

TECHSPEC<sup>®</sup> 25mm Dia. x 35mm FL, VIS-NIR, Inked, Double-Convex Lens



Stock **#45-888-INK** [CONTACT US](#)

-

1

+

£54<sup>00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-9        | £54.00 each                   |
| Qty 10-24      | £48.80 each                   |
| Qty 25-99      | £43.20 each                   |
| Need More?     | <a href="#">Request Quote</a> |



 Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:  
Double-Convex Lens

Physical & Mechanical Properties

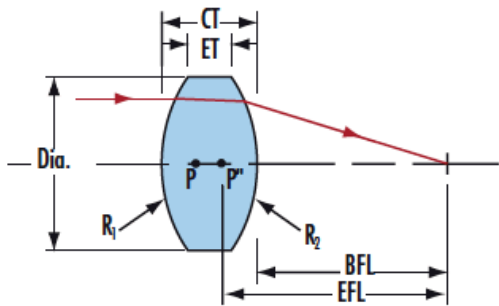
Diameter (mm):

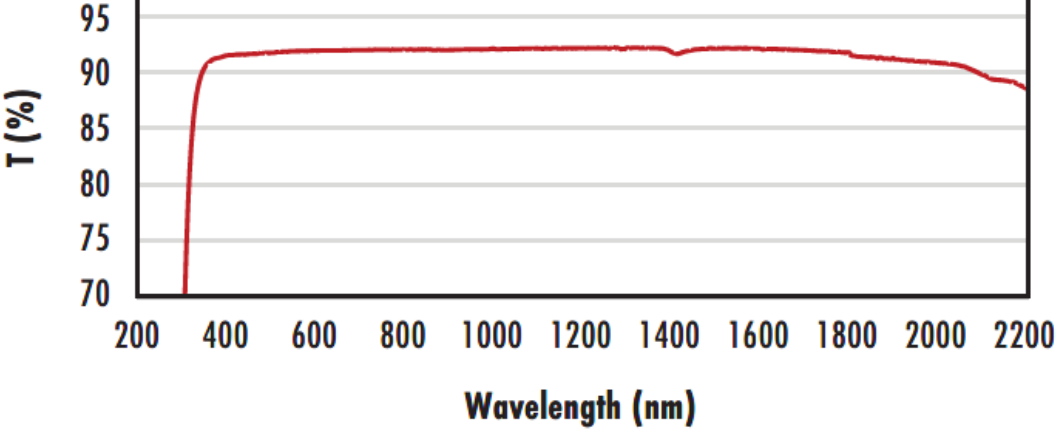
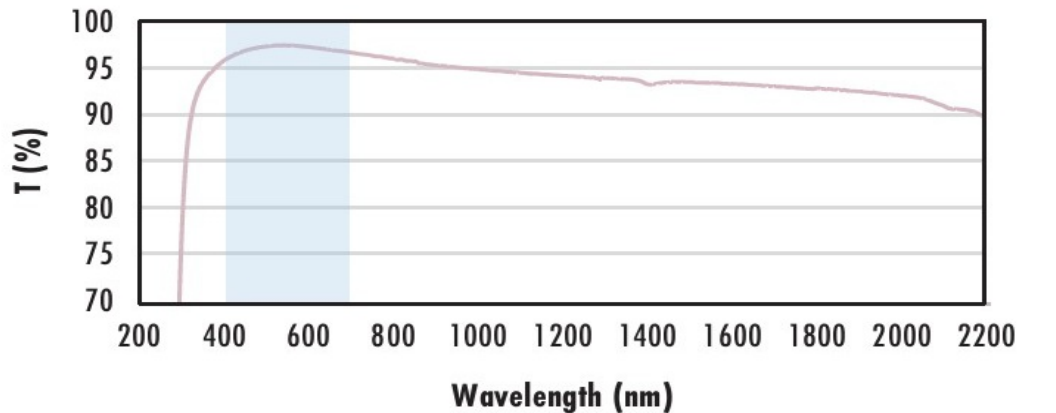
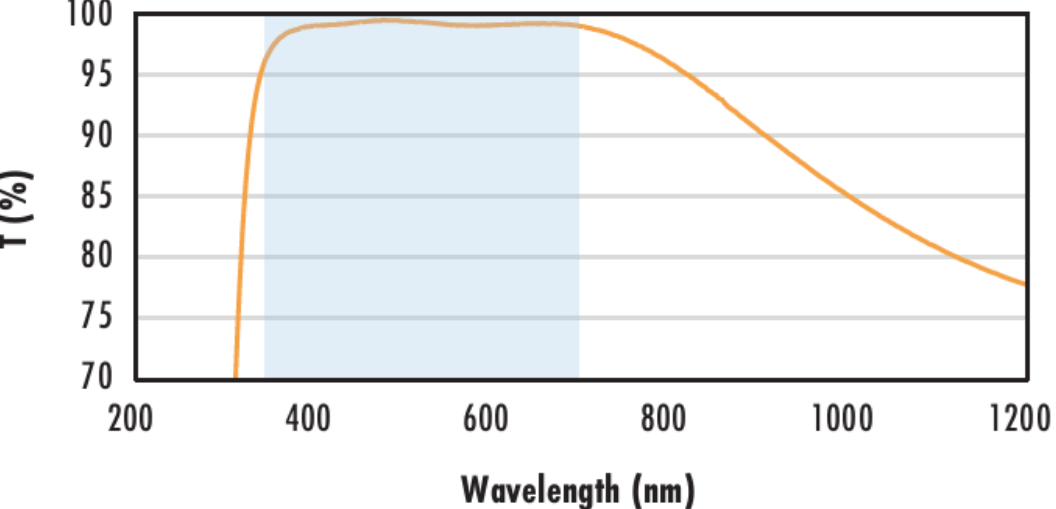
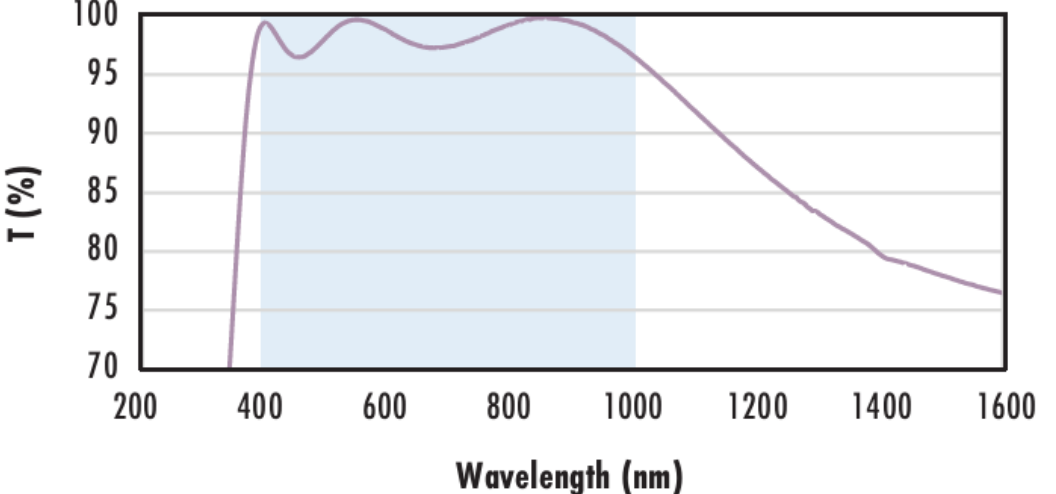
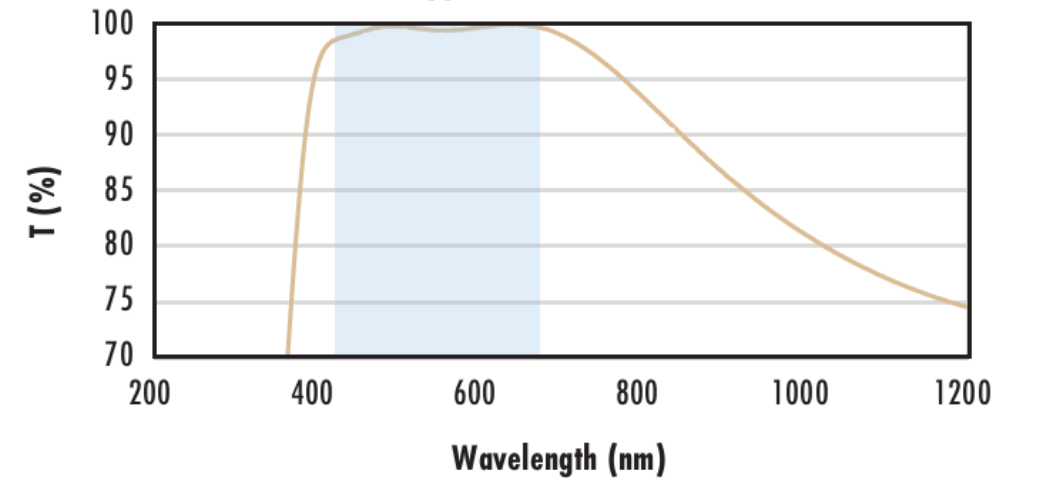
|                                                                                                                     |                                             |
|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| 25.00                                                                                                               |                                             |
| <1                                                                                                                  | Centering (arcmin):                         |
|                                                                                                                     |                                             |
| Protective as needed                                                                                                | Bevel:                                      |
|                                                                                                                     |                                             |
| 6.60                                                                                                                | Center Thickness CT (mm):                   |
|                                                                                                                     |                                             |
| ±0.10                                                                                                               | Center Thickness Tolerance (mm):            |
|                                                                                                                     |                                             |
| 2.00                                                                                                                | Edge Thickness ET (mm):                     |
