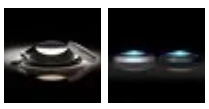
TECHSPEC®

1.0mm Dia. x 2.0mm FL, VIS 0° Coated, Plano-Convex Lens



Stock #65-276 CONTACT US Other Coating Options

- 1 +

MRP ₹8,929

Price inclusive of all taxes

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Volume Pricing	
Qty 1-9	₹8,929 each
Qty 10-24	₹8,020 each
Qty 25-49	₹7,164 each
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Product Downloads

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General

Type:	Plano-Convex Lens

Physical & Mechanical Properties

Diameter (mm):	1.00 +0.0/-0.025	**Centering (arcmin):**	30-45, typical
Center Thickness CT (mm):	0.80 ±0.05	**Edge Thickness ET (mm):**	0.72
Clear Aperture CA (mm):	0.5	**Bevel:**	Protective as needed

Optical Properties

Effective Focal Length EFL (mm):	2.00 @ 587.6nm	**Back Focal Length BFL (mm):**	1.57
Coating:	VIS 0° (425-675nm)	**Coating Specification:**	R_{avg} ≤0.4% @ 425 - 675nm
Substrate: ⓘ	N-LASF9	**Surface Quality:**	20-10
Power (P-V) @ 632.8nm:	10λ	**Irregularity (P-V) @ 632.8nm:**	2λ
Focal Length Tolerance (%):	±1	**Radius R_1 (mm):**	1.70
f/#:	2	**Numerical Aperture NA:**	0.25
Wavelength Range (nm):	425 - 675	**Damage Threshold, By Design:** ⓘ	5 J/cm^2 @ 532nm, 10ns

Regulatory Compliance

RoHS 2015:	**Compliant**	**Certificate of Conformance:**	**View**
Reach 235:	**Compliant**		
Country of Origin:	Japan	**Imported By:**	Edmund Optics India Private Limited 267, Greystone Building, Second Floor, 6th Cross Rd, Binnamangala, Stage 1, Indiranagar, Bengaluru, Karnataka, India 560038 Phone: +91-80-6845 0000

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.**

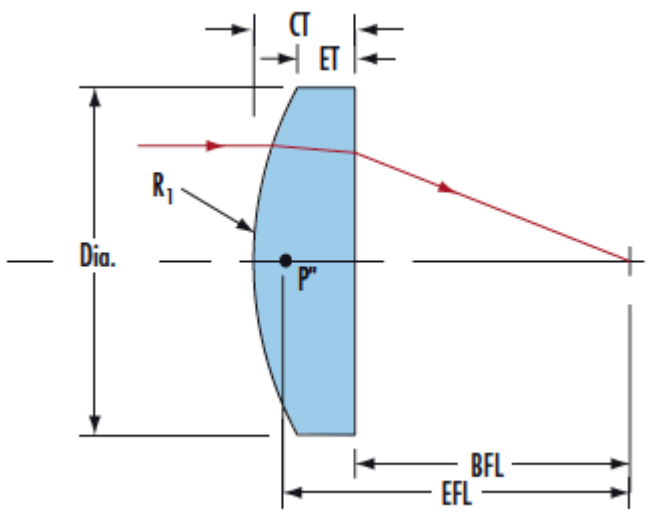
Product Details

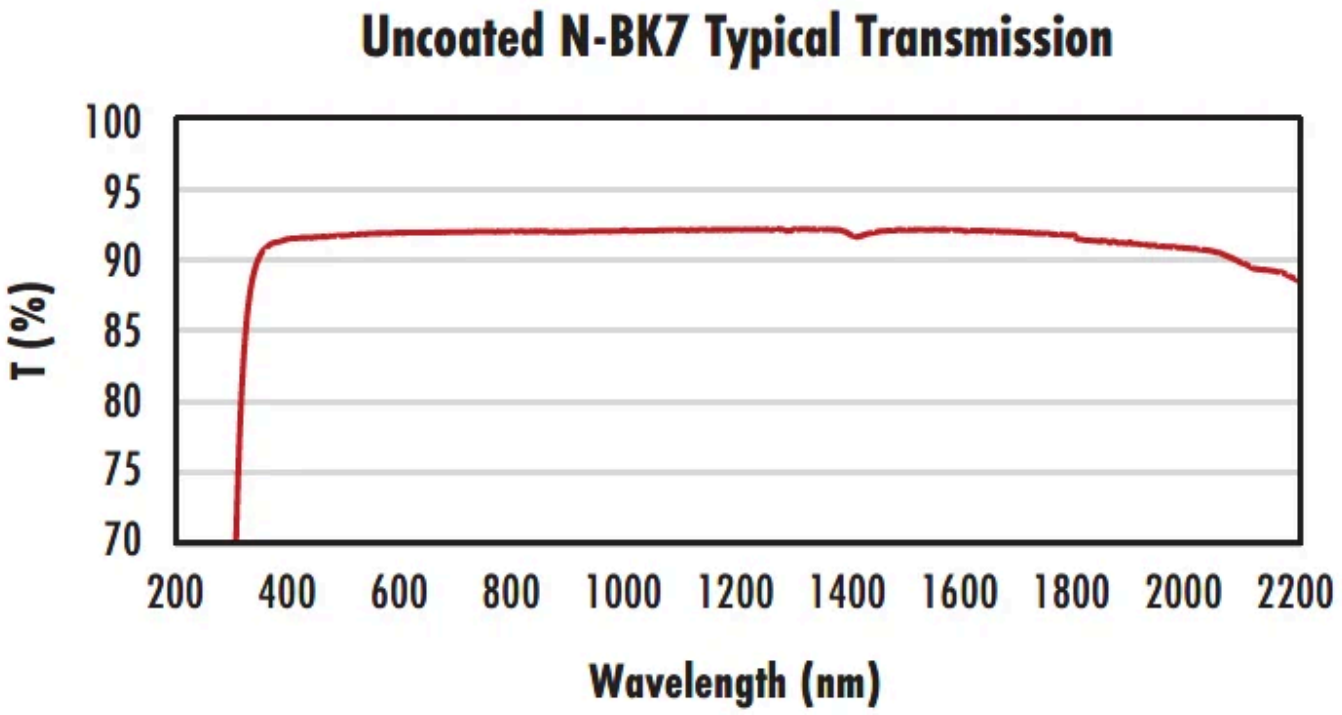
- AR Coated to Provide <0.4% Reflectance per Surface for 425 - 675nm
- Designed for 0° Angle of Incidence
- Various PCX Coating Options: **Uncoated**, **MgF_2**, **VIS-NIR**, **NIR I**, **NIR II**, **VIS-EXT**, and **YAG-BBAR**

