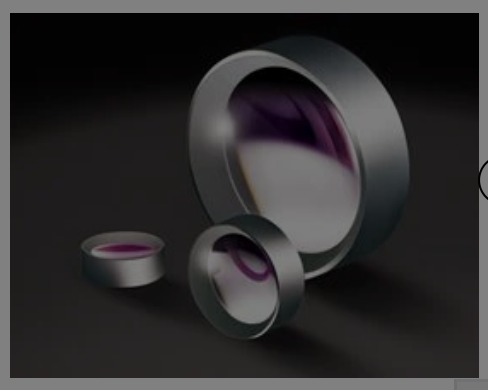
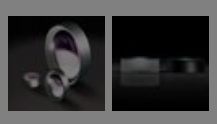
TECHSPEC®

25.0mm Diamet … oncave Lens





Stock #49-534 CONTACT US Other Coating Options

- 1 +

€51,50

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Volume Pricing	
Qty 1-9	€51,50 each
Qty 10-25	€46,25 each
Qty 26-49	€41,25 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

STEP:stp | Curve:pdf | PDF Drawing:pdf | ISO 10110 Drawing | IGES:igs | Curve (xslx) | Zemax:zar | Zemax:zmx | eDrawing:eprt | Code V:seq | EO Spec Sheet | Download All

General

Type:	Plano-Concave Lens

Physical & Mechanical Properties

Diameter (mm):	25.00 +0.0/-0.025	**Bevel:**	Protective as needed
Center Thickness CT (mm):	3.50	**Center Thickness Tolerance (mm):**	±0.10
Centering (arcmin):	<1	**Clear Aperture CA (mm):**	24.00
Edge Thickness ET (mm):	7.75		

Optical Properties

Effective Focal Length EFL (mm):	-25.00	**Substrate:** ⓘ	N-SF11
f/#:	1.00	**Numerical Aperture NA:**	0.50
Coating:	NIR I (600-1050nm)	**Wavelength Range (nm):**	600 - 1050
Back Focal Length BFL (mm):	-26.96	**Coating Specification:**	R_{avg} ≤0.5% @ 600 - 1050nm
Focal Length Specification	587.6	**Focal Length Tolerance (%):**	±1

Wavelength (nm):			
Radius R_1 (mm):	-19.62	**Surface Quality:**	40-20
Damage Threshold, By Design: ⓘ	7 J/cm^2 @ 1064nm, 10ns		
Irregularity (P-V) @ 632.8nm:	λ/4		

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Regulatory Compliance

RoHS 2015:	**Compliant**	**Certificate of Conformance:**	**View**
Reach 235:	**Compliant**		

