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**TECHSPEC® 40mm Dia. x 60mm FL YAG-BBAR Coated, Double-Convex Lens**



YAG-BBAR Coated Double-Convex (DCX) Lenses



Stock **#89-283** [CONTACT US](#)

[Other Coating Options](#)

⊖ 1 ⊕ **A\$127<sup>20</sup>**

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Volume Pricing	
Qty 1-9	<b>A\$127.20</b> each
Qty 10-24	<b>A\$115.20</b> each
Qty 25-99	<b>A\$101.60</b> each
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**General**

Double-Convex Lens **Type:**

**Physical & Mechanical Properties**

**Diameter (mm):**

40.00 +0.0/-0.025

Centering (arcmin):  
<1

Bevel:  
Protective as needed

Center Thickness CT (mm):  
8.80

Center Thickness Tolerance (mm):  
±0.10

Edge Thickness ET (mm):  
2.00

Clear Aperture CA (mm):  
39.00

### Optical Properties

Back Focal Length BFL (mm):  
57.1

Effective Focal Length EFL (mm):  
60.00

Coating:  
YAG-BBAR (500-1100nm)

Coating Specification:  
R<sub>abs</sub> <0.25% @ 532nm  
R<sub>abs</sub> <0.25% @ 1064nm  
R<sub>avg</sub> <1.0% @ 500 - 1100nm

Substrate:   
N-BK7

Surface Quality:  
40-20

Power (P-V) @ 632.8nm:  
1.5λ

Irregularity (P-V) @ 632.8nm:  
λ/4

Radius R<sub>1</sub>=R<sub>2</sub> (mm):  
60.56

f#:  
1.5

Focal Length Specification Wavelength (nm):  
587.6

Focal Length Tolerance (%):  
±1

Numerical Aperture NA:  
0.33

Wavelength Range (nm):  
350 - 2200

Damage Threshold, By Design:   
5 J/cm<sup>2</sup> @ 532nm, 10ns

### 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

- 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](#), [MgF<sub>2</sub>](#), [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

## Technical Information

N-BK7	
<p style="text-align: center;"><b>Uncoated N-BK7 Typical Transmission</b></p> 	<p>Typical transmission of a 3mm thick, uncoated N-BK7 window across the UV - NIR spectra.</p> <p><a href="#">Click Here to Download Data</a></p>
<p style="text-align: center;"><b>N-BK7 with MgF<sub>2</sub> Coating Typical Transmission</b></p> 	<p>Typical transmission of a 3mm thick N-BK7 window with MgF<sub>2</sub> (400-700nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{avg} \leq 1.75\% @ 400 - 700\text{nm}</math> (N-BK7)</p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p>
<p style="text-align: center;"><b>N-BK7 with VIS-EXT Coating Typical Transmission</b></p> 	<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><math>R_{avg} \leq 0.5\% @ 350 - 700\text{nm}</math></p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p>
<p style="text-align: center;"><b>N-BK7 with VIS-NIR Coating Typical Transmission</b></p> 	<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><math>R_{abs} \leq 0.25\% @ 880\text{nm}</math>  <math>R_{avg} \leq 1.25\% @ 400 - 870\text{nm}</math>  <math>R_{avg} \leq 1.25\% @ 890 - 1000\text{nm}</math></p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p>
<p><b>N-BK7 with VIS 0° Coating</b></p>	



## Compatible Mounts