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TECHSPEC<sup>®</sup> 9.0mm Dia. x -12 FL, Uncoated, Plano-Concave Lens



TECHSPEC Uncoated Plano-Concave (PCV) Lenses



Stock **#48-334** 20+ In Stock

[Other Coating Options](#)

-

1

+

S\$46<sup>20</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-9        | S\$46.20 each                 |
| Qty 10-25      | S\$41.65 each                 |
| Qty 26-49      | S\$37.10 each                 |
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Product Downloads

General

Plano-Concave Lens

Type:

Physical & Mechanical Properties

Diameter (mm):

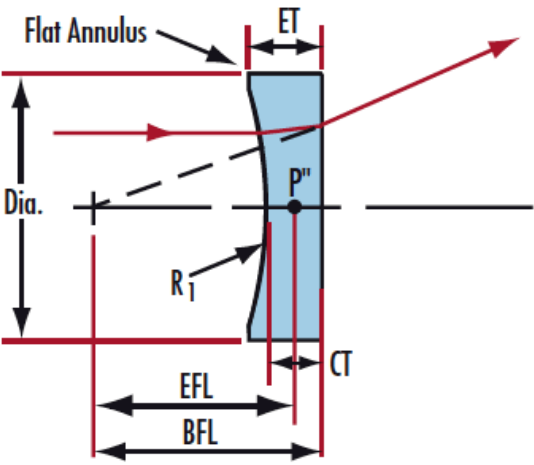
|                       |                                             |
|-----------------------|---------------------------------------------|
| 9.00 +0.0/-0.025      |                                             |
| Protective as needed  | Bevel:                                      |
| 2.25                  | Center Thickness CT (mm):                   |
| ±0.05                 | Center Thickness Tolerance (mm):            |
| <1                    | Centering (arcmin):                         |
| 8.1                   | Clear Aperture CA (mm):                     |
| 3.24                  | Edge Thickness ET (mm):                     |
| Optical Properties    |                                             |
| -12.00                | Effective Focal Length EFL (mm):            |
| N-SF11                | Substrate: <input type="checkbox"/>         |
| 1.33                  | f#:                                         |
| 0.38                  | Numerical Aperture NA:                      |
| Uncoated              | Coating:                                    |
| 400 - 2500            | Wavelength Range (nm):                      |
| -13.26                | Back Focal Length BFL (mm):                 |
| 587.6                 | Focal Length Specification Wavelength (nm): |
| ±1                    | Focal Length Tolerance (%):                 |
| -9.42                 | Radius R <sub>1</sub> (mm):                 |
| 40-20                 | Surface Quality:                            |
| 1.5λ                  | Power (P-V) @ 632.8nm:                      |
| λ/4                   | Irregularity (P-V) @ 632.8nm:               |
| Regulatory Compliance |                                             |
| Compliant             | RoHS 2015:                                  |
| Compliant             | Reach 219:                                  |
| View                  | Certificate of Conformance:                 |

