

TECHSPEC<sup>®</sup> 6mm Diameter x -15 FL, NIR II Coated, Plano-Concave Lens



Stock **#67-985** **16 In Stock**

[Other Coating Options](#)

-

1

+

A\$72<sup>.00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-9        | A\$72.00 each                 |
| Qty 10-25      | A\$64.40 each                 |
| Qty 26-49      | A\$57.60 each                 |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

General

Type:  
Plano-Concave Lens

Physical & Mechanical Properties

Diameter (mm):  
6.00 +0.0/-0.025

|       |                                  |
|-------|----------------------------------|
| 2.00  | Center Thickness CT (mm):        |
| ±0.05 | Center Thickness Tolerance (mm): |
| <1    | Centering (arcmin):              |
| 5.40  | Clear Aperture CA (mm):          |
| 2.49  | Edge Thickness ET (mm):          |

|                                                                                                                                                  |                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| Optical Properties                                                                                                                               |                                                   |
| -15.00                                                                                                                                           | Effective Focal Length EFL (mm):                  |
| N-BK7                                                                                                                                            | Substrate: <input type="text"/>                   |
| 2.5                                                                                                                                              | f/#:                                              |
| NIR II (750-1550nm)                                                                                                                              | Coating:                                          |
| 750 - 1550                                                                                                                                       | Wavelength Range (nm):                            |
| -16.32                                                                                                                                           | Back Focal Length BFL (mm):                       |
| Coating Specification:<br>R <sub>abs</sub> ≤1.5% @ 750 - 800nm<br>R <sub>abs</sub> ≤1.0% @ 800 - 1550nm<br>R <sub>avg</sub> ≤0.7% @ 750 - 1550nm |                                                   |
| 587.6                                                                                                                                            | Focal Length Specification Wavelength (nm):       |
| ±1.00                                                                                                                                            | Focal Length Tolerance (%):                       |
| -7.75                                                                                                                                            | Radius R <sub>1</sub> (mm):                       |
| 40-20                                                                                                                                            | Surface Quality:                                  |
| 8 J/cm <sup>2</sup> @ 1064nm, 10ns                                                                                                               | Damage Threshold, Reference: <input type="text"/> |
| 1.5λ                                                                                                                                             | Power (P-V) @ 632.8nm:                            |
| λ/4                                                                                                                                              | Irregularity (P-V) @ 632.8nm:                     |

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

## 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

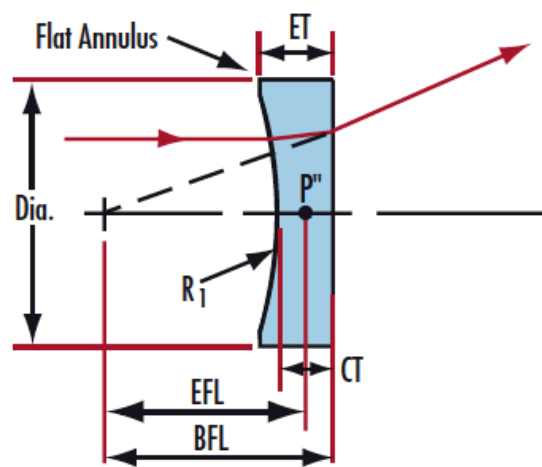
Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

## Product Details

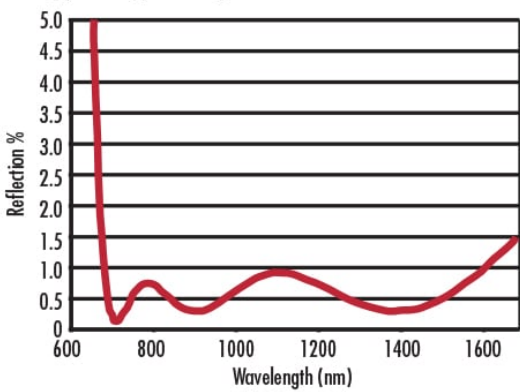
- AR Coated to Provide <0.7% Reflectance per Surface for 750 - 1550nm
- Designed for 0° Angle of Incidence
- Various Coating Options: [Uncoated](#), [VIS-EXT](#), [MgF<sub>2</sub>](#), [VIS 0°](#), [VIS-NIR](#), [YAG-BBAR](#), and [NIR I](#)

