

TECHSPEC<sup>®</sup> 10mm Dia. x 30mm FL, VIS-NIR Inked, Double-Convex Lens



Stock **#63-667-INK** [CONTACT US](#)

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1

+

₹4,905

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General

Type:  
Double-Convex Lens

Physical & Mechanical Properties

Diameter (mm):  
10.00 ±0.025

|                                                                                                                     |                                                       |
|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| <1                                                                                                                  | Centering (arcmin):                                   |
| Protective as needed                                                                                                | Bevel:                                                |
| 2.50                                                                                                                | Center Thickness CT (mm):                             |
| ±0.05                                                                                                               | Center Thickness Tolerance (mm):                      |
| 1.68                                                                                                                | Edge Thickness ET (mm):                               |
| 9.00                                                                                                                | Clear Aperture CA (mm):                               |
| Optical Properties                                                                                                  |                                                       |
| 29.17                                                                                                               | Back Focal Length BFL (mm):                           |
| 30.00                                                                                                               | 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:                                      |
| 1.5λ                                                                                                                | Power (P-V) @ 632.8nm:                                |
| λ/4                                                                                                                 | Irregularity (P-V) @ 632.8nm:                         |
| 30.58                                                                                                               | Radius R <sub>1</sub> =R <sub>2</sub> (mm):           |
| 3.00                                                                                                                | f/#:                                                  |
| 587.6                                                                                                               | Focal Length Specification Wavelength (nm):           |
| ±1                                                                                                                  | Focal Length Tolerance (%):                           |
| 0.17                                                                                                                | Numerical Aperture NA:                                |
| 400 - 1000                                                                                                          | Wavelength Range (nm):                                |
| 5 J/cm <sup>2</sup> @ 532nm, 10ns                                                                                   | Damage Threshold, By Design: <input type="checkbox"/> |
| Regulatory Compliance                                                                                               |                                                       |
| View                                                                                                                | Certificate of Conformance:                           |
| Japan                                                                                                               | Country of Origin:                                    |
| Edmund Optics India Private Limited                                                                                 | Imported By:                                          |

## 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.

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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 (350-700nm) coating at 0° AOI.

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

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

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:

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

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

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

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 MS 0° (425-675nm) coating at 0° AOI.

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

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

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:

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

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:

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

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:

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

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

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## Compatible Mounts

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