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TECHSPEC<sup>®</sup> 25.0mm Dia. x 250.0mm FL, YAG-BBAR Coated Plano-Convex Lens



YAG-BBAR Coated Plano-Convex (PCX) Lenses



Stock **#88-892 6 In Stock**

☐ [Other Coating Options](#)

-

1

+

₹3,815

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-9        | ₹3,815 each                   |
| Qty 10-24      | ₹3,425 each                   |
| Qty 25-49      | ₹3,056 each                   |
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Product Downloads

General

Type:

Plano-Convex Lens

Physical & Mechanical Properties

Diameter (mm):

|                           |                      |
|---------------------------|----------------------|
| 25.00 +0.0/-0.025         |                      |
| Centering (arcmin):       | <1                   |
| Center Thickness CT (mm): | 3.00 ±0.10           |
| Edge Thickness ET (mm):   | 2.39                 |
| Clear Aperture CA (mm):   | 24                   |
| Bevel:                    | Protective as needed |

|                                  |                                                                                                              |
|----------------------------------|--------------------------------------------------------------------------------------------------------------|
| Optical Properties               |                                                                                                              |
| Effective Focal Length EFL (mm): | 250.00 @587.6nm                                                                                              |
| Back Focal Length BFL (mm):      | 248.02                                                                                                       |
| 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:                       | 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):      | 129.20                                                                                                       |
| f#:                              | 10                                                                                                           |
| Numerical Aperture NA:           | 0.05                                                                                                         |
| Wavelength Range (nm):           | 500 - 1100                                                                                                   |
| Damage Threshold, By Design:     | 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 |

## Custom

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

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

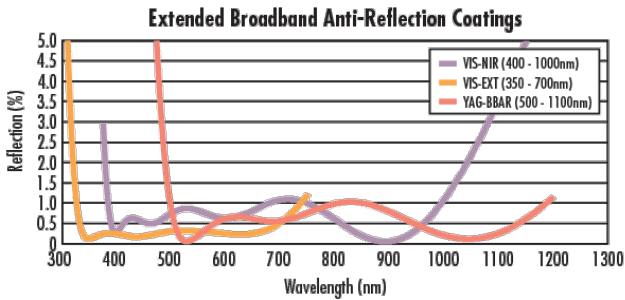
Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

