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TECHSPEC® 6.0mm ...no-Convex Lens

Options

- 1 +

€54,50

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Volume Pricing	
Qty 1-9	€54,50 each
Qty 10-24	€49,00 each
Qty 25-49	€43,75 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

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

General

Type:	Plano-Convex Lens

Physical & Mechanical Properties

Diameter (mm):	6.00 ±0.025	**Centering (arcmin):**	<3
Center Thickness CT (mm):	1.80 ±0.05	**Edge Thickness ET (mm):**	0.84
Clear Aperture CA (mm):	5.4	**Bevel:**	Protective as needed

Optical Properties

Effective Focal Length EFL (mm):	10.00 @ 587.6nm	**Back Focal Length BFL (mm):**	8.82
Coating:	VIS 0° (425-675nm)	**Coating Specification:**	R_{avg} ≤0.4% @ 425 - 675nm
Substrate: ⓘ	N-BK7	**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):**	5.17
f/#:	1.67	**Numerical Aperture NA:**	0.30

Wavelength Range (nm):	425 - 675
Damage Threshold, By Design: ⓘ	5 J/cm^2 @ 532nm, 10ns

Regulatory Compliance

Certificate of Conformance:	**View**

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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.**

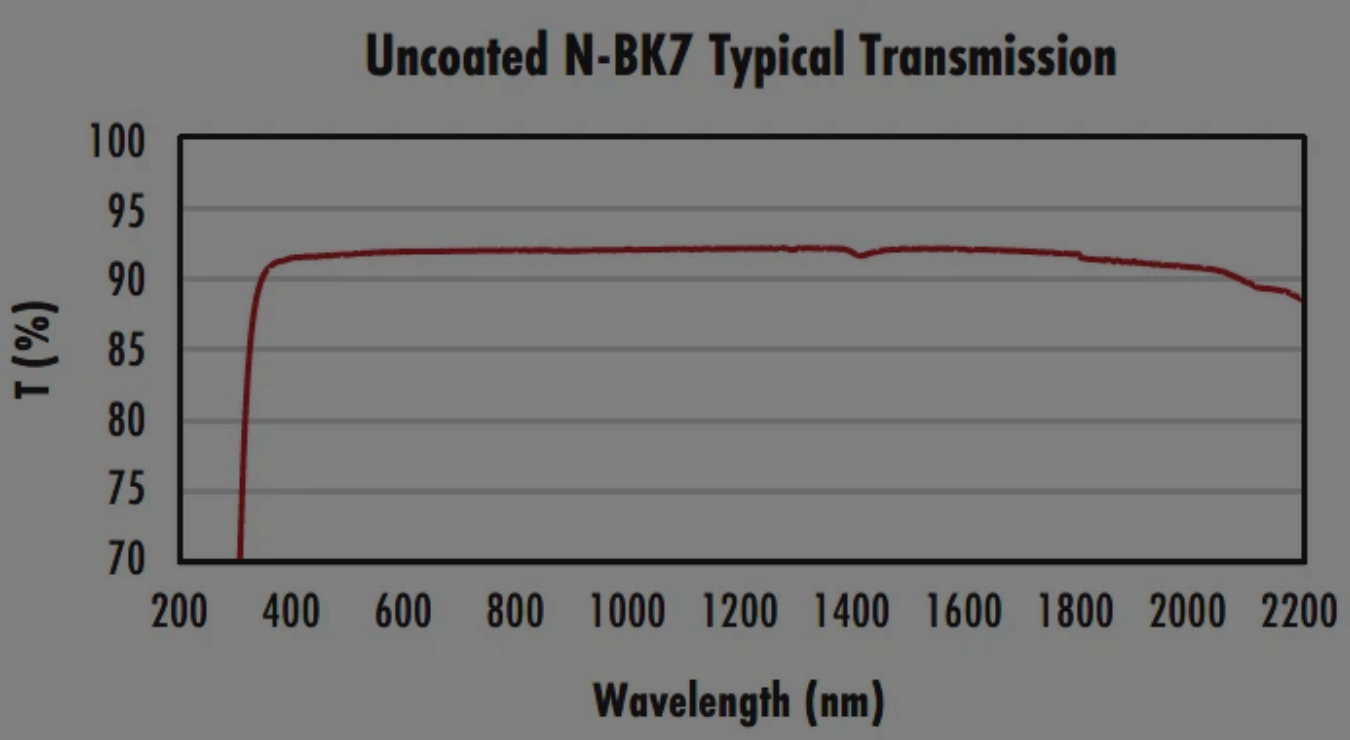
Product Details

- 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.**

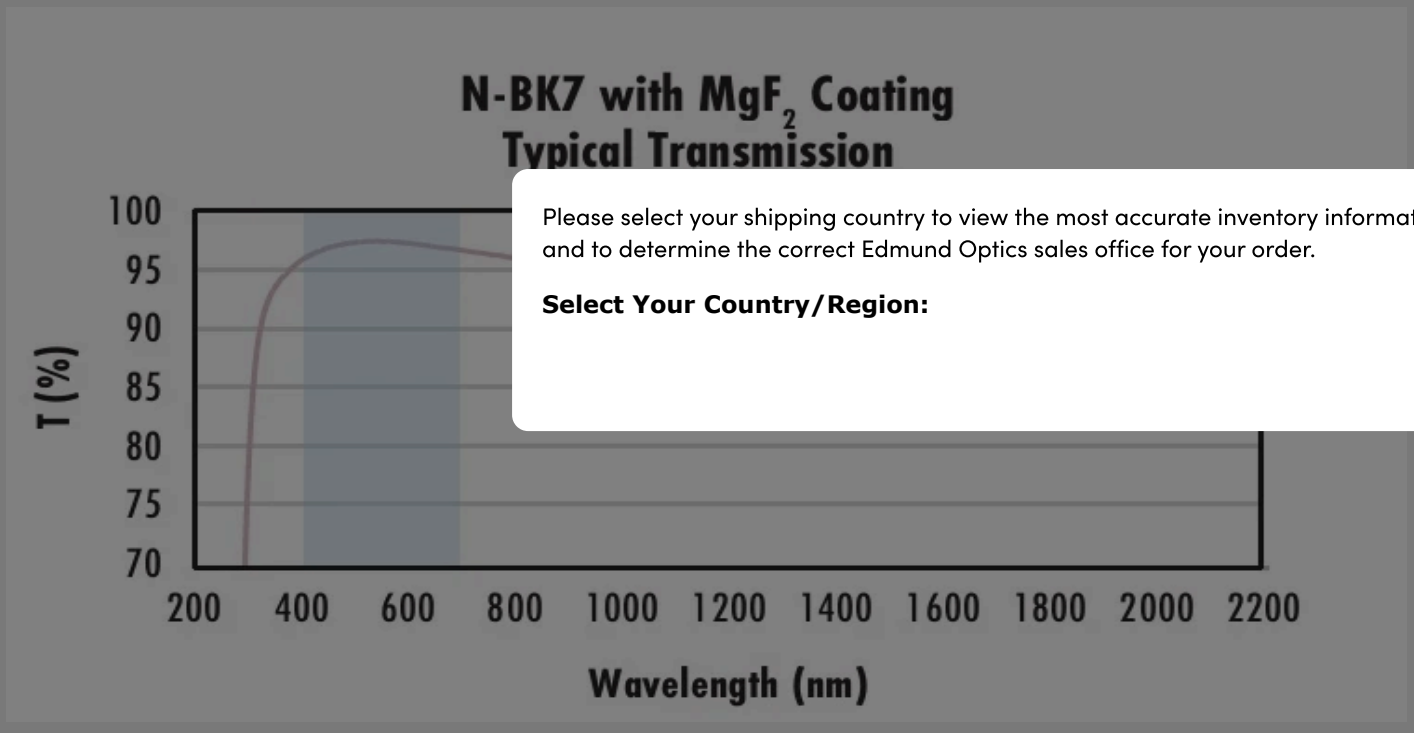
These coated lenses can be utilized in a host of optics and photonics applications, including biotech instruments such as DNA sequencers and polymerase chain reaction (PCR) testing platforms.

