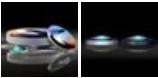


TECHSPEC<sup>®</sup>

# 18,0 mm Dia, x 50,0 mm Brennweite, plankonvexe Linse (PCX) mit geschwärzten Rand und YAG-BBAR Beschichtung



YAG-BBAR Coated Plano-Convex (PCX) Lenses



Produkt **#38-603-INK** KONTAKT

[Andere Beschichtungen](#)

-

1

+

€61<sup>.50</sup>

+ WARENKORB

| Mengenrabatte |                                 |
|---------------|---------------------------------|
| Stk. 1-9      | €61,50 stückpreis               |
| Stk. 10-24    | €55,50 stückpreis               |
| Stk. 25-49    | €49,25 stückpreis               |
| Need More?    | <a href="#">Angebotsanfrage</a> |

Preise exklusiv der geltenden Mehrwertsteuer und Abgaben

Downloadbereich

Produktdetails

Typ:

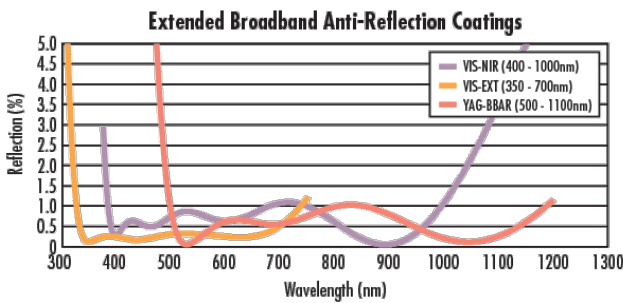
|                                                                                                                   |                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Plano-Convex Lens                                                                                                 |                                                                                                              |
| Physikalische und mechanische Eigenschaften                                                                       |                                                                                                              |
| Durchmesser (mm):                                                                                                 | 18.00 ±0.025                                                                                                 |
| Zentrierung (Bogenminuten):                                                                                       | <1                                                                                                           |
| Mittendicke CT (mm):                                                                                              | 2.90 ±0.10                                                                                                   |
| Randdicke ET (mm):                                                                                                | 1.28                                                                                                         |
| Freie Apertur CA (mm):                                                                                            | 17                                                                                                           |
| Fase:                                                                                                             | Protective as needed                                                                                         |
| Optische Eigenschaften                                                                                            |                                                                                                              |
| Effektive Brennweite EFL (mm):                                                                                    | 50.00 @ 587.6nm                                                                                              |
| Hintere Brennweite BFL (mm):                                                                                      | 48.09                                                                                                        |
| Beschichtung:                                                                                                     | YAG-BBAR (500-1100nm)                                                                                        |
| Beschichtungsspezifikation:                                                                                       | R <sub>abs</sub> <0.25% @ 532nm<br>R <sub>abs</sub> <0.25% @ 1064nm<br>R <sub>avg</sub> <1.0% @ 500 - 1100nm |
| Substrat:                      | N-BK7                                                                                                        |
| Oberflächenqualität:                                                                                              | 40-20                                                                                                        |
| Power (P-V) @ 632,8 nm:                                                                                           | 1.5λ                                                                                                         |
| Unregelmäßigkeit (P-V) @ 632,8 nm:                                                                                | λ/4                                                                                                          |
| Toleranz Brennweite (%):                                                                                          | ±1                                                                                                           |
| Radius R <sub>1</sub> (mm):                                                                                       | 25.84                                                                                                        |
| Blende:                                                                                                           | 2.78                                                                                                         |
| Numerische Apertur NA:                                                                                            | 0.18                                                                                                         |
| Wellenlängenbereich (nm):                                                                                         | 500 - 1100                                                                                                   |
| Zerstörschwelle, laut Design:  | 5 J/cm <sup>2</sup> @ 532nm, 10ns                                                                            |
| Konformität mit Standards                                                                                         |                                                                                                              |
| Konformitätszertifikat:                                                                                           | Anzeigen                                                                                                     |

