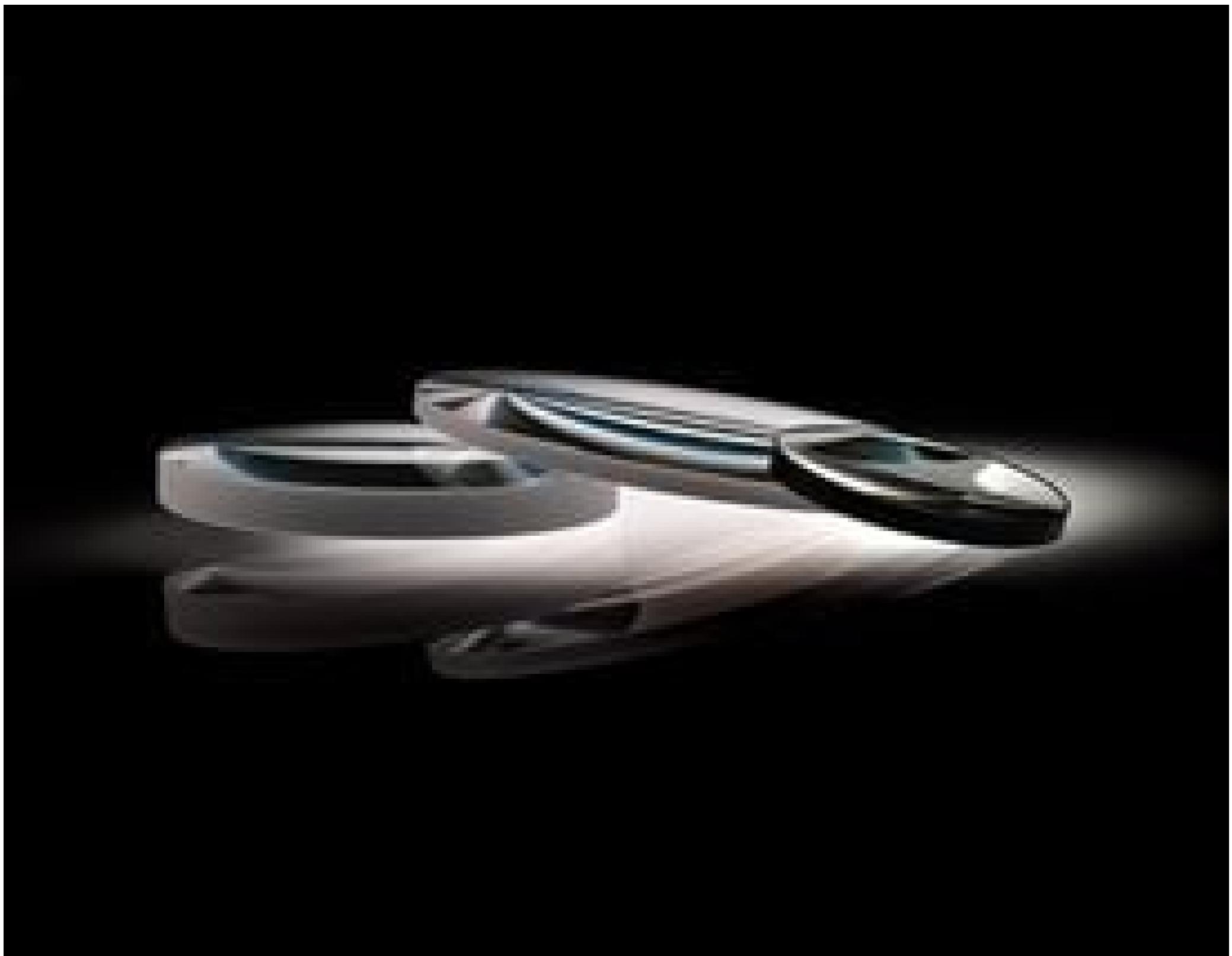


TECHSPEC® 30mm Dia x 60mm FL, VIS-EXT, Inked, Double-Convex LensStock #89-189-INK [CONTACT US](#) [Other Coating Options](#)[-](#) [+](#) A\$123²⁰**ADD TO CART**

Volume Pricing	
Qty 1-9	A\$123.20 each
Qty 10-24	A\$111.20 each
Qty 25-99	A\$98.40 each
Need More?	Request Quote

Product Downloads

SPECIFICATIONS**General**

Type:

Physical & Mechanical Properties

	Diameter (mm):
30.00 ±0.025	
	Centering (arcmin):
<1	
	Bevel:
Protective as needed	
	Center Thickness CT (mm):
5.00	
	Center Thickness Tolerance (mm):
±0.10	
	Edge Thickness ET (mm):
1.26	
	Clear Aperture CA (mm):
29.00	

Optical Properties

	Back Focal Length BFL (mm):
58.33	
	Effective Focal Length EFL (mm):
60.00	
	Coating:
VIS-EXT (350-700nm)	
	Coating Specification:
$R_{avg} < 0.5\% @ 350 - 700\text{nm}$	
	Substrate: <input type="checkbox"/>
N-BK7	
	Surface Quality:
40-20	
	Power (P-V) @ 632.8nm:
1.5λ	
	Irregularity (P-V) @ 632.8nm:
λ/4	
	Radius $R_1=R_2$ (mm):
61.15	
	f#:
2.00	
	Focal Length Specification Wavelength (nm):
587.6	
	Focal Length Tolerance (%):
±1	
	Numerical Aperture NA:
0.25	
	Wavelength Range (nm):
350 - 700	

Regulatory Compliance

	Certificate of Conformance:
View	

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.

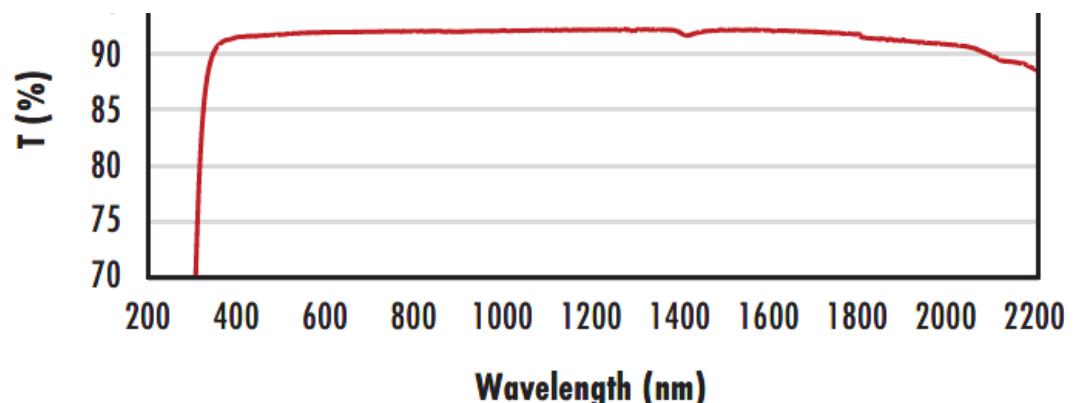
TECHNICAL INFORMATION

N-BK7

Uncoated N-BK7 Typical Transmission

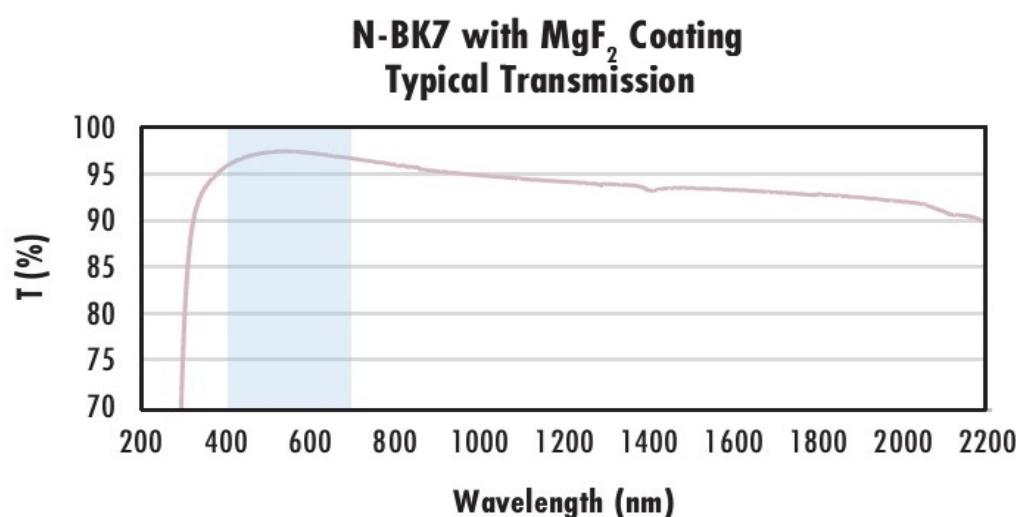
100

95



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

[Click Here to Download Data](#)



