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TECHSPEC<sup>®</sup> 12.7mm Dia. x 31.8mm FL, YAG-BBAR Coated Plano-Convex Lens



YAG-BBAR Coated Plano-Convex (PCX) Lenses



Stock **#88-848** **3 In Stock**

☐ [Other Coating Options](#)

-

1

+

₹3,464

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General

Plano-Convex Lens

Type:

Physical & Mechanical Properties

Diameter (mm):

|                           |                      |
|---------------------------|----------------------|
| 12.70 +0.0/-0.025         |                      |
| Centering (arcmin):       | <1                   |
| Center Thickness CT (mm): | 3.00 ±0.10           |
| Edge Thickness ET (mm):   | 1.72                 |
| Clear Aperture CA (mm):   | 11.7                 |
| Bevel:                    | Protective as needed |

|                                                       |                                                                                                              |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Optical Properties                                    |                                                                                                              |
| Effective Focal Length EFL (mm):                      | 31.80 @ 587.6nm                                                                                              |
| Back Focal Length BFL (mm):                           | 29.81                                                                                                        |
| Coating:                                              | YAG-BBAR (500-1100nm)                                                                                        |
| Coating Specification:                                | R <sub>abs</sub> <0.25% @ 532nm<br>R <sub>abs</sub> <0.25% @ 1064nm<br>R <sub>avg</sub> <1.0% @ 500 - 1100nm |
| Substrate: <input type="checkbox"/>                   | N-BK7                                                                                                        |
| Surface Quality:                                      | 40-20                                                                                                        |
| Power (P-V) @ 632.8nm:                                | 1.5λ                                                                                                         |
| Irregularity (P-V) @ 632.8nm:                         | λ/4                                                                                                          |
| Focal Length Tolerance (%):                           | ±1                                                                                                           |
| Radius R <sub>1</sub> (mm):                           | 16.43                                                                                                        |
| f#:                                                   | 2.5                                                                                                          |
| Numerical Aperture NA:                                | 0.20                                                                                                         |
| Wavelength Range (nm):                                | 500 - 1100                                                                                                   |
| Damage Threshold, By Design: <input type="checkbox"/> | 5 J/cm <sup>2</sup> @ 532nm, 10ns                                                                            |

|                             |                                     |
|-----------------------------|-------------------------------------|
| Regulatory Compliance       |                                     |
| RoHS 2015:                  | Compliant                           |
| Certificate of Conformance: | View                                |
| Reach 235:                  | Compliant                           |
| Country of Origin:          | Japan                               |
| Imported By:                | Edmund Optics India Private Limited |

