TECHSPEC®

30.0mm Dia. x 40.0mm FL, VIS-NIR Coated, Plano-Convex Lens

Stock #67-184 20+ In Stock

Other Coating Options

- 1 +

C$88.20

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Volume Pricing	
Qty 1-9	C$88.20 each
Qty 10-24	C$79.10 each
Qty 25-49	C$70.70 each
Need More?	Request Quote

Product Downloads

STEP:stp | PDF Drawing:pdf | ISO 10110 Drawing | IGES:igs | Zemax:zar | Zemax:zmx | eDrawing:eprt | Code V:seq | EO Spec Sheet

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General

Type:	Plano-Convex Lens

Physical & Mechanical Properties

Diameter (mm):	30.00 +0.0/-0.025	**Centering (arcmin):**	<1
Center Thickness CT (mm):	5.00 ±0.10	**Edge Thickness ET (mm):**	1.18
Clear Aperture CA (mm):	29	**Bevel:**	Protective as needed

Optical Properties

Effective Focal Length EFL (mm):	40.00 @ 587.6nm	**Back Focal Length BFL (mm):**	37.20
Coating:	VIS-NIR (400-1000nm)	**Coating Specification:**	R_{abs} ≤0.25% @ 880nm R_{avg} ≤1.25% @ 400 - 870nm R_{avg} ≤1.25% @ 890 - 1000nm
Substrate: ⓘ	N-SF11	**Surface Quality:**	40-20
Power (P-V) @ 632.8nm:	1.5λ	**Irregularity (P-V) @ 632.8nm:**	λ/4
Focal Length Tolerance (%):	±1	**Radius R_1 (mm):**	31.39
f/#:	1.33	**Numerical Aperture NA:**	0.38

Wavelength Range (nm):	400 - 1000	**Damage Threshold, By Design:** ⓘ	5 J/cm^2 @ 532nm, 10ns

Regulatory Compliance

RoHS 2015:	**Compliant**	**Reach 219:**	**Compliant**
Certificate of Conformance:	**View**		

Need different specs or modifications?

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.**

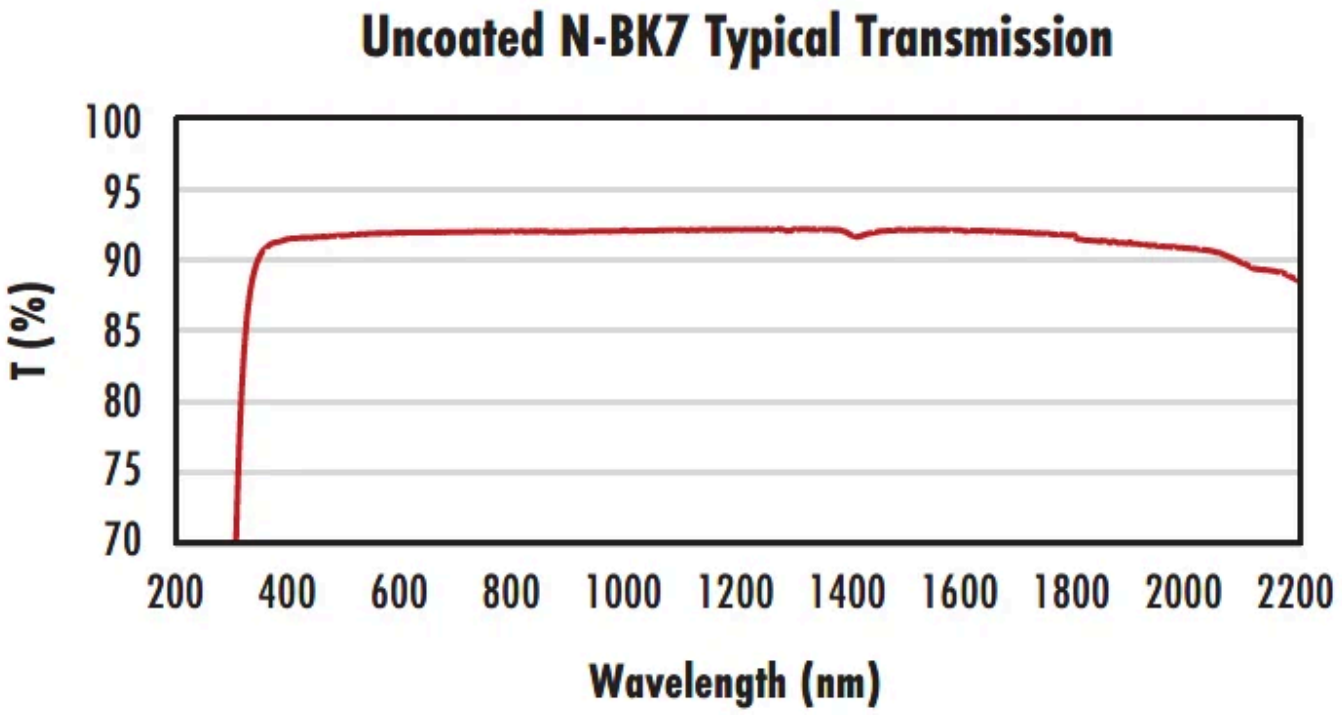
Product Details

- AR Coated to Provide <1.25% Reflectance per Surface for 400 - 1000nm
- <0.25% Reflectance @ 880nm
- Designed for 0° Angle of Incidence
- Various PCX Coating Options: **Uncoated**, **MgF_2**, **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