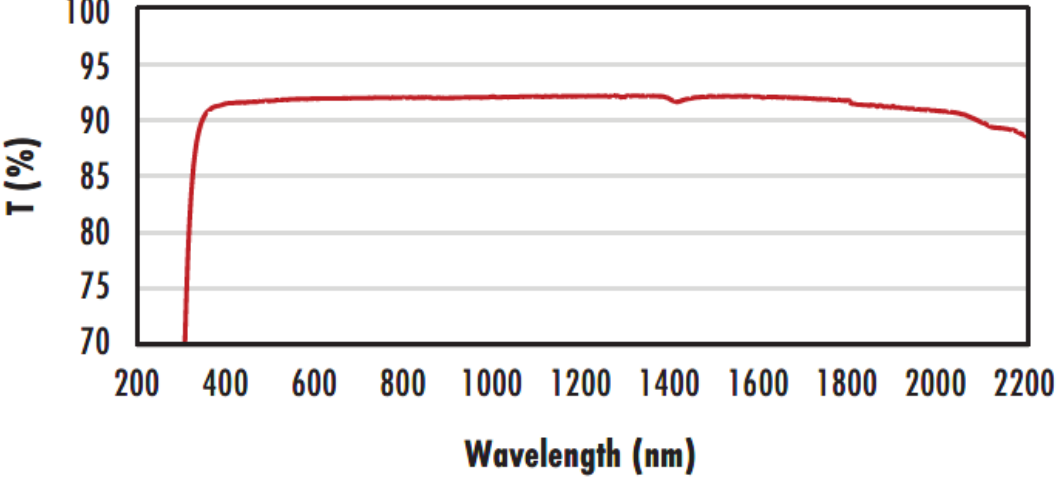
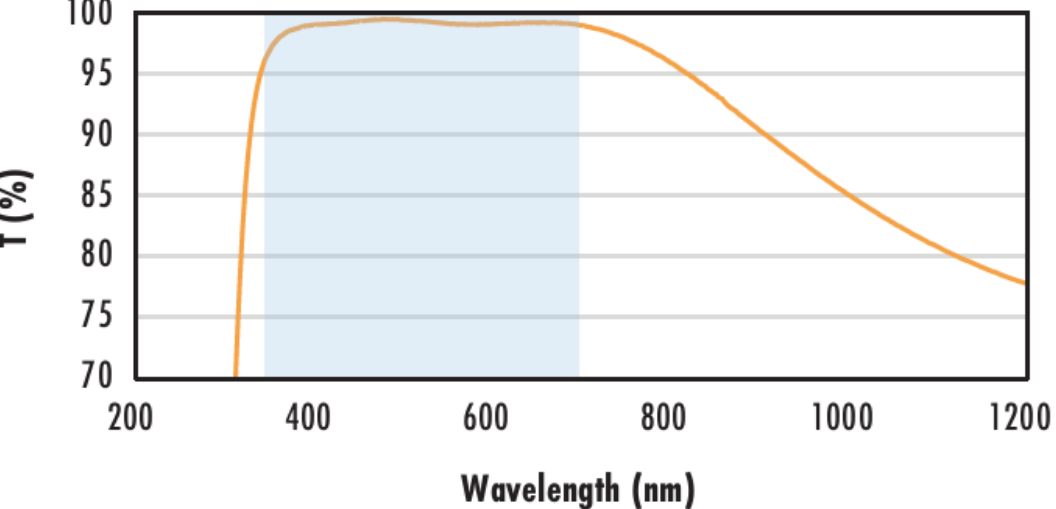
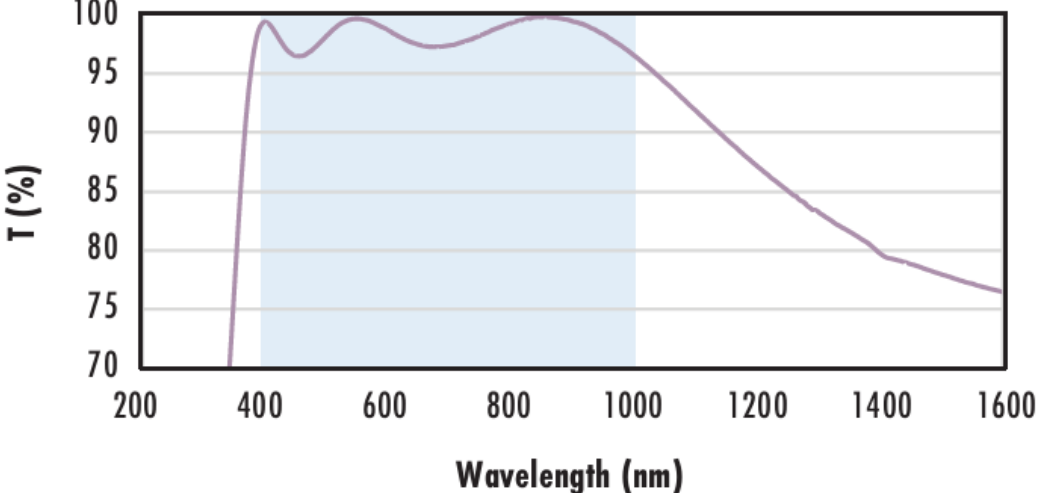
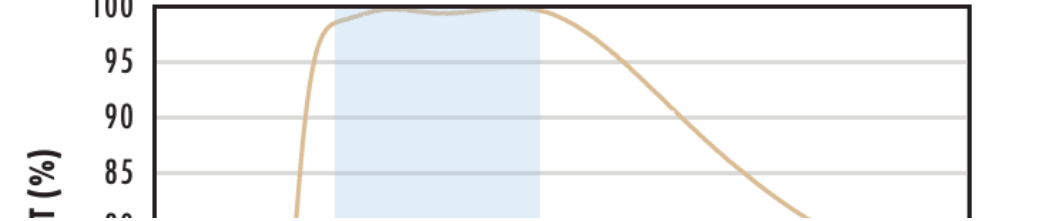
## Produktdetails

