

TECHSPEC<sup>®</sup> 9.0mm Dia. x 10mm FL, MgF<sub>2</sub> Coated, Plano-Convex Lens



Stock **#38-218** 20+ In Stock

☐ Other Coating Options

-

1

+

A\$62<sup>.80</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-9        | A\$62.80 each                 |
| Qty 10-24      | A\$56.00 each                 |
| Qty 25-49      | A\$50.40 each                 |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

General

Type:  
Plano-Convex Lens

Physical & Mechanical Properties

Diameter (mm):  
9.00 +0.0/-0.025

|                      |                           |
|----------------------|---------------------------|
| <3                   | Centering (arcmin):       |
| 2.70 ±0.05           | Center Thickness CT (mm): |
| 1.28                 | Edge Thickness ET (mm):   |
| 8.1                  | Clear Aperture CA (mm):   |
| Protective as needed | Bevel:                    |

|                                       |                                  |
|---------------------------------------|----------------------------------|
| Optical Properties                    |                                  |
| 10.00 @ 587.6nm                       | Effective Focal Length EFL (mm): |
| 8.49                                  | Back Focal Length BFL (mm):      |
| MgF <sub>2</sub> (400-700nm)          | Coating:                         |
| R <sub>avg</sub> ≤1.75% @ 400 - 700nm | Coating Specification:           |
| N-SF11                                | Substrate: □                     |
| 40-20                                 | Surface Quality:                 |
| 1.5λ                                  | Power (P-V) @ 632.8nm:           |
| λ/4                                   | Irregularity (P-V) @ 632.8nm:    |
| ±1                                    | Focal Length Tolerance (%):      |
| 7.85                                  | Radius R <sub>1</sub> (mm):      |
| 1.11                                  | f/#:                             |
| 0.45                                  | Numerical Aperture NA:           |
| 400 - 700                             | Wavelength Range (nm):           |
| 10 J/cm <sup>2</sup> @ 532nm, 10ns    | Damage Threshold, By Design: □   |

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

Product Details

• AR Coated to Provide <1.75% Reflectance per Surface for 400 - 700nm

• Designed for 0° Angle of Incidence

• Various PCX Coating Options: [Uncoated](#), [VIS 0°](#), [VIS-NIR](#), [NIR I](#), [NIR II](#), [VIS-EXT](#), and [YAG-BBAR](#)

• Also Available [Pre-Mounted in Engraved C-Mount Housings](#)

TECHSPEC® MgF2 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® MgF2 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 [VIS 0°](#), [VIS-NIR](#), [NIR I](#), [NIR II](#), [VIS-EXT](#), and [YAG-BBAR](#).

Technical Information



| N-BK7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <div><h3>Uncoated N-BK7 Typical Transmission</h3><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></div>                                                                                                                                                                                                                                                                               |  |
| <div><h3>N-BK7 with MgF<sub>2</sub> Coating Typical Transmission</h3><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>R<sub>avg</sub> ≤ 1.75% @ 400 - 700nm (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></div> |  |
| <div><h3>N-BK7 with VIS-EXT Coating Typical Transmission</h3><p>Typical transmission of a 3mm thick N-BK7 window with VIS-EXT (350-700nm) coating at 0° AOI.</p><p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p><p>R<sub>avg</sub> ≤ 0.5% @ 350 - 700nm</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></div>                          |  |

|                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div><div><div>N-BK7 with VIS-NIR Coating</div><div>Typical Transmission</div></div><div></div></div>    | <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> <div><div><math>R_{abs} \leq 0.25\% \text{ @ } 880\text{nm}</math></div><div><math>R_{avg} \leq 1.25\% \text{ @ } 400 - 870\text{nm}</math></div><div><math>R_{avg} \leq 1.25\% \text{ @ } 890 - 1000\text{nm}</math></div></div> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p> |
| <div><div><div>N-BK7 with VIS 0° Coating</div><div>Typical Transmission</div></div><div></div></div>    | <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> <div><div><math>R_{avg} \leq 0.4\% \text{ @ } 425 - 675\text{nm}</math></div></div> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p>                                                                                                                                                 |
| <div><div><div>N-BK7 with YAG-BBAR Coating</div><div>Typical Transmission</div></div><div></div></div> | <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> <div><div><math>R_{abs} \leq 0.25\% \text{ @ } 532\text{nm}</math></div><div><math>R_{abs} \leq 0.25\% \text{ @ } 1064\text{nm}</math></div><div><math>R_{avg} \leq 1.0\% \text{ @ } 500 - 1100\text{nm}</math></div></div> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p>      |
| <div><div><div>N-BK7 with NIR I Coating</div><div>Typical Transmission</div></div><div></div></div>    | <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> <div><div><math>R_{avg} \leq 0.5\% \text{ @ } 600 - 1050\text{nm}</math></div></div> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p>                                                                                                                                              |
| <div><div><div>N-BK7 with NIR II Coating</div><div>Typical Transmission</div></div><div></div></div>   | <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> <div><div><math>R_{abs} \leq 1.5\% \text{ @ } 750 - 800\text{nm}</math></div><div><math>R_{abs} \leq 1.0\% \text{ @ } 800 - 1550\text{nm}</math></div><div><math>R_{avg} \leq 0.7\% \text{ @ } 750 - 1550\text{nm}</math></div></div>                                                                                                                           |



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:

- 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](#).

Compatible Mounts