

TECHSPEC<sup>®</sup> 12.0mm Dia. x 50mm FL, VIS-NIR Coated, Plano-Convex Lens



Stock **#38-496** **5 In Stock**

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-

1

+

C\$70<sup>.00</sup>

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General

Type:  
Plano-Convex Lens

Physical & Mechanical Properties

Diameter (mm):  
12.00 +0.0/-0.025

|                      |                           |
|----------------------|---------------------------|
| <1                   | Centering (arcmin):       |
| 1.90 ±0.05           | Center Thickness CT (mm): |
| 1.19                 | Edge Thickness ET (mm):   |
| 11                   | Clear Aperture CA (mm):   |
| Protective as needed | Bevel:                    |

|                                                                                                                    |                                  |
|--------------------------------------------------------------------------------------------------------------------|----------------------------------|
| Optical Properties                                                                                                 |                                  |
| 50.00 @ 587.6nm                                                                                                    | Effective Focal Length EFL (mm): |
| 48.75                                                                                                              | Back Focal Length BFL (mm):      |
| VIS-NIR (400-1000nm)                                                                                               | Coating:                         |
| R <sub>abs</sub> ≤0.25% @ 880nm<br>R <sub>avg</sub> ≤1.25% @ 400 - 870nm<br>R <sub>avg</sub> ≤1.25% @ 890 - 1000nm | Coating Specification:           |
| N-BK7                                                                                                              | Substrate: □                     |
| 40-20                                                                                                              | Surface Quality:                 |
| 1.5λ                                                                                                               | Power (P-V) @ 632.8nm:           |
| λ/4                                                                                                                | Irregularity (P-V) @ 632.8nm:    |
| ±1                                                                                                                 | Focal Length Tolerance (%):      |
| 25.84                                                                                                              | Radius R <sub>1</sub> (mm):      |
| 4.17                                                                                                               | f/#:                             |
| 0.12                                                                                                               | Numerical Aperture NA:           |
| 400 - 1000                                                                                                         | Wavelength Range (nm):           |
| 5 J/cm² @ 532nm, 10ns                                                                                              | Damage Threshold, By Design: □   |

|                       |                             |
|-----------------------|-----------------------------|
| Regulatory Compliance |                             |
| Compliant             | RoHS 2015:                  |
| View                  | Certificate of Conformance: |
| Compliant             | Reach 235:                  |

## Product Details

- AR Coated to Provide <1.25% Reflectance per Surface for 400 - 1000nm
  - <0.25% Reflectance @ 880nm
  - Designed for 0° Angle of Incidence
  - Various PCX Coating Options: [Uncoated](#), [MgF<sub>2</sub>](#), [VIS 0°](#), [NIR I](#), [NIR II](#), [VIS-EXT](#), and [YAG-BBAR](#)
- TECHSPEC® VIS-NIR 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. Plano-Convex lenses are ideal for a multitude of optics and photonics applications, including biotech instruments such as DNA sequencers and polymerase chain reaction (PCR) testing platforms. TECHSPEC® VIS-NIR 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°](#), [NIR I](#), [NIR II](#), [VIS-EXT](#), and [YAG-BBAR](#).
- These coated lenses are optimized for a wide range of optics and photonics applications, including biotech instruments such as DNA sequencers and polymerase chain reaction (PCR) testing platforms.

## Technical Information



| <div>Uncoated N-BK7 Typical Transmission</div> <table><tr><th>Wavelength (nm)</th><th>T (%)</th></tr><tr><td>200</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>90</td></tr></table>                     | Wavelength (nm) | T (%) | 200 | 70 | 400 | 92 | 600 | 92 | 800 | 92 | 1000 | 92 | 1200 | 92 | 1400                                                                                                                                                                                                                                                                                                                                                                                                          | 92 | 1600 | 92 | 1800 | 92 | 2000 | 92 | 2200 | 90 | <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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | T (%)           |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 70              |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 92              |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 92              |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 92              |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 92              |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 92              |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 92              |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 92              |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 92              |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 92              |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 2200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 90              |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <div>N-BK7 with MgF<sub>2</sub> Coating Typical Transmission</div> <table><tr><th>Wavelength (nm)</th><th>T (%)</th></tr><tr><td>200</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></table> | Wavelength (nm) | T (%) | 200 | 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 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> |
| Wavelength (nm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | T (%)           |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 70              |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 98              |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 98              |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 98              |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| 1200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 98              |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| 1600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 98              |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <div>N-BK7 with VIS-EXT Coating Typical Transmission</div> <table><tr><th>Wavelength (nm)</th><th>T (%)</th></tr><tr><td>200</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>78</td></tr></table>                                                                                                                                                                              | Wavelength (nm) | T (%) | 200 | 70 | 400 | 98 | 600 | 98 | 800 | 98 | 1000 | 98 | 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> |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Wavelength (nm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | T (%)           |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 70              |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <div>N-BK7 with VIS-NIR Coating Typical Transmission</div> <table><tr><th>Wavelength (nm)</th><th>T (%)</th></tr><tr><td>200</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>78</td></tr></table>                                                                                                                                                                              | Wavelength (nm) | T (%) | 200 | 70 | 400 | 98 | 600 | 98 | 800 | 98 | 1000 | 98 | 1200 | 78 | <p>Typical transmission of a 3mm thick N-BK7 window with VIS-NIR (400-1000nm) coating at 0° AOI.</p>                                                                                                                                                                                                                                                                                                          |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Wavelength (nm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | T (%)           |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 70              |       |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
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|                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                               | <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{abs} \leq 0.25\% @ 880nm</math><br/><math>R_{avg} \leq 1.25\% @ 400 - 870nm</math><br/><math>R_{avg} \leq 1.25\% @ 890 - 1000nm</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><br/><b>Typical Transmission</b></p>     | <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><math>R_{avg} \leq 0.4\% @ 425 - 675nm</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 YAG-BBAR Coating</b><br/><b>Typical Transmission</b></p>  | <p>Typical transmission of a 3mm thick N-BK7 window with YAG-BBAR (500-1100nm) 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\% @ 532nm</math><br/><math>R_{abs} \leq 0.25\% @ 1064nm</math><br/><math>R_{avg} \leq 1.0\% @ 500 - 1100nm</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 NIR I Coating</b><br/><b>Typical Transmission</b></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><math>R_{avg} \leq 0.5\% @ 600 - 1050nm</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 NIR II Coating</b><br/><b>Typical Transmission</b></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><math>R_{abs} \leq 1.5\% @ 750 - 800nm</math><br/><math>R_{abs} \leq 1.0\% @ 800 - 1550nm</math><br/><math>R_{avg} \leq 0.7\% @ 750 - 1550nm</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> |



Coating Curves

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:

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- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

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Compatible Mounts