## Product Details

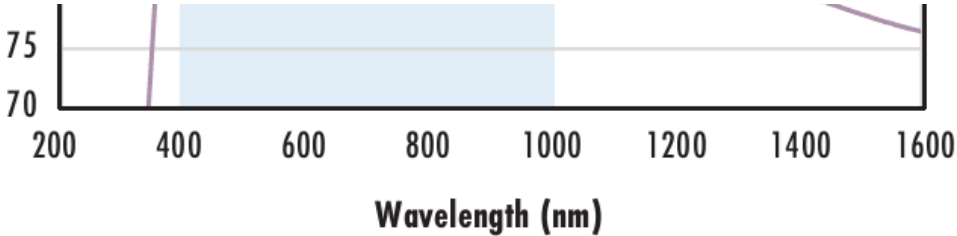
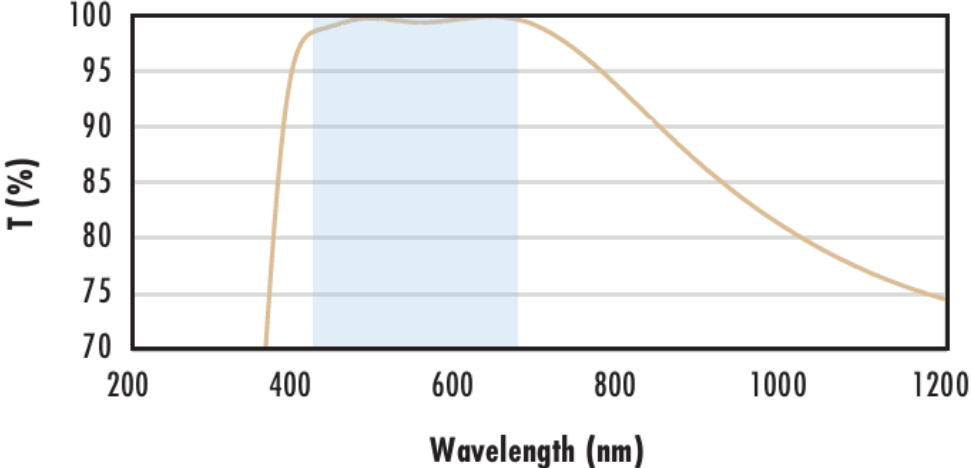
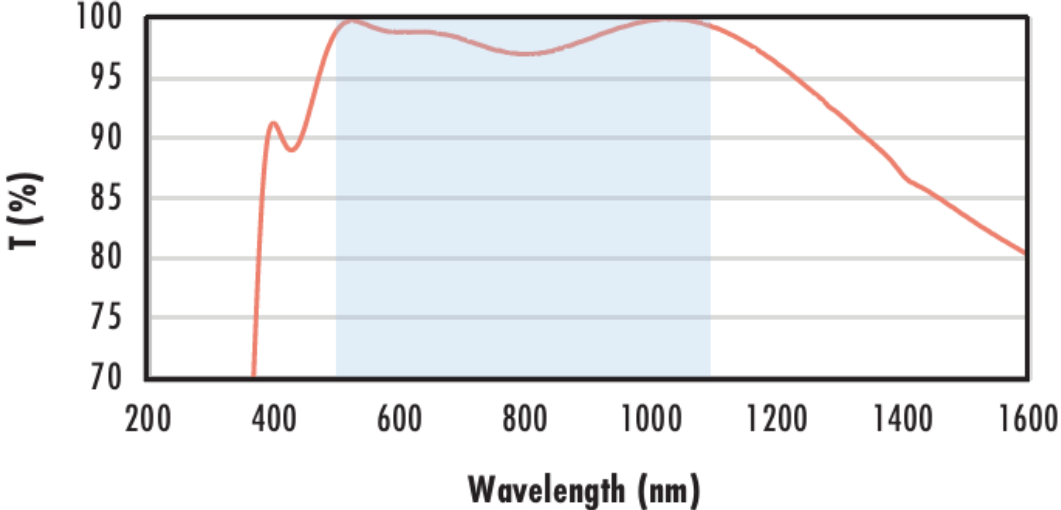
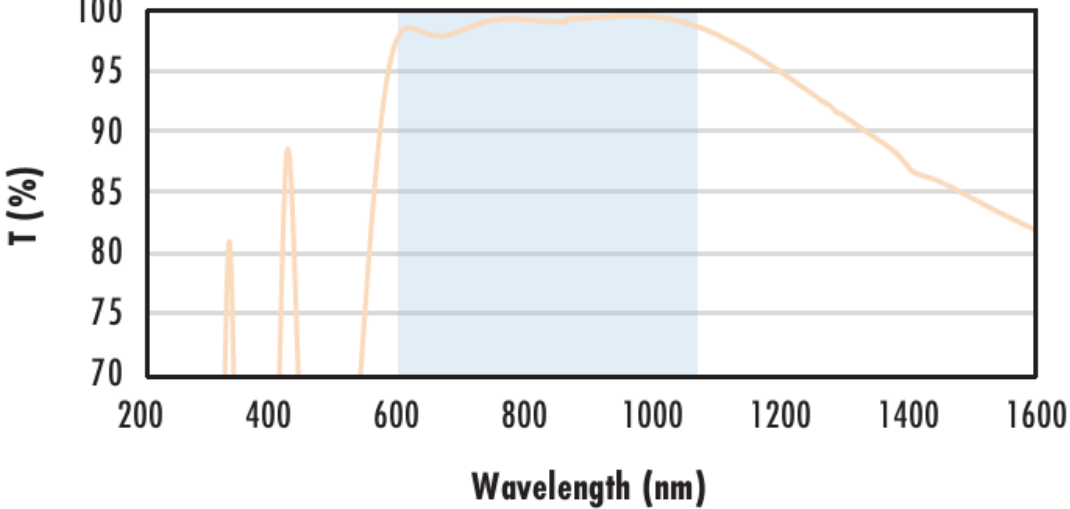
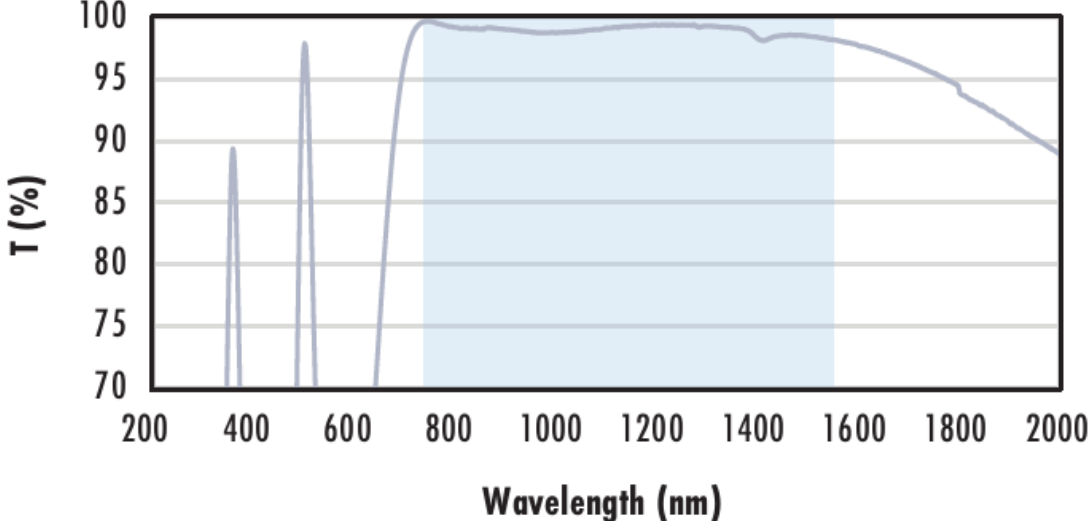
- Optimized for R<0.25% @ Both 532nm and 1064nm
- AR Coated to Provide <1.0% Reflectance per Surface for 500 - 1100nm
- Designed for 0° Angle of Incidence
- Various PCX Coating Options: [Uncoated](#), [MgF<sub>2</sub>](#), [VIS 0°](#), [VIS-NIR](#), [NIR I](#), [NIR II](#), and [VIS-EXT](#)

