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TECHSPEC<sup>®</sup> 25.0mm Dia. x -35 FL, YAG-BBAR, Plano-Concave Lens



Stock **#21-319** **5 In Stock**

-

1

+

₹3,970

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| Qty 1-9        | ₹3,970 each                   |
| Qty 10-25      | ₹3,562 each                   |
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General

Type:

Plano-Concave Lens

Physical & Mechanical Properties

Diameter (mm):

25.00

|                      |                           |
|----------------------|---------------------------|
| Protective as needed | Bevel:                    |
| 3.50 ±0.10           | Center Thickness CT (mm): |
| <1                   | Centering (arcmin):       |
| 24.00                | Clear Aperture CA (mm):   |
| 6.36                 | Edge Thickness ET (mm):   |

|                                                                                                              |                                             |
|--------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| Optical Properties                                                                                           |                                             |
| -35.00                                                                                                       | Effective Focal Length EFL (mm):            |
| N-SF11                                                                                                       | Substrate: □                                |
| 1.00                                                                                                         | f#:                                         |
| 0.36                                                                                                         | Numerical Aperture NA:                      |
| YAG-BBAR (500-1100nm)                                                                                        | Coating:                                    |
| 500 - 1100                                                                                                   | Wavelength Range (nm):                      |
| -36.96                                                                                                       | Back Focal Length BFL (mm):                 |
| R <sub>abs</sub> <0.25% @ 532nm<br>R <sub>abs</sub> <0.25% @ 1064nm<br>R <sub>avg</sub> <1.0% @ 500 - 1100nm | Coating Specification:                      |
| 587.6                                                                                                        | Focal Length Specification Wavelength (nm): |
| ±1                                                                                                           | Focal Length Tolerance (%):                 |
| -27.47                                                                                                       | Radius R <sub>1</sub> (mm):                 |
| 40-20                                                                                                        | Surface Quality:                            |
| 5 J/cm <sup>2</sup> @ 532nm, 10ns                                                                            | Damage Threshold, By Design: □              |
| 1.5λ                                                                                                         | Power (P-V) @ 632.8nm:                      |
| M4                                                                                                           | Irregularity (P-V) @ 632.8nm:               |