Technical Information



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

Click Here to Download Data



Please select your shipping country to view the most accurate inventory information, and to determine the correct Edmund Optics sales office for your order.

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

he 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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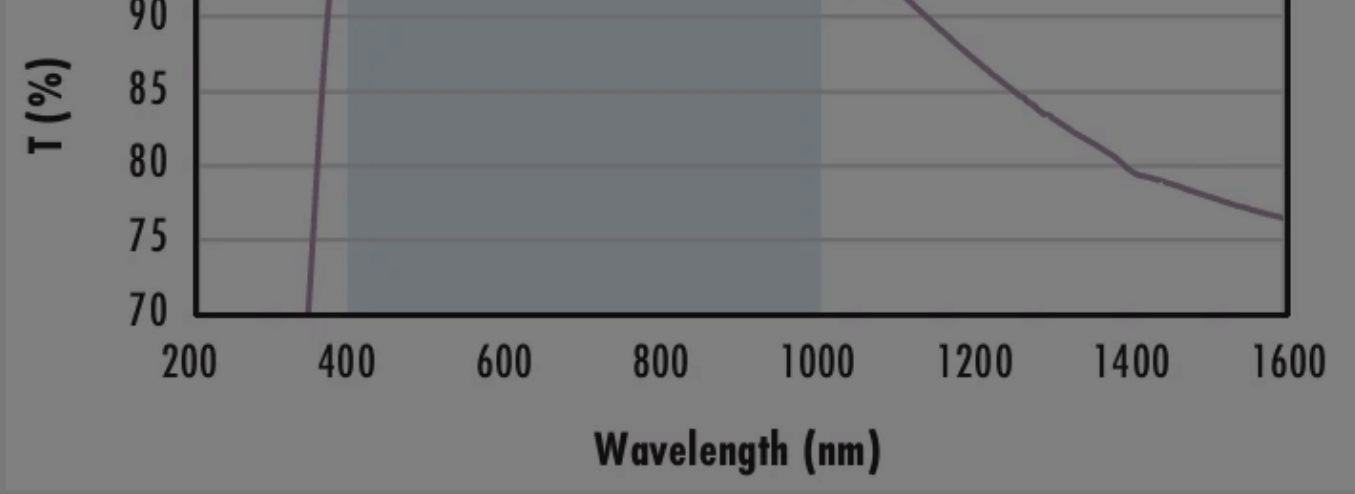

Typical transmission of a 3mm thick N-BK7 window w
VIS-EXT (350-700nm) coating at 0° AOI.