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

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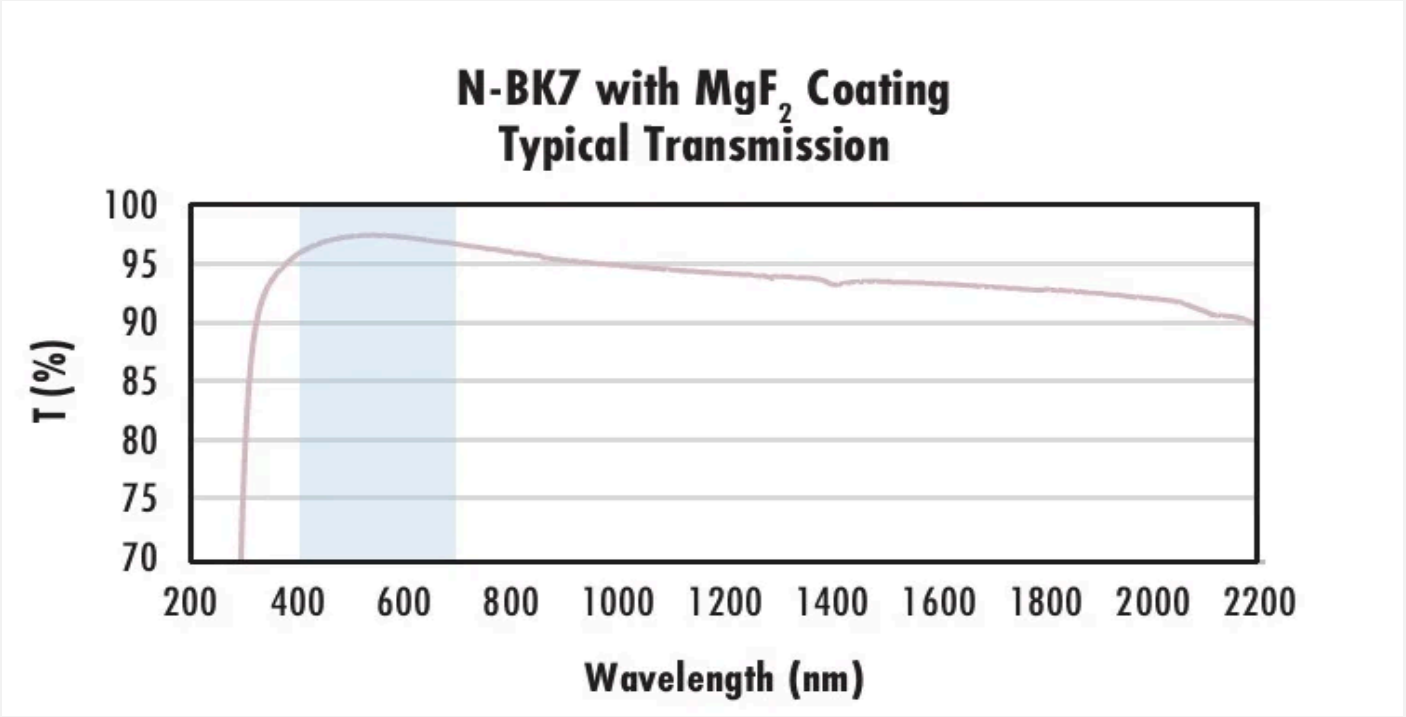

Typical transmission of a 3mm thick N-BK7 window w MgF2 (400-700nm) coating at 0° AOI.