|                                                                                                                     |                                             |
| 24.00                                                                                                               | Clear Aperture CA (mm):                     |
|                                                                                                                     |                                             |
| Optical Properties                                                                                                  |                                             |
|                                                                                                                     |                                             |
| 32.81                                                                                                               | Back Focal Length BFL (mm):                 |
|                                                                                                                     |                                             |
| 35.00                                                                                                               | Effective Focal Length EFL (mm):            |
|                                                                                                                     |                                             |
| VIS-NIR (400-1000nm)                                                                                                | Coating:                                    |
|                                                                                                                     |                                             |
| R <sub>abs</sub> ≤0.25% @ 880nm<br>R <sub>avg</sub> ≤1.25% @ 400 - 870 nm<br>R <sub>avg</sub> ≤1.25% @ 890 - 1000nm | Coating Specification:                      |
|                                                                                                                     |                                             |
| N-BK7                                                                                                               | Substrate: <input type="checkbox"/>         |
|                                                                                                                     |                                             |
| 40-20                                                                                                               | Surface Quality:                            |
|                                                                                                                     |                                             |
| 35.09                                                                                                               | Radius R <sub>1</sub> =R <sub>2</sub> (mm): |
|                                                                                                                     |                                             |
| 1.4                                                                                                                 | f/#:                                        |
|                                                                                                                     |                                             |
| ±1                                                                                                                  | Focal Length Tolerance (%):                 |
|                                                                                                                     |                                             |
| 0.36                                                                                                                | Numerical Aperture NA:                      |
|                                                                                                                     |                                             |
| 400 - 1000                                                                                                          | Wavelength Range (nm):                      |
|                                                                                                                     |                                             |
| Regulatory Compliance                                                                                               |                                             |
|                                                                                                                     |                                             |
| View                                                                                                                | Certificate of Conformance:                 |
|                                                                                                                     |                                             |