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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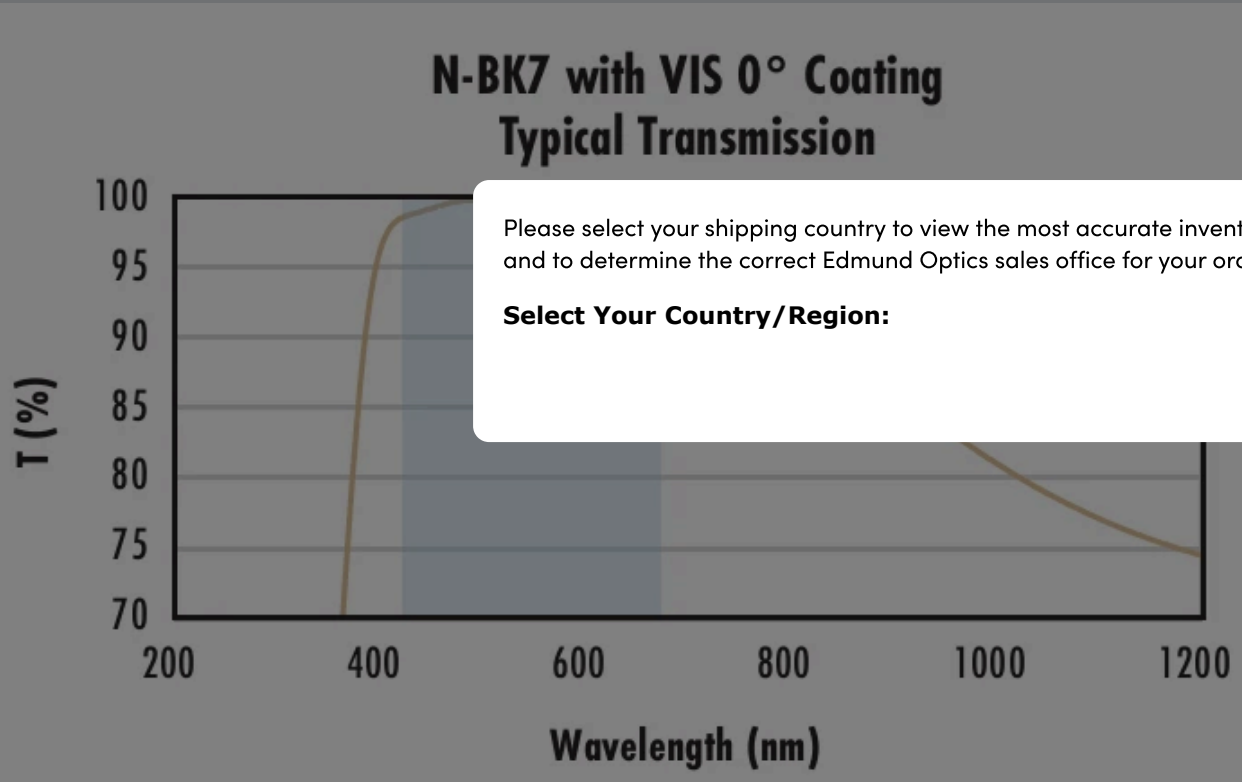

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al transmission of a 3mm thick N-BK7 window wit
0° (425-675nm) coating at 0° AOI.

he 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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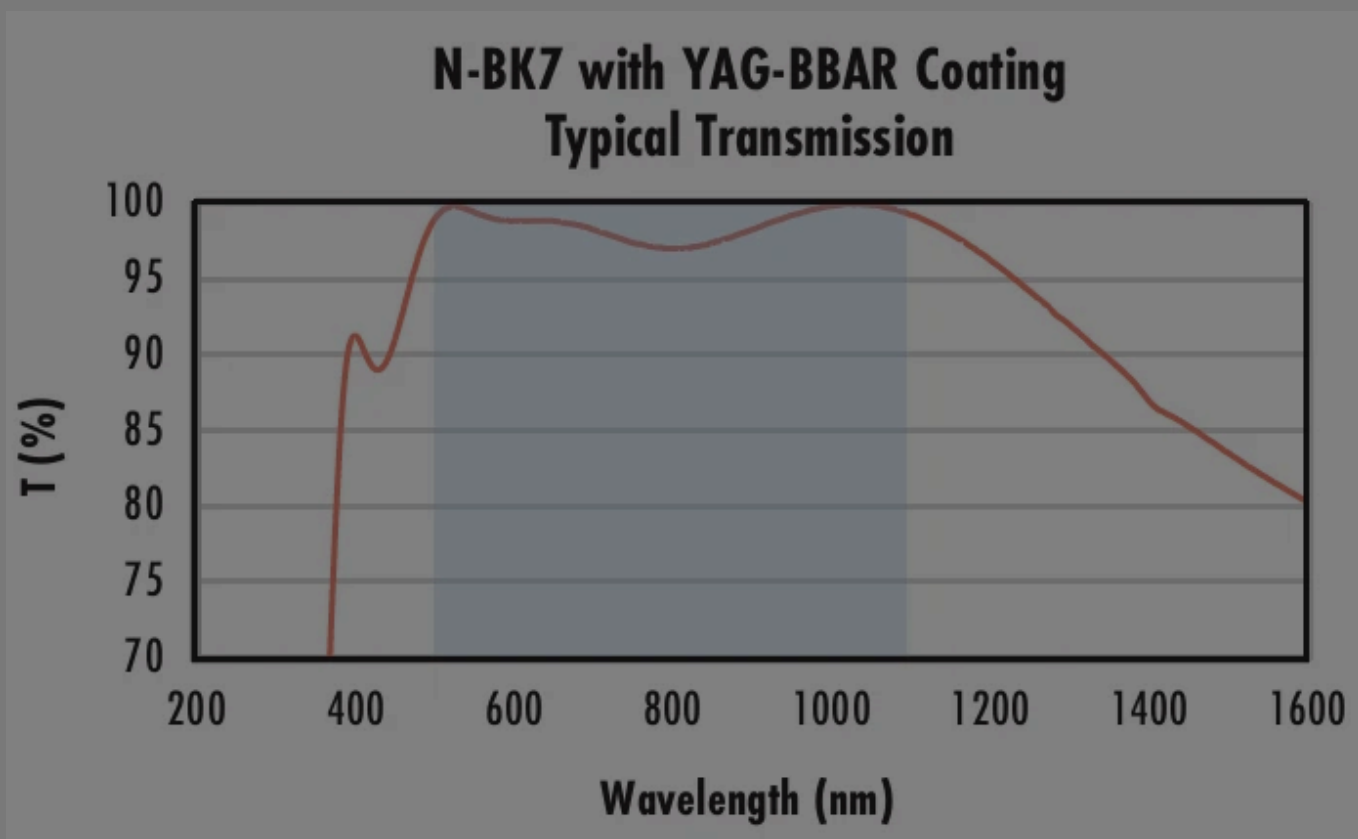