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

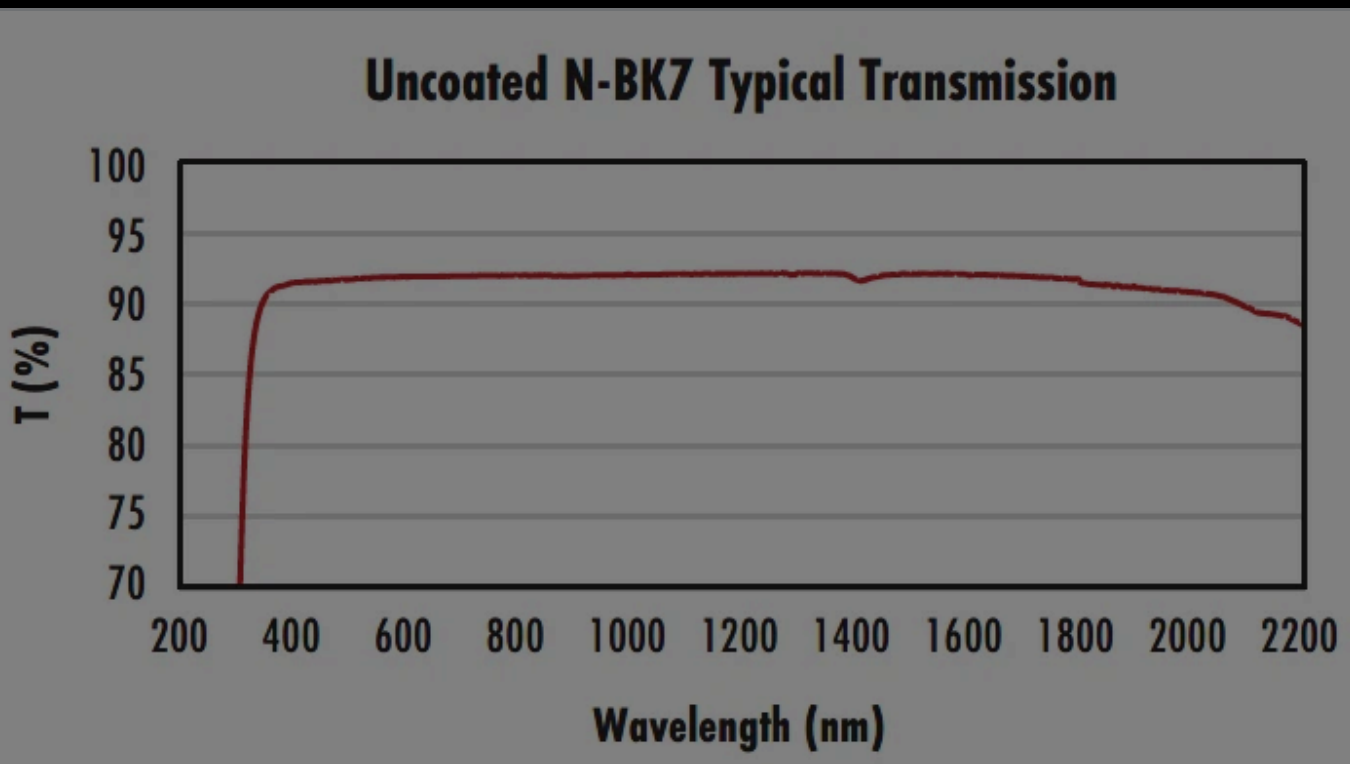
Learn more about our **custom manufacturing capabilities** or submit an inquiry **here.**

Product Details

- AR Coated to Provide <0.5% Reflectance per Surface for 600 - 1050nm
- Designed for 0° Angle of Incidence
- Various Coating Options: **Uncoated**, **VIS-EXT**, **MgF_2**, **VIS 0°**, **VIS-NIR**, **YAG-BBAR**, and **NIR II**

TECHSPEC® NIR I Coated Plano-Concave (PCV) Lenses are designed to bend parallel input rays to diverge from one another on the output side of the lens causing this lens to have a negative focal length. These lenses can be used for balancing aberrations created by other lenses within a system due to their negative spherical aberration. Plano-Concave (PCV) lenses are commonly used in a variety of applications including image reduction, beam expansion and telescopes. TECHSPEC® NIR I Coated Plano-Concave (PCV) Lenses offer optimal performance in the 600nm to 1050nm range. These lenses are also available **Uncoated**, **VIS-EXT**, **MgF_2**, **VIS 0°**, **VIS-NIR**, **YAG-BBAR**, or with **NIR II** AR coating options.

