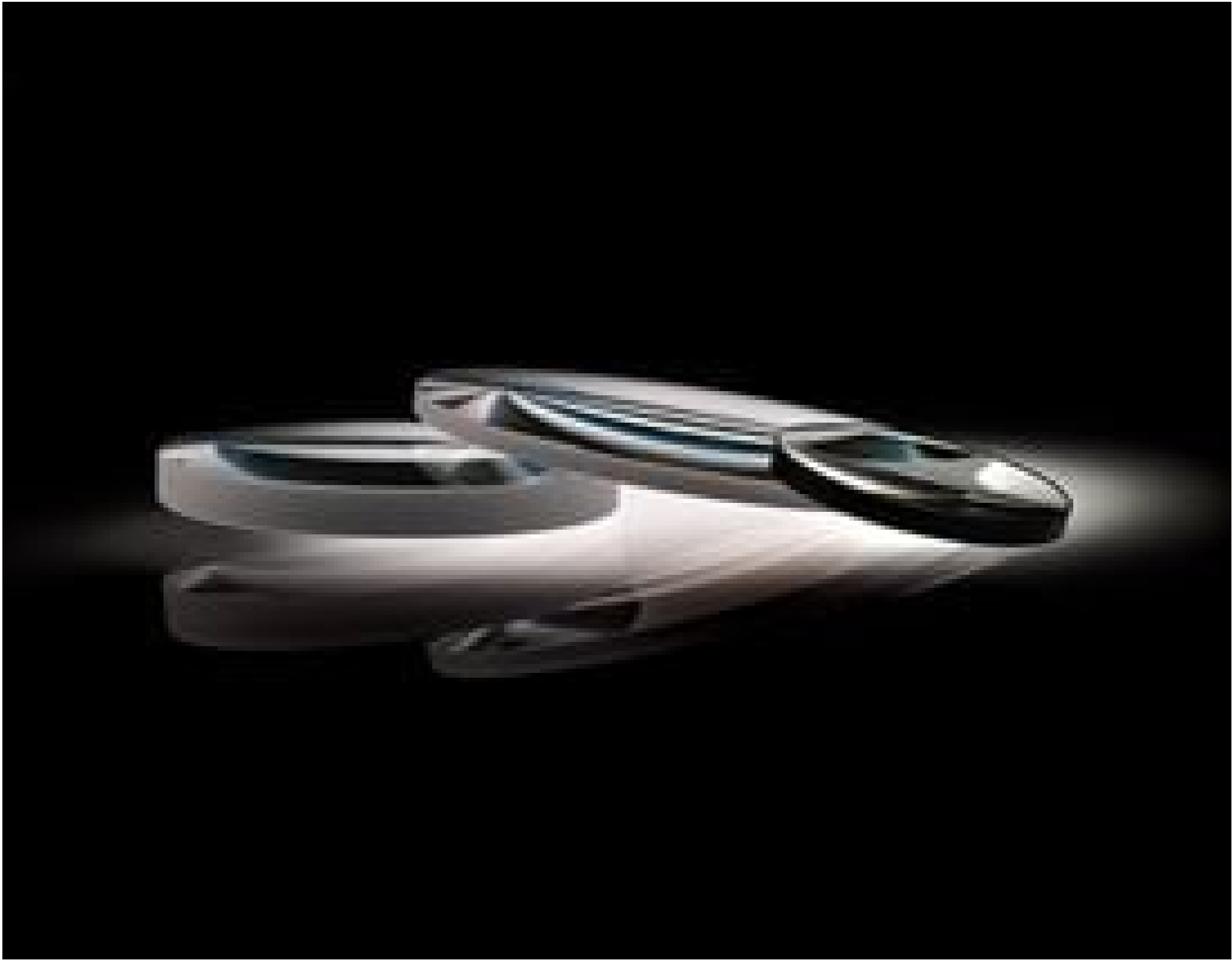


TECHSPEC[®] 40mm Dia. x 60mm FL VIS-EXT Coated, Double-Convex Lens



Stock **#89-194** **1 In Stock**

☐ [Other Coating Options](#)

-

1

+

A\$127^{.20}

ADD TO CART

Volume Pricing	
Qty 1-9	A\$127.20 each
Qty 10-24	A\$115.20 each
Qty 25-99	A\$101.60 each
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SPECIFICATIONS

General

Type:

Double-Convex Lens	
Physical & Mechanical Properties	
40.00 +0.000/-0.025	Diameter (mm):
<1	Centering (arcmin):
Protective as needed	Bevel:
8.80	Center Thickness CT (mm):
±0.10	Center Thickness Tolerance (mm):
2.00	Edge Thickness ET (mm):
39.00	Clear Aperture CA (mm):
Optical Properties	
57.1	Back Focal Length BFL (mm):
60.00	Effective Focal Length EFL (mm):
VIS-EXT (350-700nm)	Coating:
R _{avg} <0.5% @ 350 - 700nm	Coating Specification:
N-BK7	Substrate: <input type="text"/>
40-20	Surface Quality:
1.5λ	Power (P-V) @ 632.8nm:
λ/4	Irregularity (P-V) @ 632.8nm:
60.56	Radius R ₁ =R ₂ (mm):
1.5	f/#:
587.6	Focal Length Specification Wavelength (nm):
±1	Focal Length Tolerance (%):
0.33	Numerical Aperture NA:
350 - 700	Wavelength Range (nm):
Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 235:

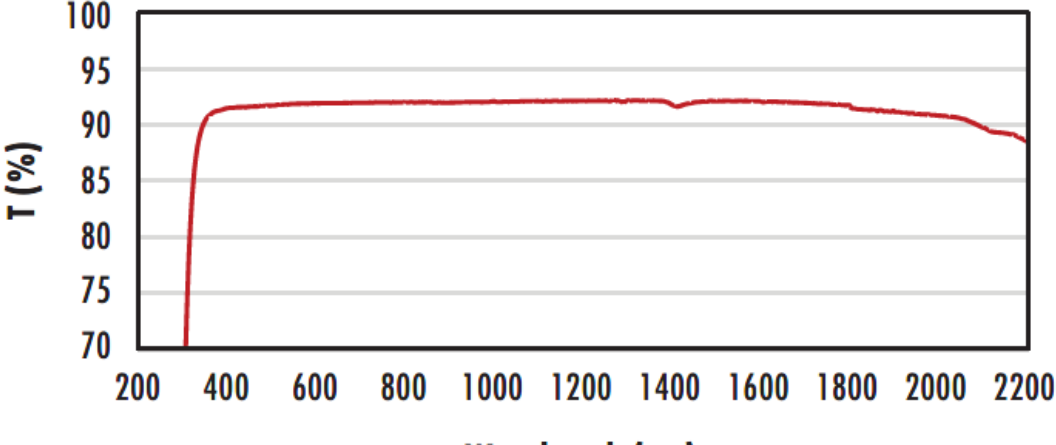
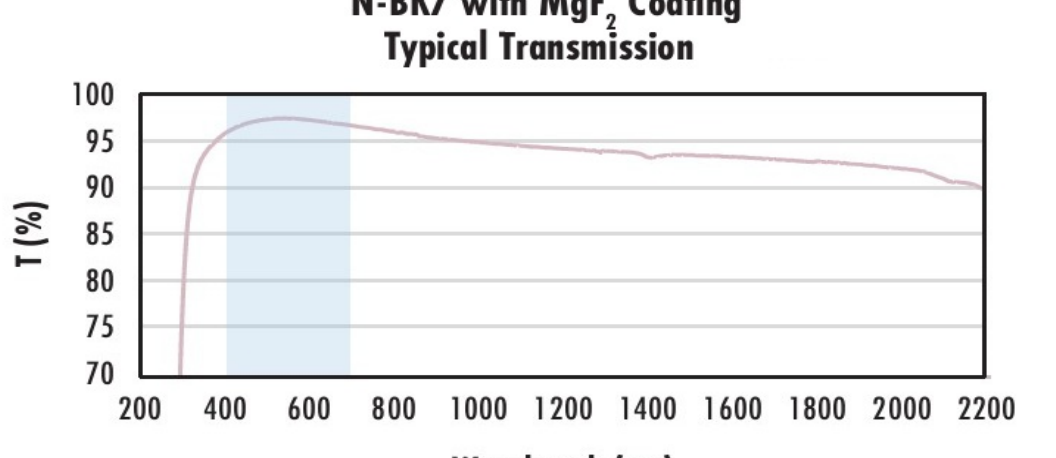
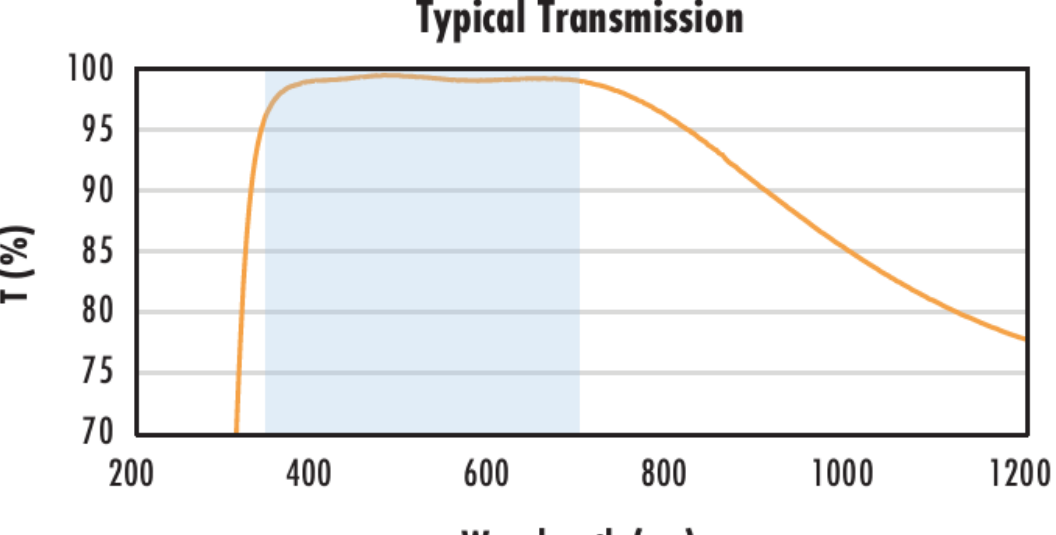
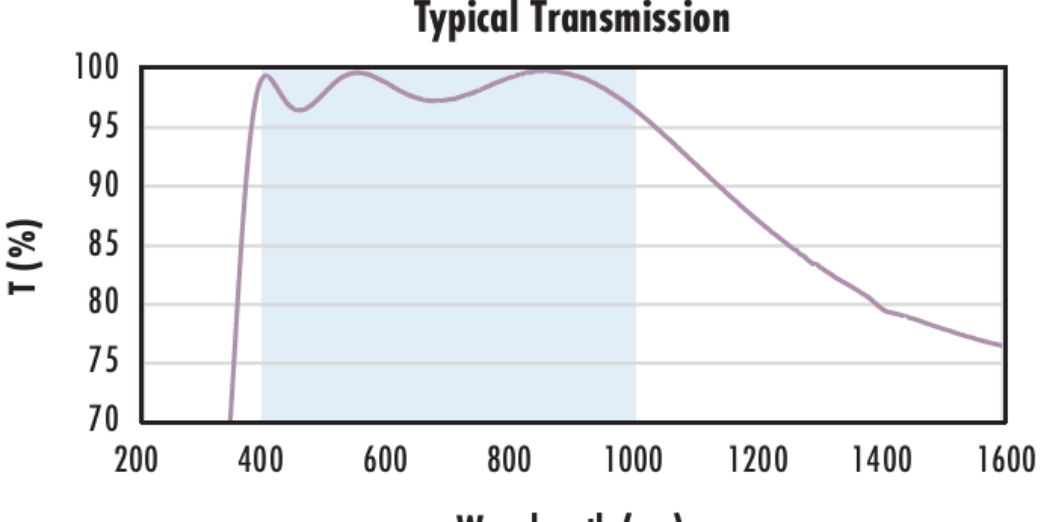