Typical transmission of a 3mm thick N-BK7 window w
YAG-BBAR (500-1100nm) coating at 0° AOI.

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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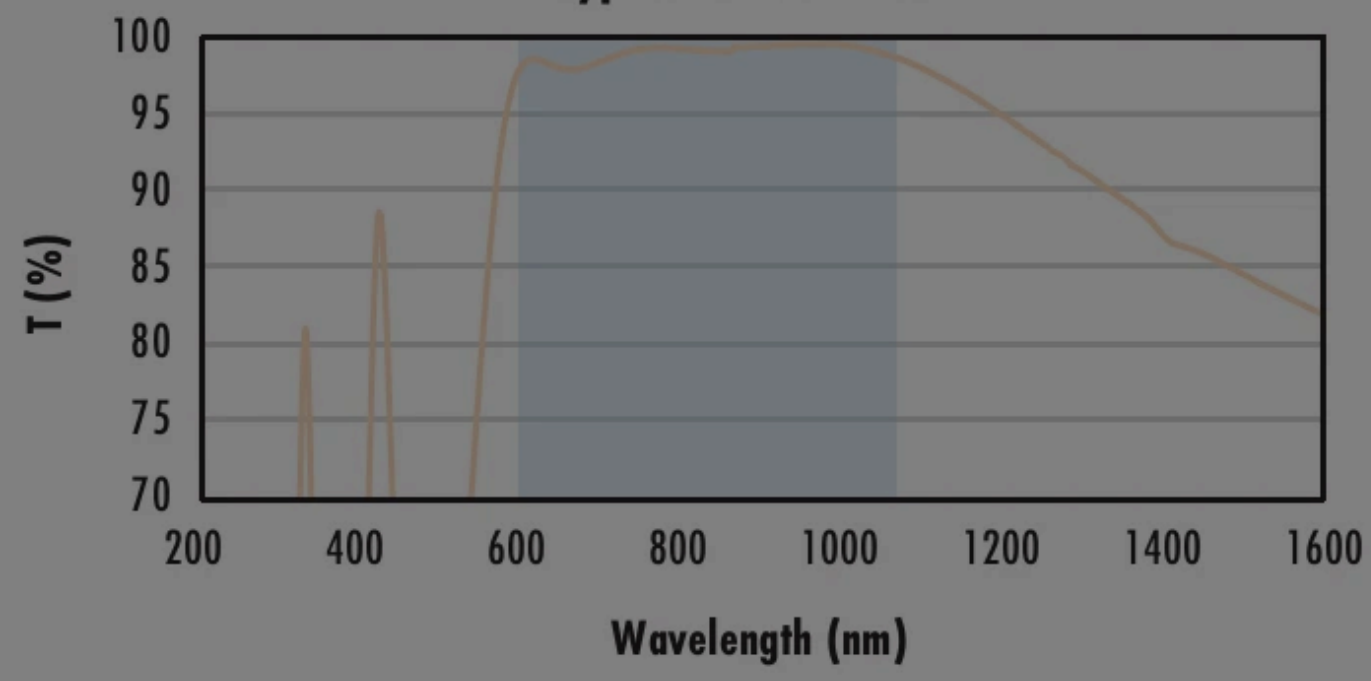