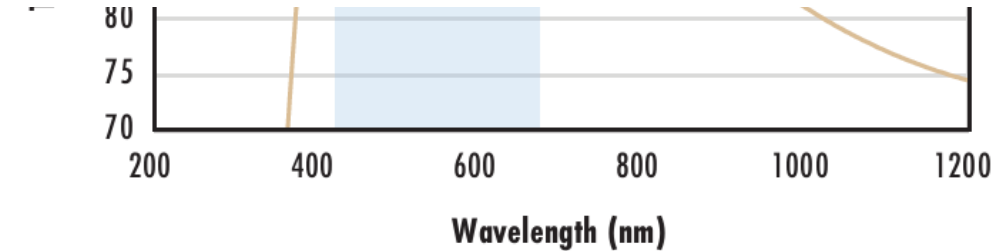
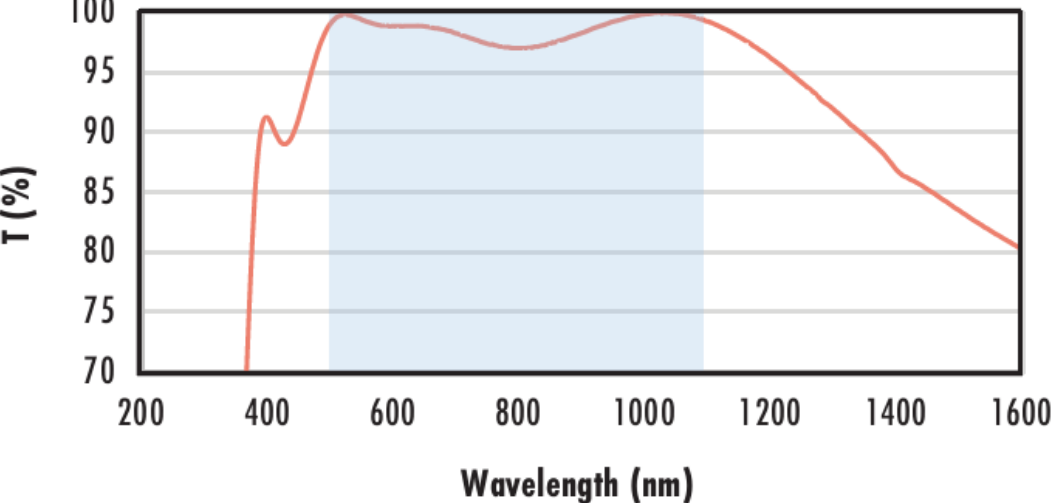
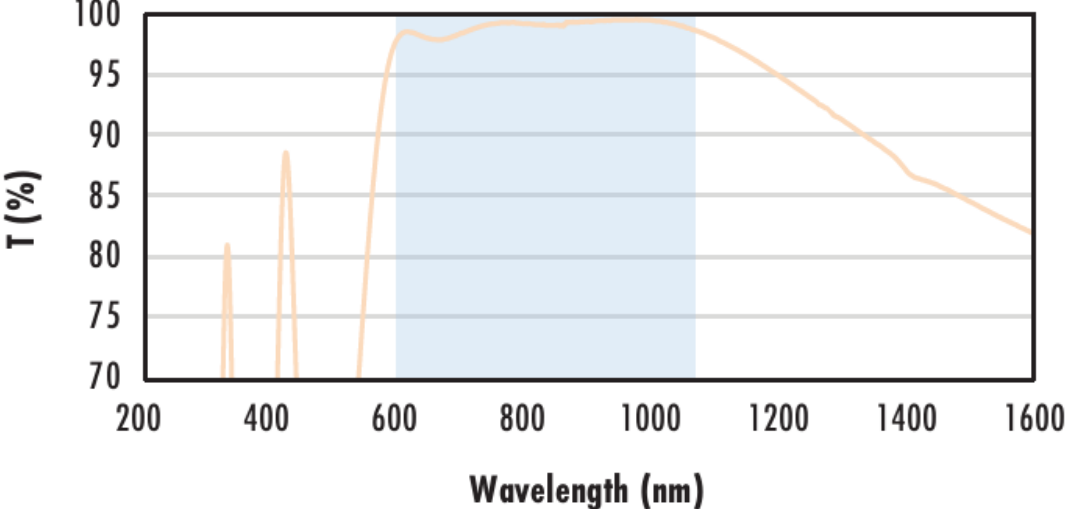
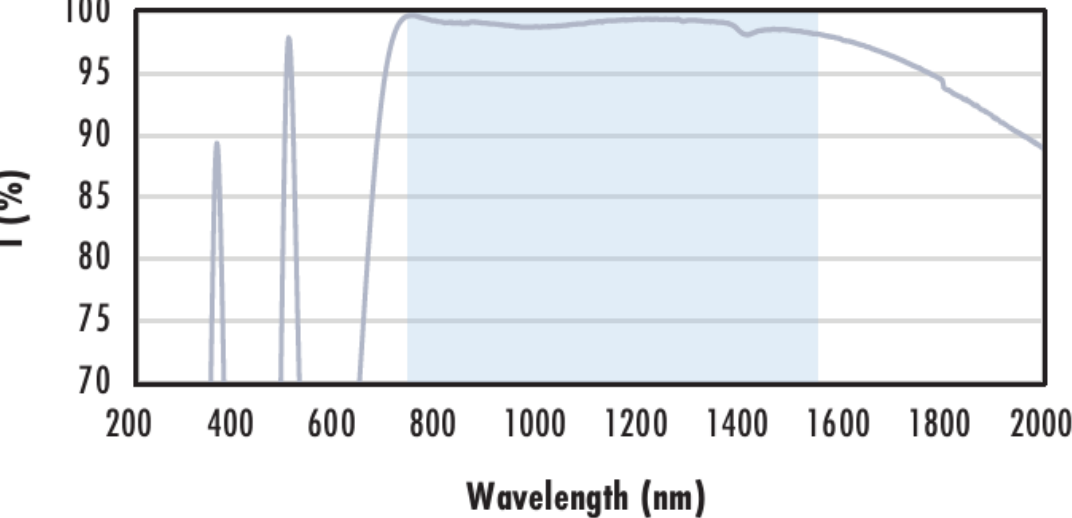
- Optimiert für R <0,25% bei 532 nm und 1064 nm
- AR-beschichtet, dadurch <1,0% Reflexion pro Oberfläche im Bereich von 500 - 1100 nm
- Für 0° Einfallswinkel ausgelegt
- Antireflexionsbeschichtungen erhältlich: [MgF<sub>2</sub>](#), [VIS 0°](#), [VIS-NIR](#), [NIR I](#), [NIR II](#), [VIS-EXT](#) oder [unbeschichtet](#)