Technical Information



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

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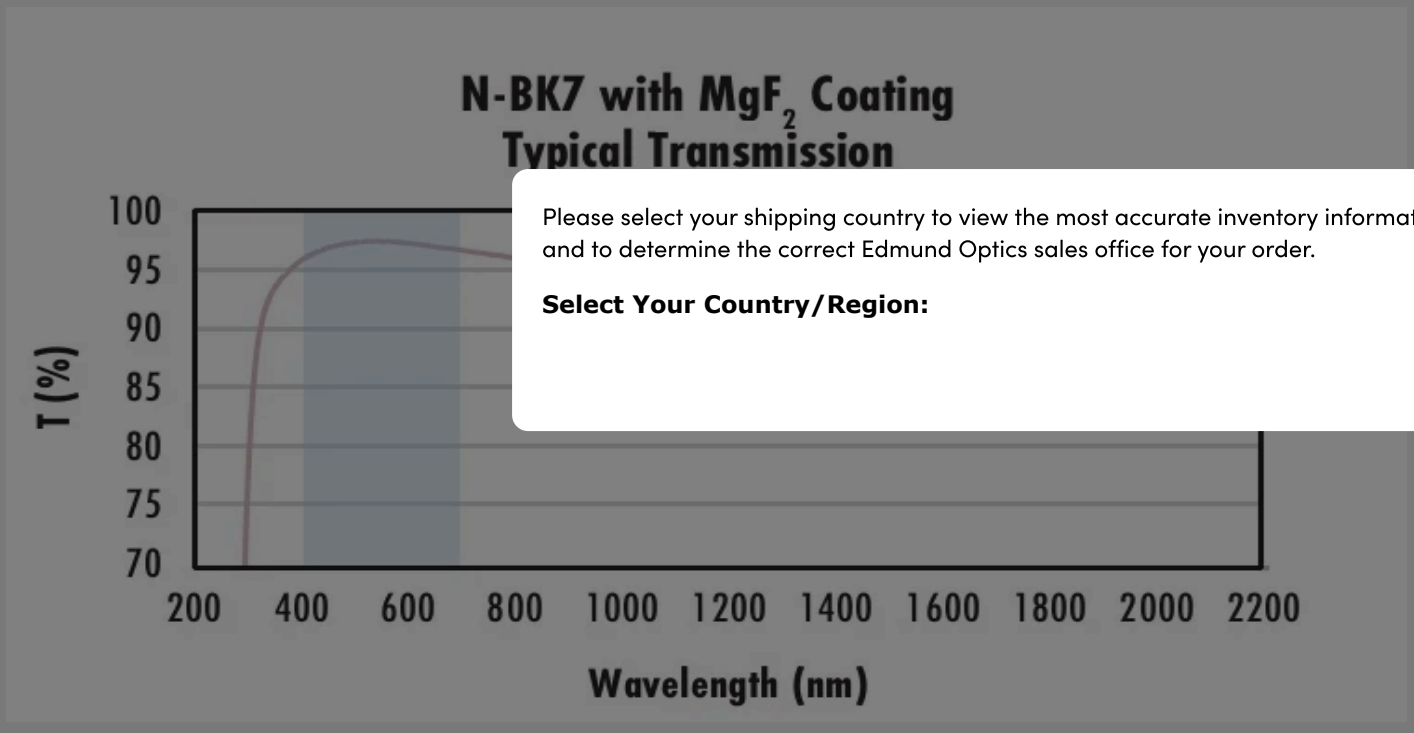

ical transmission of a 3mm thick N-BK7 window w
MgF2 (400-700nm) coating at 0° AOI.

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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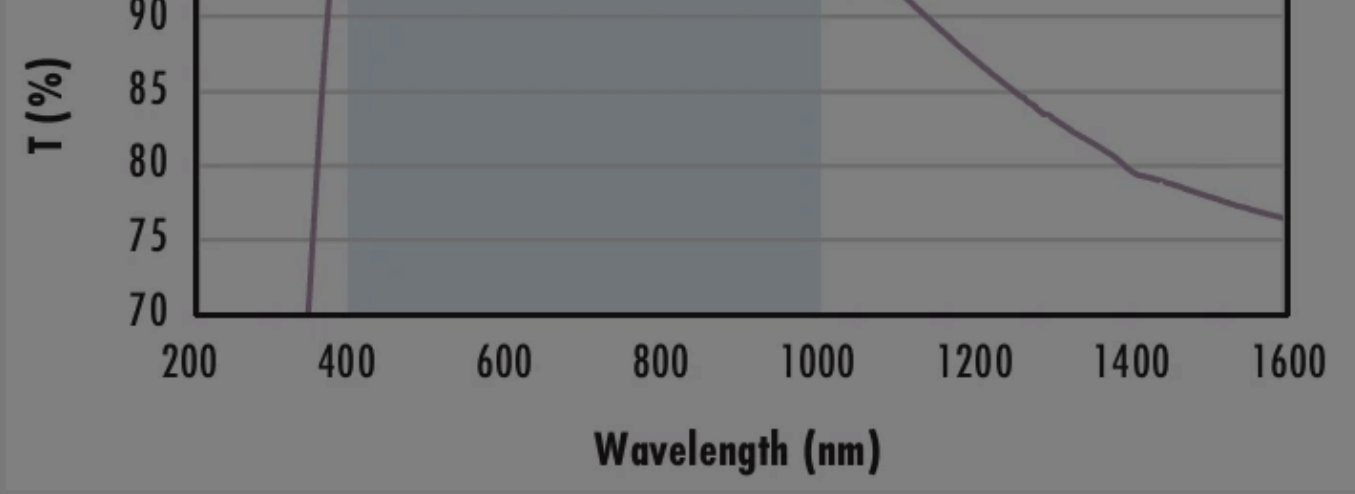

Typical transmission of a 3mm thick N-BK7 window w
VIS-EXT (350-700nm) coating at 0° AOI.