The blue shaded region indicates the coating desig wavelengh range, with the following specification:

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

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

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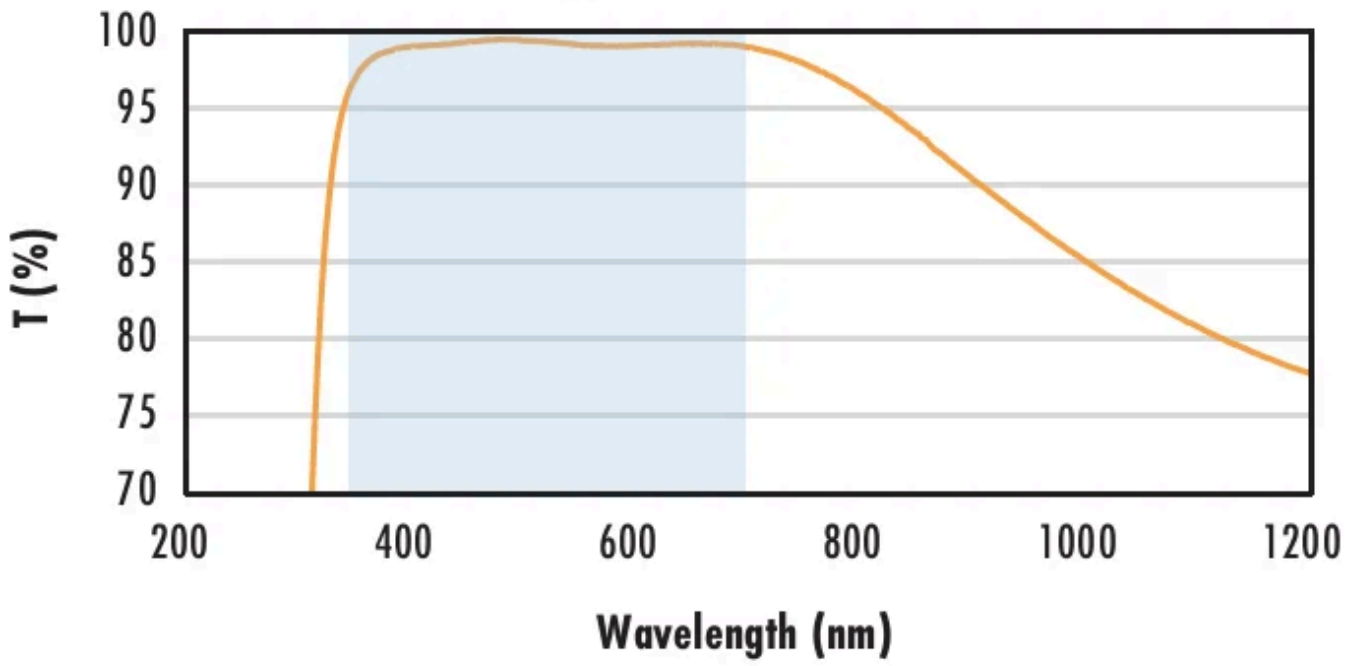

Typical transmission of a 3mm thick N-BK7 window w VIS-EXT (350-700nm) coating at 0° AOI.

The blue shaded region indicates the coating desig wavelengh range, with the following specification:

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

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

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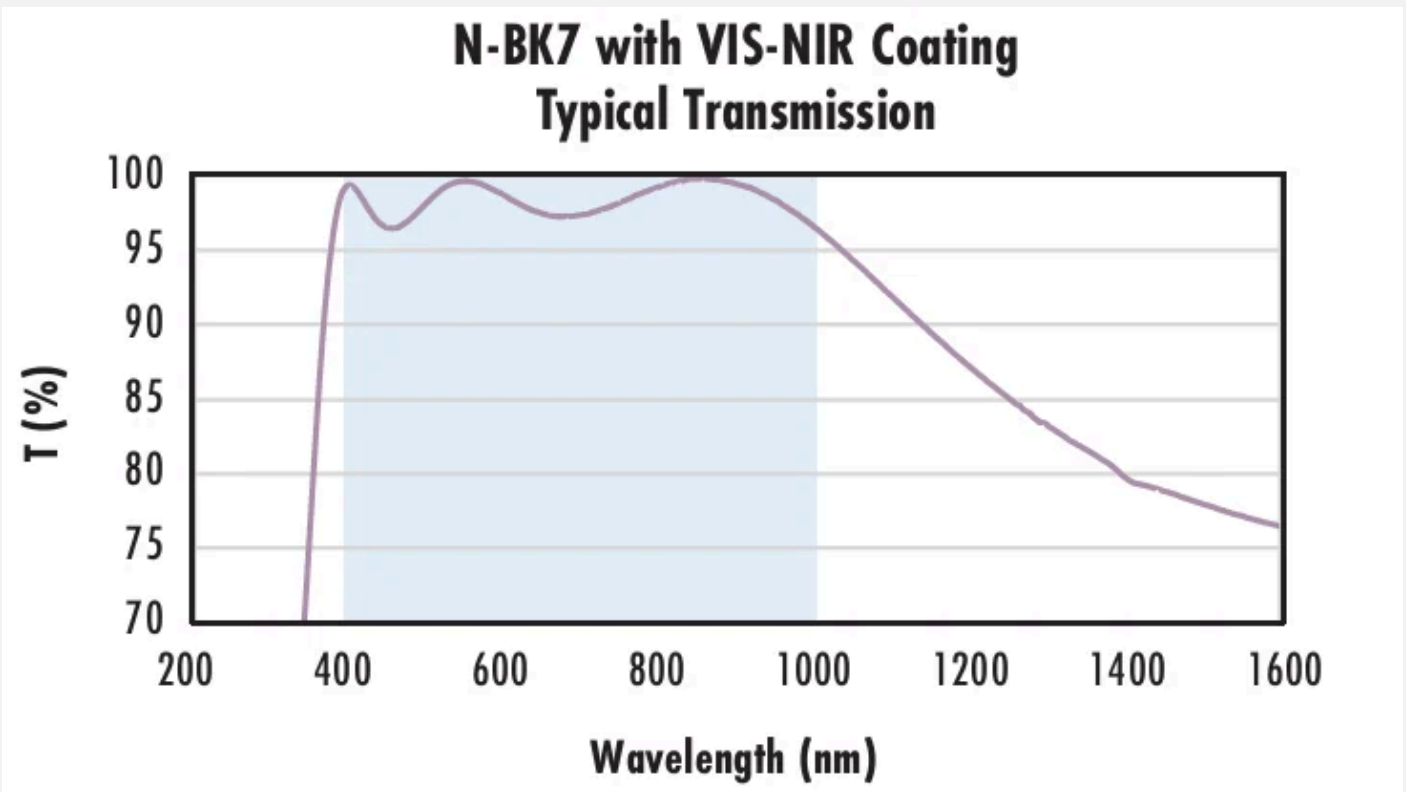