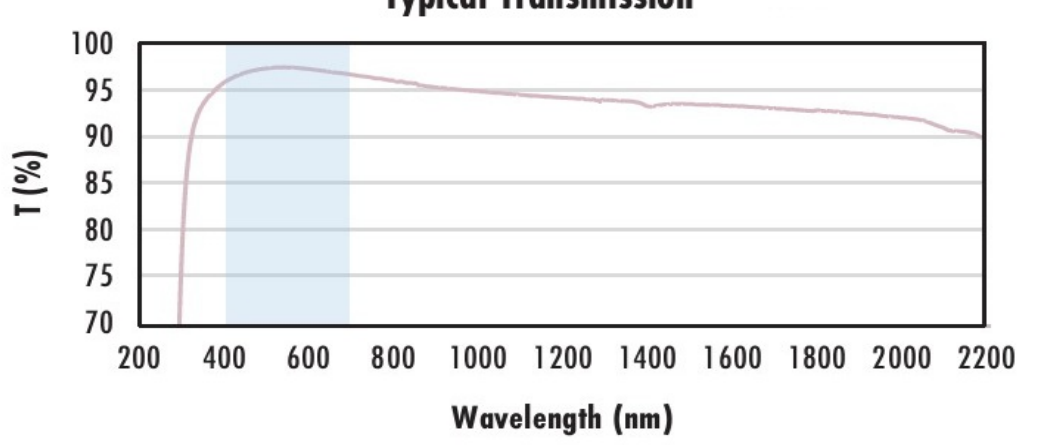
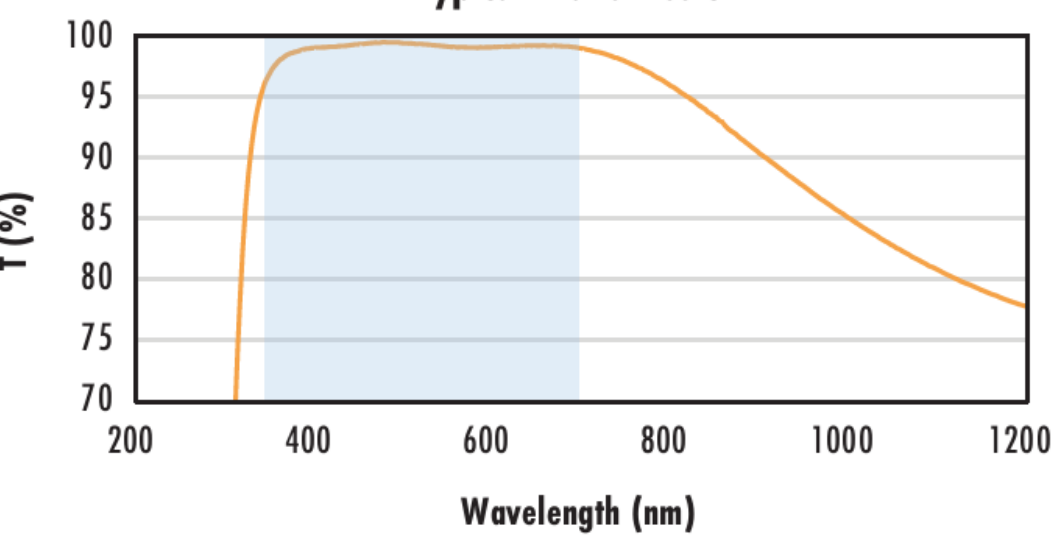
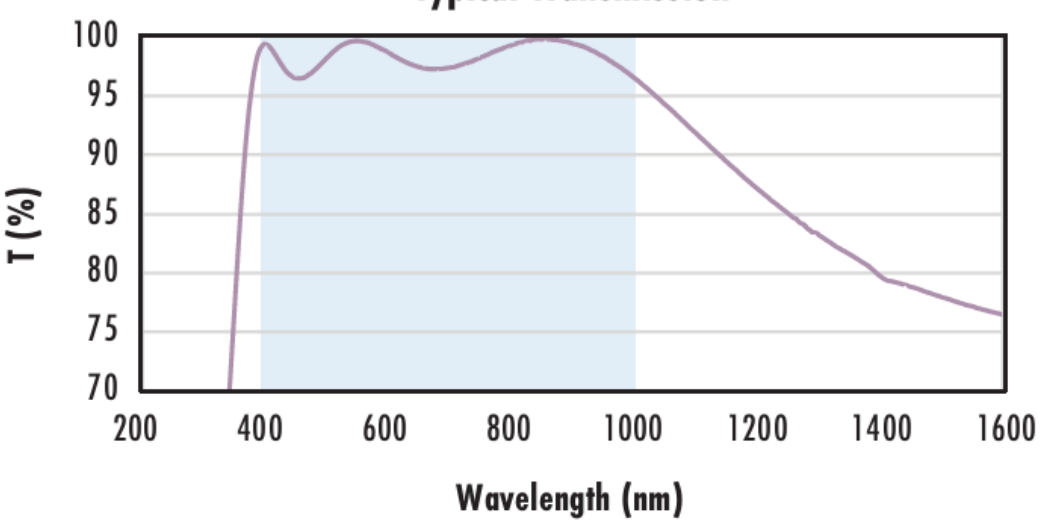
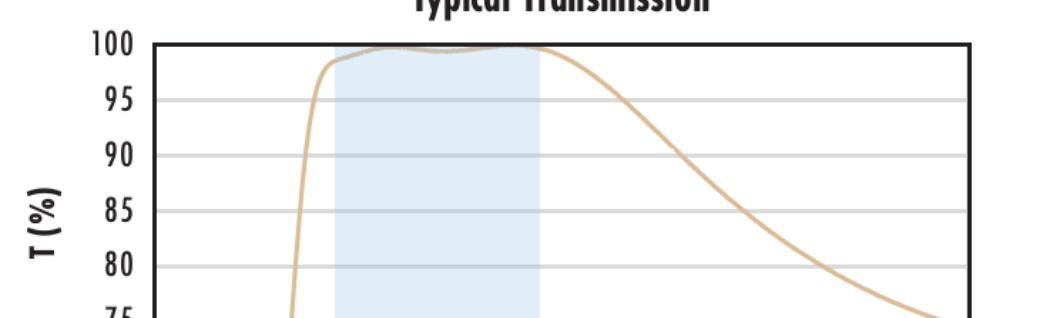
|                                     |                             |
|-------------------------------------|-----------------------------|
| Regulatory Compliance               |                             |
| Compliant                           | RoHS 2015:                  |
| View              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