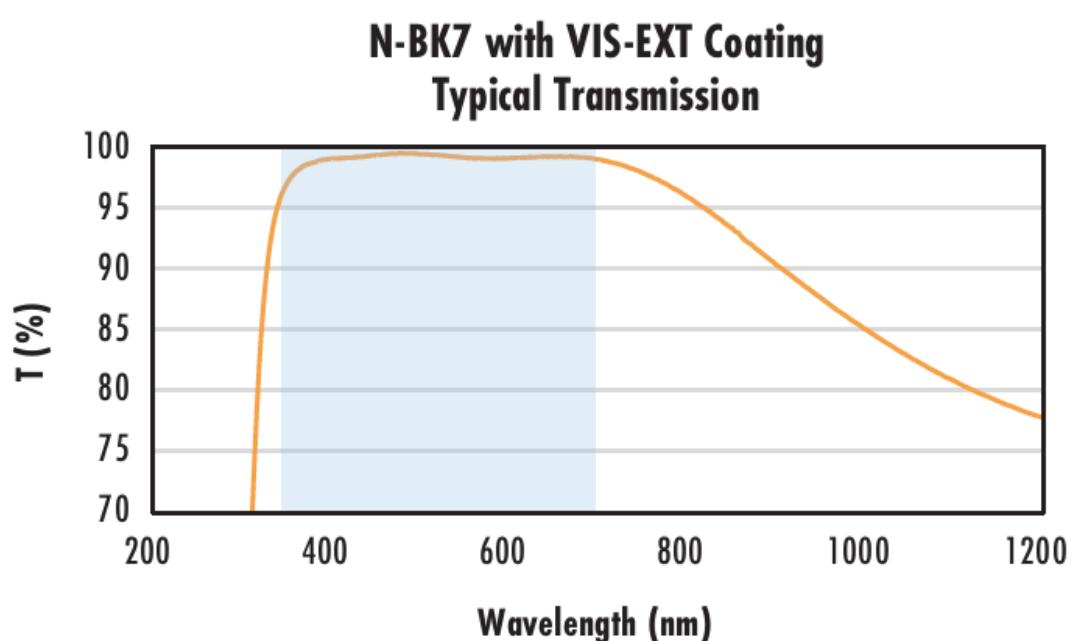
Typical transmission of a 3mm thick N-BK7 window with MgF_2 (400-700nm) coating at 0° AOI.

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

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

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

[Click Here to Download Data](#)



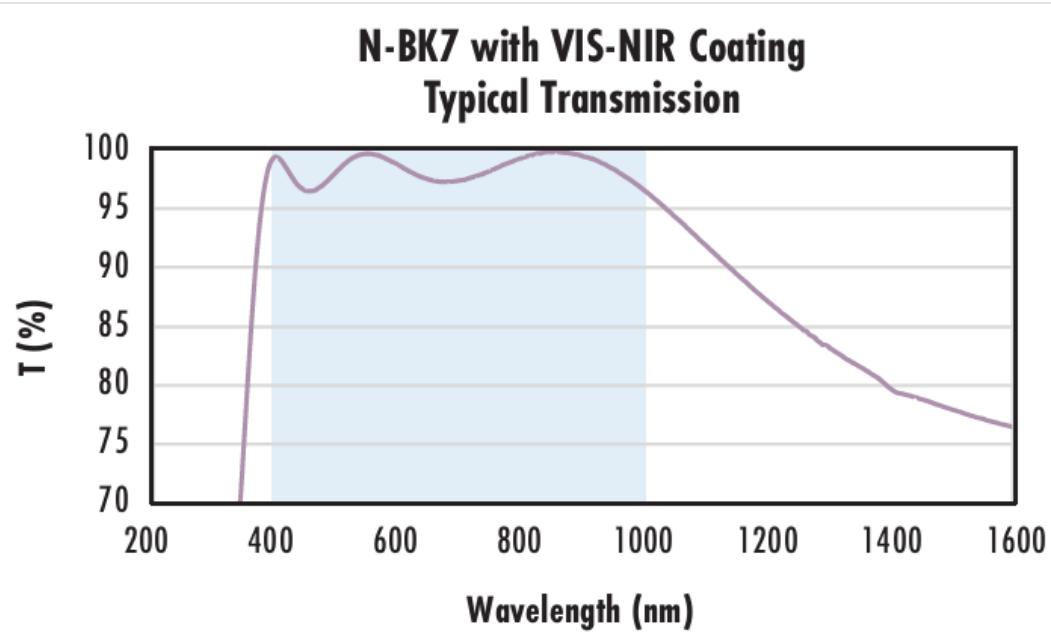
Typical transmission of a 3mm thick N-BK7 window with VIS-EXT (350-700nm) coating at 0° AOI.