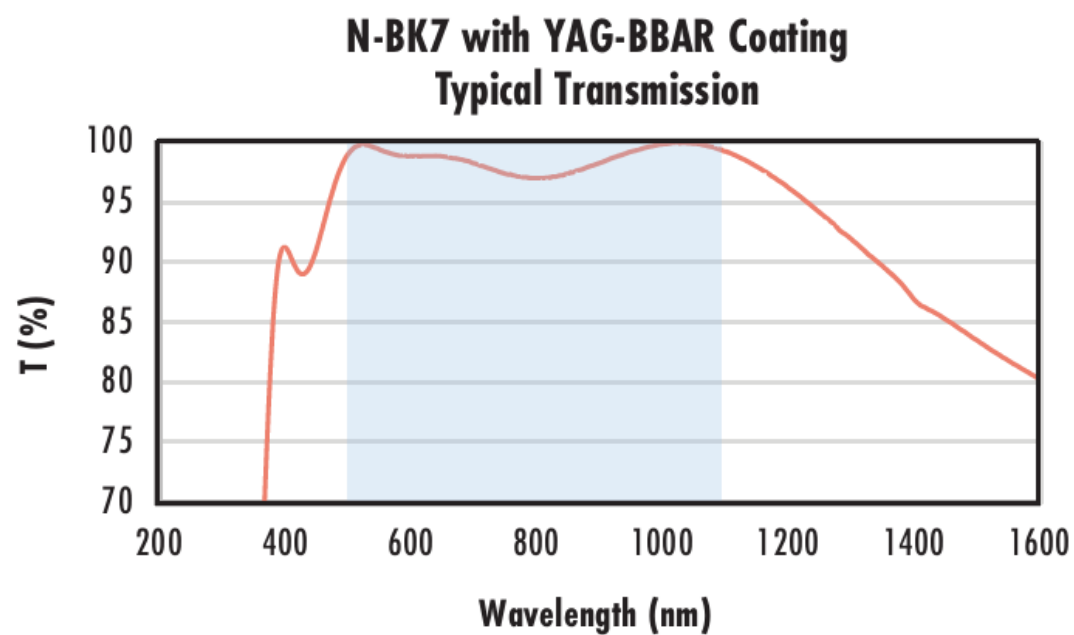
Product Details

- AR Coated to Provide <1.25% Reflectance per Surface for 400 - 1000nm
  - Minimize Aberrations Including Spherical and Coma
  - [UV Fused Silica DCX Lenses](#) Available
  - Other Coating Options Available: [Uncoated](#), [MgF<sub>2</sub>](#), [VIS 0°](#), [NIR I](#), [NIR II](#), [VIS-EXT](#), and [YAG-BBAR](#)
- TECHSPEC® VIS-NIR Coated Double-Convex (DCX) Lenses, also referred to as bi-convex lenses, have two positive, symmetrical faces with equal radii on both sides. These lenses are generally recommended for finite imaging applications with a conjugate ratio (ratio between object distance and image distance) between 0.2 and 5. At a conjugate ratio of 1, aberrations such as spherical aberration, chromatic aberration, coma, and distortion are minimized or cancelled due to the symmetric lens design. TECHSPEC® VIS-NIR Coated Double-Convex Lenses are available in a variety of substrates and coating options for the visible and NIR spectra.

Technical Information



|                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                     | <p>Typical transmission of a 3mm thick, uncoated N-BK7 window across the UV - NIR spectra.</p> <p><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                                                                                                                                                                                                              |
| <p><b>N-BK7 with MgF<sub>2</sub> Coating</b><br/><b>Typical Transmission</b></p>  | <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><math>R_{avg} \leq 1.75\% @ 400 - 700\text{nm}</math> (N-BK7)</p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p>                                                                                                            |
| <p><b>N-BK7 with VIS-EXT Coating</b><br/><b>Typical Transmission</b></p>         | <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><math>R_{avg} \leq 0.5\% @ 350 - 700\text{nm}</math></p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p>                                                                                                                  |
| <p><b>N-BK7 with VIS-NIR Coating</b><br/><b>Typical Transmission</b></p>         | <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><math>R_{abs} \leq 0.25\% @ 880\text{nm}</math><br/><math>R_{avg} \leq 1.25\% @ 400 - 870\text{nm}</math><br/><math>R_{avg} \leq 1.25\% @ 890 - 1000\text{nm}</math></p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p> |
| <p><b>N-BK7 with VIS 0° Coating</b><br/><b>Typical Transmission</b></p>          | <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><math>R_{avg} \leq 0.4\% @ 425 - 675\text{nm}</math></p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p>                                                                                                                   |