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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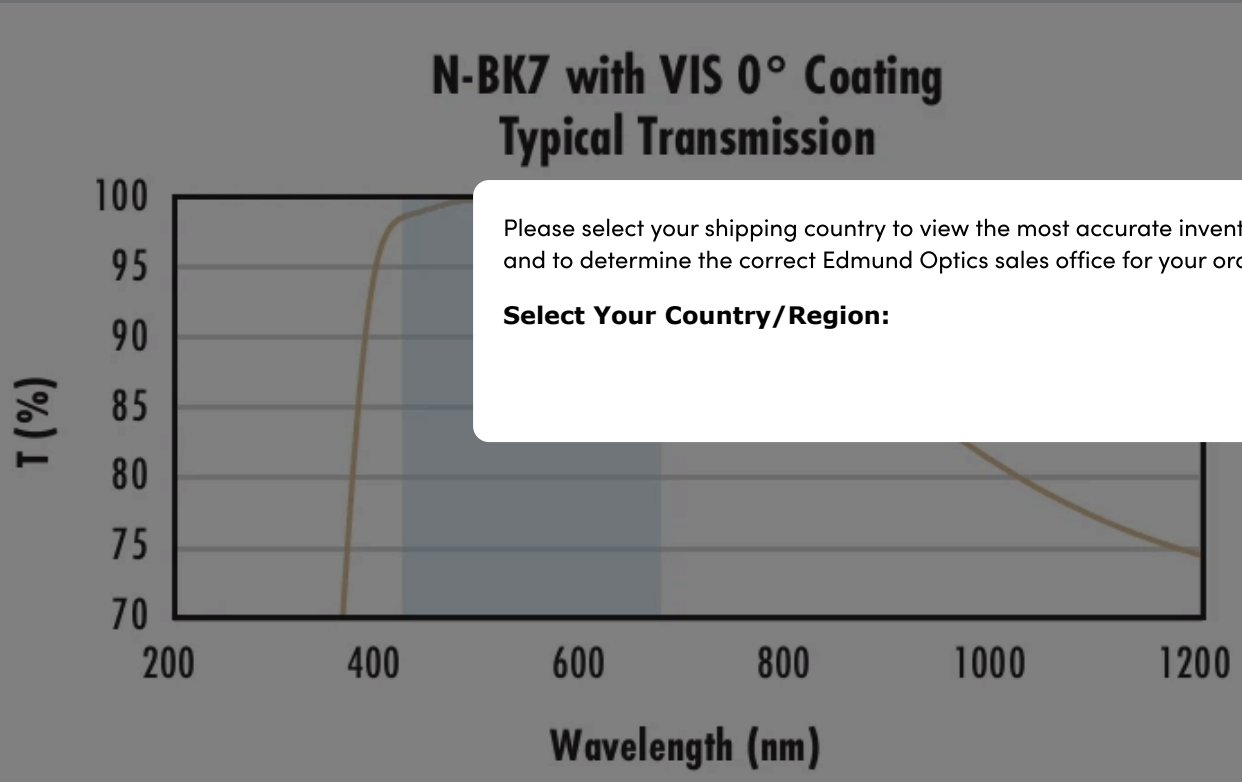

al transmission of a 3mm thick N-BK7 window wit
0° (425-675nm) coating at 0° AOI.

