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TECHSPEC<sup>®</sup> 15mm Dia. x 25mm FL, VIS-NIR Inked, Double-Convex Lens



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-

1

+

€62<sup>.00</sup>

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| Qty 1-9        | €62,00 each                   |
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General

Double-Convex Lens

Type:

Physical & Mechanical Properties

|                                                                                                                     |                                             |
|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| 15.00 ±0.025                                                                                                        | Diameter (mm):                              |
| <1                                                                                                                  | Centering (arcmin):                         |
| Protective as needed                                                                                                | Bevel:                                      |
| 3.50                                                                                                                | Center Thickness CT (mm):                   |
| ±0.10                                                                                                               | Center Thickness Tolerance (mm):            |
| 1.22                                                                                                                | Edge Thickness ET (mm):                     |
| 14.00                                                                                                               | Clear Aperture CA (mm):                     |
| Optical Properties                                                                                                  |                                             |
| 23.82                                                                                                               | Back Focal Length BFL (mm):                 |
| 25.00                                                                                                               | 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: □                                |
| 40-20                                                                                                               | Surface Quality:                            |
| 1.5λ                                                                                                                | Power (P-V) @ 632.8nm:                      |
| λ/4                                                                                                                 | Irregularity (P-V) @ 632.8nm:               |
| 25.23                                                                                                               | Radius R <sub>1</sub> =R <sub>2</sub> (mm): |
| 1.67                                                                                                                | f/#:                                        |
| 587.6                                                                                                               | Focal Length Specification Wavelength (nm): |
| ±1                                                                                                                  | Focal Length Tolerance (%):                 |
| 0.30                                                                                                                | Numerical Aperture NA:                      |
| 400 - 1000                                                                                                          | Wavelength Range (nm):                      |
| 5 J/cm² @ 532nm, 10ns                                                                                               | Damage Threshold, By Design: □              |

|                       |                             |
|-----------------------|-----------------------------|
| Regulatory Compliance |                             |
| View                  | Certificate of Conformance: |

## 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

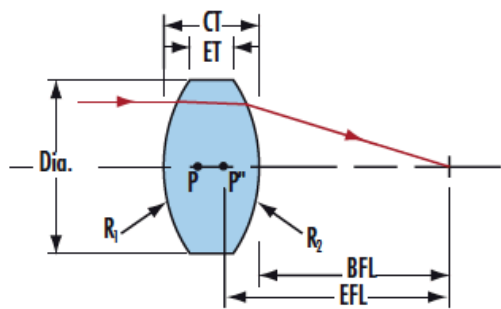
Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

## 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](#)

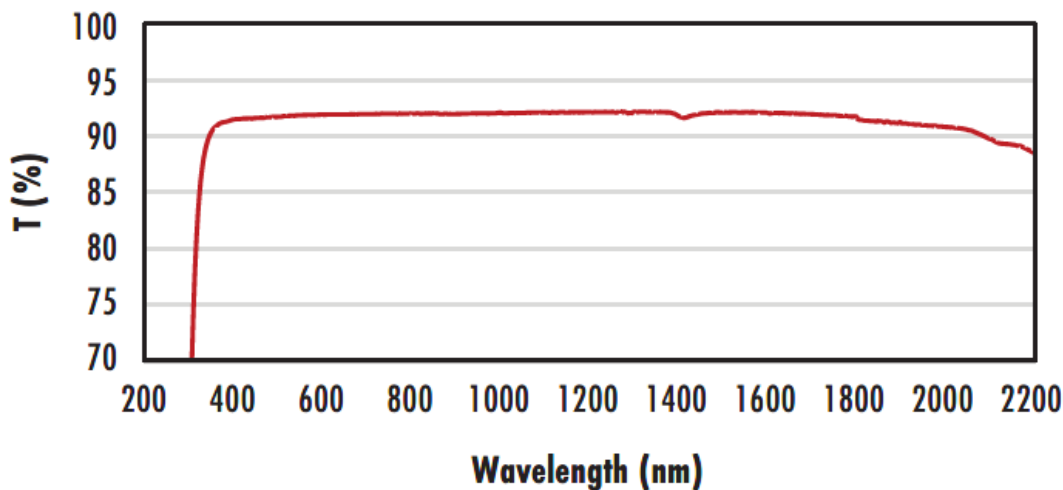
TECHSPEC® VIS-NIR Coated Double-Convex (DCX) Lenses, also referred to as bi-convex lenses, have two positive, symmetrical faces with equal radii on both sides. These lenses are generally recommended for finite imaging applications with a conjugate ratio (ratio between object distance and image distance) 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