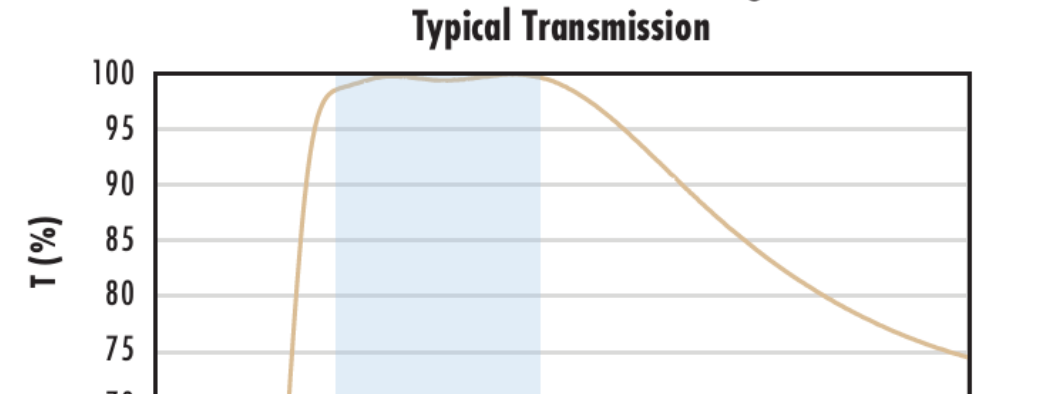
PRODUCT DETAILS

- AR Coated to Provide <0.5% Reflectance per Surface for 350 - 700nm
- Mnimize Aberrations Including Spherical and Coma
- [UV Fused Silica DCX Lenses](#) Available
- Other Coating Options Available: [Uncoated](#), [MgF₂](#), [VIS 0°](#), [NIR I](#), [NIR II](#), [VIS-NIR](#), and [YAG-BBAR](#)

TECHSPEC® VIS-EXT Coated Double-Convex (DCX) Lenses, also referred to as bi-convex lenses, have two positive, symmetrical faces with equal radii on both sides. These lenses are generally recommended for finite imaging applications with a conjugate ratio (ratio between object distance and image distance) between 0.2 and 5. At a conjugate ratio of 1, aberrations such as spherical aberration, chromatic aberration, coma, and distortion are minimized or cancelled due to the symmetric lens design. TECHSPEC VIS-EXT Coated Double-Convex Lenses are available in a variety of substrates and coating options for the visible and NIR spectra.

