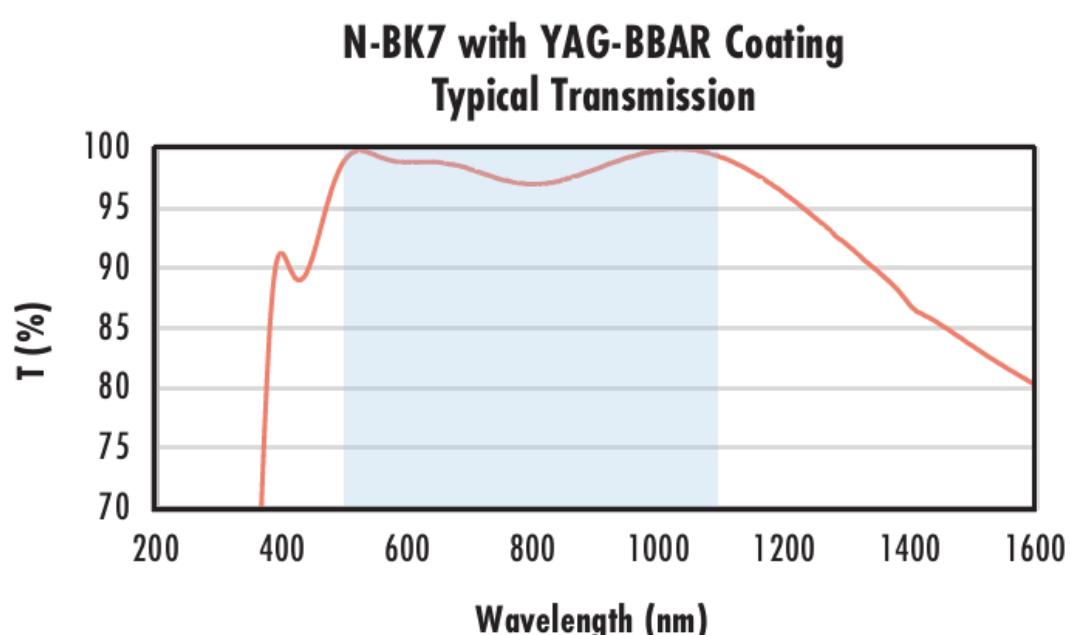
Typical transmission of a 3mm thick N-BK7 window with VIS 0° (425-675nm) coating at 0° AOI.

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

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

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

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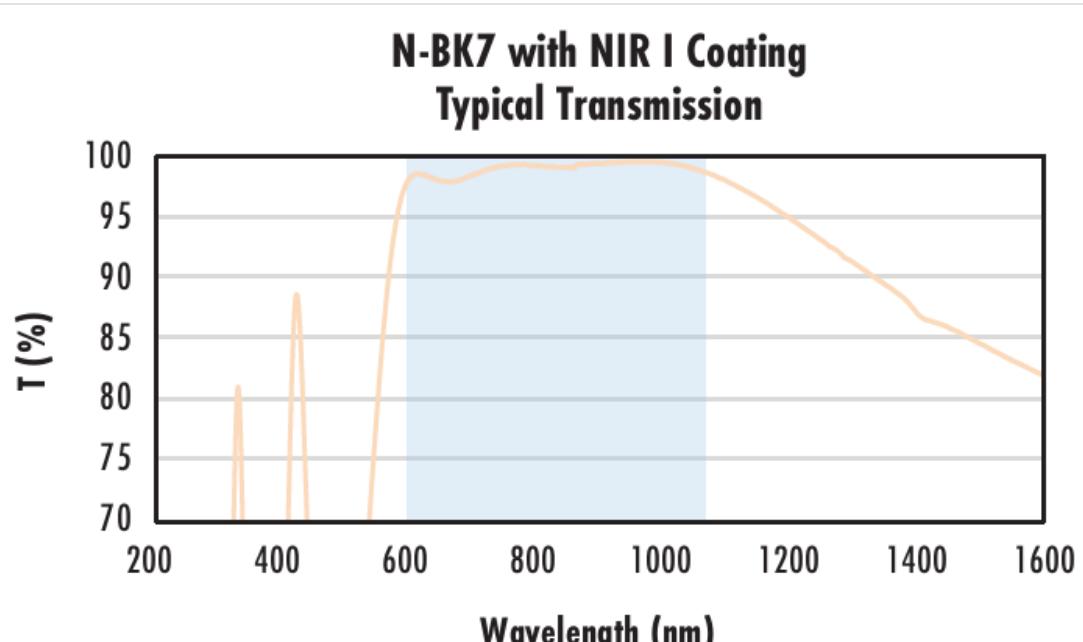
Typical transmission of a 3mm thick N-BK7 window with YAG-BBAR (500-1100nm) coating at 0° AOI.

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

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

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

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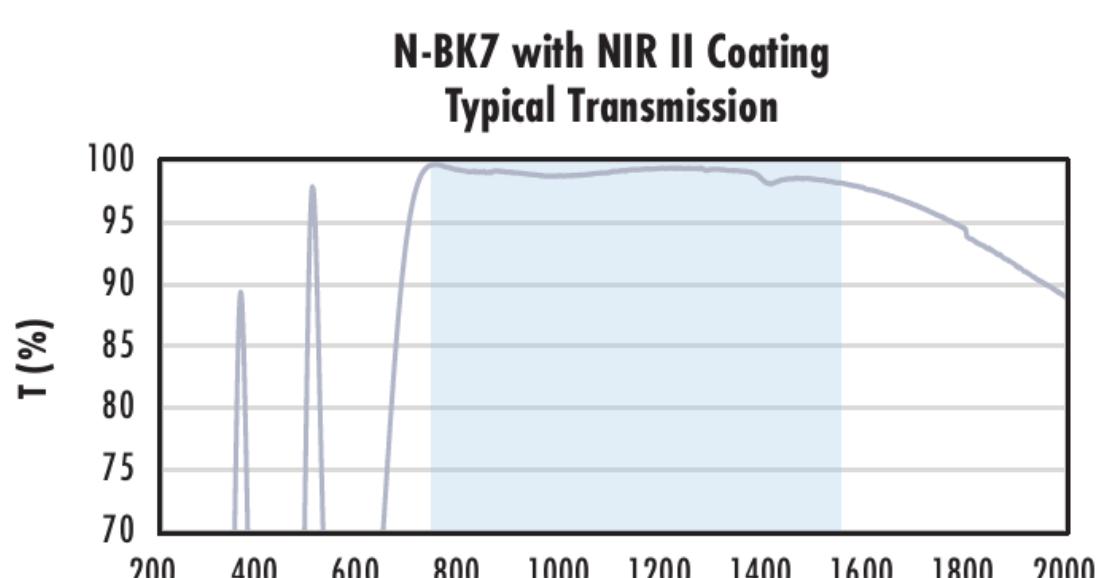
Typical transmission of a 3mm thick N-BK7 window with NIR I (600 - 1050nm) coating at 0° AOI.

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

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

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 II (750 - 1550nm) coating at 0° AOI.

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

$$\begin{aligned} R_{\text{abs}} &\leq 1.5\% @ 750 - 800\text{nm} \\ R_{\text{abs}} &\leq 1.0\% @ 800 - 1550\text{nm} \\ R_{\text{avg}} &\leq 0.7\% @ 750 - 1550\text{nm} \end{aligned}$$

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

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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