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

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

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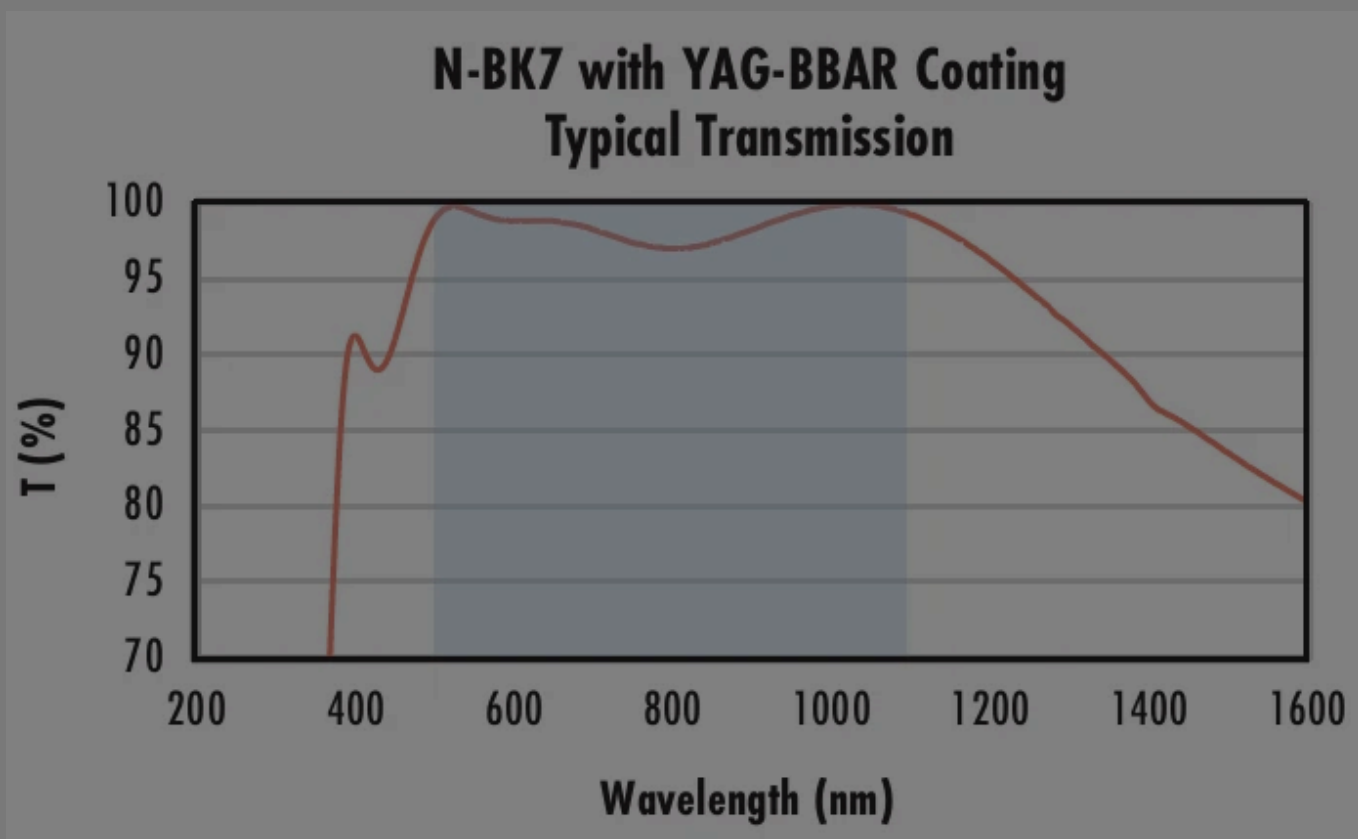

Typical transmission of a 3mm thick N-BK7 window w
YAG-BBAR (500-1100nm) coating at 0° AOI.

