

TECHSPEC® 75mm Dia. x 125mm FL, YAG-BBAR Coated, Plano-Convex Lens



YAG-BBAR Coated Plano-Convex (PCX) Lenses



Stock **#72-316** **5 In Stock**

[Other Coating Options](#)

⊖ 1 ⊕ MRP ₹72,641

📌 Price inclusive of all taxes

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Volume Pricing	
Qty 1-5	₹72,641 each
Qty 6-25	₹58,516 each
Qty 26-49	₹54,481 each
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General

Plano-Convex Lens **Type:**

Physical & Mechanical Properties

75.00	Diameter (mm):
<1	Centering (arcmin):
18.00 ±0.10	Center Thickness CT (mm):
4.03	Edge Thickness ET (mm):
73.5	Clear Aperture CA (mm):
Protective as needed	Bevel:
Optical Properties	
125.00 @ 587.6	Effective Focal Length EFL (mm):
112.66	Back Focal Length BFL (mm):
YAG-BBAR (500-1100nm)	Coating:
R _{abs} <0.25% @ 532nm R _{abs} <0.25% @ 1064nm R _{avg} <1.0% @ 500 - 1100nm	Coating Specification:
Fused Silica (Corning 7980)	Substrate: <input type="checkbox"/>
40-20	Surface Quality:
3λ	Power (P-V) @ 632.8nm:
λ/2	Irregularity (P-V) @ 632.8nm:
±1	Focal Length Tolerance (%):
57.31	Radius R₁ (mm):
1.66	f#:
0.30	Numerical Aperture NA:
500 - 1100	Wavelength Range (nm):
5 J/cm ² @ 532nm, 10ns	Damage Threshold, Reference: <input type="checkbox"/>

Regulatory Compliance

View	Certificate of Conformance:
Italy	Country of Origin:
Edmund Optics India Private Limited 267, Greystone Building, Second Floor, 6th Cross Rd, Binnamangala, Stage 1, Indiranagar, Bengaluru, Karnataka, India 560038 Phone: +91-80-6845 0000	Imported By:

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% @ Both 532nm and 1064nm
- AR Coated to Provide <1.0% Reflectance per Surface for 500 - 1100nm
- Designed for 0° Angle of Incidence
- Various PCX Coating Options: [Uncoated](#), [MgF₂](#), [VIS 0°](#), [VIS-NIR](#), [NIR I](#), [NIR II](#), and [VIS-EXT](#)

TECHSPEC® YAG-BBAR 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,

Technical Information



N-BK7	
<p style="text-align: center;">Uncoated N-BK7 Typical Transmission</p> <p>The graph shows the typical transmission of a 3mm thick, uncoated N-BK7 window. The Y-axis is Transmission T (%) from 70 to 100. The X-axis is Wavelength (nm) from 200 to 2200. The transmission is low (around 70%) at 200 nm, rises sharply to about 92% by 400 nm, and remains relatively constant between 90% and 92% up to 2200 nm.</p>	<p>Typical transmission of a 3mm thick, uncoated N-BK7 window across the UV - NIR spectra.</p> <p>Click Here to Download Data</p>
<p style="text-align: center;">N-BK7 with MgF₂ Coating Typical Transmission</p> <p>The graph shows the typical transmission of a 3mm thick N-BK7 window with MgF₂ (400-700nm) coating at 0° AOI. The Y-axis is Transmission T (%) from 70 to 100. The X-axis is Wavelength (nm) from 200 to 2200. A blue shaded region highlights the design wavelength range from approximately 350 nm to 750 nm. The transmission is low at 200 nm, rises to about 95% at 400 nm, and remains high (above 90%) throughout the visible spectrum.</p>	<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>
<p style="text-align: center;">N-BK7 with VIS-EXT Coating Typical Transmission</p> <p>The graph shows the typical transmission of a 3mm thick N-BK7 window with VIS-EXT (350-700nm) coating at 0° AOI. The Y-axis is Transmission T (%) from 70 to 100. The X-axis is Wavelength (nm) from 200 to 1200. A blue shaded region highlights the design wavelength range from approximately 350 nm to 700 nm. The transmission is low at 200 nm, rises to about 95% at 350 nm, and remains high (above 90%) up to 700 nm, then gradually decreases.</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>$R_{avg} \leq 0.5\% @ 350 - 700\text{nm}$</p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p>Click Here to Download Data</p>
<p style="text-align: center;">N-BK7 with VIS-NIR Coating Typical Transmission</p> <p>The graph shows the typical transmission of a 3mm thick N-BK7 window with VIS-NIR (400-1000nm) coating at 0° AOI. The Y-axis is Transmission T (%) from 80 to 100. The X-axis is Wavelength (nm) from 200 to 1200. A blue shaded region highlights the design wavelength range from approximately 350 nm to 850 nm. The transmission is low at 200 nm, rises to about 95% at 350 nm, and remains high (above 90%) up to 850 nm, then gradually decreases.</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>$R_{abs} \leq 0.25\% @ 880\text{nm}$ $R_{avg} \leq 1.25\% @ 400 - 870\text{nm}$ $R_{avg} \leq 1.25\% @ 890 - 1000\text{nm}$</p>



Data outside this range is not guaranteed and is for reference only.

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**N-BK7 with VIS 0° Coating
Typical Transmission**



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

The blue shaded region indicates the coating design wavelength range, with the following specification:

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

Data outside this range is not guaranteed and is for reference only.

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**N-BK7 with YAG-BBAR Coating
Typical Transmission**



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

The blue shaded region indicates the coating design wavelength range, with the following specification:

$$R_{abs} \leq 0.25\% @ 532\text{nm}$$

$$R_{abs} \leq 0.25\% @ 1064\text{nm}$$

$$R_{avg} \leq 1.0\% @ 500 - 1100\text{nm}$$

Data outside this range is not guaranteed and is for reference only.

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**N-BK7 with NIR I Coating
Typical Transmission**



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

The blue shaded region indicates the coating design wavelength range, with the following specification:

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

Data outside this range is not guaranteed and is for reference only.

[Click Here to Download Data](#)

**N-BK7 with NIR II Coating
Typical Transmission**



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

The blue shaded region indicates the coating design wavelength range, with the following specification:

$$R_{abs} \leq 1.5\% @ 750 - 800\text{nm}$$

$$R_{abs} \leq 1.0\% @ 800 - 1550\text{nm}$$

$$R_{avg} \leq 0.7\% @ 750 - 1550\text{nm}$$

Data outside this range is not guaranteed and is for reference only.

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