TECHSPEC® VIS 0° 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 0° 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-NIR**, **NIR I**, **NIR II**, **VIS-EXT**, and **YAG-BBAR.**

These coated lenses can be utilized in a host 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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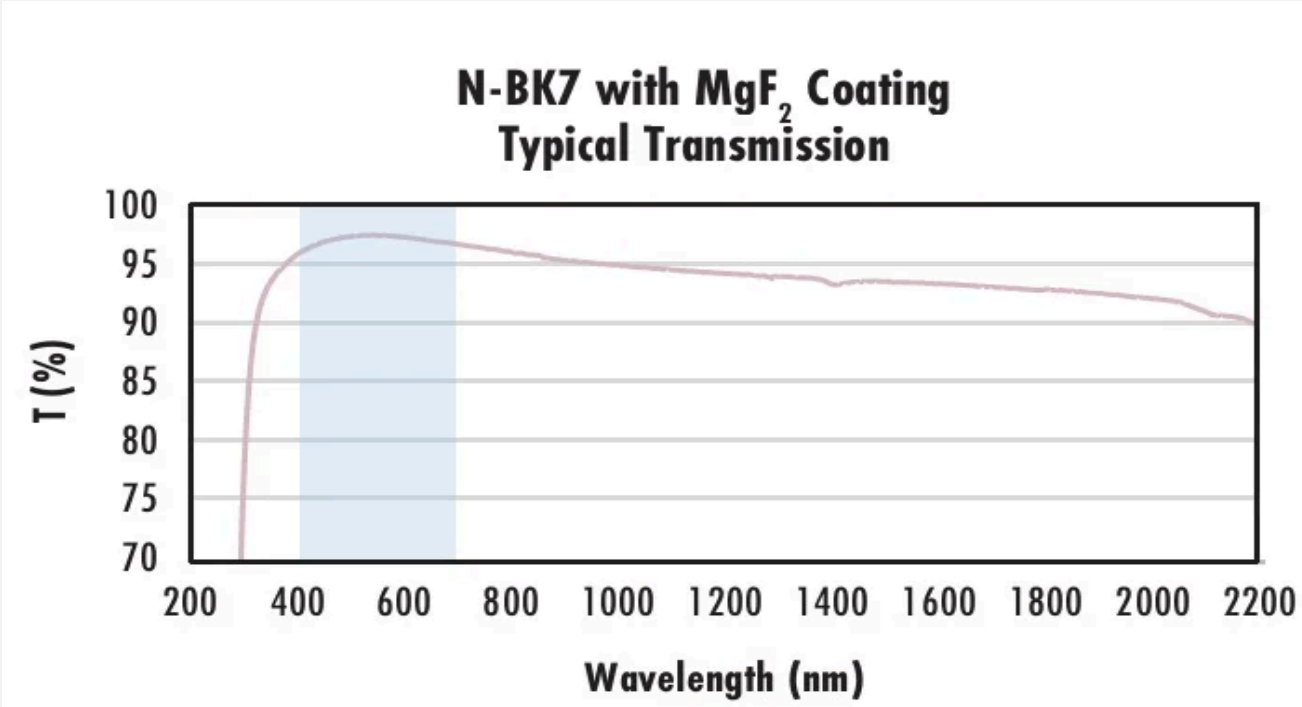

Typical transmission of a 3mm thick N-BK7 window w MgF2 (400-700nm) coating at 0° AOI.