TECHSPEC® NIR II Coated Plano-Concave (PCV) Lenses are designed to bend parallel input rays to diverge from one another on the lens's output side causing this lens to have a negative focal length. These lenses can be used for balancing aberrations created by other lenses within a system due to their negative spherical aberration. Plano-Concave (PCV) lenses are commonly used in a variety of applications including image reduction, beam expansion and telescopes. TECHSPEC NIR II Coated Plano-Concave (PCV) Lenses offer optimal performance in the 750 to 1550nm range. These lenses are also available [Uncoated](#), [VIS-EXT](#), [MgF<sub>2</sub>](#), [VIS 0°](#), [VIS-NIR](#), [YAG-BBAR](#), or with [NIR I](#) AR coating options.

Technical Information

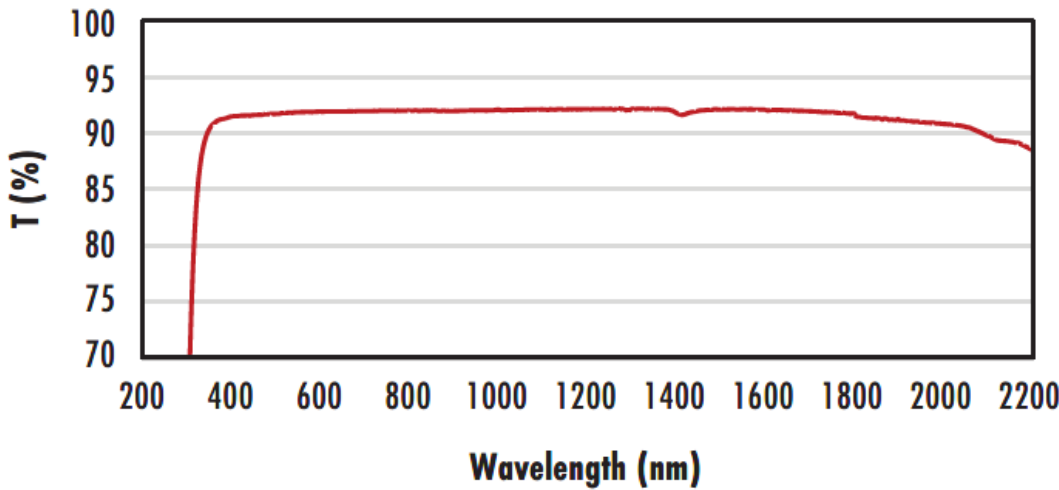


NIR II Coating  
 $R_{avg} \leq 0.7\%$  @ 750 - 1550nm,  $R_{abs} \leq 1.0\%$  @ 800 - 1550nm  
Typ. Energy Density Limit: 8 J/cm<sup>2</sup> @ 1064nm, 10ns



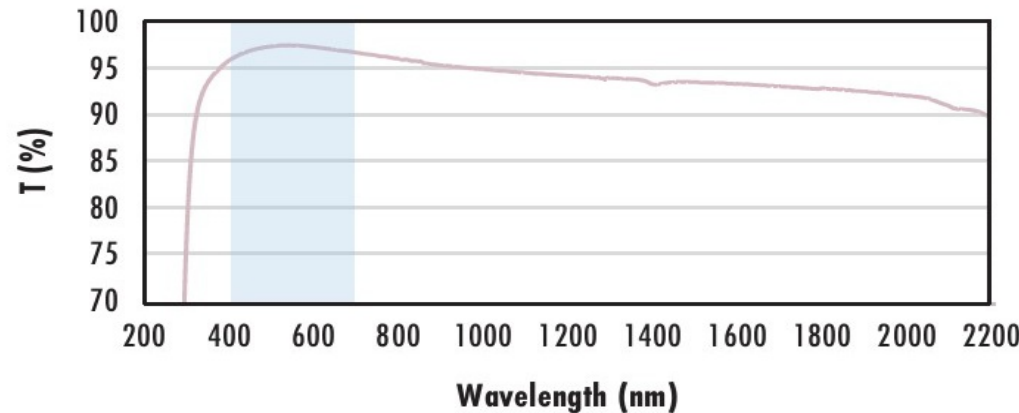
N-BK7

Uncoated N-BK7 Typical Transmission



Typical transmission of a 3mm thick, uncoated N-BK7 window across the UV - NIR spectra.  
[Click Here to Download Data](#)

