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TECHSPEC<sup>®</sup> 12.5mm Dia. x 30.0mm FL, MgF<sub>2</sub> Coated, Plano-Convex Lens



Stock **#38-237** **1 In Stock**

☐ [Other Coating Options](#)

-

1

+

₹3,262

Price inclusive of all taxes

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-9        | ₹3,262 each                   |
| Qty 10-24      | ₹2,917 each                   |
| Qty 25-49      | ₹2,618 each                   |
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General

Plano-Convex Lens

Type:

Physical & Mechanical Properties

Diameter (mm):

|                           |                      |
|---------------------------|----------------------|
| 12.50 +0.0/-0.025         |                      |
| Centering (arcmin):       | <1                   |
| Center Thickness CT (mm): | 2.70 ±0.05           |
| Edge Thickness ET (mm):   | 1.39                 |
| Clear Aperture CA (mm):   | 11.5                 |
| Bevel:                    | Protective as needed |

|                                  |                                       |
|----------------------------------|---------------------------------------|
| Optical Properties               |                                       |
| Effective Focal Length EFL (mm): | 30.00 @ 587.6nm                       |
| Back Focal Length BFL (mm):      | 28.22                                 |
| Coating:                         | MgF <sub>2</sub> (400-700nm)          |
| Coating Specification:           | R <sub>avg</sub> ≤1.75% @ 400 - 700nm |
| 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):      | 15.51                                 |
| f##:                             | 2.4                                   |
| Numerical Aperture NA:           | 0.21                                  |
| Wavelength Range (nm):           | 400 - 700                             |
| Damage Threshold, Reference: □   | 10 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 |

## Need different specs or modifications?

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

Our capabilities include:

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

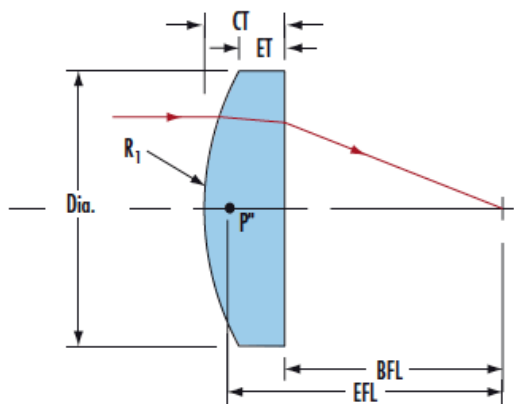
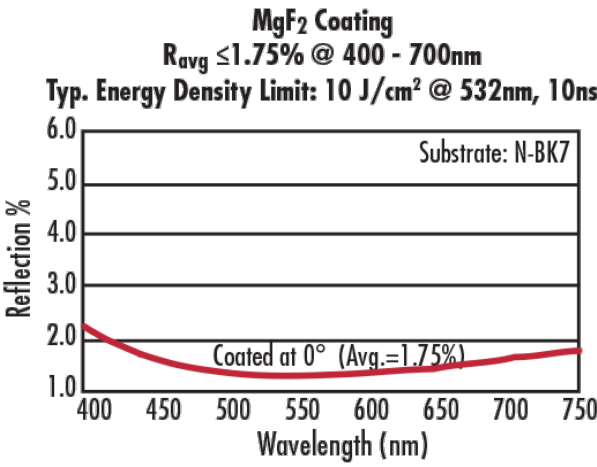
Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