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

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

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-NIR (400-1000nm) coating at 0° AOI.

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

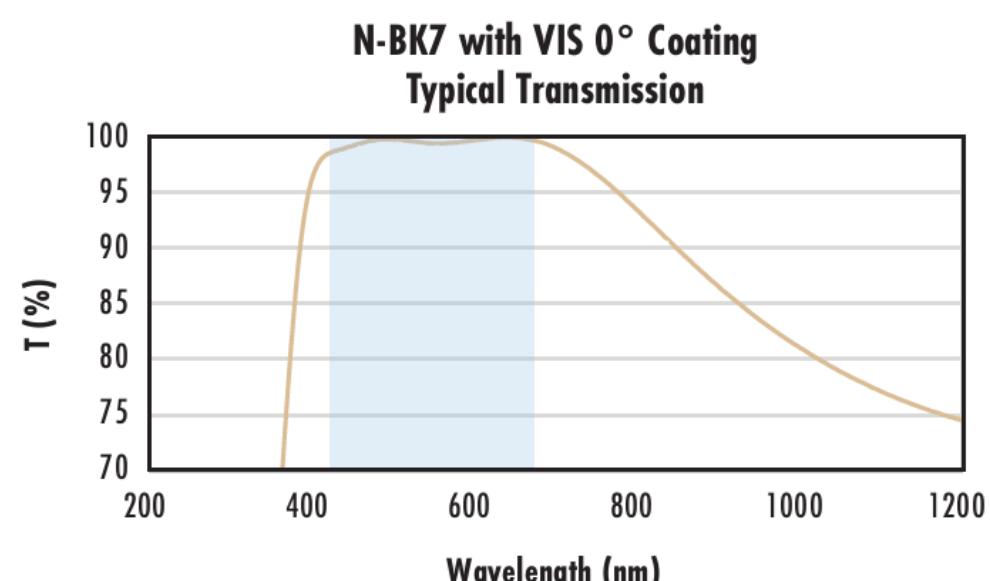
$$R_{\text{abs}} \leq 0.25\% \text{ @ 880nm}$$

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

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

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.

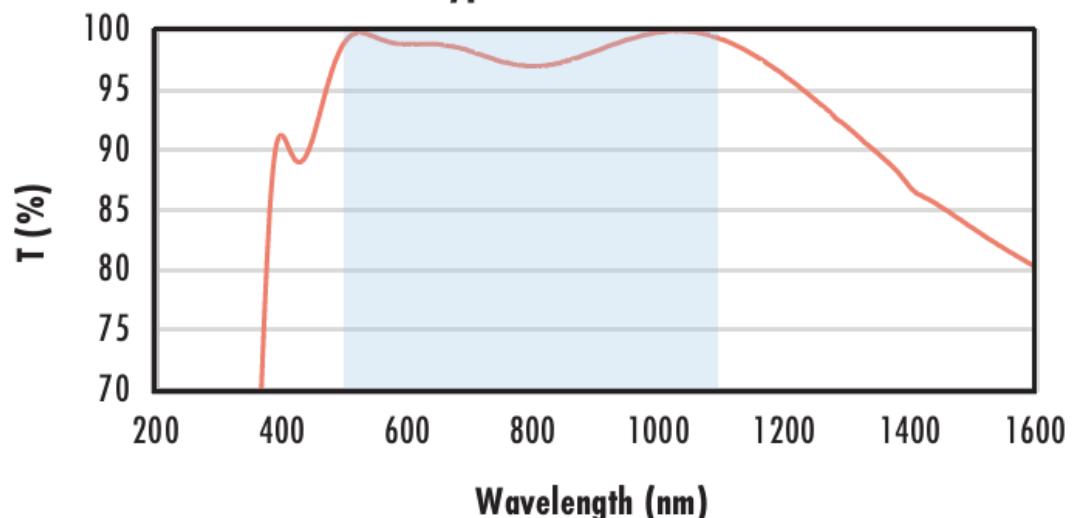
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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.