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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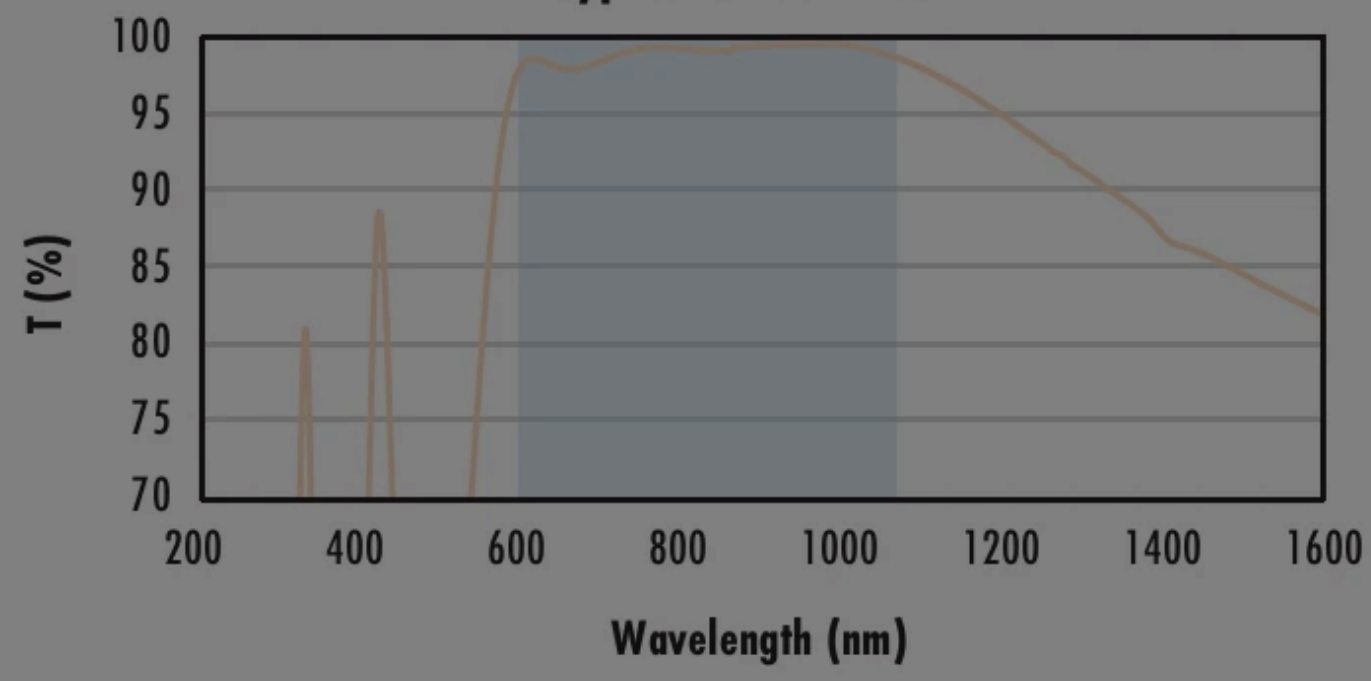

Typical transmission of a 3mm thick N-BK7 window witl
I (600 - 1050nm) coating at 0° AOI.

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

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

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reference only.