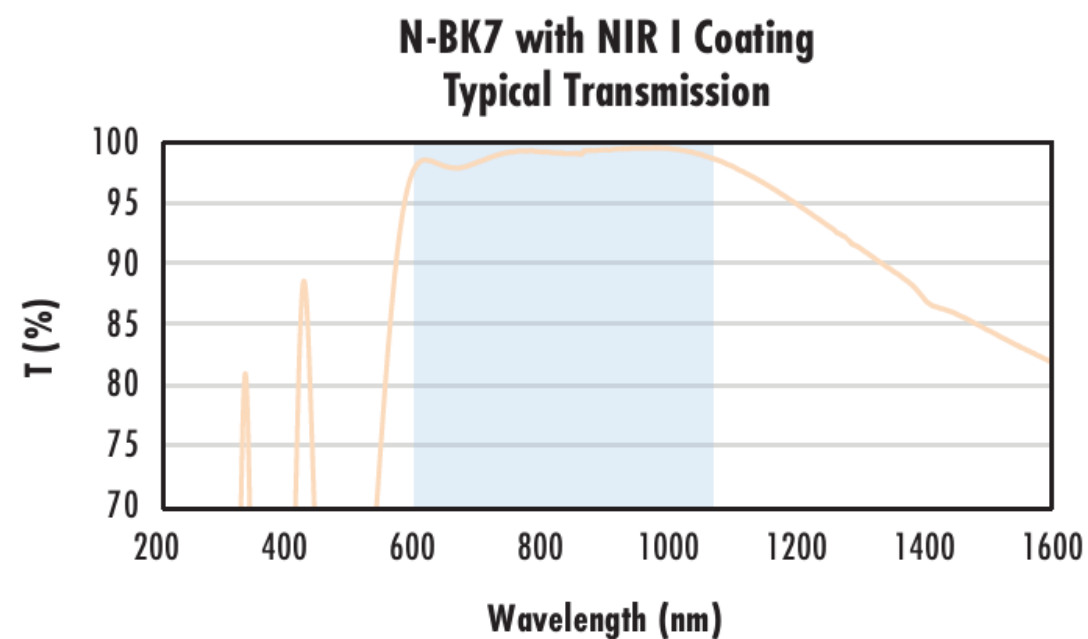
Typical transmission of a 3mm thick N-BK7 window with YAG-BBAR (500-1100nm) coating at 0° AOI.

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

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

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

[Click Here to Download Data](#)



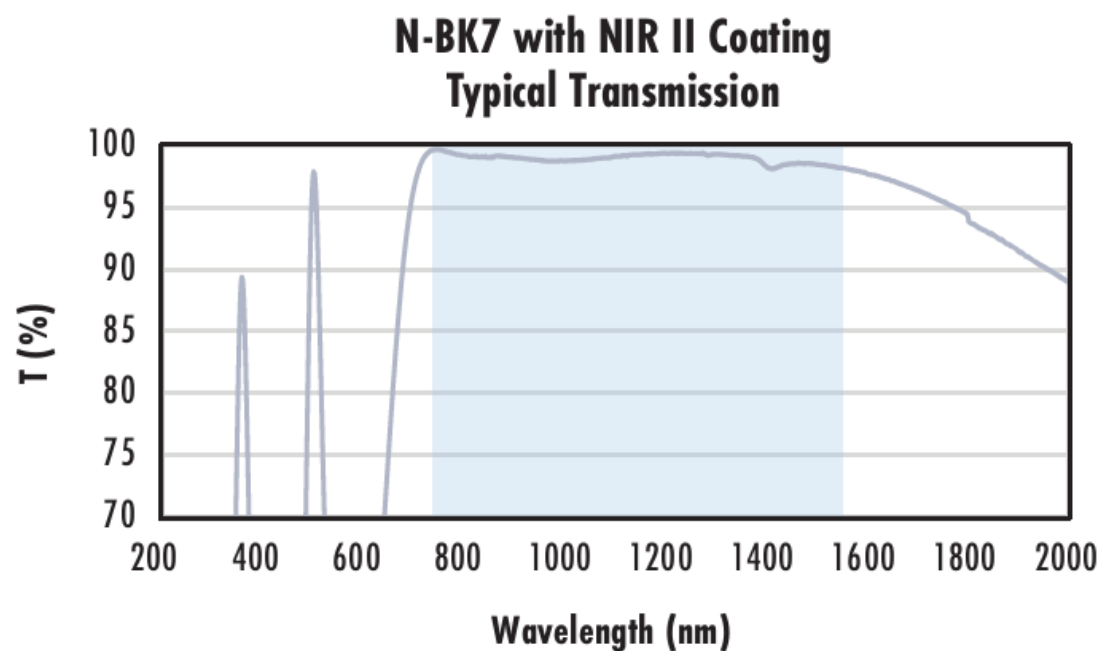
Typical transmission of a 3mm thick N-BK7 window with NIR I (600 - 1050nm) coating at 0° AOI.

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](#)



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:

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

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

[Click Here to Download Data](#)

## Coating Curves

## 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