

TECHSPEC[®] 6mm Dia. x 24mm FL YAG-BBAR Coated, Inked, Double-Convex Lens



YAG-BBAR Coated Double-Convex (DCX) Lenses



Stock **#89-220-INK** [CONTACT US](#)

-

1

+

£47²⁰

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Volume Pricing	
Qty 1-9	£47.20 each
Qty 10-24	£42.40 each
Qty 25-99	£37.80 each
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Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Double-Convex Lens

Type:

Physical & Mechanical Properties

6.00 ±0.025	Diameter (mm):
<1	Centering (arcmin):
Protective as needed	Bevel:
2.60	Center Thickness CT (mm):
±0.05	Center Thickness Tolerance (mm):
2.23	Edge Thickness ET (mm):
5.4	Clear Aperture CA (mm):

Optical Properties

23.13	Back Focal Length BFL (mm):
24.00	Effective Focal Length EFL (mm):
YAG-BBAR (500-1100nm)	Coating:
R _{abs} <0.25% @ 532nm R _{abs} <0.25% @ 1064nm R _{avg} <1.0% @ 500 - 1100nm	Coating Specification:
N-BK7	Substrate: <input type="checkbox"/>
40-20	Surface Quality:
24.36	Radius R ₁ =R ₂ (mm):
4.00	f/#:
587.6	Focal Length Specification Wavelength (nm):
±1	Focal Length Tolerance (%):
0.13	Numerical Aperture NA:
350 - 2200	Wavelength Range (nm):