N-BK7 with MgF<sub>2</sub> Coating Typical Transmission

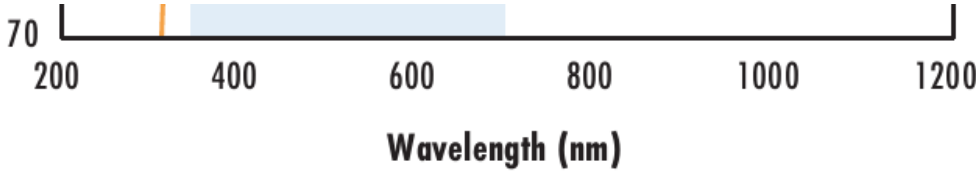
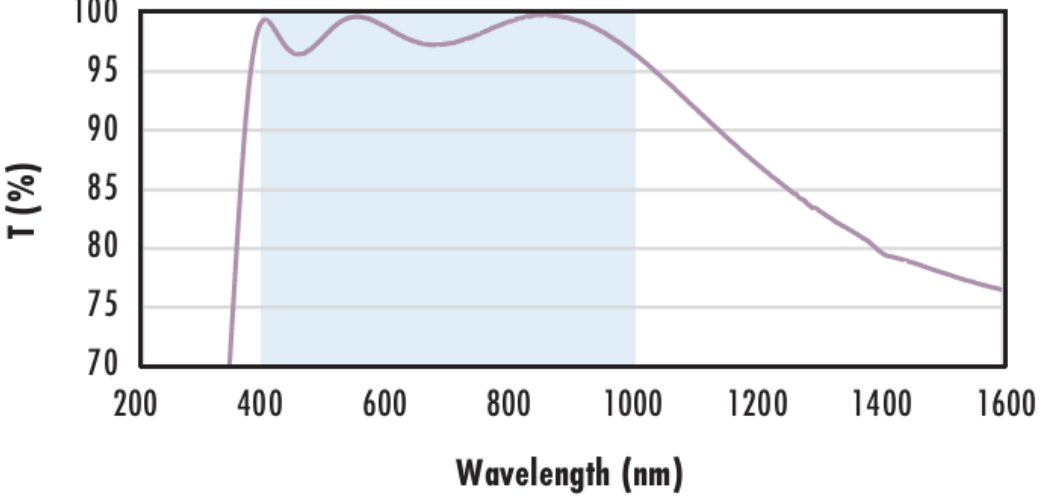
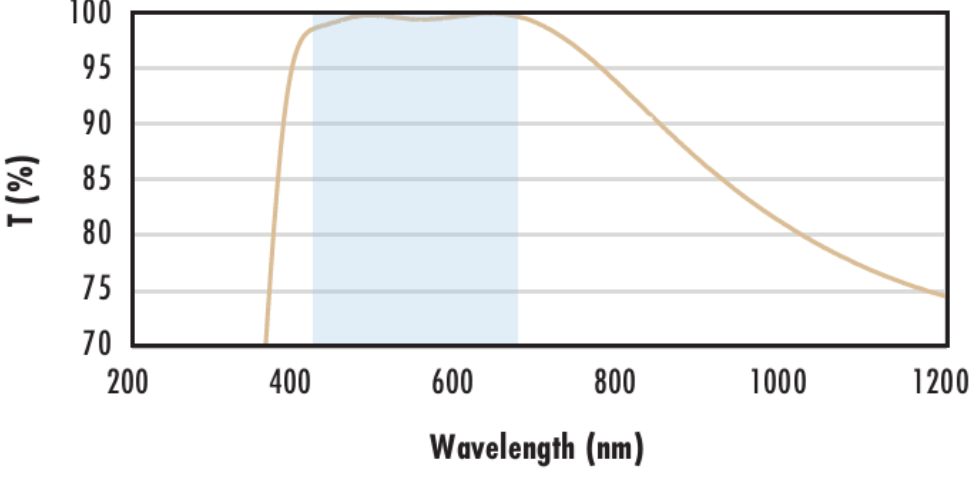
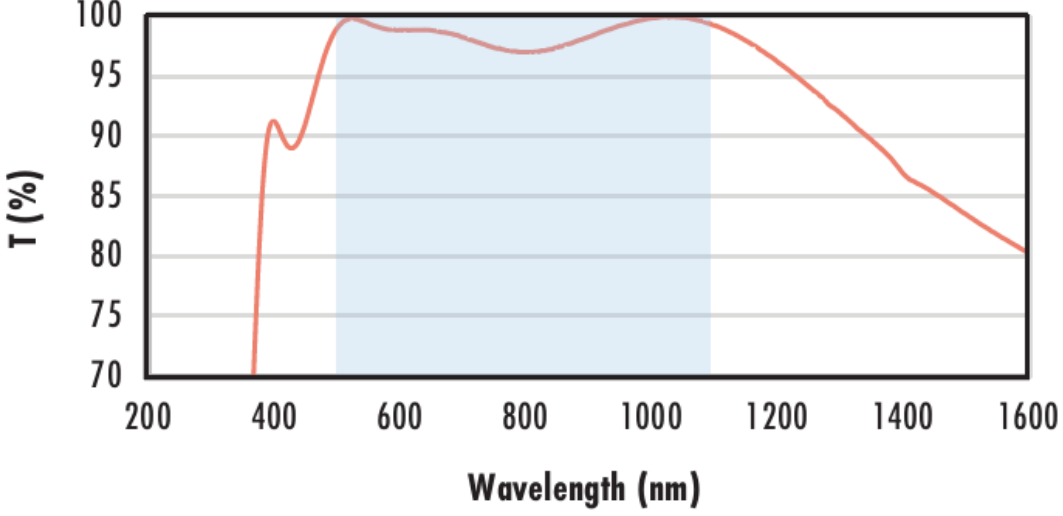
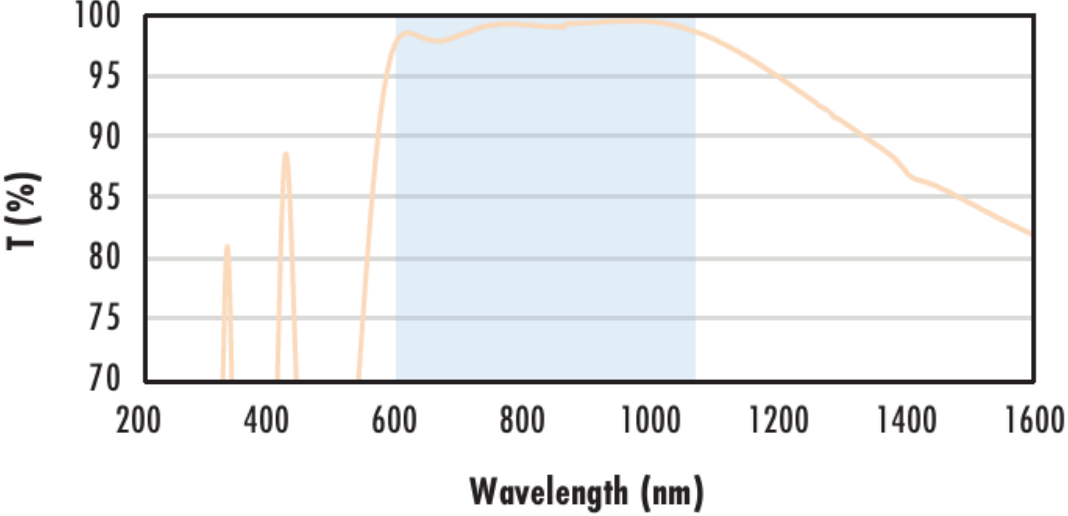