N-BK7

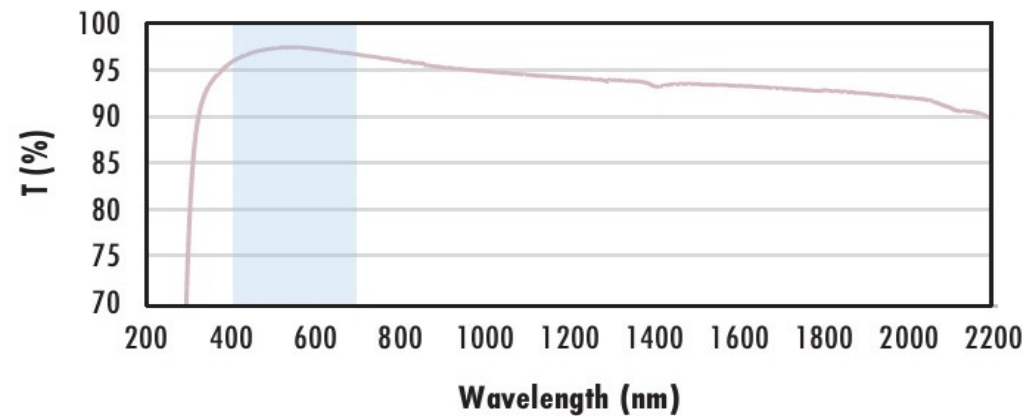
Uncoated N-BK7 Typical Transmission



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.

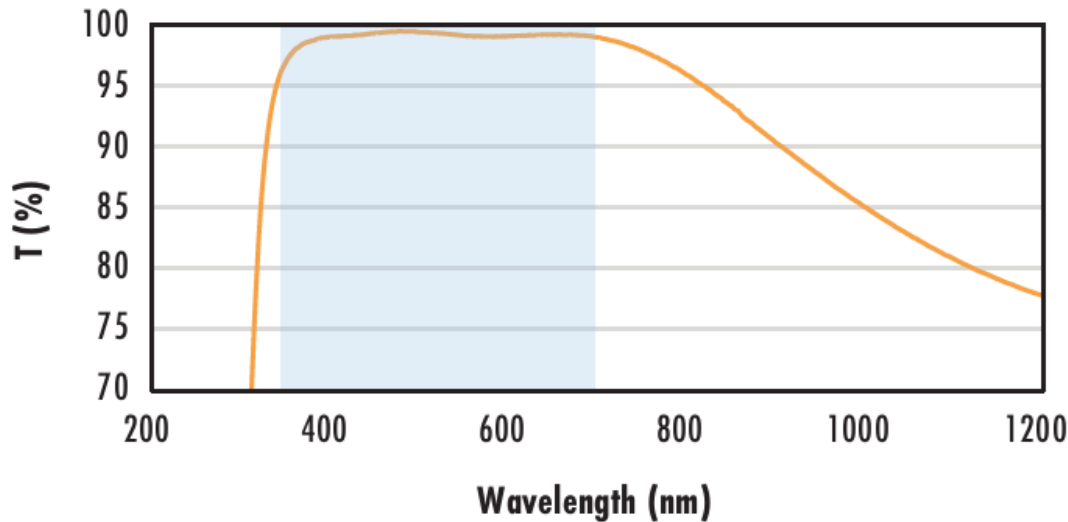
The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{avg} \leq 1.75\%$  @ 400 - 700nm (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.