Regulatory Compliance

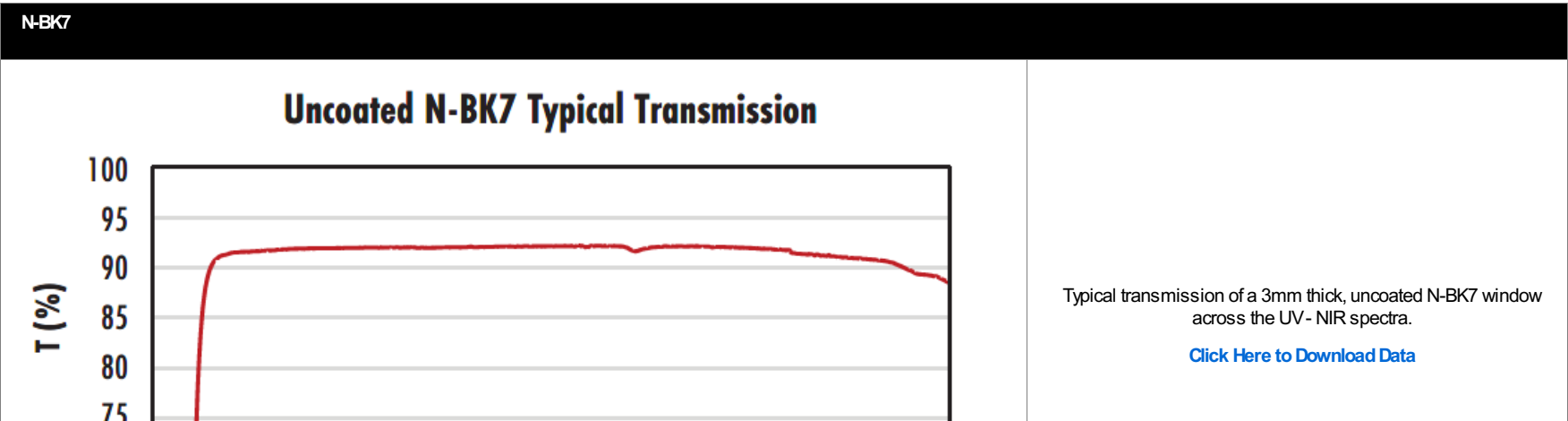
View	Certificate of Conformance:
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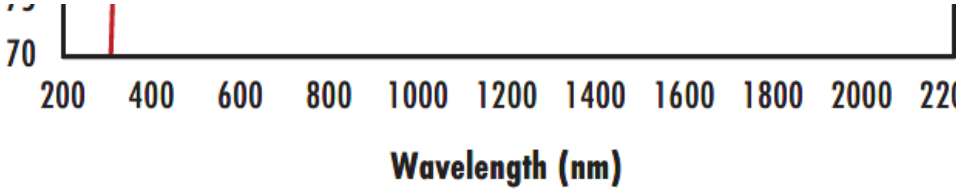