## Product Details

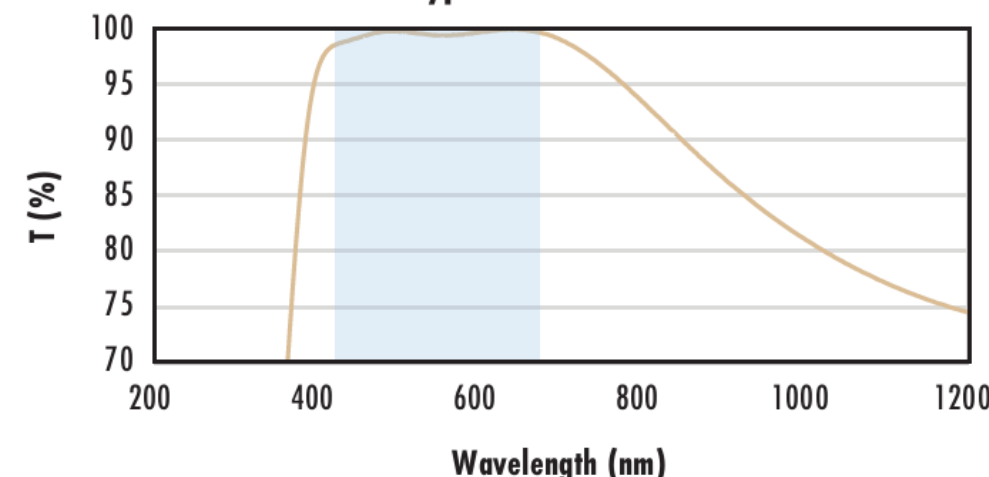
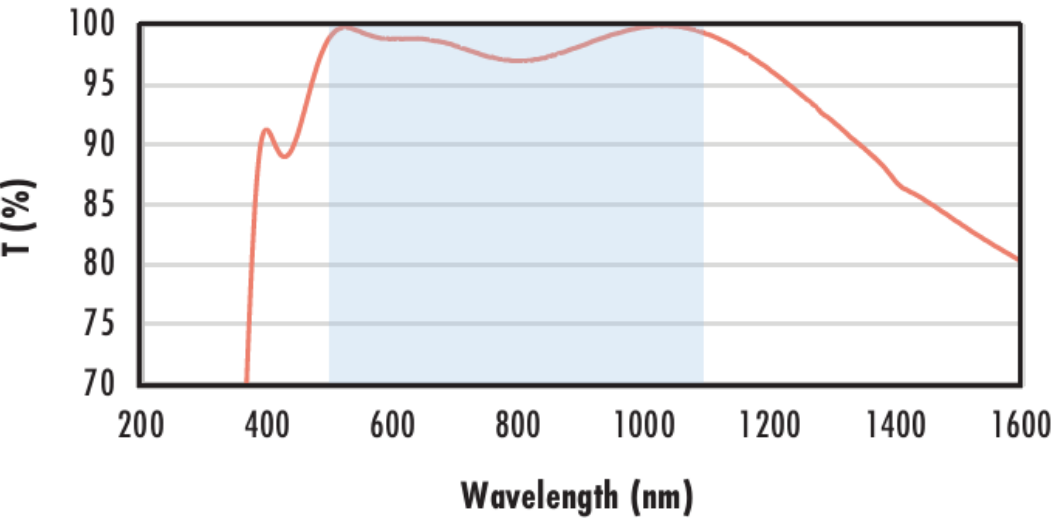
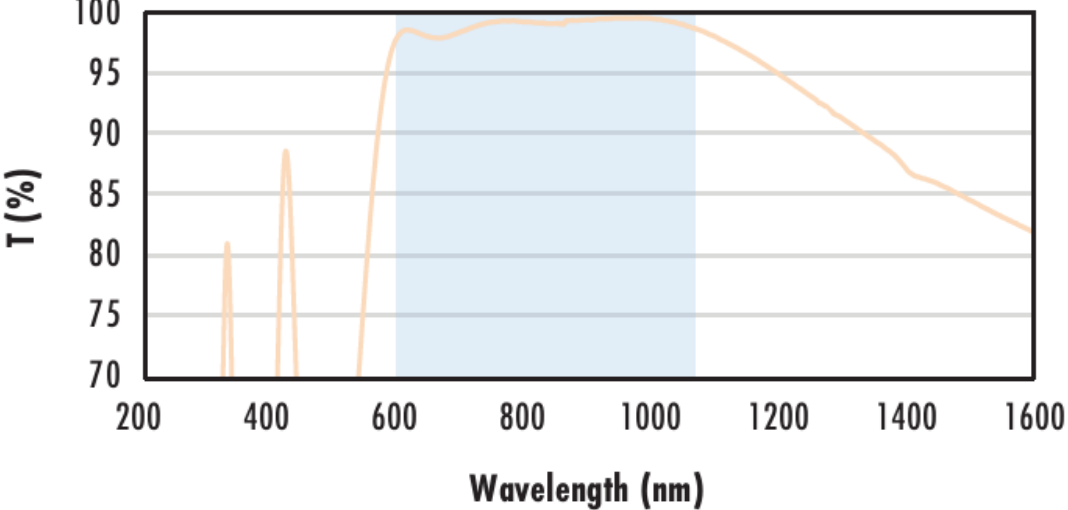
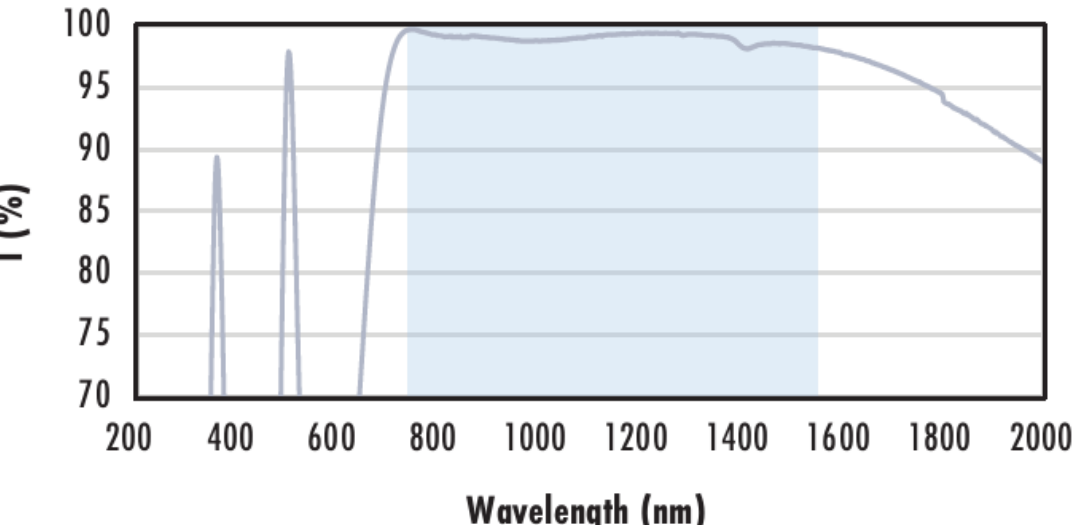
- Optimized for R<0.25% @ Both 532nm and 1064nm
- AR Coated to Provide <1.0% Reflectance per Surface for 500 - 1100nm
- Designed for 0° Angle of Incidence
- Various PCX Coating Options: [Uncoated](#), [MgF<sub>2</sub>](#), [VIS 0°](#), [VIS-NIR](#), [NIR I](#), [NIR II](#), and [VIS-EXT](#)