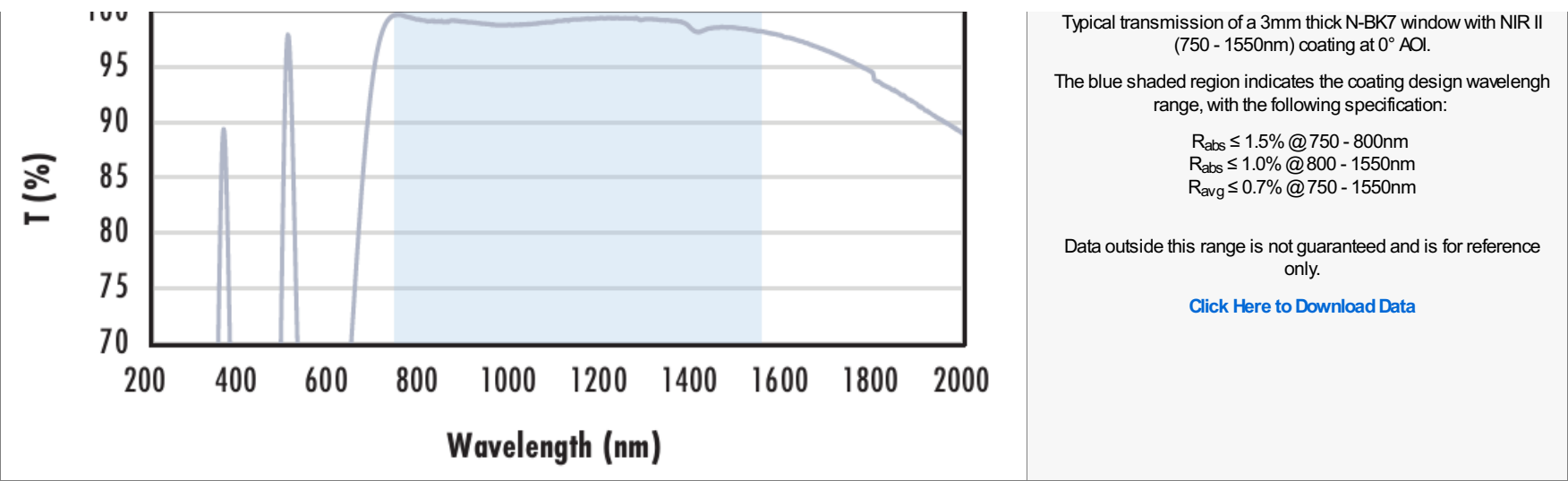
Typical transmission of a 3mm thick N-BK7 window with MgF<sub>2</sub> (400-700nm) coating at 0° AOI.  
The blue shaded region indicates the coating design wavelength range, with the following specification:  
 $R_{avg} \leq 1.75\%$  @ 400 - 700nm (N-BK7)  
Data outside this range is not guaranteed and is for reference only.  
[Click Here to Download Data](#)