Typical transmission of a 3mm thick N-BK7 window witl
I (600 - 1050nm) coating at 0° AOI.

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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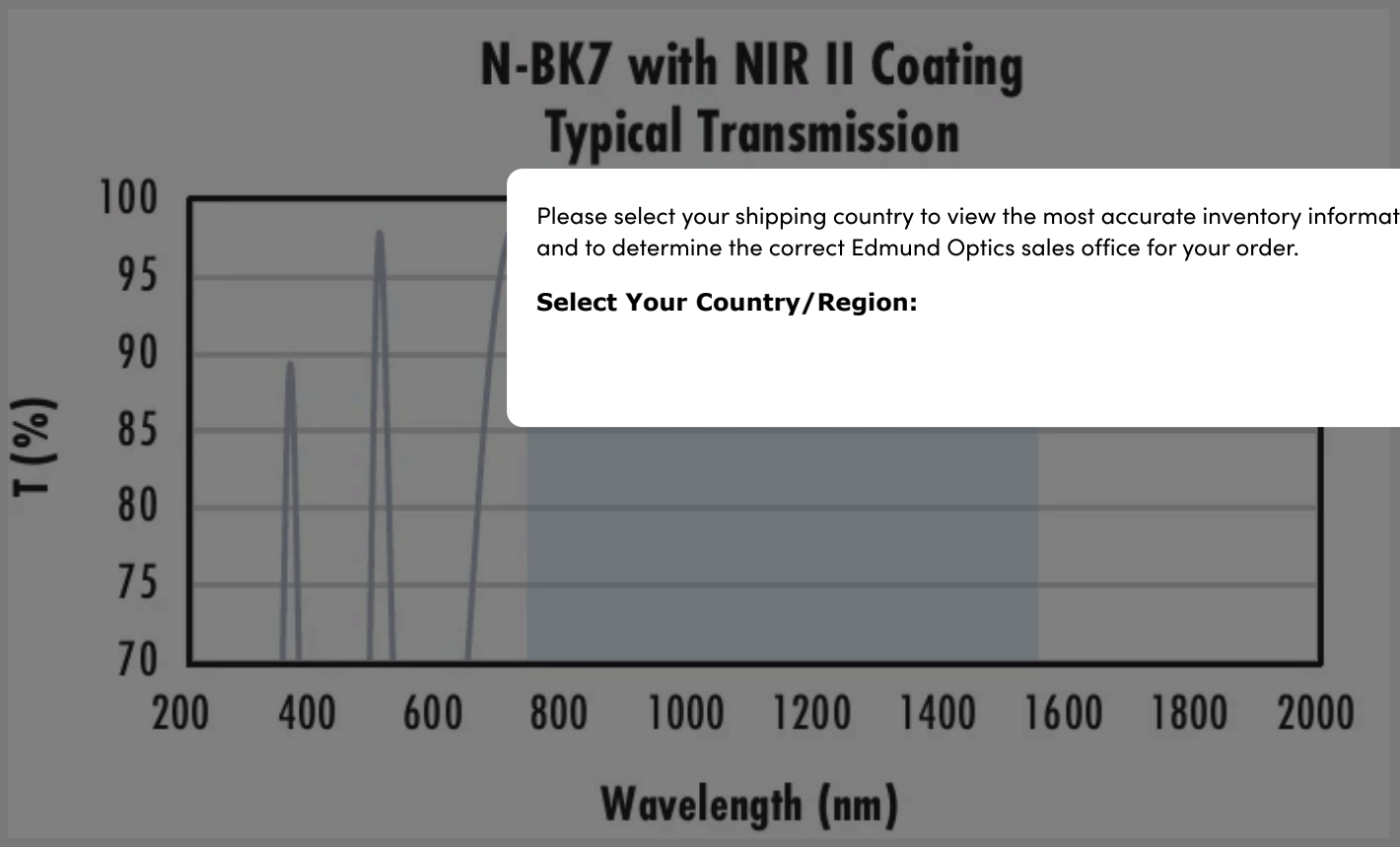

