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TECHSPEC<sup>®</sup> 50.0mm Dia. x 500.0mm FL, YAG-BBAR, Inked, Plano-Convex Lens



YAG-BBAR Coated Plano-Convex (PCX) Lenses



Stock **#88-926-INK** **1 In Stock**

☐ [Other Coating Options](#)

-

1

+

A\$141<sup>00</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-9        | A\$141.60 each                |
| Qty 10-24      | A\$127.20 each                |
| Qty 25-49      | A\$113.60 each                |
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Product Downloads

General

Plano-Convex Lens

Type:

Physical & Mechanical Properties

Diameter (mm):

|                           |                      |
|---------------------------|----------------------|
| 50.00 ±0.025              |                      |
| Centering (arcmin):       | <1                   |
| Center Thickness CT (mm): | 5.00 ±0.10           |
| Edge Thickness ET (mm):   | 3.79                 |
| Clear Aperture CA (mm):   | 49                   |
| Bevel:                    | Protective as needed |

|                                                       |                                                                                                              |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Optical Properties                                    |                                                                                                              |
| Effective Focal Length EFL (mm):                      | 500.00 @587.6nm                                                                                              |
| Back Focal Length BFL (mm):                           | 496.70                                                                                                       |
| Coating:                                              | YAG-BBAR (500-1100nm)                                                                                        |
| Coating Specification:                                | R <sub>abs</sub> <0.25% @ 532nm<br>R <sub>abs</sub> <0.25% @ 1064nm<br>R <sub>avg</sub> <1.0% @ 500 - 1100nm |
| Substrate: <input type="checkbox"/>                   | N-BK7                                                                                                        |
| Surface Quality:                                      | 40-20                                                                                                        |
| Power (P-V) @ 632.8nm:                                | 1.5λ                                                                                                         |
| Irregularity (P-V) @ 632.8nm:                         | λ/4                                                                                                          |
| Focal Length Tolerance (%):                           | ±1                                                                                                           |
| Radius R <sub>1</sub> (mm):                           | 258.40                                                                                                       |
| f##:                                                  | 10                                                                                                           |
| Numerical Aperture NA:                                | 0.05                                                                                                         |
| Wavelength Range (nm):                                | 500 - 1100                                                                                                   |
| Damage Threshold, By Design: <input type="checkbox"/> | 5 J/cm² @ 532nm, 10ns                                                                                        |

|                             |                      |
|-----------------------------|----------------------|
| Regulatory Compliance       |                      |
| Certificate of Conformance: | <a href="#">View</a> |

## 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](#), [MgF<sub>2</sub>](#), [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, detectors, lasers, and fiber optics. TECHSPEC® YAG-BBAR Coated Plano-Convex (PCX) Lenses are available in a wide variety of diameters and focal lengths. Identical designs of these PCX lenses are also offered [uncoated](#) or with broadband anti-reflective (BBAR) coatings, which include [MgF<sub>2</sub>](#), [VIS 0°](#), [VIS-NIR](#), [NIR I](#), [NIR II](#), and [VIS-EXT](#).