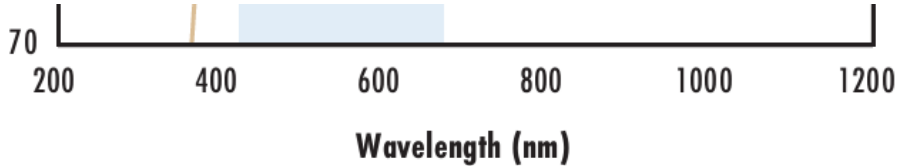
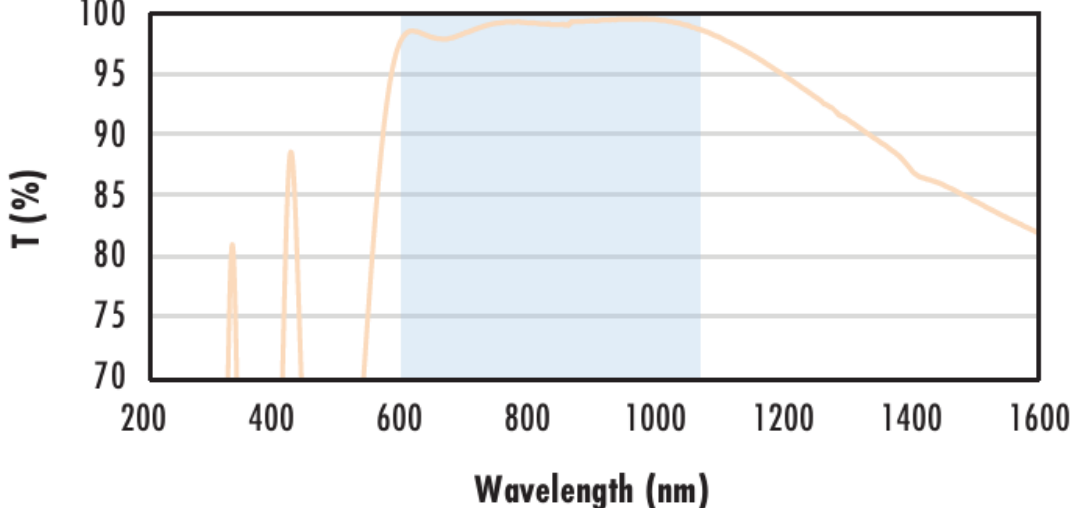
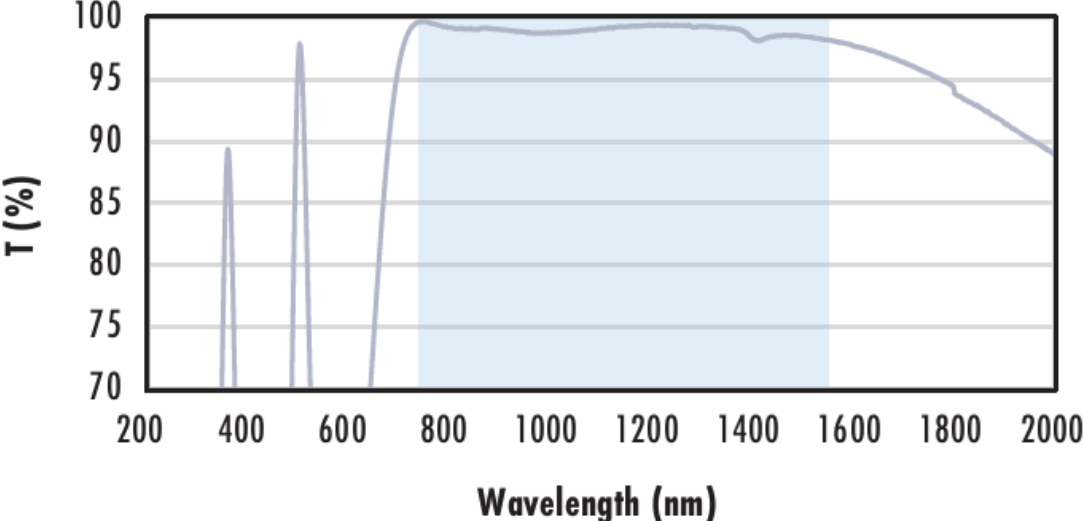
## Product Details

- Negative Focal Lengths for Beam Expansion or Light Projection Applications
- Optimized for R<0.25% at both 532nm and 1064nm
- AR Coated to Provide <1.0% Reflectance per Surface for 500 - 1100nm
- Various Coating Options: [Uncoated](#), [VIS-EXT](#), [MgF<sub>2</sub>](#), [VIS 0°](#), [VIS-NIR](#), [NIR I](#), [NIR II](#), and [1064nm V-Coat](#)