Typical transmission of a 3mm thick N-BK7 window w VIS-NIR (400-1000nm) coating at 0° AOI.

The blue shaded region indicates the coating desig wavelengh 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 fo reference only.

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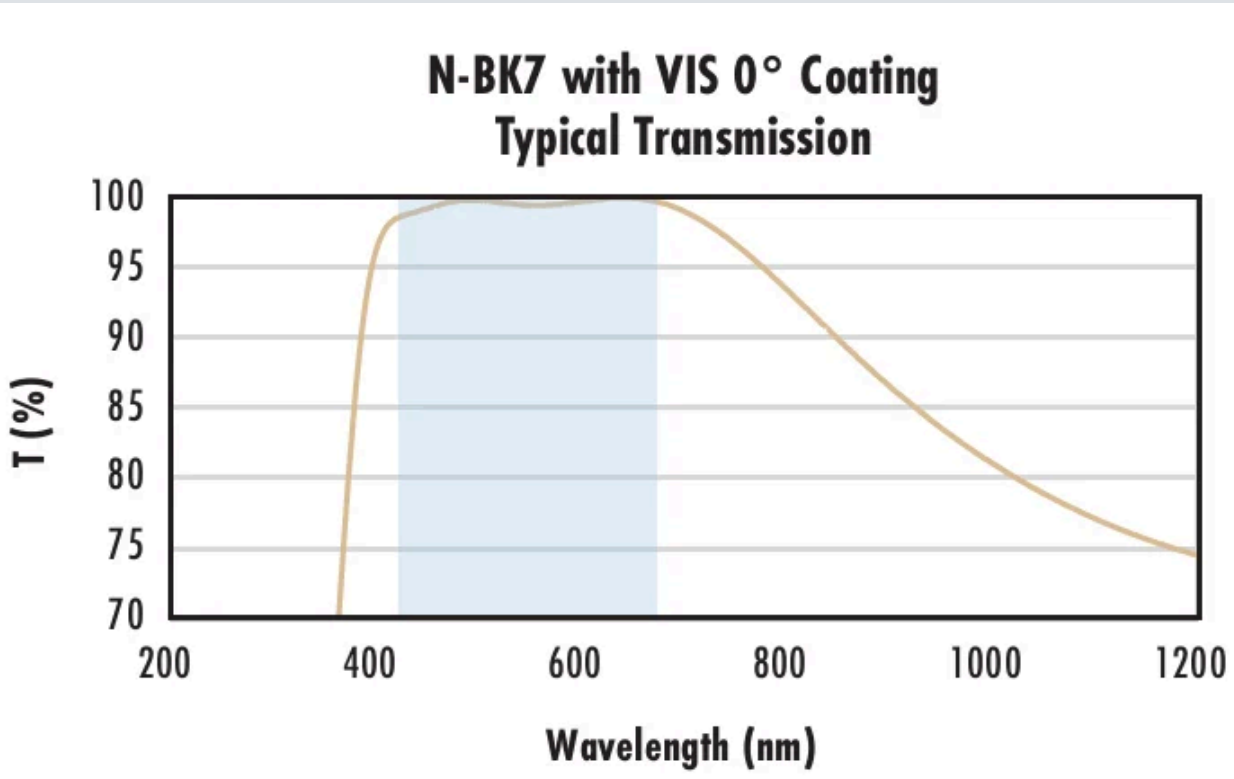

Typical transmission of a 3mm thick N-BK7 window wit 0° (425-675nm) coating at 0° AOI.