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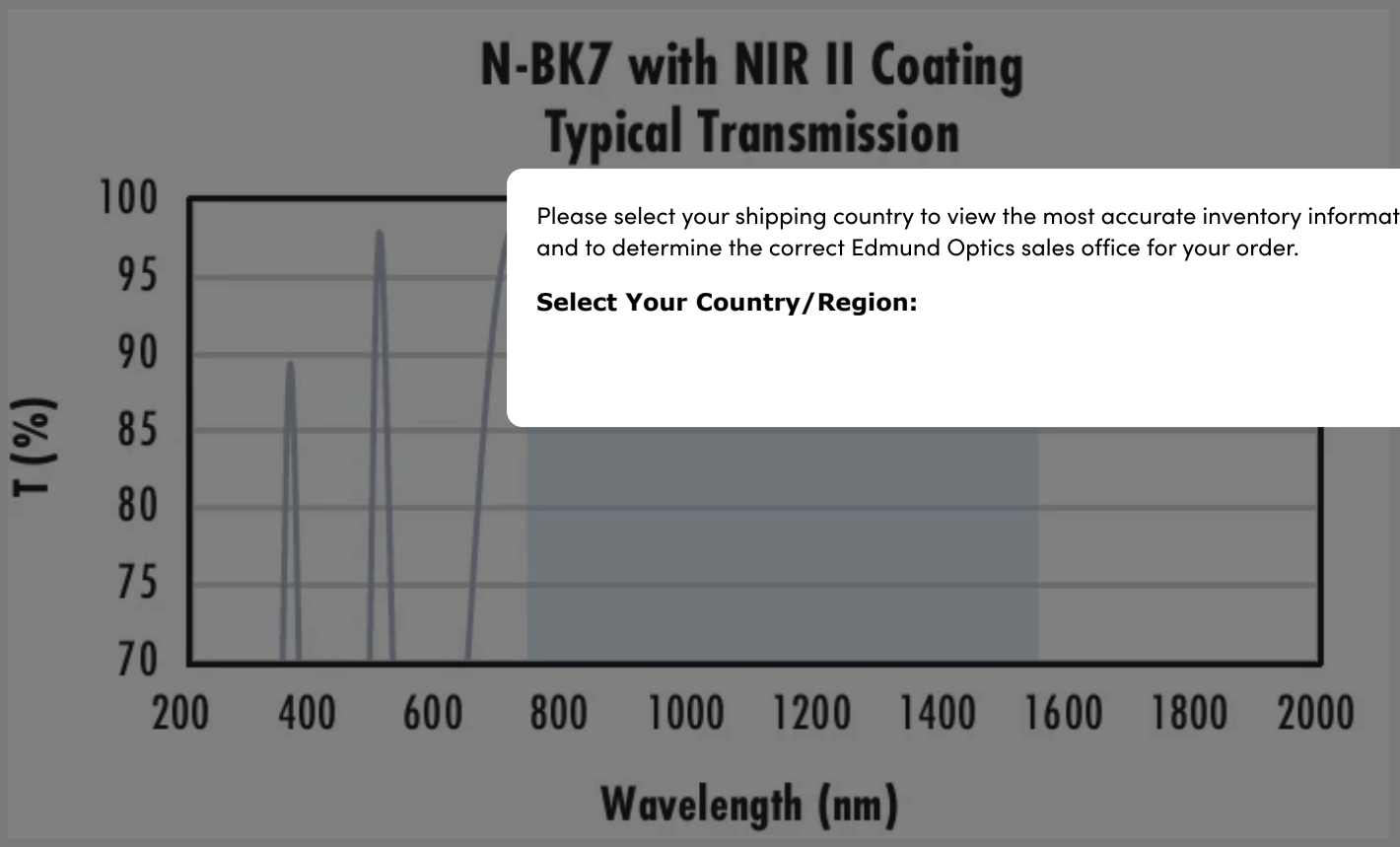

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al transmission of a 3mm thick N-BK7 window witl
II (750 - 1550nm) coating at 0° AOI.

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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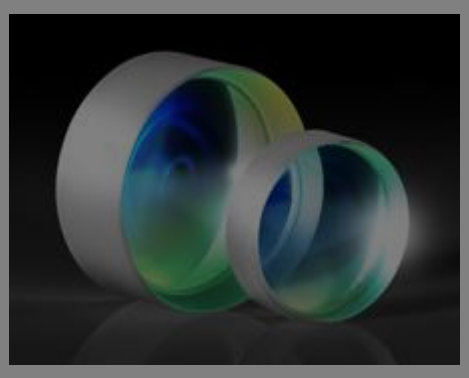
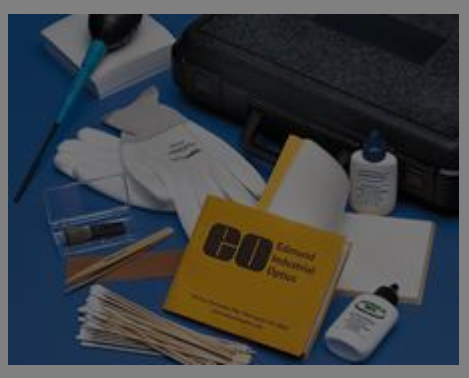
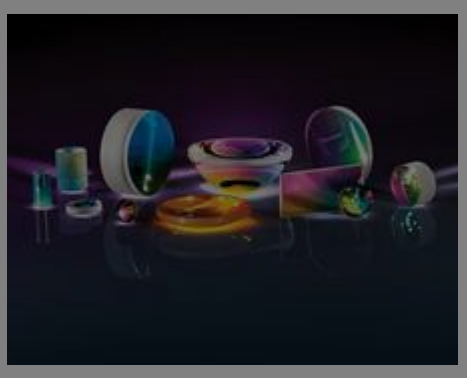