N-BK7 with VIS-EXT Coating Typical Transmission



Typical transmission of a 3mm thick N-BK7 window with VIS-EXT (350-700nm) coating at 0° AOI.  
The blue shaded region indicates the coating design wavelength range, with the following specification:  
 $R_{avg} \leq 0.5\%$  @ 350 - 700nm  
Data outside this range is not guaranteed and is for reference only.  
[Click Here to Download Data](#)

|                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <div data-bbox="583 278 1008 373">N-BK7 with VIS-NIR Coating<br/>Typical Transmission</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> <p><math>R_{abs} \leq 0.25\%</math> @ 880nm<br/><math>R_{avg} \leq 1.25\%</math> @ 400 - 870nm<br/><math>R_{avg} \leq 1.25\%</math> @ 890 - 1000nm</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 data-bbox="594 899 976 994">N-BK7 with VIS 0° Coating<br/>Typical Transmission</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> <p><math>R_{avg} \leq 0.4\%</math> @ 425 - 675nm</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 data-bbox="564 1492 1037 1587">N-BK7 with YAG-BBAR Coating<br/>Typical Transmission</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> <p><math>R_{abs} \leq 0.25\%</math> @ 532nm<br/><math>R_{abs} \leq 0.25\%</math> @ 1064nm<br/><math>R_{avg} \leq 1.0\%</math> @ 500 - 1100nm</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 data-bbox="615 2119 1008 2214">N-BK7 with NIR I Coating<br/>Typical Transmission</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> <p><math>R_{avg} \leq 0.5\%</math> @ 600 - 1050nm</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 data-bbox="604 2763 1016 2858">N-BK7 with NIR II Coating<br/>Typical Transmission</div>    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |



Compatible Mounts