## Technical Information



| N-BK7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                            |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                               |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <div><h3>Uncoated N-BK7 Typical Transmission</h3><table border="1"><thead><tr><th>Wavelength (nm)</th><th>Typical Transmission T (%)</th></tr></thead><tbody><tr><td>200</td><td>~70</td></tr><tr><td>300</td><td>~70</td></tr><tr><td>400</td><td>~92</td></tr><tr><td>600</td><td>~92</td></tr><tr><td>800</td><td>~92</td></tr><tr><td>1000</td><td>~92</td></tr><tr><td>1200</td><td>~92</td></tr><tr><td>1400</td><td>~92</td></tr><tr><td>1600</td><td>~92</td></tr><tr><td>1800</td><td>~92</td></tr><tr><td>2000</td><td>~92</td></tr><tr><td>2200</td><td>~88</td></tr></tbody></table></div>                     | Wavelength (nm)            | Typical Transmission T (%) | 200 | ~70 | 300 | ~70 | 400 | ~92 | 600 | ~92 | 800 | ~92 | 1000 | ~92 | 1200 | ~92 | 1400 | ~92 | 1600                                                                                                                                                                                                                                                                                                                                                                                                          | ~92 | 1800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ~92 | 2000 | ~92 | 2200 | ~88 | <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>                                                                                                                                                                                                                                                                   |
| Wavelength (nm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Typical Transmission T (%) |                            |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                               |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| 600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ~92                        |                            |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                               |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| 1600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ~92                        |                            |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                               |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <div><h3>N-BK7 with MgF<sub>2</sub> Coating Typical Transmission</h3><table border="1"><thead><tr><th>Wavelength (nm)</th><th>Typical Transmission T (%)</th></tr></thead><tbody><tr><td>200</td><td>~70</td></tr><tr><td>300</td><td>~70</td></tr><tr><td>400</td><td>~98</td></tr><tr><td>600</td><td>~98</td></tr><tr><td>800</td><td>~98</td></tr><tr><td>1000</td><td>~98</td></tr><tr><td>1200</td><td>~98</td></tr><tr><td>1400</td><td>~98</td></tr><tr><td>1600</td><td>~98</td></tr><tr><td>1800</td><td>~98</td></tr><tr><td>2000</td><td>~98</td></tr><tr><td>2200</td><td>~90</td></tr></tbody></table></div> | Wavelength (nm)            | Typical Transmission T (%) | 200 | ~70 | 300 | ~70 | 400 | ~98 | 600 | ~98 | 800 | ~98 | 1000 | ~98 | 1200 | ~98 | 1400 | ~98 | 1600                                                                                                                                                                                                                                                                                                                                                                                                          | ~98 | 1800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ~98 | 2000 | ~98 | 2200 | ~90 | <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><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> |
| Wavelength (nm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Typical Transmission T (%) |                            |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                               |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <div><h3>N-BK7 with VIS-EXT Coating Typical Transmission</h3><table border="1"><thead><tr><th>Wavelength (nm)</th><th>Typical Transmission T (%)</th></tr></thead><tbody><tr><td>200</td><td>~70</td></tr><tr><td>300</td><td>~70</td></tr><tr><td>400</td><td>~98</td></tr><tr><td>600</td><td>~98</td></tr><tr><td>700</td><td>~98</td></tr><tr><td>800</td><td>~95</td></tr><tr><td>1000</td><td>~85</td></tr><tr><td>1200</td><td>~78</td></tr></tbody></table></div>                                                                                                                                                  | Wavelength (nm)            | Typical Transmission T (%) | 200 | ~70 | 300 | ~70 | 400 | ~98 | 600 | ~98 | 700 | ~98 | 800  | ~95 | 1000 | ~85 | 1200 | ~78 | <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> |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| 1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ~85                        |                            |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                               |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 1200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ~78                        |                            |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                               |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <div><h3>N-BK7 with VIS-NIR Coating Typical Transmission</h3><table border="1"><thead><tr><th>Wavelength (nm)</th><th>Typical Transmission T (%)</th></tr></thead><tbody><tr><td>200</td><td>~70</td></tr><tr><td>300</td><td>~70</td></tr><tr><td>400</td><td>~98</td></tr><tr><td>600</td><td>~98</td></tr><tr><td>800</td><td>~98</td></tr><tr><td>1000</td><td>~98</td></tr><tr><td>1200</td><td>~85</td></tr><tr><td>1400</td><td>~78</td></tr><tr><td>1600</td><td>~76</td></tr></tbody></table></div>                                                                                                               | Wavelength (nm)            | Typical Transmission T (%) | 200 | ~70 | 300 | ~70 | 400 | ~98 | 600 | ~98 | 800 | ~98 | 1000 | ~98 | 1200 | ~85 | 1400 | ~78 | 1600                                                                                                                                                                                                                                                                                                                                                                                                          | ~76 | <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><br/><math>R_{avg} \leq 1.25\% @ 400 - 870\text{nm}</math><br/><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> |     |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Wavelength (nm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Typical Transmission T (%) |                            |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                               |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ~70                        |                            |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                               |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ~70                        |                            |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                               |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ~98                        |                            |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                               |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ~98                        |                            |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                               |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ~98                        |                            |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                               |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ~98                        |                            |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                               |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 1200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ~85                        |                            |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                               |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 1400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ~78                        |                            |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                               |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 1600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ~76                        |                            |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                               |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |      |     |      |     |                                                                                                                                                                                                                                                                                                                                                                                                                     |



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:

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

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

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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:

$$R_{\text{abs}} \leq 0.25\% \text{ @ } 532\text{nm}$$
$$R_{\text{abs}} \leq 0.25\% \text{ @ } 1064\text{nm}$$
$$R_{\text{avg}} \leq 1.0\% \text{ @ } 500 - 1100\text{nm}$$

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

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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:

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

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

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Typical transmission of a 1mm 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:

$$R_{\text{abs}} \leq 1.5\% \text{ @ } 750 - 800\text{nm}$$
$$R_{\text{abs}} \leq 1.0\% \text{ @ } 800 - 1550\text{nm}$$
$$R_{\text{avg}} \leq 0.7\% \text{ @ } 750 - 1550\text{nm}$$

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

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## Compatible Mounts