The blue shaded region indicates the coating desig wavelengh range, with the following specification:

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

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

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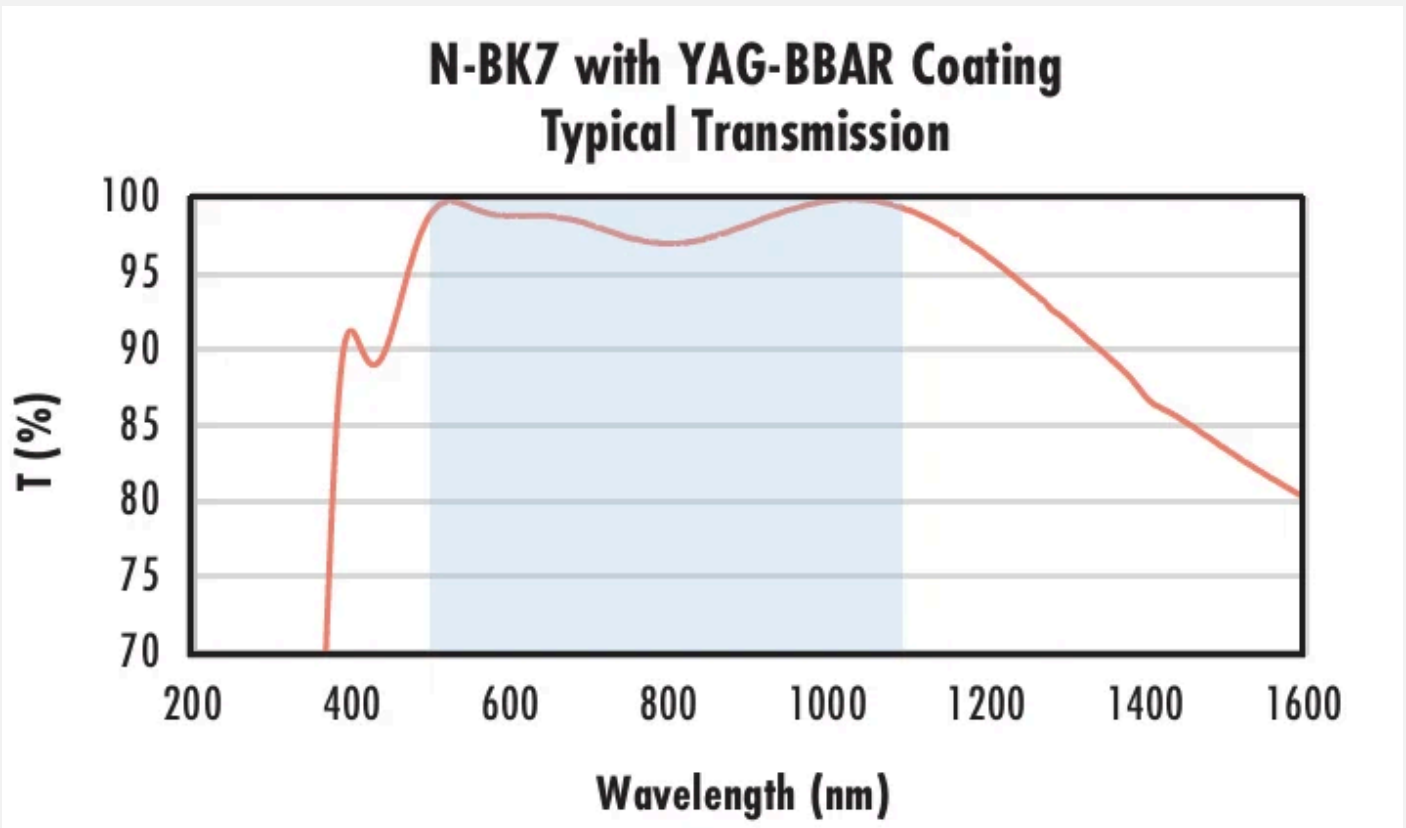

Typical transmission of a 3mm thick N-BK7 window w YAG-BBAR (500-1100nm) coating at 0° AOI.