## Product Details

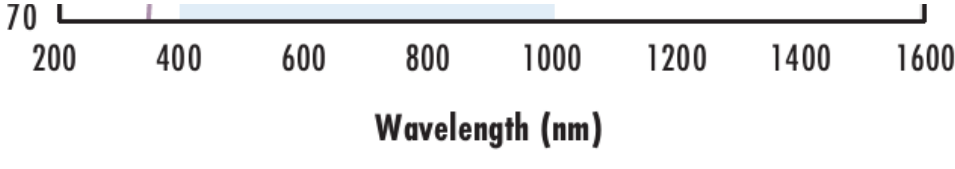
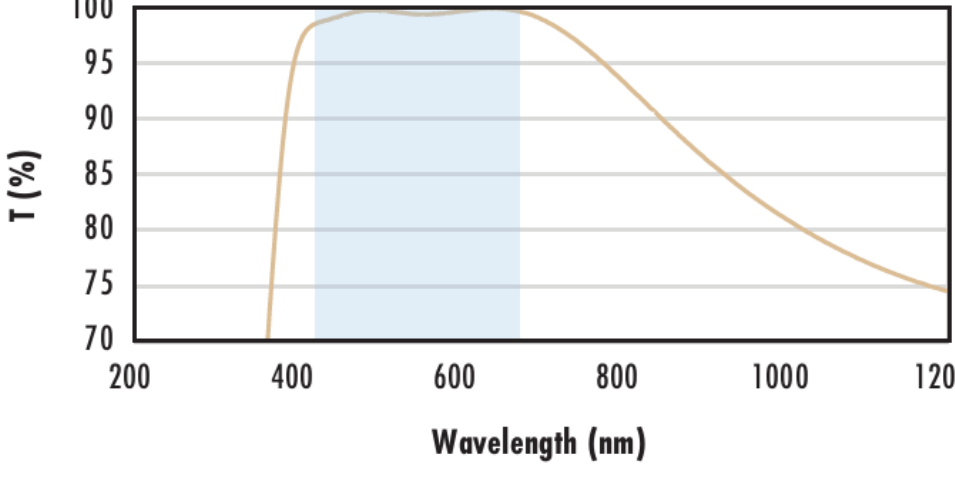
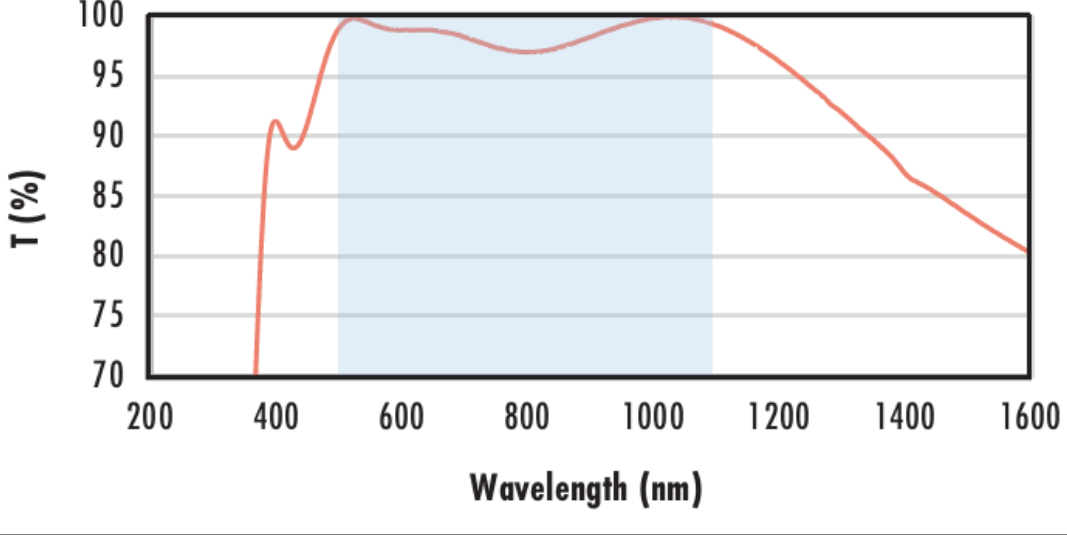
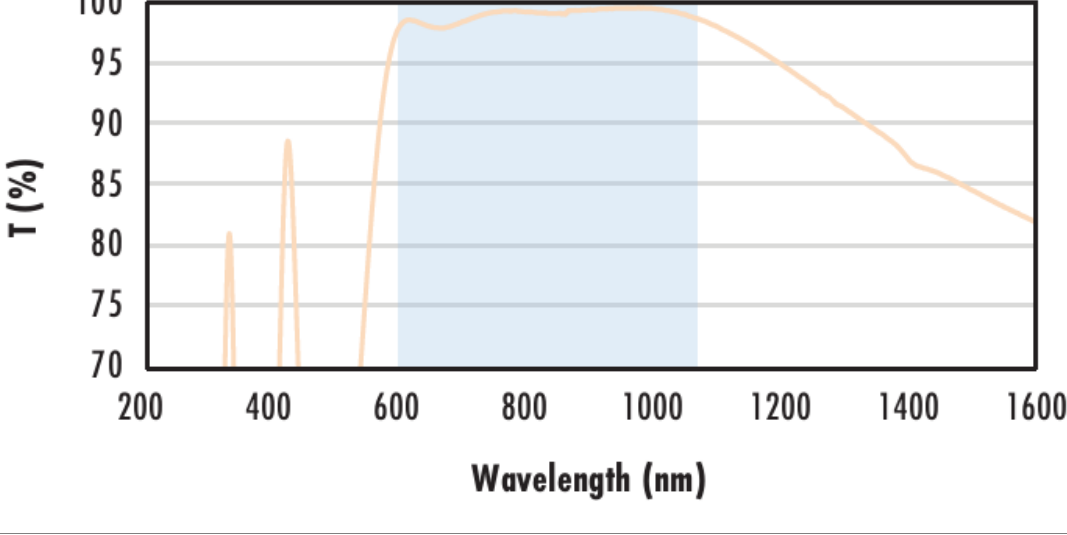
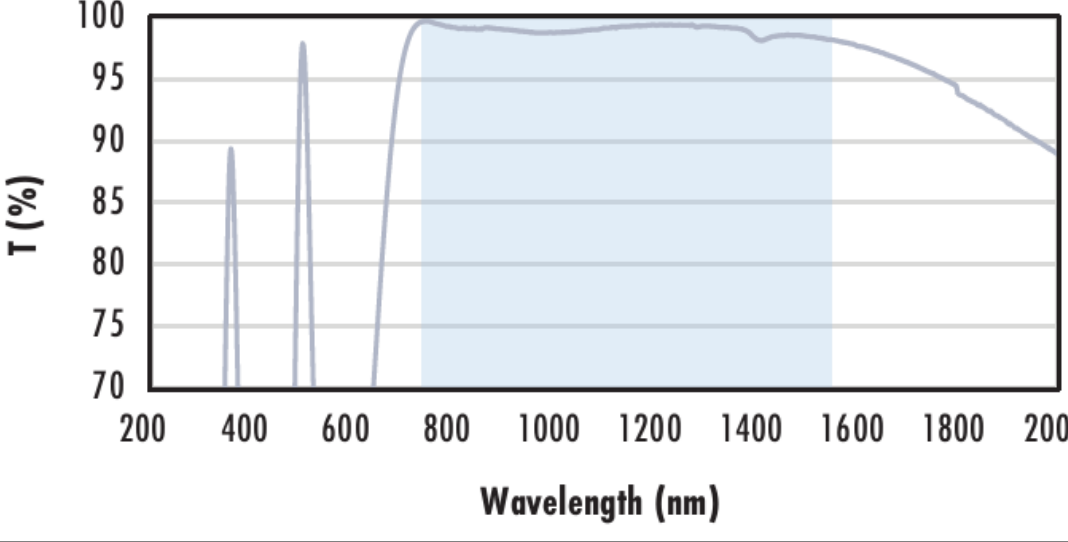
- Wavelength Range of 400-2200nm
- Precision Diameter and Centration Tolerances Allow for Easy OEM Integration
- Wide Variety of Diameters, Focal Lengths, and Coatings
- Anti-Reflection Coating Options: [VIS-EXT](#), [MgF<sub>2</sub>](#), [VIS 0°](#), [VIS-NIR](#), [YAG-BBAR](#), [NIR I](#), and [NIR II](#)