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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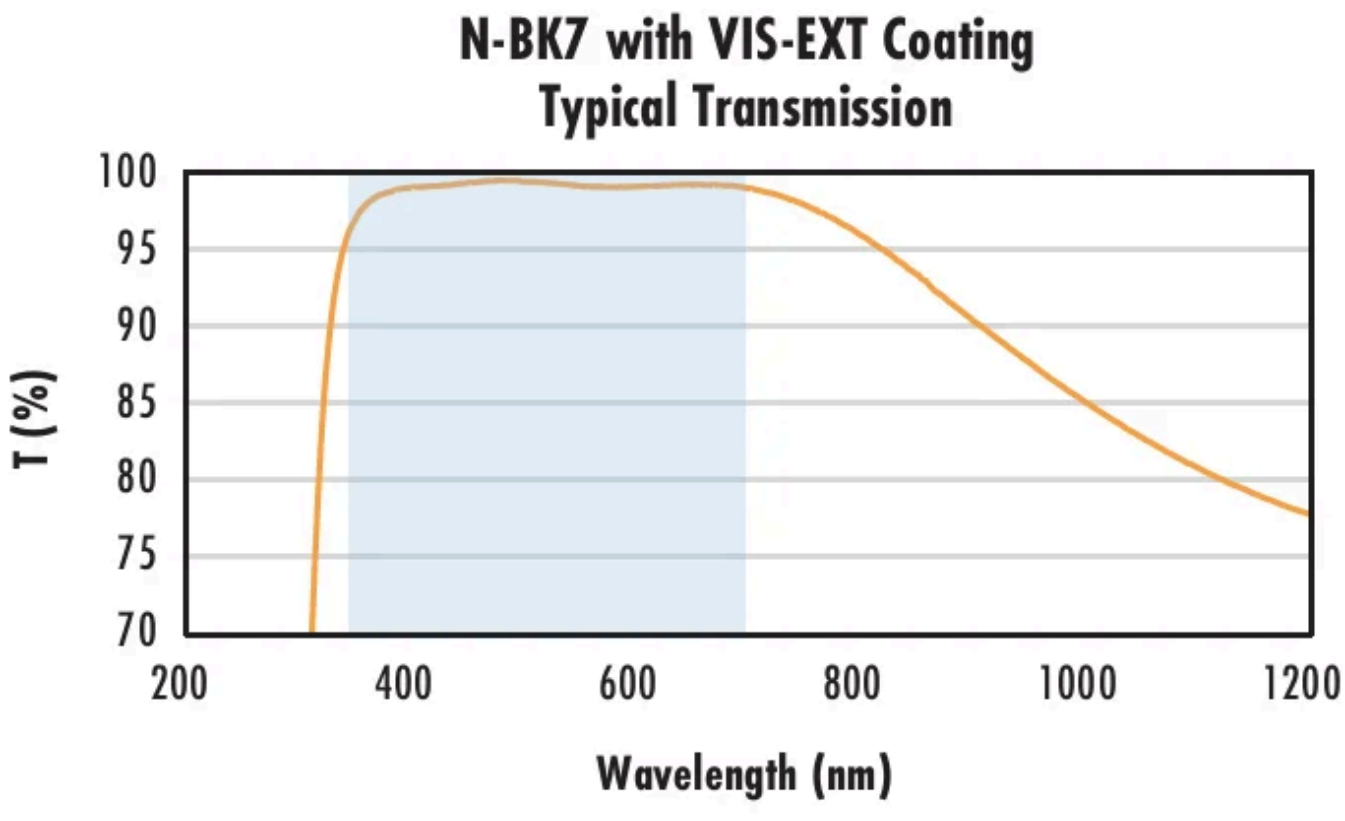

Typical transmission of a 3mm thick N-BK7 window w VIS-EXT (350-700nm) coating at 0° AOI.