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al transmission of a 3mm thick N-BK7 window witl
II (750 - 1550nm) coating at 0° AOI.

he 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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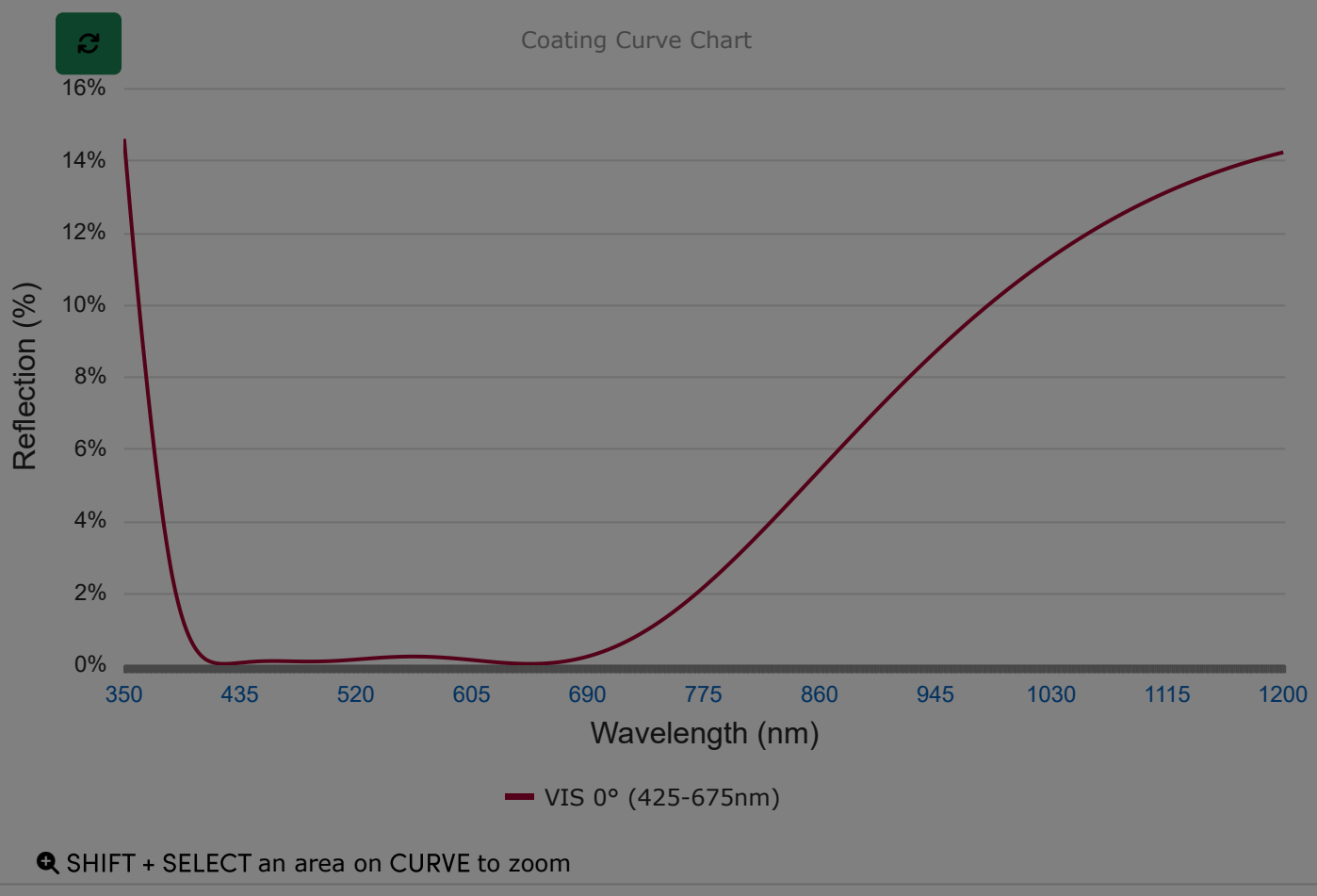
Coating Curves