TECHNICAL INFORMATION

N-BK7

<div><h3>Uncoated N-BK7 Typical Transmission</h3></div>	<p>Typical transmission of a 3mm thick, uncoated N-BK7 window across the UV - NIR spectra.</p> <p>Click Here to Download Data</p>
<div><h3>N-BK7 with MgF₂ Coating Typical Transmission</h3></div>	<p>Typical transmission of a 3mm thick N-BK7 window with MgF₂ (400-700nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p>$R_{avg} \leq 1.75\% @ 400 - 700\text{nm}$ (N-BK7)</p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p>Click Here to Download Data</p>
<div><h3>N-BK7 with VIS-EXT Coating Typical Transmission</h3></div>	<p>Typical transmission of a 3mm thick N-BK7 window with VIS-EXT (350-700nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p>$R_{avg} \leq 0.5\% @ 350 - 700\text{nm}$</p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p>Click Here to Download Data</p>
<div><h3>N-BK7 with VIS-NIR Coating Typical Transmission</h3></div>	<p>Typical transmission of a 3mm thick N-BK7 window with VIS-NIR (400-1000nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p>$R_{abs} \leq 0.25\% @ 880\text{nm}$ $R_{avg} \leq 1.25\% @ 400 - 870\text{nm}$ $R_{avg} \leq 1.25\% @ 890 - 1000\text{nm}$</p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p>Click Here to Download Data</p>
<div><h3>N-BK7 with VIS 0° Coating Typical Transmission</h3></div>	<p>Typical transmission of a 3mm thick N-BK7 window with VIS 0° (425-675nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p>$R_{avg} \leq 0.4\% @ 425 - 675\text{nm}$</p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p>Click Here to Download Data</p>

<div>20040060080010001200</div> <div>Wavelength (nm)</div>	
<div><div><div>N-BK7 with YAG-BBAR Coating</div><div>Typical Transmission</div></div><div><div><div>T (%)</div><div>100959085807570</div></div><div><div><div>2004006008001000120014001600</div><div>Wavelength (nm)</div></div></div></div></div>	<div><div>Typical transmission of a 3mm thick N-BK7 window with YAG-BBAR (500-1100nm) coating at 0° AOI.</div><div>The blue shaded region indicates the coating design wavelength range, with the following specification:<div><div><div>$R_{abs} \leq 0.25\%$ @ 532nm</div><div>$R_{abs} \leq 0.25\%$ @ 1064nm</div><div>$R_{avg} \leq 1.0\%$ @ 500 - 1100nm</div></div></div><div>Data outside this range is not guaranteed and is for reference only.</div><div>Click Here to Download Data</div></div></div>
<div><div><div>N-BK7 with NIR I Coating</div><div>Typical Transmission</div></div><div><div><div>T (%)</div><div>100959085807570</div></div><div><div><div>2004006008001000120014001600</div><div>Wavelength (nm)</div></div></div></div></div>	<div><div>Typical transmission of a 3mm thick N-BK7 window with NIR I (600 - 1050nm) coating at 0° AOI.</div><div>The blue shaded region indicates the coating design wavelength range, with the following specification:<div><div>$R_{avg} \leq 0.5\%$ @ 600 - 1050nm</div></div></div><div>Data outside this range is not guaranteed and is for reference only.</div><div>Click Here to Download Data</div></div>
<div><div><div>N-BK7 with NIR II Coating</div><div>Typical Transmission</div></div><div><div><div>T (%)</div><div>100959085807570</div></div><div><div><div>200400600800100012001400160018002000</div><div>Wavelength (nm)</div></div></div></div></div>	<div><div>Typical transmission of a 3mm thick N-BK7 window with NIR II (750 - 1550nm) coating at 0° AOI.</div><div>The blue shaded region indicates the coating design wavelength range, with the following specification:<div><div><div>$R_{abs} \leq 1.5\%$ @ 750 - 800nm</div><div>$R_{abs} \leq 1.0\%$ @ 800 - 1550nm</div><div>$R_{avg} \leq 0.7\%$ @ 750 - 1550nm</div></div></div><div>Data outside this range is not guaranteed and is for reference only.</div><div>Click Here to Download Data</div></div></div>

COMPATIBLE MOUNTS