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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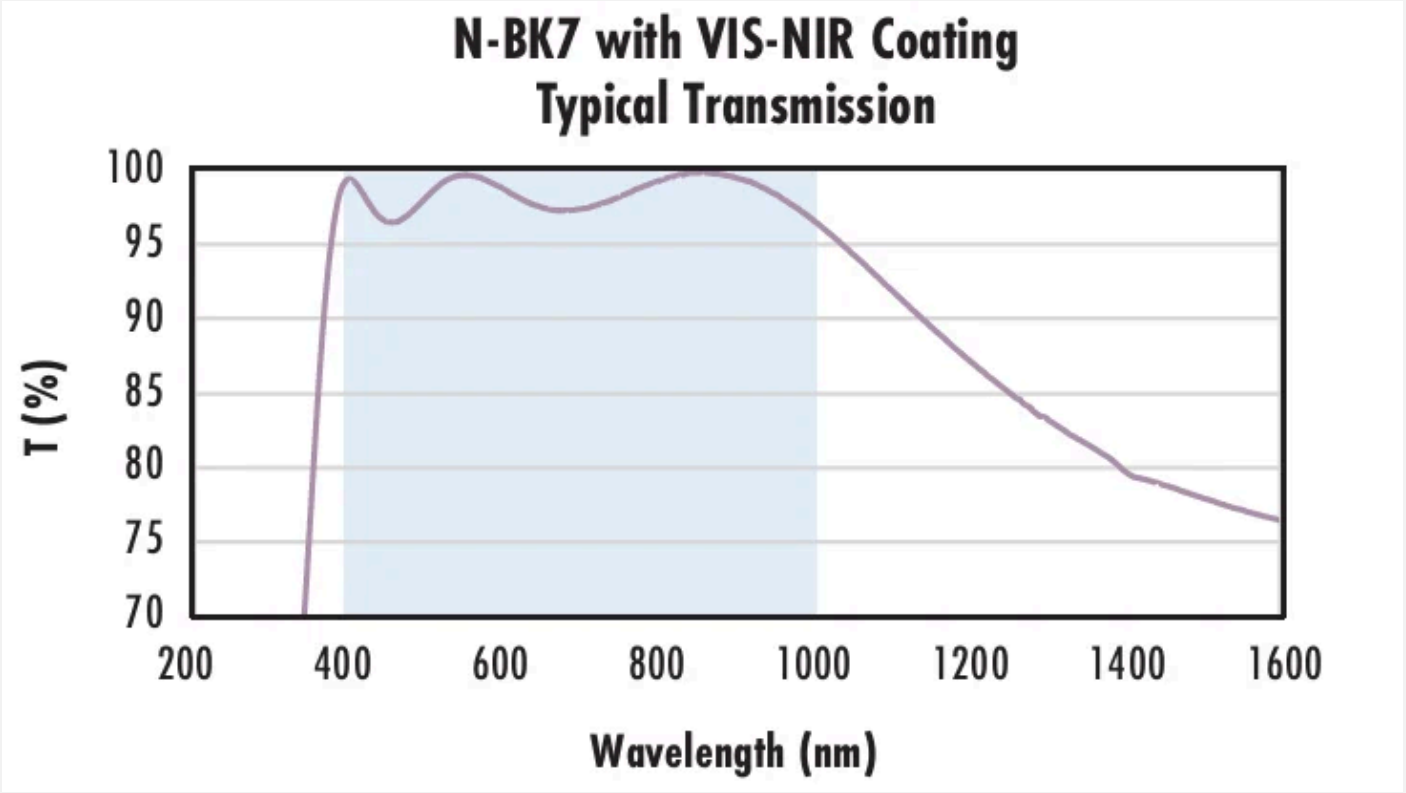

Typical transmission of a 3mm thick N-BK7 window w
VIS-NIR (400-1000nm) coating at 0° AOI.

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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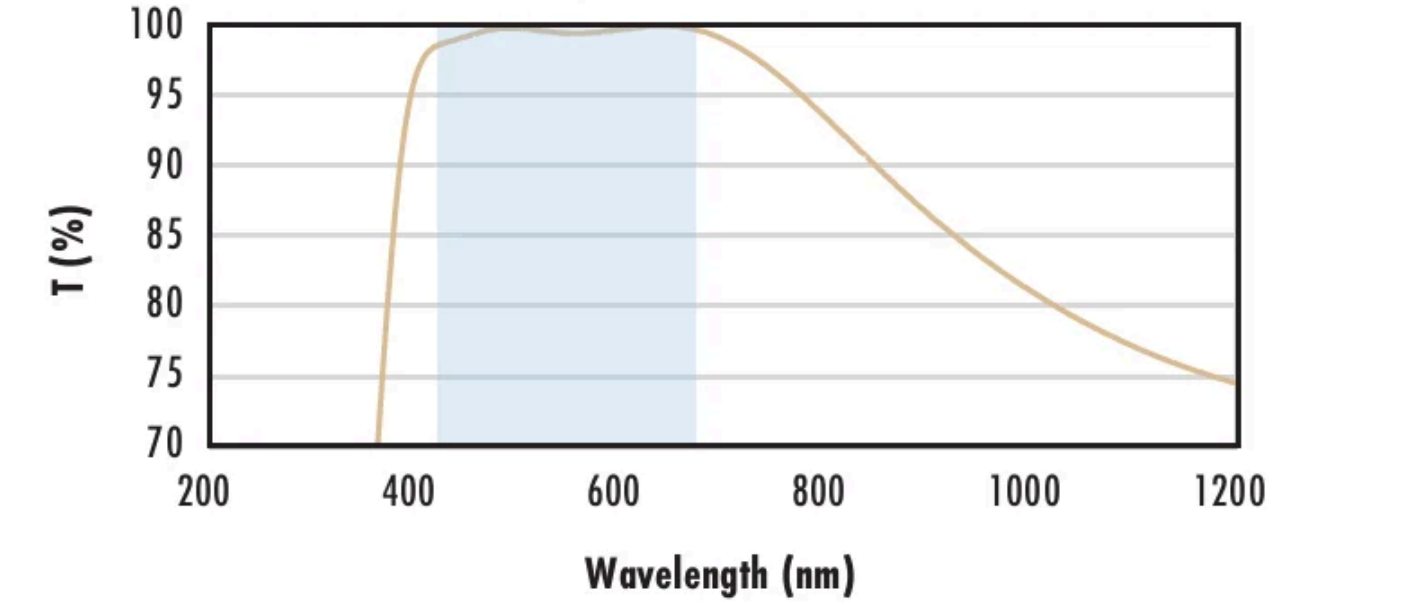

Typical transmission of a 3mm thick N-BK7 window wit
0° (425-675nm) coating at 0° AOI.

