

TECHSPEC[®] 25.0mm Dia. x 75.0mm FL, VIS-NIR Coated, Plano-Convex Lens



Stock **#45-510** 20+ In Stock

☐ Other Coating Options

-

1

+

€50^{.47}

ADD TO CART

Volume Pricing	
Qty 1-9	€50,47 each
Qty 10-24	€45,32 each
Qty 25-49	€40,43 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Plano-Convex Lens	Type:
Physical & Mechanical Properties	
25.00 +0.0/-0.025	Diameter (mm):
<1	Centering (arcmin):
4.50 ±0.10	Center Thickness CT (mm):
2.43	Edge Thickness ET (mm):
24	Clear Aperture CA (mm):
Protective as needed	Bevel:
Optical Properties	
75.00 @ 587.6nm	Effective Focal Length EFL (mm):
72.00	Back Focal Length BFL (mm):
VIS-NIR (400-1000nm)	Coating:
R _{abs} ≤0.25% @ 880nm R _{avg} ≤1.25% @ 400 - 870nm R _{avg} ≤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:
±1	Focal Length Tolerance (%):
38.76	Radius R ₁ (mm):
3.00	f/#:
0.17	Numerical Aperture NA:
400 - 1000	Wavelength Range (nm):
5 J/cm ² @ 532nm, 10ns	Damage Threshold, By Design: ☐
Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 235:

PRODUCT DETAILS

- AR Coated to Provide <1.25% Reflectance per Surface for 400 - 1000nm
 - <0.25% Reflectance @ 880nm
 - Designed for 0° Angle of Incidence
 - Various PCX Coating Options: [Uncoated](#), [MgF₂](#), [VIS 0°](#), [NIR I](#), [NIR II](#), [VIS-EXT](#), and [YAG-BBAR](#)
- TECHSPEC® VIS-NIR Coated Plano-Convex (PCX) Lenses have a positive focal length, making them ideal for collecting and focusing light in imaging applications. They are also useful in a variety of applications involving emitters, detectors, lasers, and fiber optics. Plano-Convex lenses are ideal for a multitude of optics and photonics applications, including biotech instruments such as DNA sequencers and polymerase chain reaction (PCR) testing platforms. TECHSPEC® VIS-NIR Coated Plano-Convex (PCX) Lenses are available in a wide variety of diameters and focal lengths. Identical designs of these PCX lenses are also offered [uncoated](#) or with broadband anti-reflective (BBAR) coatings, which include [MgF₂](#), [VIS 0°](#), [NIR I](#), [NIR II](#), [VIS-EXT](#), and [YAG-BBAR](#).
- These coated lenses are optimized for a wide range of optics and photonics applications, including biotech instruments such as DNA sequencers and polymerase chain reaction (PCR) testing platforms.

TECHNICAL INFORMATION

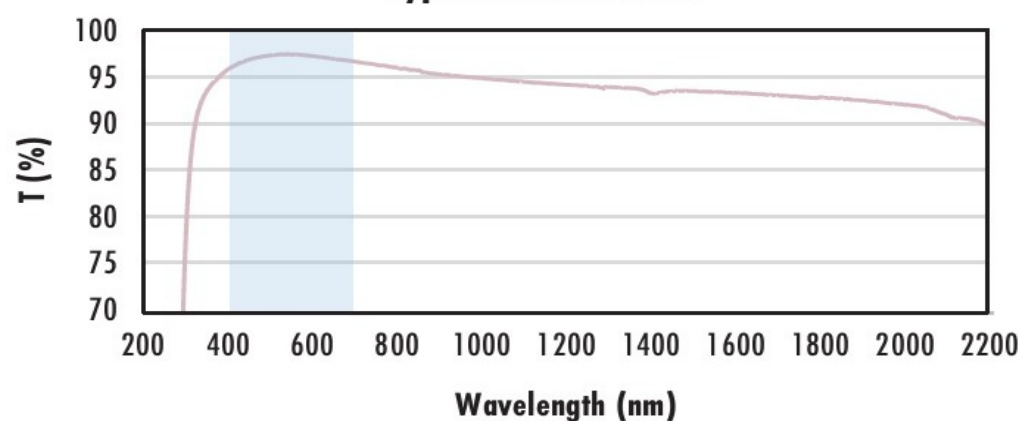


N-BK7

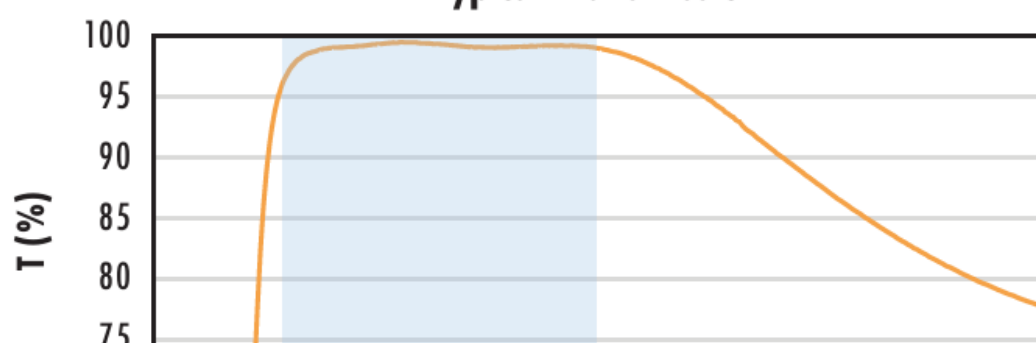
Uncoated N-BK7 Typical Transmission



N-BK7 with MgF_2 Coating Typical Transmission



N-BK7 with VIS-EXT Coating Typical Transmission





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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:

$R_{abs} \leq 0.25\% \text{ @ } 880\text{nm}$
 $R_{avg} \leq 1.25\% \text{ @ } 400 - 870\text{nm}$
 $R_{avg} \leq 1.25\% \text{ @ } 890 - 1000\text{nm}$

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

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**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:

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

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

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

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

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



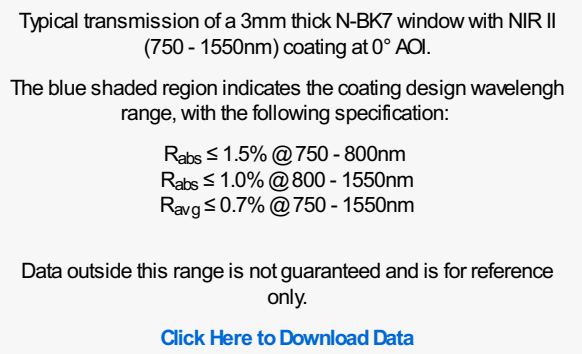
Typical transmission of a 3mm thick N-BK7 window with NIR I (600 - 1050nm) coating at 0° AOI.
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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

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



CUSTOM

Our capabilities include:

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COMPATIBLE MOUNTS