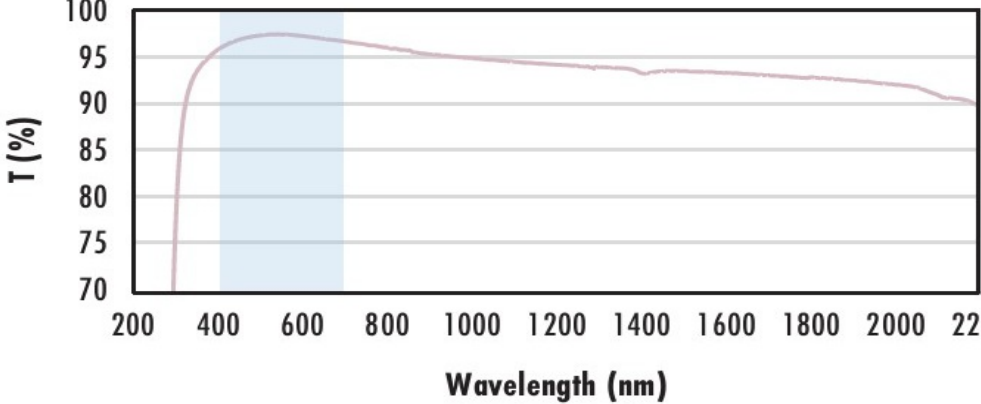
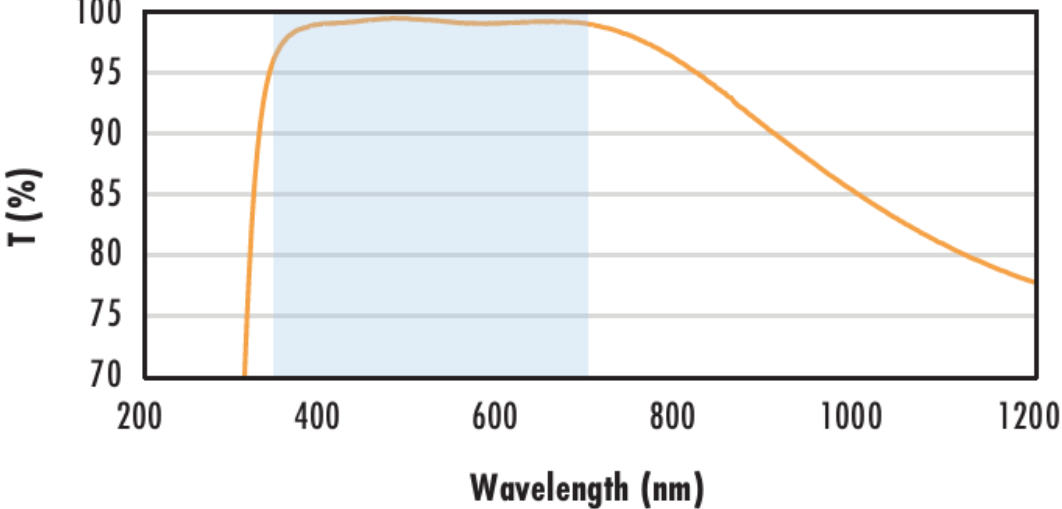
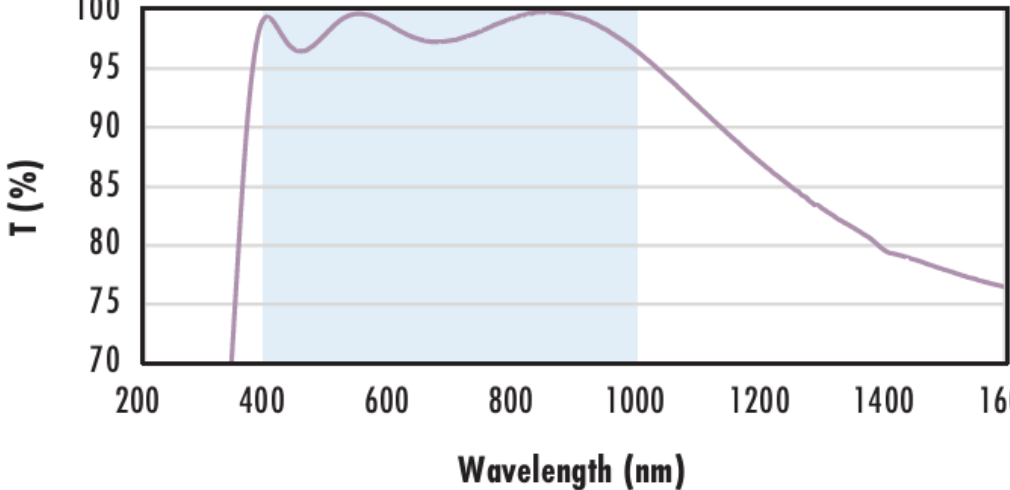
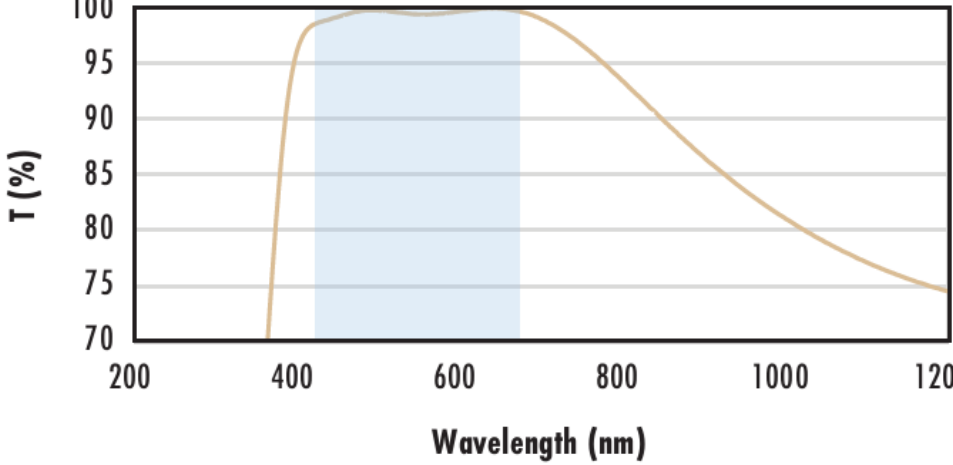