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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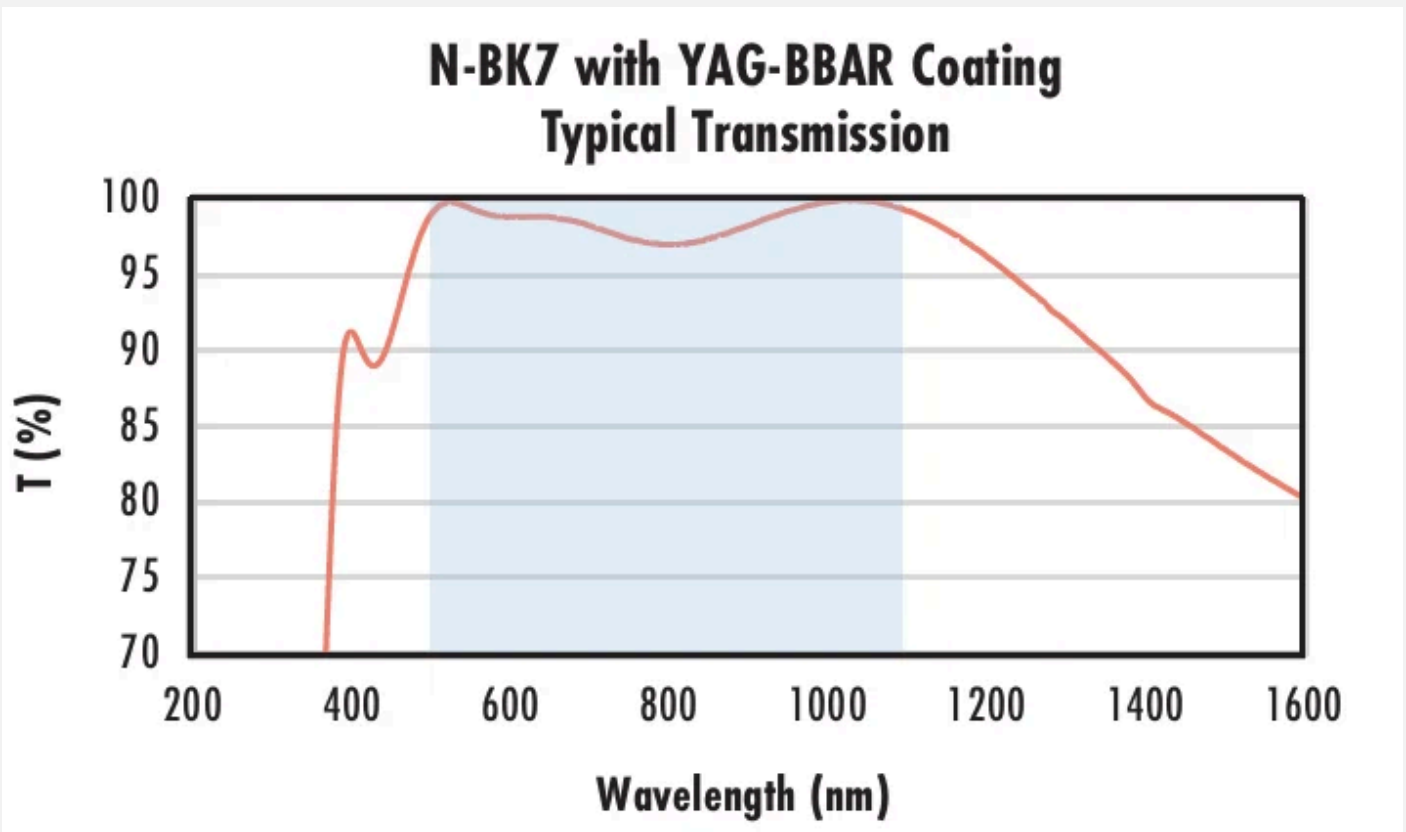

Typical transmission of a 3mm thick N-BK7 window w
YAG-BBAR (500-1100nm) coating at 0° AOI.