## Product Details

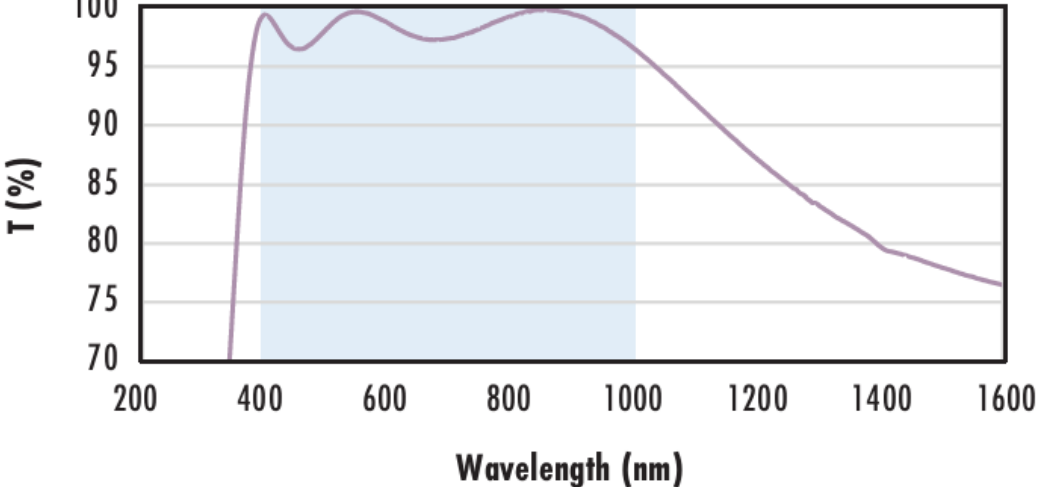
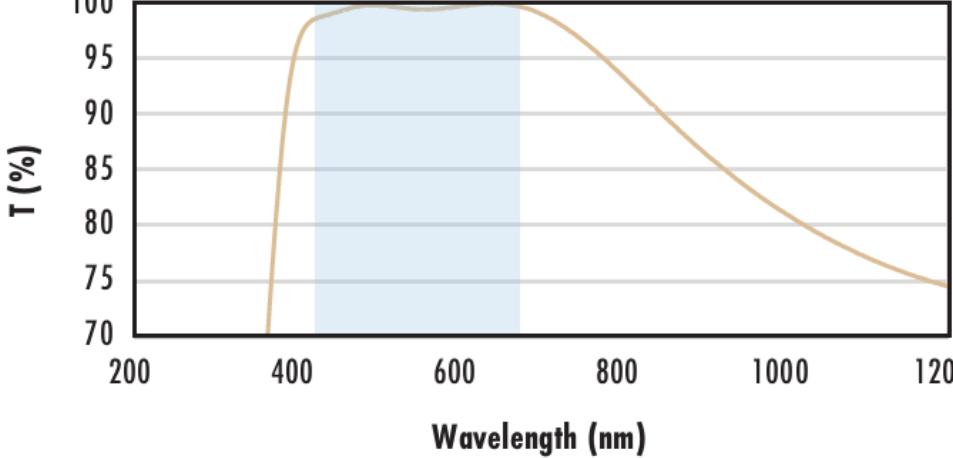
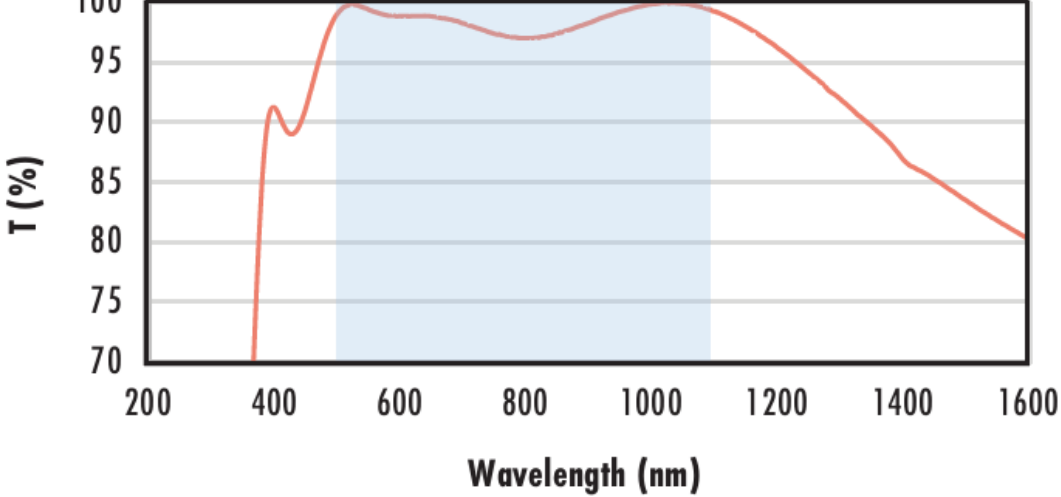
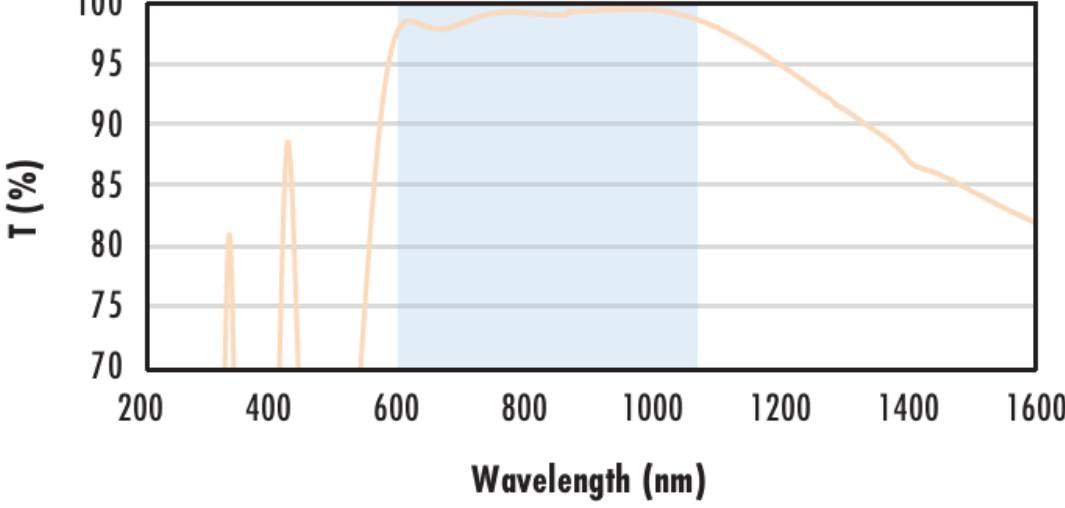
- AR Coated to Provide <1.75% Reflectance per Surface for 400 - 700nm
- Designed for 0° Angle of Incidence
- Various PCX Coating Options: [Uncoated](#), [VIS 0°](#), [VIS-NIR](#), [NIR I](#), [NIR II](#), [VIS-EXT](#), and [YAG-BBAR](#)
- Also Available [Pre-Mounted in Engraved C-Mount Housings](#)