Product Details

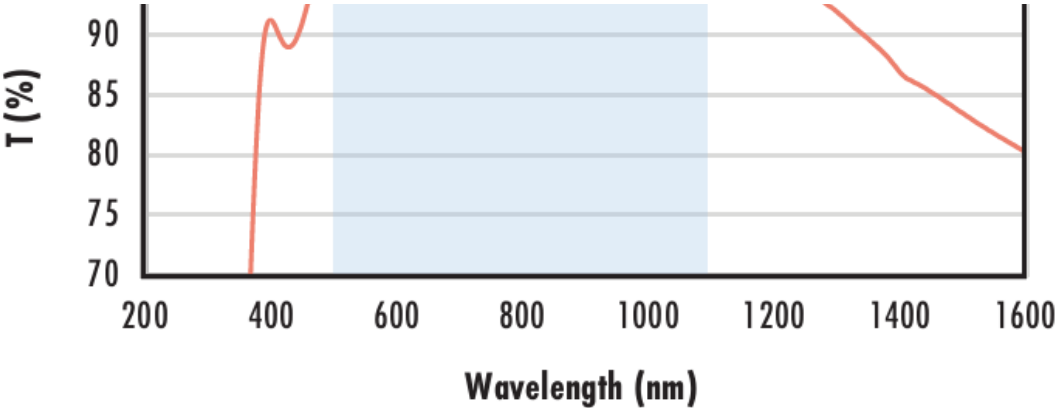
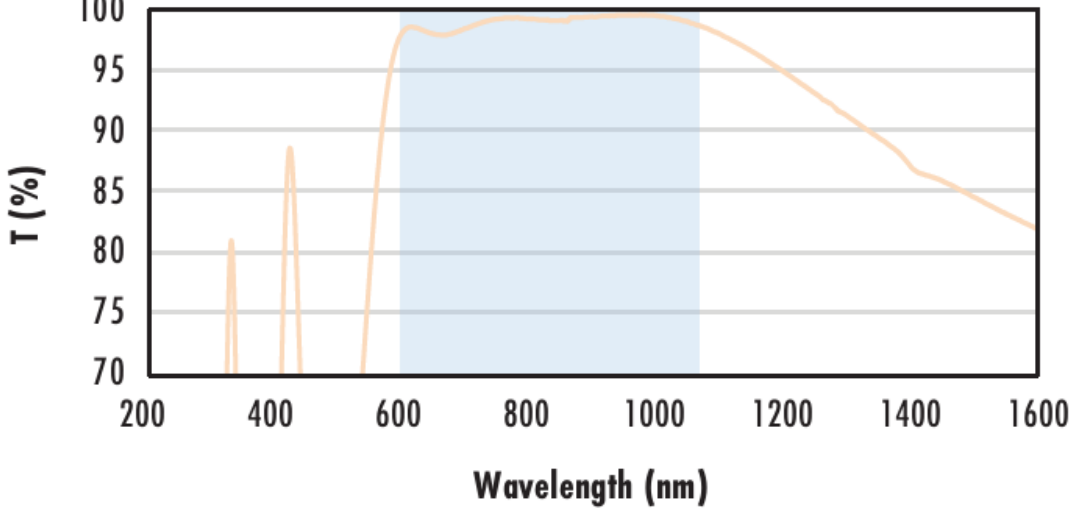
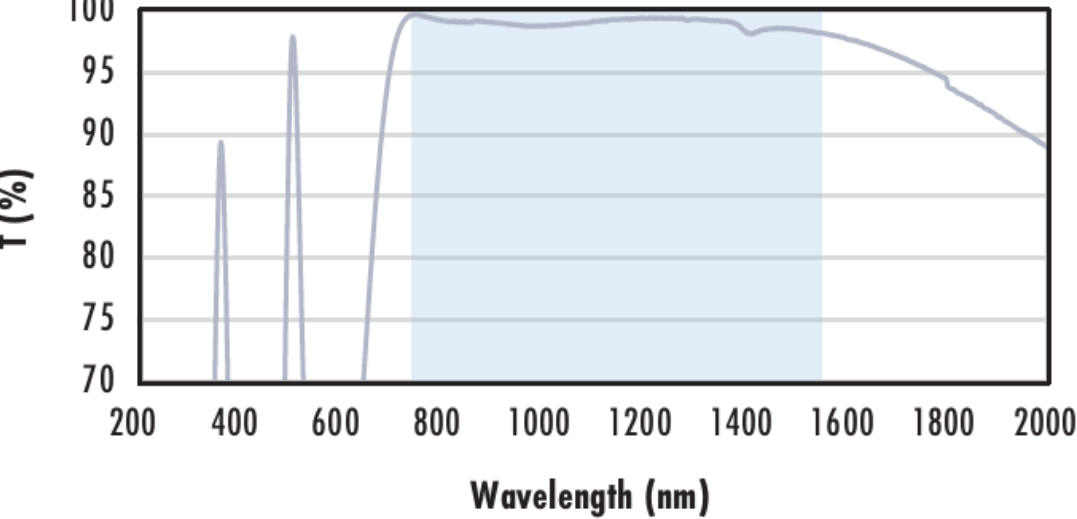
- Optimized for R<0.25% @ 532nm and 1064nm
- Minimize Aberrations Including Spherical and Coma
- UV Fused Silica DCX Lenses Available
- Other Coating Options Available: Uncoated, MgF₂, VIS 0°, NIR I, NIR II, VIS-EXT, and VIS-NIR