NIR I Coated Double-Concave (DCV) Lenses



Optical Cleaning

Optical Lens and Filter Mounts



Optical Lenses

Frequently Purchased Together

#33-363 - 25.0mm Dia. x 200.0mm FL, NIR II Coated, Plano-Convex Lens
€47,50
Qty

#33-369 - 25.0mm Dia. x 400.0mm FL, NIR II Coated, Plano-Convex Lens
€47,50
Qty

#33-374 - 40.0mm Dia. x 100.0mm FL, NIR I Coated, Plano-Convex Lens
€67,50
Qty

#33-380 - 40.0mm Dia. x 200.0mm FL, NIR I Coated, Plano-Convex Lens
€67,50
Qty

Compatible Mounts

	Title	Type	Compare	Stock Number	Price ☐	Buy
MORE+ 	25.0mm Optic Dia., Optic Mount	Fixed		#64-560	€32,75 Request Quote	3 In Stock 1

	Title	Type	Compare	Stock Number	Price	Buy
MORE+ 	30mm Cage 25/25.4mm Diameter Th Lens Mount				€45,75	20+ In Stock 1
MORE+ 	25.0/25.4m Dia., L-Slot Mount					15 In Stock 1
MORE+ 	25.0/25.4mm Optic Dia., Side Flange Direct Mount	Fixed		#36-414	€71,00 Request Quote	20+ In Stock 1
MORE+ 	25/25.4mm Diameter, T-Mount Thick Optic Mount	Fixed		#52-293	€72,00 Request Quote	5 In Stock 1
MORE+ 	25mm Thick Inner Pair Optic Mounts	Fixed		#11-054	€80,50 Request Quote	5 In Stock 1
MORE+ 	25/25.4mm Diameter, C-Mount Thick Optic Mount	Fixed		#56-354	€99,00 Request Quote	5 In Stock 1
MORE+ 	25.0/25.4mm Optic Dia., L-Slot and Rotation Direct Mount	Adjustable - Rotary		#36-411	€102,00 Request Quote	5 In Stock 1
MORE+ 	25.0/25.4mm Optic Dia., X-Y Translating Optic Mount	Adjustable - Linear (XY)		#62-956	€276,00 Request Quote	2 In Stock 1
MORE+ 	25.0/25.4mm Optic Dia., X-Y-Z Translating Optic Mount	Adjustable - Linear (XYZ)		#62-959	€540,00 Request Quote	6 In Stock 1
MORE+ 	25.0/25.4mm Optic Dia., 5 Axes Optical Mount	Adjustable - Linear (XYZ) & Tip-Tilt		#13-776	€755,00 Request Quote	2 In Stock 1

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

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Media Type

- [ ] Application Note
- [ ] Glossary
- [ ] Technical Tool
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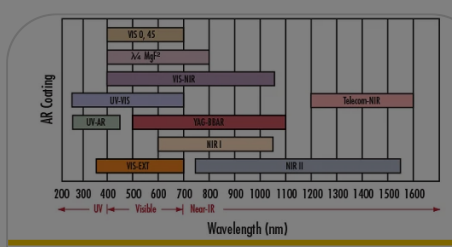
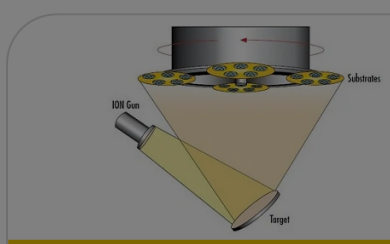


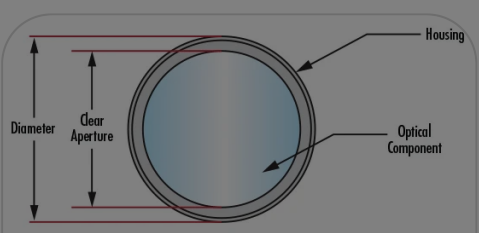
APPLICATION NOTE

Anti-Reflection (AR) Coatings



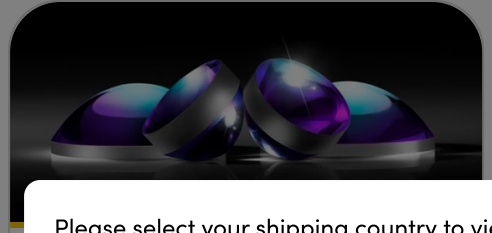
APPLICATION NOTE

An Introduction to Optical Coatings



APPLICATION NOTE

Understanding Optical Specifications



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GLOSSARY

VIS/NIR Coating

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