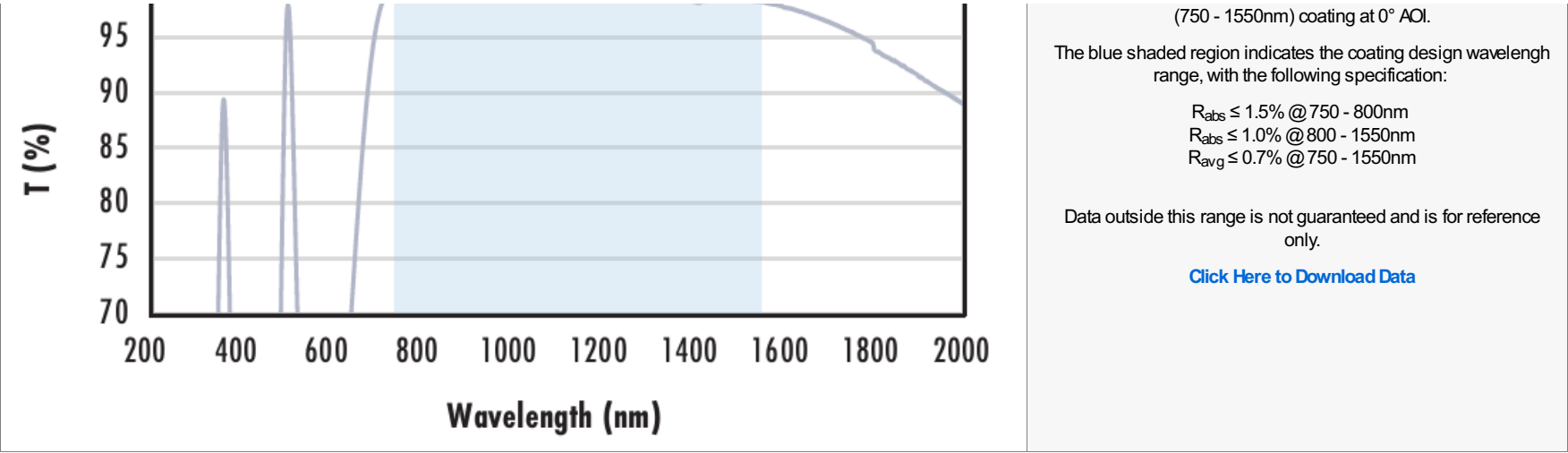
TECHSPEC® MgF2 Coated Plano-Convex (PCX) Lenses have a positive focal length, making them ideal for collecting and focusing light in imaging applications. They are also useful in a variety of applications involving emitters, detectors, lasers, and fiber optics. TECHSPEC® MgF2 Coated Plano-Convex (PCX) 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 [VIS 0°](#), [VIS-NIR](#), [NIR I](#), [NIR II](#), [VIS-EXT](#), and [YAG-BBAR](#).