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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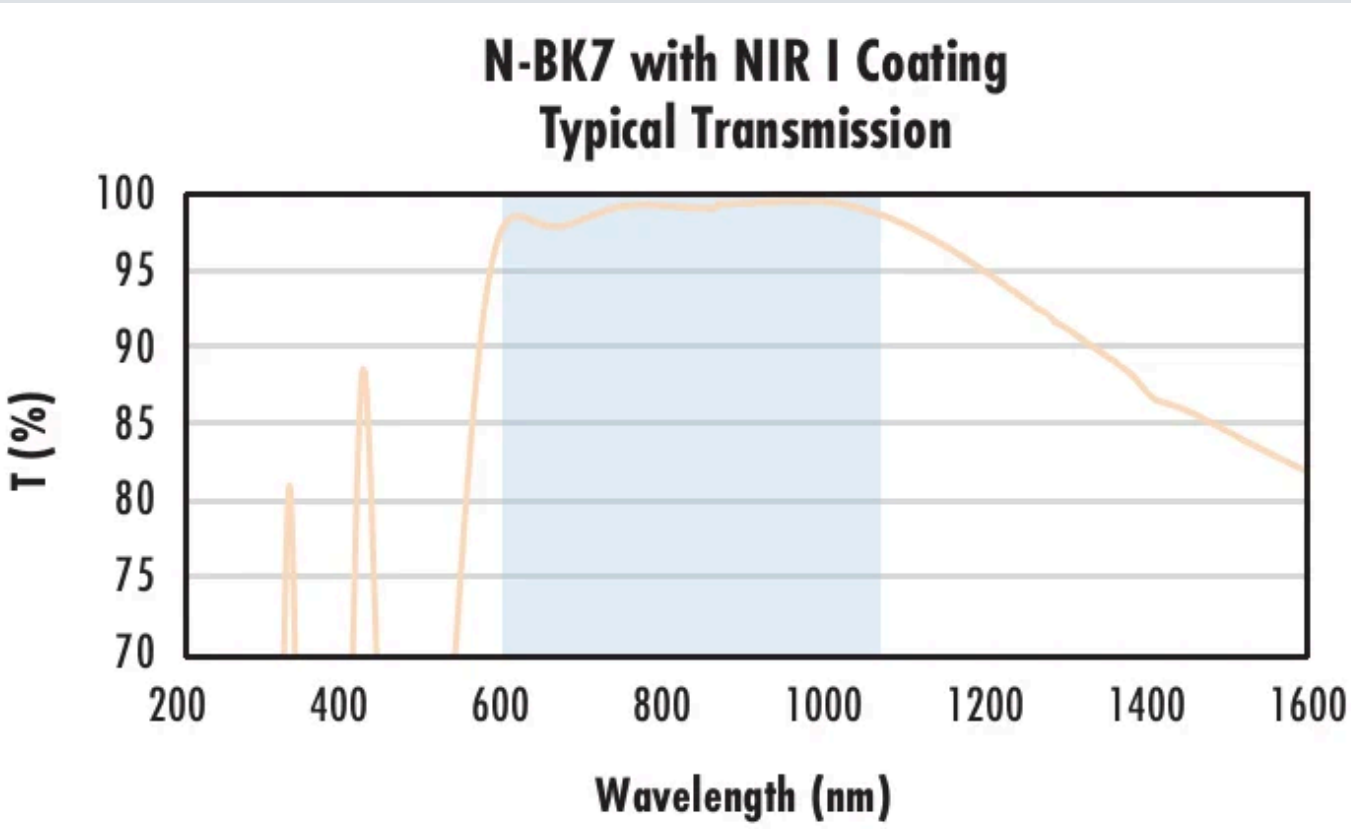

Typical transmission of a 3mm thick N-BK7 window witl I (600 - 1050nm) coating at 0° AOI.