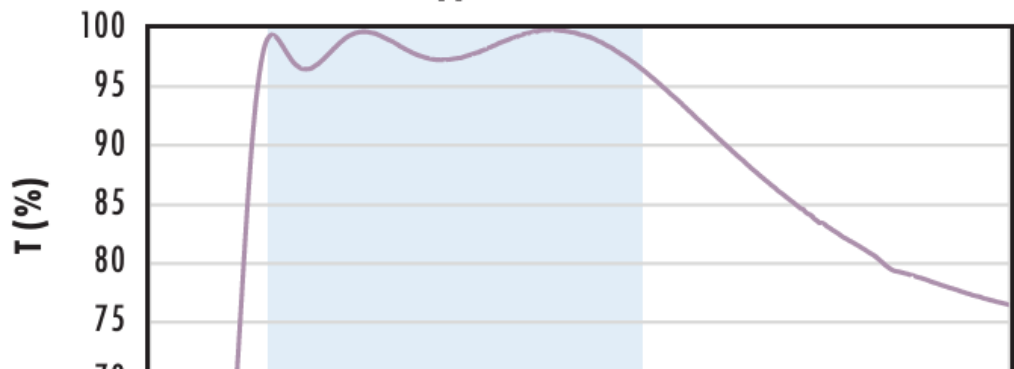
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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:

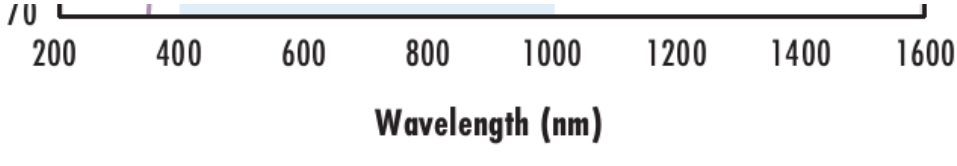
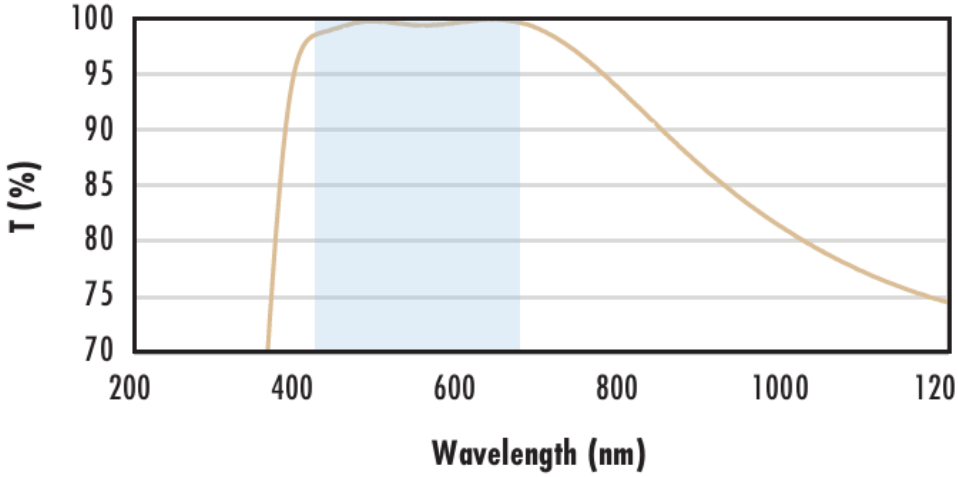
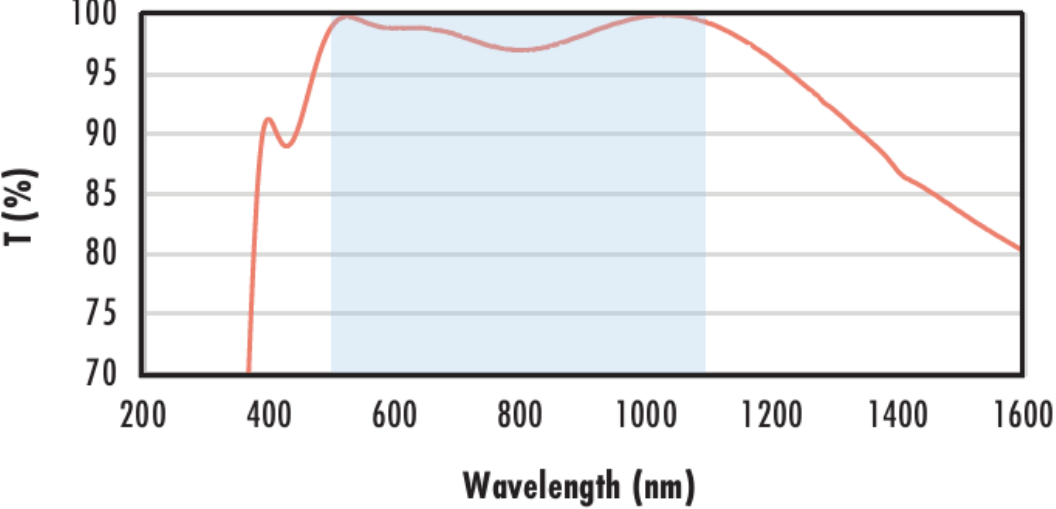
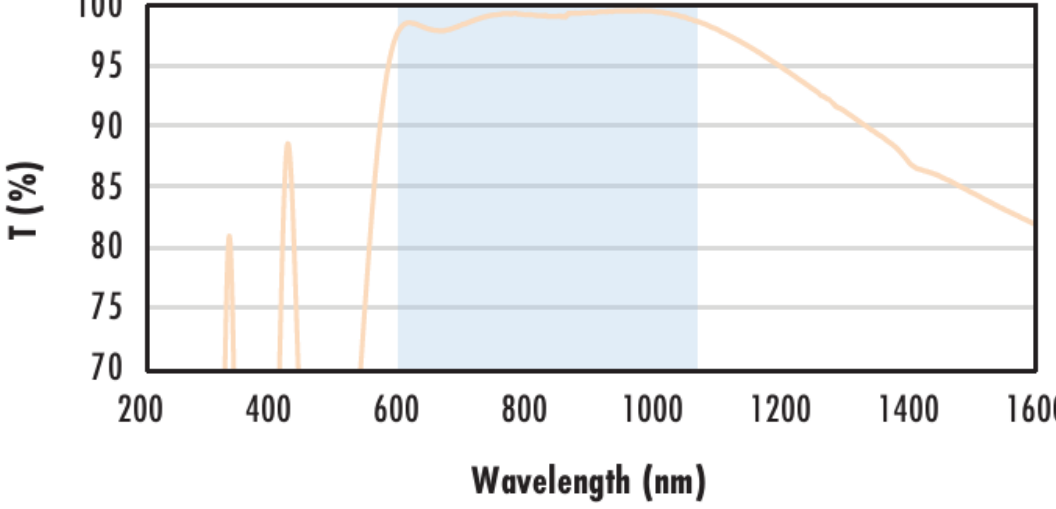
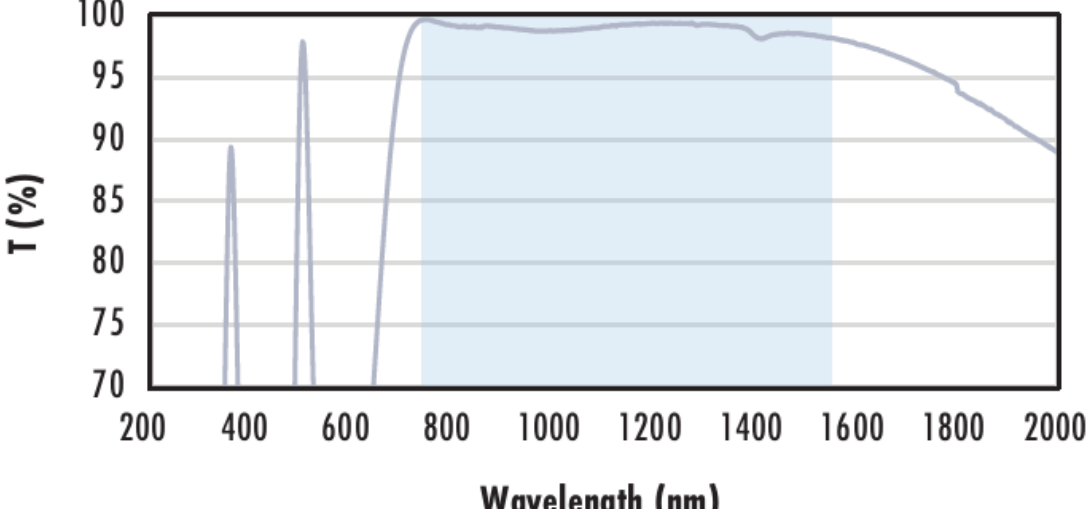
$R_{abs} \leq 0.25\%$  @ 880nm