The blue shaded region indicates the coating desig wavelengh range, with the following specification:

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

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

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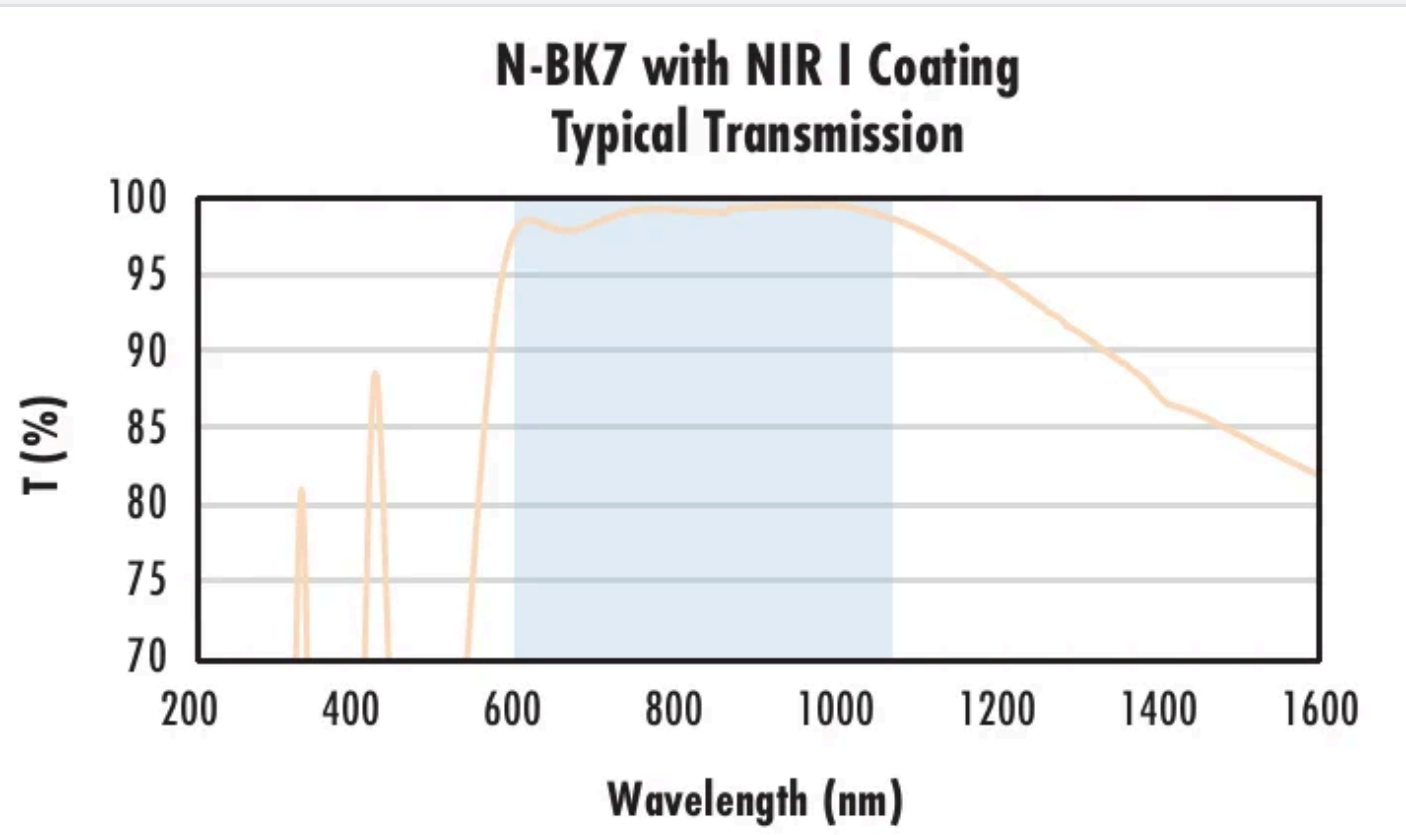

Typical transmission of a 3mm thick N-BK7 window witl I (600 - 1050nm) coating at 0° AOI.

The blue shaded region indicates the coating desig wavelengh range, with the following specification:

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

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

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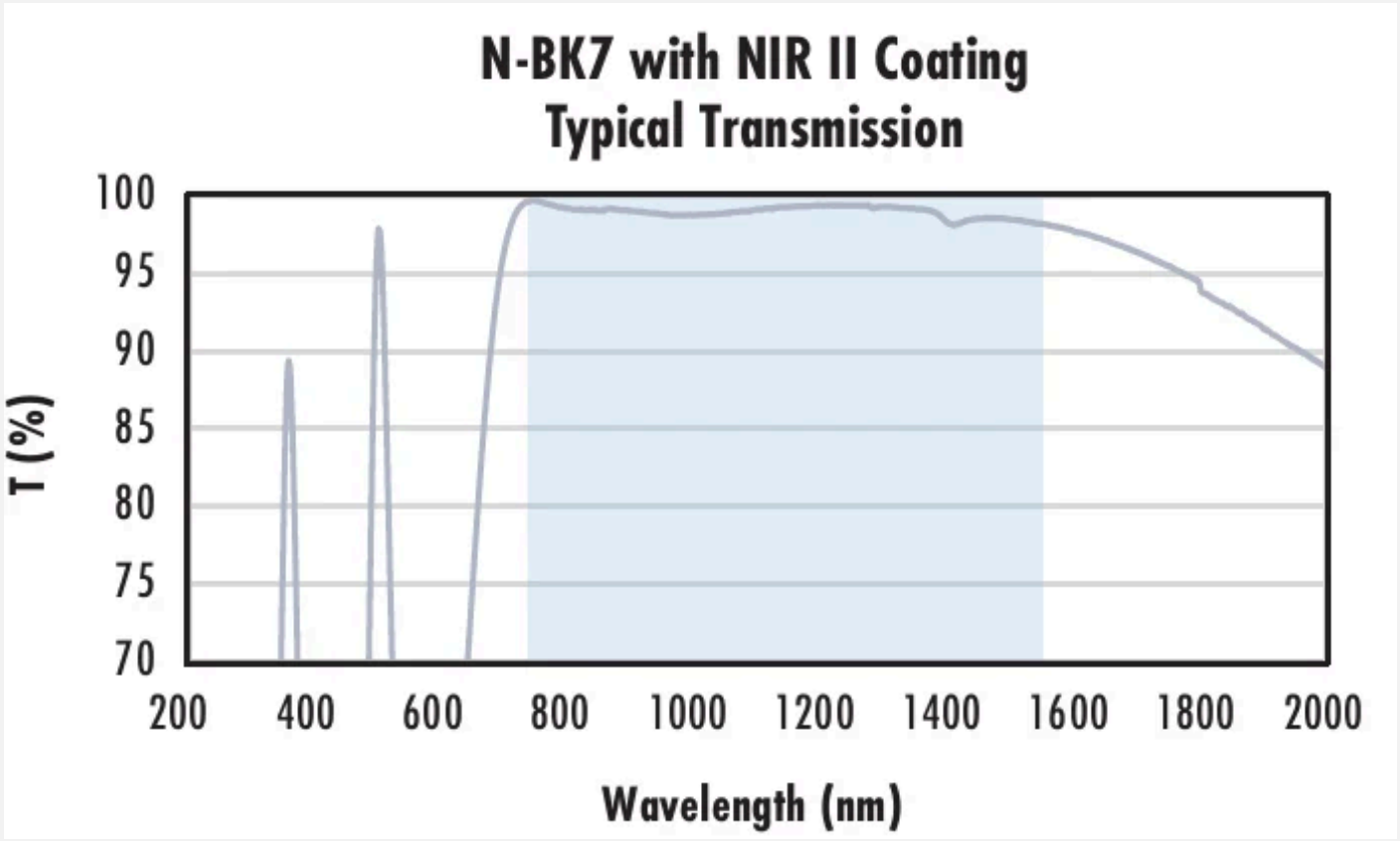

Typical transmission of a 3mm thick N-BK7 window witl
II (750 - 1550nm) coating at 0° AOI.

The blue shaded region indicates the coating desig
wavelengh range, with the following specification:

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

Data outside this range is not guaranteed and is fo
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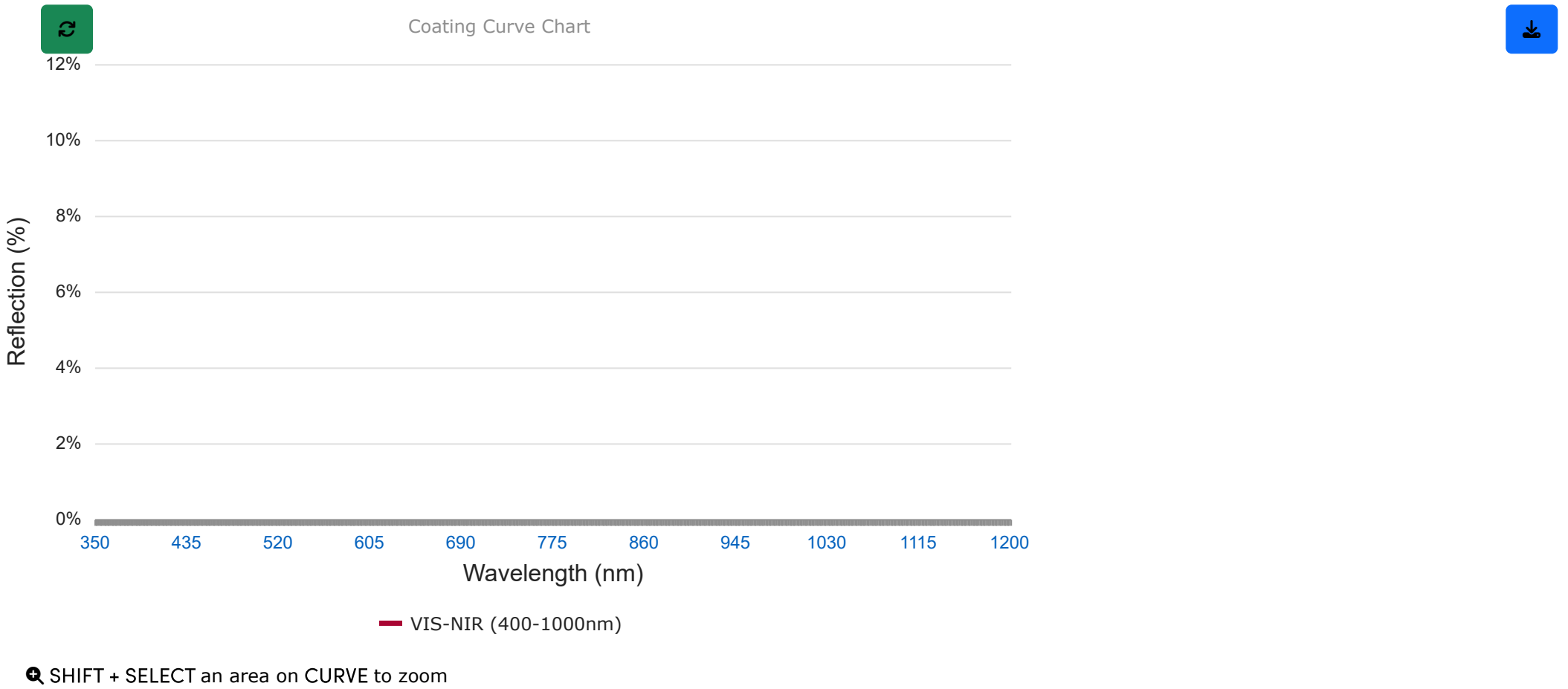
Coating Curves