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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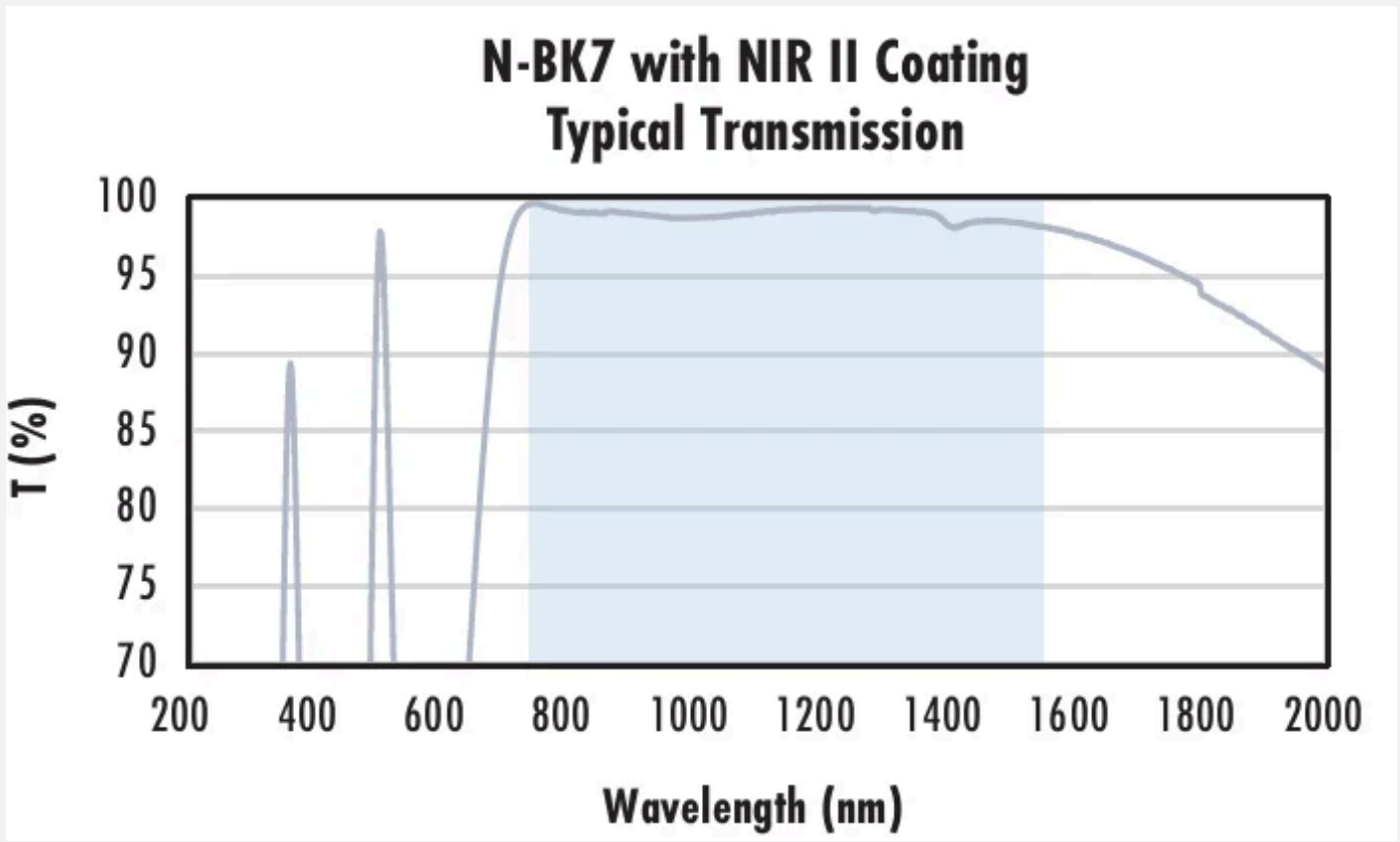

Typical transmission of a 3mm thick N-BK7 window witl II (750 - 1550nm) coating at 0° AOI.

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 reference only.

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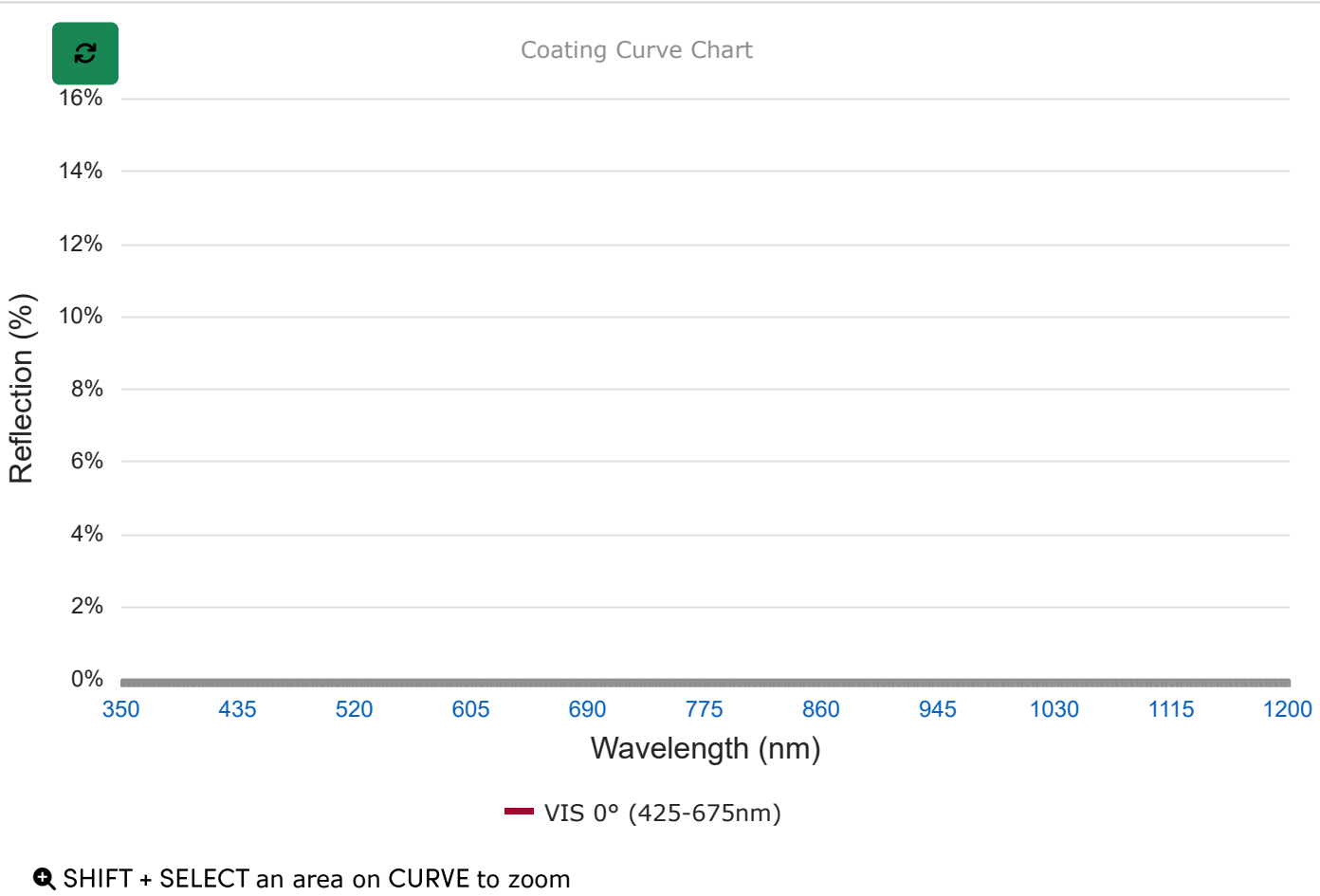
Coating Curves