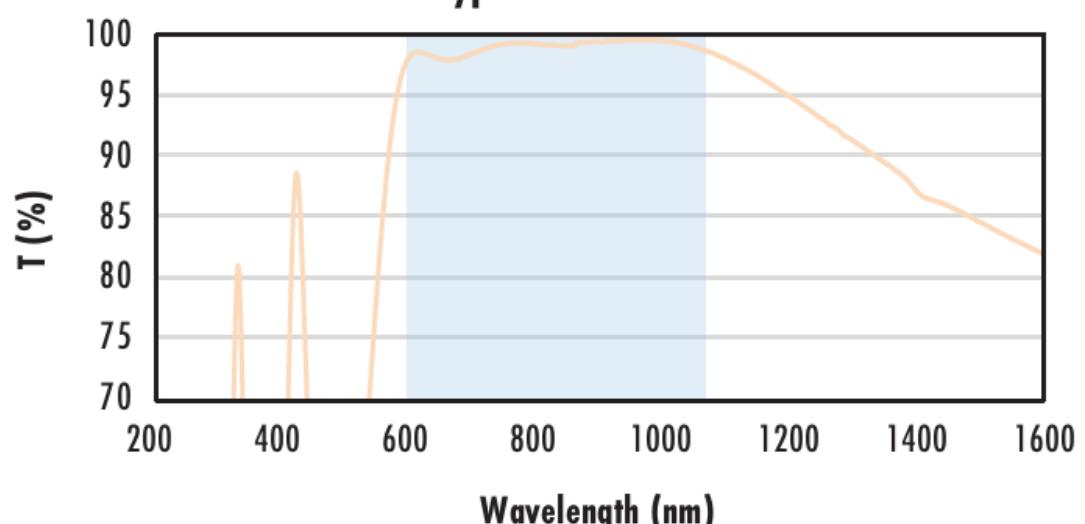
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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

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N-BK7 with NIR I Coating Typical Transmission



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

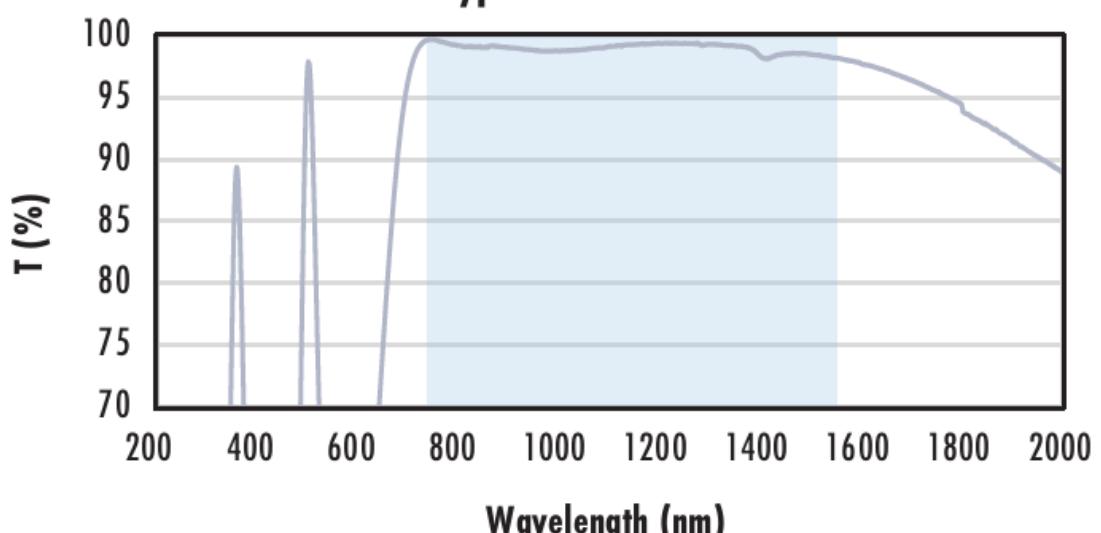
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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

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N-BK7 with NIR II Coating Typical Transmission



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:

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

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

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COMPATIBLE MOUNTS