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TECHSPEC® 5mm Dia. x 15mm FL, VIS-EXT, Inked Double-Convex Lens



Stock **#89-126-INK** [CONTACT US](#)

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⊖ 1 ⊕ **A\$112^{.80}**

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| Volume Pricing | |
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| Qty 1-9 | A\$112.80 each |
| Qty 10-24 | A\$101.60 each |
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General

Double-Convex Lens **Type:**

Physical & Mechanical Properties

5.00 ±0.025 **Diameter (mm):**

| | |
|--------------------------------------|---|
| <3 | Centering (arcmin): |
| Protective as needed | Bevel: |
| 2.00 | Center Thickness CT (mm): |
| ±0.05 | Center Thickness Tolerance (mm): |
| 1.58 | Edge Thickness ET (mm): |
| 4.50 | Clear Aperture CA (mm): |
| Optical Properties | |
| 14.33 | Back Focal Length BFL (mm): |
| 15.00 | Effective Focal Length EFL (mm): |
| VIS-EXT (350-700nm) | Coating: |
| R _{avg} <0.5% @ 350 - 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: |
| 15.16 | Radius R ₁ =R ₂ (mm): |
| 3.00 | f#: |
| 587.6 | Focal Length Specification Wavelength (nm): |
| ±1 | Focal Length Tolerance (%): |
| 0.17 | Numerical Aperture NA: |
| 350 - 700 | Wavelength Range (nm): |

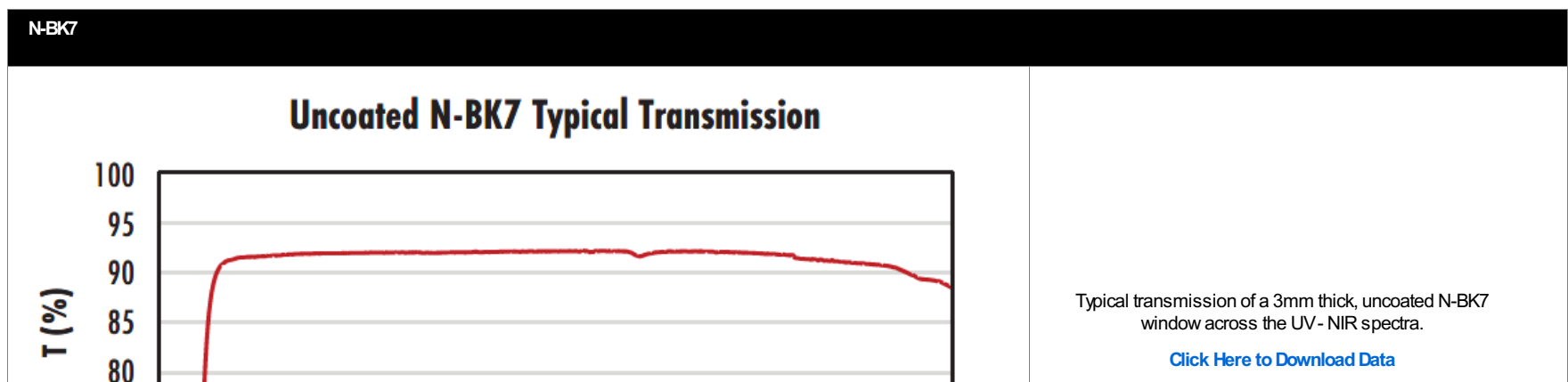
| | |
|------------------------------|-----------------------------|
| Regulatory Compliance | |
| View | Certificate of Conformance: |

Product Details

- AR Coated to Provide <0.5% Reflectance per Surface for 350 - 700nm
- Minimize Aberrations Including Spherical and Coma
- [UV Fused Silica DCX Lenses](#) Available
- Other Coating Options Available: [Uncoated](#), [MgF₂](#), [VIS 0°](#), [NIR I](#), [NIR II](#), [VIS-NIR](#), and [YAG-BBAR](#)

TECHSPEC® VIS-EXT 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-EXT Coated Double-Convex Lenses are available in a variety of substrates and coating options for the visible and NIR spectra.

Technical Information





**N-BK7 with MgF₂ Coating
Typical Transmission**



Typical transmission of a 3mm thick N-BK7 window with MgF₂ (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.

[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:

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

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.

[Click Here to Download Data](#)

**N-BK7 with VIS 0° Coating
Typical Transmission**



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:

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

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

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**N-BK7 with YAG-BBAR Coating
Typical Transmission**



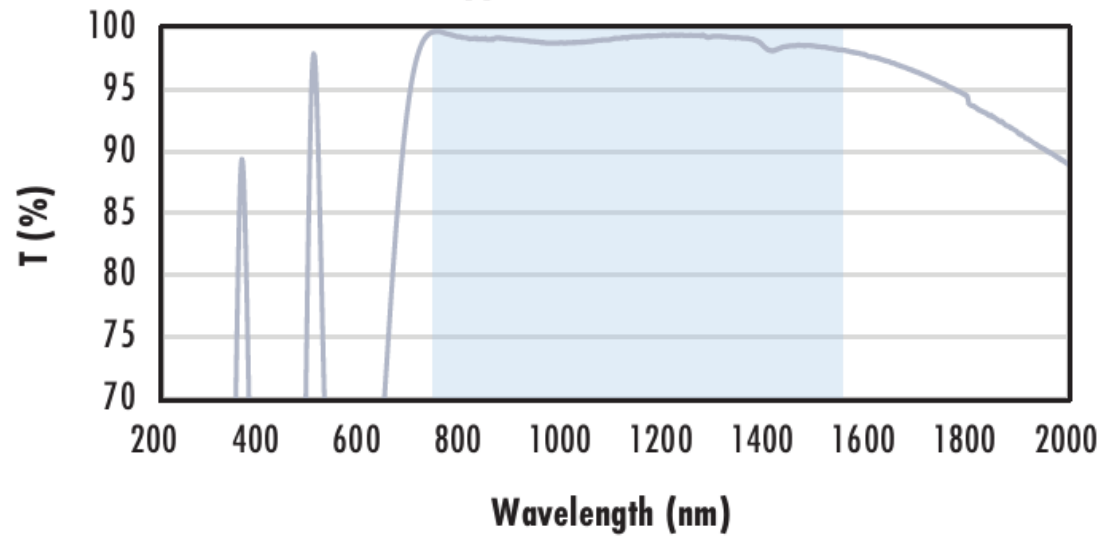
Typical transmission of a 3mm thick N-BK7 window with YAG-BBAR (500-1100nm) coating at 0° AOI.



**N-BK7 with NIR I Coating
Typical Transmission**



**N-BK7 with NIR II Coating
Typical Transmission**



Compatible Mounts