Technical Information



| N-BK7                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Uncoated N-BK7 Typical Transmission</b></p> <p>T (%)</p> <p>Wavelength (nm)</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>T (%)</p> <p>Wavelength (nm)</p> | <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>R<sub>avg</sub> ≤ 1.75% @ 400 - 700nm (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> |
| <p><b>N-BK7 with VIS-EXT Coating Typical Transmission</b></p> <p>T (%)</p> <p>Wavelength (nm)</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>R<sub>avg</sub> ≤ 0.5% @ 350 - 700nm</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="583 261 1008 350"><b>N-BK7 with VIS-NIR Coating</b><br/><b>Typical Transmission</b></p>       | <p data-bbox="1331 379 1850 427">Typical transmission of a 3mm thick N-BK7 window with VIS-NIR (400-1000nm) coating at 0° AOI.</p> <p data-bbox="1331 442 1850 489">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <div data-bbox="1465 504 1715 575"><p><math>R_{abs} \leq 0.25\% \text{ @ } 880\text{nm}</math></p><p><math>R_{avg} \leq 1.25\% \text{ @ } 400 - 870\text{nm}</math></p><p><math>R_{avg} \leq 1.25\% \text{ @ } 890 - 1000\text{nm}</math></p></div> <p data-bbox="1341 614 1839 661">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1472 676 1709 694"><a href="#">Click Here to Download Data</a></p>      |
| <p data-bbox="594 884 976 973"><b>N-BK7 with VIS 0° Coating</b><br/><b>Typical Transmission</b></p>        | <p data-bbox="1337 1015 1845 1062">Typical transmission of a 3mm thick N-BK7 window with VIS 0° (425-675nm) coating at 0° AOI.</p> <p data-bbox="1331 1077 1850 1124">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <div data-bbox="1476 1139 1707 1163"><p><math>R_{avg} \leq 0.4\% \text{ @ } 425 - 675\text{nm}</math></p></div> <p data-bbox="1341 1178 1839 1225">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1472 1240 1709 1258"><a href="#">Click Here to Download Data</a></p>                                                                                                                                    |
| <p data-bbox="567 1478 1037 1567"><b>N-BK7 with YAG-BBAR Coating</b><br/><b>Typical Transmission</b></p>  | <p data-bbox="1341 1608 1845 1656">Typical transmission of a 3mm thick N-BK7 window with YAG-BBAR (500-1100nm) coating at 0° AOI.</p> <p data-bbox="1331 1670 1850 1718">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <div data-bbox="1467 1733 1711 1804"><p><math>R_{abs} \leq 0.25\% \text{ @ } 532\text{nm}</math></p><p><math>R_{abs} \leq 0.25\% \text{ @ } 1064\text{nm}</math></p><p><math>R_{avg} \leq 1.0\% \text{ @ } 500 - 1100\text{nm}</math></p></div> <p data-bbox="1341 1819 1839 1866">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1472 1881 1709 1899"><a href="#">Click Here to Download Data</a></p> |
| <p data-bbox="615 2101 1008 2190"><b>N-BK7 with NIR I Coating</b><br/><b>Typical Transmission</b></p>     | <p data-bbox="1341 2267 1845 2315">Typical transmission of a 3mm thick N-BK7 window with NIR I (600 - 1050nm) coating at 0° AOI.</p> <p data-bbox="1331 2329 1850 2377">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <div data-bbox="1472 2392 1711 2415"><p><math>R_{avg} \leq 0.5\% \text{ @ } 600 - 1050\text{nm}</math></p></div> <p data-bbox="1341 2430 1839 2478">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1472 2493 1709 2510"><a href="#">Click Here to Download Data</a></p>                                                                                                                                 |
| <p data-bbox="604 2748 1016 2837"><b>N-BK7 with NIR II Coating</b><br/><b>Typical Transmission</b></p>    | <p data-bbox="1341 2873 1845 2890">Typical transmission of a 3mm thick N-BK7 window with NIR II</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |



Coating Curves

Compatible Mounts