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,

Technical Information



| N-BK7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <p><b>Uncoated N-BK7 Typical Transmission</b></p> <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>                                                                                                                                                                                                                                                                                                |  |
| <p><b>N-BK7 with MgF<sub>2</sub> Coating Typical Transmission</b></p> <p>Typical transmission of a 3mm thick N-BK7 window with MgF2 (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\% \text{ @ } 400 - 700\text{nm (N-BK7)}</math></p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p> |  |
| <p><b>N-BK7 with VIS-EXT Coating Typical Transmission</b></p> <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\% \text{ @ } 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>               |  |
| <p><b>N-BK7 with VIS-NIR Coating Typical Transmission</b></p> <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\% \text{ @ } 880\text{nm}</math><br/><math>R_{avg} \leq 1.25\% \text{ @ } 400 - 870\text{nm}</math><br/><math>R_{avg} \leq 1.25\% \text{ @ } 890 - 1000\text{nm}</math></p>           |  |

|                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>75<br/>70</p> <p>200 400 600 800 1000 1200 1400 1600</p> <p>Wavelength (nm)</p>                                                                                                                                       | <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                                                                                                                                                                                                                                      |
| <p><b>N-BK7 with VIS 0° Coating</b><br/><b>Typical Transmission</b></p>  <p>100<br/>95<br/>90<br/>85<br/>80<br/>75<br/>70</p> <p>200 400 600 800 1000 1200</p> <p>Wavelength (nm)</p> <p>T (%)</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>100<br/>95<br/>90<br/>85<br/>80<br/>75<br/>70</p> <p>200 400 600 800 1000 1200 1400 1600</p> <p>Wavelength (nm)</p> <p>T (%)</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>100<br/>95<br/>90<br/>85<br/>80<br/>75<br/>70</p> <p>200 400 600 800 1000 1200 1400 1600</p> <p>Wavelength (nm)</p> <p>T (%)</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>100<br/>95<br/>90<br/>85<br/>80<br/>75<br/>70</p> <p>200 400 600 800 1000 1200 1400 1600 1800 2000</p> <p>Wavelength (nm)</p> <p>T (%)</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> |

# Compatible Mounts

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