VIS-NIR (400-1000nm)



Please note that coating performance outside each product's specified design range is theoretical and may vary.

Related Products

Prematex® Cleaning/Wiping Cloths

VIS-NIR Coated Achromatic Lenses

VIS-NIR Coated Double-Convex (DCX) Lenses

Uncoated Plano-Convex (PCX) Lenses

Frequently Purchased Together

#33-920 - 30mm Dia. x 40mm FL, VIS 0° Coated, Achromatic Lens
C$219.80
Qty

#33-923 - 30mm Dia. x 40mm FL, VIS-NIR Coated, Achromatic Lens
C$232.40
Qty

#45-387 - 6.25mm, Aluminum & MgF_2 Coated, N-BK7 Right Angle Prism
C$106.40
Qty

#47-389 - 30.0mm Dia. x 60.0mm FL, VIS-NIR Coated, Plano-Convex Lens
C$85.40
Qty

Compatible Mounts

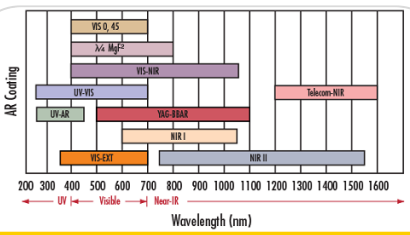
	Title	Type	Compare	Stock Number	Price	Buy
MORE+ 	30.0mm Optic Dia., Optic Mount	Fixed		#64-563	C$45.85 Request Quote	11 In Stock 1
MORE+ 	30.0mm Optic Dia., Optic Mount	Fixed		#64-564	C$45.85 Request Quote	CONTACT US 1

Check out our full selection of mounts **here**.

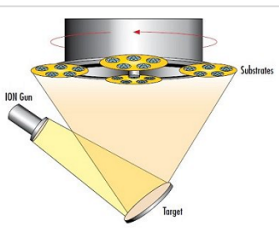
Resources

Media Type

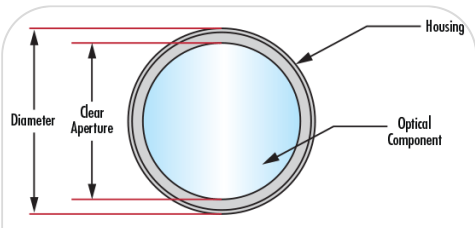
- Application Note
- Glossary
- Technical Tool
- Video
- FAQ
- Trending in Optics



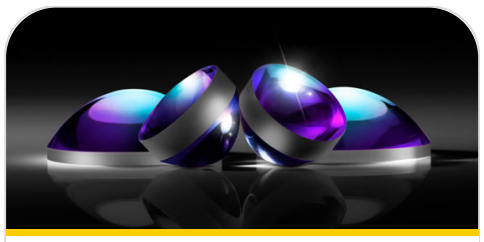
APPLICATION NOTE
Anti-Reflection (AR) Coatings



APPLICATION NOTE
An Introduction to Optical Coatings



APPLICATION NOTE
Understanding Optical Specifications



APPLICATION NOTE
Lens Geometry Performance Comparison

GLOSSARY
NIR (Near Infrared)

GLOSSARY
VIS/NIR Coating

View More

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