TECHSPEC® Uncoated Plano-Concave (PCV) Lenses are designed to bend parallel input rays to diverge from one another on the output side of the lens 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® Uncoated Plano-Concave (PCV) Lenses offer optimal performance in the 350nm to 2200nm range. These lenses are also available [VIS-EXT](#), [MgF<sub>2</sub>](#), [VIS 0°](#), [VIS-NIR](#), [YAG-BBAR](#), [NIR I](#), or with [NIR II](#) AR coating options.

## Technical Information



| N-BK7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                    |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|-----|----|-----|----|-----|----|-----|----|------|----|------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------|----|------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>Uncoated N-BK7 Typical Transmission</div> <table border="1"><caption>Approximate data for Uncoated N-BK7 Typical Transmission</caption><thead><tr><th>Wavelength (nm)</th><th>Transmission T (%)</th></tr></thead><tbody><tr><td>200</td><td>70</td></tr><tr><td>400</td><td>92</td></tr><tr><td>600</td><td>93</td></tr><tr><td>800</td><td>93</td></tr><tr><td>1000</td><td>93</td></tr><tr><td>1200</td><td>93</td></tr><tr><td>1400</td><td>92</td></tr><tr><td>1600</td><td>93</td></tr><tr><td>1800</td><td>92</td></tr><tr><td>2000</td><td>91</td></tr><tr><td>2200</td><td>88</td></tr></tbody></table>                                         | Wavelength (nm)    | Transmission T (%) | 200 | 70 | 400 | 92 | 600 | 93 | 800 | 93 | 1000 | 93 | 1200 | 93 | 1400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 92 | 1600 | 93 | 1800                                                                                                                                                                                                                                                                                                                                                                                                          | 92 | 2000 | 91 | 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Transmission T (%) |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 70                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 92                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 93                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 93                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 93                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 93                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 92                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 93                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 92                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 91                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 2200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 88                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <div>N-BK7 with MgF<sub>2</sub> Coating Typical Transmission</div> <table border="1"><caption>Approximate data for N-BK7 with MgF<sub>2</sub> Coating Typical Transmission</caption><thead><tr><th>Wavelength (nm)</th><th>Transmission T (%)</th></tr></thead><tbody><tr><td>200</td><td>70</td></tr><tr><td>400</td><td>95</td></tr><tr><td>600</td><td>98</td></tr><tr><td>800</td><td>95</td></tr><tr><td>1000</td><td>94</td></tr><tr><td>1200</td><td>94</td></tr><tr><td>1400</td><td>93</td></tr><tr><td>1600</td><td>93</td></tr><tr><td>1800</td><td>93</td></tr><tr><td>2000</td><td>92</td></tr><tr><td>2200</td><td>90</td></tr></tbody></table> | Wavelength (nm)    | Transmission T (%) | 200 | 70 | 400 | 95 | 600 | 98 | 800 | 95 | 1000 | 94 | 1200 | 94 | 1400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 93 | 1600 | 93 | 1800                                                                                                                                                                                                                                                                                                                                                                                                          | 93 | 2000 | 92 | 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Transmission T (%) |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 70                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 95                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 98                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 95                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 94                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 94                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 93                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 93                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 93                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 92                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 2200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 90                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <div>N-BK7 with VIS-EXT Coating Typical Transmission</div> <table border="1"><caption>Approximate data for N-BK7 with VIS-EXT Coating Typical Transmission</caption><thead><tr><th>Wavelength (nm)</th><th>Transmission T (%)</th></tr></thead><tbody><tr><td>200</td><td>70</td></tr><tr><td>350</td><td>95</td></tr><tr><td>400</td><td>98</td></tr><tr><td>600</td><td>99</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>                                                                                                                      | Wavelength (nm)    | Transmission T (%) | 200 | 70 | 350 | 95 | 400 | 98 | 600 | 99 | 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> |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Wavelength (nm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Transmission T (%) |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 70                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 350                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 95                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 98                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 99                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 700                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 98                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 95                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 85                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 78                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <div>N-BK7 with VIS-NIR Coating Typical Transmission</div> <table border="1"><caption>Approximate data for N-BK7 with VIS-NIR Coating Typical Transmission</caption><thead><tr><th>Wavelength (nm)</th><th>Transmission T (%)</th></tr></thead><tbody><tr><td>200</td><td>75</td></tr><tr><td>400</td><td>98</td></tr><tr><td>600</td><td>99</td></tr><tr><td>800</td><td>98</td></tr><tr><td>1000</td><td>95</td></tr><tr><td>1200</td><td>78</td></tr></tbody></table>                                                                                                                                                                                      | Wavelength (nm)    | Transmission T (%) | 200 | 75 | 400 | 98 | 600 | 99 | 800 | 98 | 1000 | 95 | 1200 | 78 | <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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Transmission T (%) |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 75                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 98                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 99                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 98                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 95                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 78                 |                    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |

|                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <p data-bbox="596 261 974 350"><b>N-BK7 with VIS 0° Coating</b><br/><b>Typical Transmission</b></p>       | <p data-bbox="1339 394 1843 445">Typical transmission of a 3mm thick N-BK7 window with VIS 0° (425-675nm) coating at 0° AOI.</p> <p data-bbox="1339 457 1850 507">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1478 519 1711 543"><math>R_{avg} \leq 0.4\% @ 425 - 675\text{nm}</math></p> <p data-bbox="1339 555 1839 605">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1474 617 1711 641"><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                                        |
| <p data-bbox="569 857 1037 946"><b>N-BK7 with YAG-BBAR Coating</b><br/><b>Typical Transmission</b></p>   | <p data-bbox="1339 985 1843 1035">Typical transmission of a 3mm thick N-BK7 window with YAG-BBAR (500-1100nm) coating at 0° AOI.</p> <p data-bbox="1339 1047 1850 1098">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1493 1110 1688 1133"><math>R_{abs} \leq 0.25\% @ 532\text{nm}</math></p> <p data-bbox="1493 1136 1694 1160"><math>R_{abs} \leq 0.25\% @ 1064\text{nm}</math></p> <p data-bbox="1472 1163 1713 1187"><math>R_{avg} \leq 1.0\% @ 500 - 1100\text{nm}</math></p> <p data-bbox="1339 1199 1839 1249">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1474 1261 1711 1285"><a href="#">Click Here to Download Data</a></p>            |
| <p data-bbox="617 1495 1008 1584"><b>N-BK7 with NIR I Coating</b><br/><b>Typical Transmission</b></p>   | <p data-bbox="1339 1647 1843 1697">Typical transmission of a 3mm thick N-BK7 window with NIR I (600 - 1050nm) coating at 0° AOI.</p> <p data-bbox="1339 1709 1850 1760">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1472 1771 1713 1795"><math>R_{avg} \leq 0.5\% @ 600 - 1050\text{nm}</math></p> <p data-bbox="1339 1807 1839 1857">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1474 1869 1711 1893"><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                           |
| <p data-bbox="606 2133 1016 2223"><b>N-BK7 with NIR II Coating</b><br/><b>Typical Transmission</b></p>  | <p data-bbox="1339 2255 1843 2306">Typical transmission of a 3mm thick N-BK7 window with NIR II (750 - 1550nm) coating at 0° AOI.</p> <p data-bbox="1339 2318 1850 2368">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1474 2380 1703 2404"><math>R_{abs} \leq 1.5\% @ 750 - 800\text{nm}</math></p> <p data-bbox="1474 2407 1709 2430"><math>R_{abs} \leq 1.0\% @ 800 - 1550\text{nm}</math></p> <p data-bbox="1474 2433 1711 2457"><math>R_{avg} \leq 0.7\% @ 750 - 1550\text{nm}</math></p> <p data-bbox="1339 2490 1839 2540">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1474 2552 1711 2576"><a href="#">Click Here to Download Data</a></p> |

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