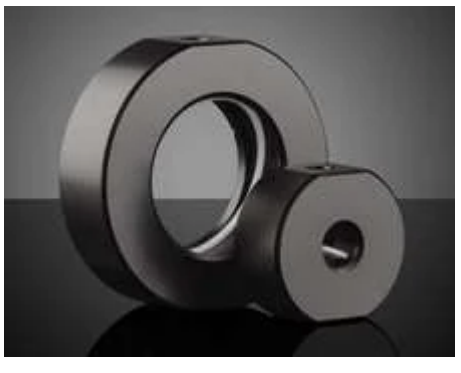
VIS 0° (425-675nm)



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

Related Products

C, S, and T-Mount Circular Optic Mounts



Optic Component Mounts

VIS 0° Coated Achromatic Lenses

VIS 0° Coated Double-Convex (DCX) Lenses

Frequently Purchased Together

#32-471 – 6.0mm Dia. x 12.0mm FL Uncoated, Plano-Convex Lens
₹2,976

Qty

#65-273 – 1.0mm Dia. x 0.6mm FL, VIS 0° Coated, Plano-Convex Lens
₹8,929

Qty

#65-282 – 2.0mm Dia. x 3.0mm FL, VIS 0° Coated, Plano-Convex Lens
₹8,828

Qty

#36-628 – 6mm Dia. x 12mm FL, Small Diameter Plastic Aspheric Lens
₹3,430

Qty

Resources

Media Type

- [ ] Application Note
- [ ] Technical Tool
- [ ] Trending in Optics
- [ ] FAQ
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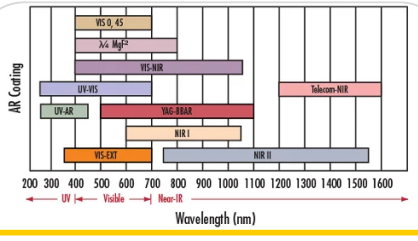
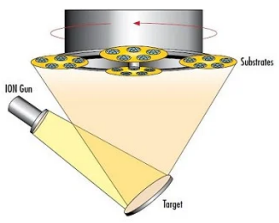


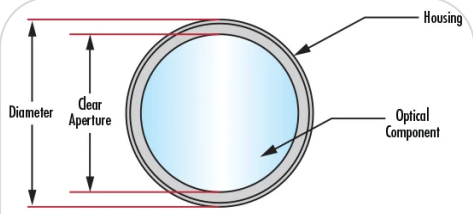
APPLICATION NOTE

Anti-Reflection (AR) Coatings



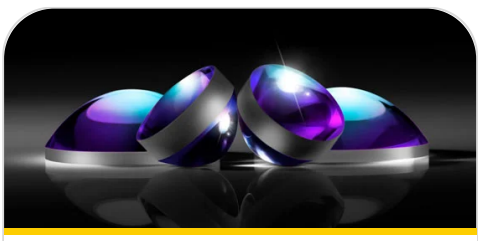
APPLICATION NOTE

An Introduction to Optical Coatings



APPLICATION NOTE

Understanding Optical Specifications



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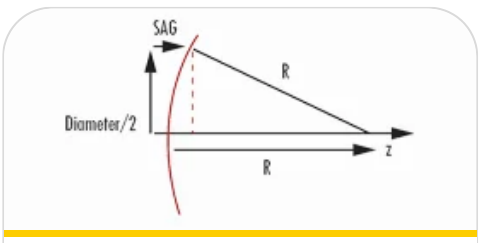

TECHNICAL TOOL

SAG Calculator

TRENDING IN OPTICS

Lens Geometry Performance Comparison

Future of Spherical Lenses

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