VIS 0° (425-675nm)

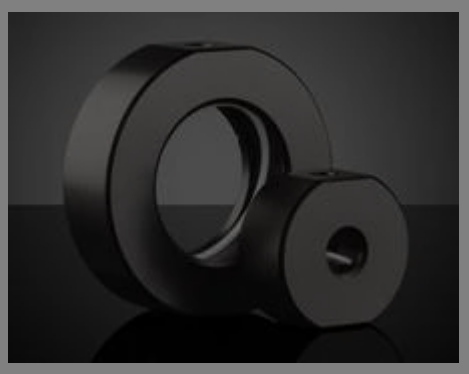


SHIFT + SELECT an area on CURVE to zoom

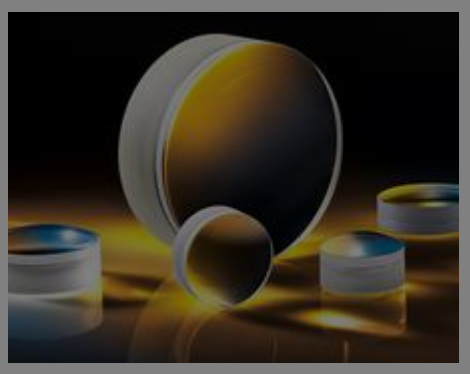
Please note that coating performance outside each product's specified design range is theoretical and may vary.

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

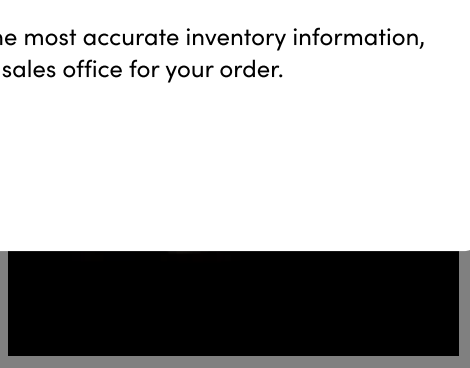
Frequently Purchased Together

#45-302 – 12.0mm Dia. x 15.0mm FL, Uncoated, Plano-Convex Lens
€34,00

Qty

#45-355 – 5.0mm Dia. x 15.0mm FL, MgF_2 Coated, Plano-Convex Lens
€47,50

Qty



#47-479-INK – 6mm Dia. x 9mm FL, VIS 0° Inked, Double-Convex Lens
€56,00

Qty

#47-914-INK – 6mm Dia. x -6mm FL, VIS 0°, Inked, Double-Concave Lens
€54,50

Qty

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Compatible Mounts

	Title	Type	Compare	Stock Number	Price ☐	Buy
MORE+ 	6.0mm Optic Dia., Optic Mount	Fixed		#64-552	€32,75 Request Quote	2 In Stock 1

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

Resources

Media Type

- [ ] Application Note
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- [ ] Trending in Optics
- [ ] FAQ
- [ ] Glossary
- [ ] Video

APPLICATION NOTE
Anti-Reflection

APPLICATION NOTE
An

APPLICATION NOTE
Understanding Optical Specifications

APPLICATION NOTE
Lens Geometry Performance Comparison

TECHNICAL TOOL
SAG Calculator

TRENDING IN OPTICS
Future of Spherical Lenses

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