TECHSPEC® YAG-BBAR Coated Plano-Convex (PCX) Lenses have a positive focal length, making them ideal for collecting and focusing light in imaging applications. They are also useful in a variety of applications involving emitters, detectors, lasers, and fiber optics. TECHSPEC® YAG-BBAR Coated Plano-Convex (PCX) Lenses are available in a wide variety of diameters and focal lengths. Identical designs of these PCX lenses are also offered [uncoated](#) or with broadband anti-reflective (BBAR) coatings, which include [MgF<sub>2</sub>](#), [VIS 0°](#), [VIS-NIR](#), [NIR I](#), [NIR II](#), and [VIS-EXT](#).

## Technical Information



| N-BK7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------|-----|----|-----|----|-----|----|-----|----|-----|----|------|----|------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------|----|------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div><div>Uncoated N-BK7 Typical Transmission</div><table border="1"><thead><tr><th>Wavelength (nm)</th><th>T (%)</th></tr></thead><tbody><tr><td>200</td><td>70</td></tr><tr><td>300</td><td>70</td></tr><tr><td>400</td><td>92</td></tr><tr><td>600</td><td>92</td></tr><tr><td>800</td><td>92</td></tr><tr><td>1000</td><td>92</td></tr><tr><td>1200</td><td>92</td></tr><tr><td>1400</td><td>92</td></tr><tr><td>1600</td><td>92</td></tr><tr><td>1800</td><td>92</td></tr><tr><td>2000</td><td>91</td></tr><tr><td>2200</td><td>88</td></tr></tbody></table></div>                     | Wavelength (nm) | T (%) | 200 | 70 | 300 | 70 | 400 | 92 | 600 | 92 | 800 | 92 | 1000 | 92 | 1200 | 92 | 1400                                                                                                                                                                                                                                                                                                                                                                                                          | 92 | 1600 | 92 | 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | T (%)           |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 70              |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 70              |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 92              |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 92              |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 92              |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 92              |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 92              |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 92              |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 92              |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 92              |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 91              |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 2200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 88              |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <div><div>N-BK7 with MgF<sub>2</sub> Coating Typical Transmission</div><table border="1"><thead><tr><th>Wavelength (nm)</th><th>T (%)</th></tr></thead><tbody><tr><td>200</td><td>70</td></tr><tr><td>300</td><td>70</td></tr><tr><td>400</td><td>98</td></tr><tr><td>600</td><td>98</td></tr><tr><td>800</td><td>95</td></tr><tr><td>1000</td><td>95</td></tr><tr><td>1200</td><td>95</td></tr><tr><td>1400</td><td>94</td></tr><tr><td>1600</td><td>94</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></div> | Wavelength (nm) | T (%) | 200 | 70 | 300 | 70 | 400 | 98 | 600 | 98 | 800 | 95 | 1000 | 95 | 1200 | 95 | 1400                                                                                                                                                                                                                                                                                                                                                                                                          | 94 | 1600 | 94 | 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | T (%)           |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 70              |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 70              |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 98              |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 98              |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 95              |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 95              |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 95              |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 94              |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 94              |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 93              |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 92              |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 2200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 90              |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <div><div>N-BK7 with VIS-EXT Coating Typical Transmission</div><table border="1"><thead><tr><th>Wavelength (nm)</th><th>T (%)</th></tr></thead><tbody><tr><td>200</td><td>70</td></tr><tr><td>300</td><td>70</td></tr><tr><td>400</td><td>98</td></tr><tr><td>600</td><td>98</td></tr><tr><td>800</td><td>95</td></tr><tr><td>1000</td><td>85</td></tr><tr><td>1200</td><td>78</td></tr></tbody></table></div>                                                                                                                                                                              | Wavelength (nm) | T (%) | 200 | 70 | 300 | 70 | 400 | 98 | 600 | 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | T (%)           |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 70              |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 70              |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 98              |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 98              |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 95              |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 85              |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 78              |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <div><div>N-BK7 with VIS-NIR Coating Typical Transmission</div><table border="1"><thead><tr><th>Wavelength (nm)</th><th>T (%)</th></tr></thead><tbody><tr><td>200</td><td>70</td></tr><tr><td>300</td><td>70</td></tr><tr><td>400</td><td>98</td></tr><tr><td>600</td><td>98</td></tr><tr><td>800</td><td>98</td></tr><tr><td>1000</td><td>95</td></tr><tr><td>1200</td><td>85</td></tr><tr><td>1400</td><td>78</td></tr><tr><td>1600</td><td>76</td></tr></tbody></table></div>                                                                                                            | Wavelength (nm) | T (%) | 200 | 70 | 300 | 70 | 400 | 98 | 600 | 98 | 800 | 98 | 1000 | 95 | 1200 | 85 | 1400                                                                                                                                                                                                                                                                                                                                                                                                          | 78 | 1600 | 76 | <p>Typical transmission of a 3mm thick N-BK7 window with VIS-NIR (400-1000nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{abs} \leq 0.25\% @ 880\text{nm}</math><br/><math>R_{avg} \leq 1.25\% @ 400 - 870\text{nm}</math><br/><math>R_{avg} \leq 1.25\% @ 890 - 1000\text{nm}</math></p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p> |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Wavelength (nm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | T (%)           |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 70              |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 70              |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 98              |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 98              |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 98              |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 95              |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 85              |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 78              |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 76              |       |     |    |     |    |     |    |     |    |     |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                               |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |      |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                |

|                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>N-BK7 with VIS 0° Coating</b><br/><b>Typical Transmission</b></p>     | <p>Typical transmission of a 3mm thick N-BK7 window with VIS 0° (425-675nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{avg} \leq 0.4\% @ 425 - 675\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>                                                                                                                        |
| <p><b>N-BK7 with YAG-BBAR Coating</b><br/><b>Typical Transmission</b></p>  | <p>Typical transmission of a 3mm thick N-BK7 window with YAG-BBAR (500-1100nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{abs} \leq 0.25\% @ 532\text{nm}</math><br/><math>R_{abs} \leq 0.25\% @ 1064\text{nm}</math><br/><math>R_{avg} \leq 1.0\% @ 500 - 1100\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>           |
| <p><b>N-BK7 with NIR I Coating</b><br/><b>Typical Transmission</b></p>    | <p>Typical transmission of a 3mm thick N-BK7 window with NIR I (600 - 1050nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{avg} \leq 0.5\% @ 600 - 1050\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>                                                                                                                     |
| <p><b>N-BK7 with NIR II Coating</b><br/><b>Typical Transmission</b></p>   | <p>Typical transmission of a 3mm thick N-BK7 window with NIR II (750 - 1550nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{abs} \leq 1.5\% @ 750 - 800\text{nm}</math><br/><math>R_{abs} \leq 1.0\% @ 800 - 1550\text{nm}</math><br/><math>R_{avg} \leq 0.7\% @ 750 - 1550\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> |

Custom

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

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- High-precision surface quality and flatness

- Tight tolerances and complex geometries
  - Scalable production—from prototype to volume
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## Compatible Mounts

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