TECHSPEC® YAG-BBAR Coated Plano-Concave (PCV) Lenses are designed to bend parallel input rays to diverge from one another on the output side of the lens causing this lens to have a negative focal length. These lenses can be used for balancing aberrations created by other lenses within a system due to their negative spherical aberration. Plano-Concave (PCV) lenses are commonly used in a variety of applications including image reduction, beam expansion and telescopes. TECHSPEC® YAG-BBAR Coated Plano-Concave (PCV) Lenses feature less than 0.25% reflection at common Nd:YAG laser wavelengths of 532nm and 1064nm. These lenses are also available [Uncoated](#), [VIS-EXT](#), [MgF<sub>2</sub>](#), [VIS 0°](#), [VIS-NIR](#), [NIR I](#), or with [NIR II](#) AR coating options.

## Technical Information

|                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div data-bbox="262 133 1249 652"><h3>Uncoated N-BK7 Typical Transmission</h3></div>                       | <p>Typical transmission of a 3mm thick, uncoated N-BK7 window across the UV- NIR spectra.</p> <p><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                                                                                                                                                                                                               |
| <div data-bbox="262 727 1249 1216"><h3>N-BK7 with MgF<sub>2</sub> Coating Typical Transmission</h3></div> | <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\% @ 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>                                                                                                            |
| <div data-bbox="262 1246 1249 1855"><h3>N-BK7 with VIS-EXT Coating Typical Transmission</h3></div>       | <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>                                                                                                                  |
| <div data-bbox="262 1884 1249 2463"><h3>N-BK7 with VIS-NIR Coating Typical Transmission</h3></div>       | <p>Typical transmission of a 3mm thick N-BK7 window with VIS-NIR (400-1000nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{abs} \leq 0.25\% @ 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> |
| <div data-bbox="262 2493 1249 2878"><h3>N-BK7 with VIS 0° Coating Typical Transmission</h3></div>        | <p>Typical transmission of a 3mm thick N-BK7 window with VIS 0° (425-675nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{avg} \leq 0.4\% @ 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 data-bbox="569 278 1037 373"><b>N-BK7 with YAG-BBAR Coating</b><br/><b>Typical Transmission</b></p>    | <p data-bbox="1339 409 1839 457">Typical transmission of a 3mm thick N-BK7 window with YAG-BBAR (500-1100nm) coating at 0° AOI.</p> <p data-bbox="1331 471 1850 519">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <div data-bbox="1467 534 1711 608"><p><math>R_{abs} \leq 0.25\% @ 532\text{nm}</math></p><p><math>R_{abs} \leq 0.25\% @ 1064\text{nm}</math></p><p><math>R_{avg} \leq 1.0\% @ 500 - 1100\text{nm}</math></p></div> <p data-bbox="1339 620 1839 667">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1472 682 1707 703"><a href="#">Click Here to Download Data</a></p>                     |
| <p data-bbox="617 905 1008 1000"><b>N-BK7 with NIR I Coating</b><br/><b>Typical Transmission</b></p>    | <p data-bbox="1339 1071 1839 1118">Typical transmission of a 3mm thick N-BK7 window with NIR I (600 - 1050nm) coating at 0° AOI.</p> <p data-bbox="1331 1133 1850 1181">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <div data-bbox="1467 1196 1711 1219"><p><math>R_{avg} \leq 0.5\% @ 600 - 1050\text{nm}</math></p></div> <p data-bbox="1339 1234 1839 1282">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1472 1297 1707 1317"><a href="#">Click Here to Download Data</a></p>                                                                                                                         |
| <p data-bbox="606 1552 1016 1647"><b>N-BK7 with NIR II Coating</b><br/><b>Typical Transmission</b></p>  | <p data-bbox="1339 1676 1839 1724">Typical transmission of a 3mm thick N-BK7 window with NIR II (750 - 1550nm) coating at 0° AOI.</p> <p data-bbox="1331 1739 1850 1786">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <div data-bbox="1467 1801 1711 1875"><p><math>R_{abs} \leq 1.5\% @ 750 - 800\text{nm}</math></p><p><math>R_{abs} \leq 1.0\% @ 800 - 1550\text{nm}</math></p><p><math>R_{avg} \leq 0.7\% @ 750 - 1550\text{nm}</math></p></div> <p data-bbox="1339 1911 1839 1958">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1472 1973 1707 1994"><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.

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

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