$R_{avg} \leq 1.25\%$  @ 400 - 870nm

$R_{avg} \leq 1.25\%$  @ 890 - 1000nm

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

[Click Here to Download Data](#)

|                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <p data-bbox="596 255 974 344"><b>N-BK7 with VIS 0° Coating</b><br/><b>Typical Transmission</b></p>       | <p data-bbox="1339 388 1843 439">Typical transmission of a 3mm thick N-BK7 window with VIS 0° (425-675nm) coating at 0° AOI.</p> <p data-bbox="1339 454 1850 498">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1478 513 1711 537"><math>R_{avg} \leq 0.4\% @ 425 - 675\text{nm}</math></p> <p data-bbox="1339 552 1839 602">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1474 617 1711 641"><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                                        |
| <p data-bbox="569 848 1037 937"><b>N-BK7 with YAG-BBAR Coating</b><br/><b>Typical Transmission</b></p>   | <p data-bbox="1339 982 1839 1032">Typical transmission of a 3mm thick N-BK7 window with YAG-BBAR (500-1100nm) coating at 0° AOI.</p> <p data-bbox="1339 1047 1850 1092">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1478 1107 1711 1130"><math>R_{abs} \leq 0.25\% @ 532\text{nm}</math></p> <p data-bbox="1478 1130 1711 1154"><math>R_{abs} \leq 0.25\% @ 1064\text{nm}</math></p> <p data-bbox="1478 1154 1711 1178"><math>R_{avg} \leq 1.0\% @ 500 - 1100\text{nm}</math></p> <p data-bbox="1339 1193 1839 1243">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1474 1258 1711 1282"><a href="#">Click Here to Download Data</a></p>            |
| <p data-bbox="617 1489 1010 1578"><b>N-BK7 with NIR I Coating</b><br/><b>Typical Transmission</b></p>   | <p data-bbox="1339 1644 1839 1694">Typical transmission of a 3mm thick N-BK7 window with NIR I (600 - 1050nm) coating at 0° AOI.</p> <p data-bbox="1339 1709 1850 1760">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1478 1774 1711 1798"><math>R_{avg} \leq 0.5\% @ 600 - 1050\text{nm}</math></p> <p data-bbox="1339 1813 1839 1863">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1474 1878 1711 1902"><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                           |
| <p data-bbox="606 2125 1020 2214"><b>N-BK7 with NIR II Coating</b><br/><b>Typical Transmission</b></p>  | <p data-bbox="1339 2249 1839 2300">Typical transmission of a 3mm thick N-BK7 window with NIR II (750 - 1550nm) coating at 0° AOI.</p> <p data-bbox="1339 2315 1850 2365">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1478 2380 1711 2404"><math>R_{abs} \leq 1.5\% @ 750 - 800\text{nm}</math></p> <p data-bbox="1478 2404 1711 2427"><math>R_{abs} \leq 1.0\% @ 800 - 1550\text{nm}</math></p> <p data-bbox="1478 2427 1711 2451"><math>R_{avg} \leq 0.7\% @ 750 - 1550\text{nm}</math></p> <p data-bbox="1339 2484 1839 2534">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1474 2549 1711 2573"><a href="#">Click Here to Download Data</a></p> |

Coating Curves

Compatible Mounts

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