TECHSPEC® YAG-BBAR 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 YAG-BBAR Coated Double-Convex Lenses are available in a variety of substrates and coating options for the visible and NIR spectra.

Technical Information



	
<p data-bbox="585 320 953 403">N-BK7 with MgF₂ Coating Typical Transmission</p> 	<p data-bbox="1339 409 1843 454">Typical transmission of a 3mm thick N-BK7 window with MgF₂ (400-700nm) coating at 0° AOI.</p> <p data-bbox="1339 471 1850 516">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1436 534 1745 557">$R_{avg} \leq 1.75\% @ 400 - 700\text{nm}$ (N-BK7)</p> <p data-bbox="1339 572 1839 617">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1474 635 1709 655">Click Here to Download Data</p>
<p data-bbox="590 834 1014 928">N-BK7 with VIS-EXT Coating Typical Transmission</p> 	<p data-bbox="1331 1003 1854 1047">Typical transmission of a 3mm thick N-BK7 window with VIS-EXT (350-700nm) coating at 0° AOI.</p> <p data-bbox="1331 1065 1850 1110">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1478 1127 1703 1151">$R_{avg} \leq 0.5\% @ 350 - 700\text{nm}$</p> <p data-bbox="1339 1166 1839 1210">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1474 1228 1709 1249">Click Here to Download Data</p>
<p data-bbox="585 1475 1005 1570">N-BK7 with VIS-NIR Coating Typical Transmission</p> 	<p data-bbox="1331 1590 1854 1635">Typical transmission of a 3mm thick N-BK7 window with VIS-NIR (400-1000nm) coating at 0° AOI.</p> <p data-bbox="1331 1653 1850 1697">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1493 1715 1688 1739">$R_{abs} \leq 0.25\% @ 880\text{nm}$</p> <p data-bbox="1472 1742 1709 1765">$R_{avg} \leq 1.25\% @ 400 - 870\text{nm}$</p> <p data-bbox="1465 1768 1715 1792">$R_{avg} \leq 1.25\% @ 890 - 1000\text{nm}$</p> <p data-bbox="1339 1825 1839 1869">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1474 1887 1709 1908">Click Here to Download Data</p>
<p data-bbox="594 2098 974 2187">N-BK7 with VIS 0° Coating Typical Transmission</p> 	<p data-bbox="1339 2228 1843 2273">Typical transmission of a 3mm thick N-BK7 window with VIS 0° (425-675nm) coating at 0° AOI.</p> <p data-bbox="1331 2291 1850 2335">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1478 2353 1703 2377">$R_{avg} \leq 0.4\% @ 425 - 675\text{nm}$</p> <p data-bbox="1339 2392 1839 2436">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1474 2454 1709 2475">Click Here to Download Data</p>
<p data-bbox="569 2691 1037 2786">N-BK7 with YAG-BBAR Coating Typical Transmission</p> 	<p data-bbox="1339 2822 1843 2867">Typical transmission of a 3mm thick N-BK7 window with YAG-BBAR (500-1100nm) coating at 0° AOI.</p> <p data-bbox="1331 2881 1850 2902">The blue shaded region indicates the coating design wavelength</p>

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

Custom

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

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Compatible Mounts