TECHSPEC® Plankonvexe Linsen (PCX) mit YAG-BBAR-Beschichtung haben eine positive Brennweite und sind ideal für die Fokussierung von Licht in abbildenden Anwendungen. Sie können gut in Verbindung mit Emittern, Detektoren, Lasern und Faseroptiken eingesetzt werden. TECHSPEC® Plankonvexe Linsen (PCX) mit YAG-BBAR-Beschichtung sind in einer Vielzahl von Durchmessern und Brennweiten erhältlich. Identische Designs dieser Linsen werden auch [unbeschichtet](#) oder mit breitbandigen Antireflexionsbeschichtungen (BBAR) angeboten, dazu gehören [MgF<sub>2</sub>](#), [VIS 0°](#), [VIS-NIR](#), [NIR I](#), [NIR II](#) und [VIS-EXT](#).

## Technische Informationen



| N-BK7                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div><div>Uncoated N-BK7 Typical Transmission</div></div>                      | <div>Typical transmission of a 3mm thick, uncoated N-BK7 window across the UV - NIR spectra.</div> <div><a href="#">Click Here to Download Data</a></div>                                                                                                                                                                                                                                                                                                                                                                                          |
| <div><div>N-BK7 with MgF<sub>2</sub> Coating Typical Transmission</div></div> | <div>Typical transmission of a 3mm thick N-BK7 window with MgF2 (400-700nm) coating at 0° AOI.</div> <div>The blue shaded region indicates the coating design wavelength range, with the following specification:</div> <div><math>R_{avg} \leq 1.75\% @ 400 - 700\text{nm (N-BK7)}</math></div> <div>Data outside this range is not guaranteed and is for reference only.</div> <div><a href="#">Click Here to Download Data</a></div>                                                                                                            |
| <div><div>N-BK7 with VIS-EXT Coating Typical Transmission</div></div>        | <div>Typical transmission of a 3mm thick N-BK7 window with VIS-EXT (350-700nm) coating at 0° AOI.</div> <div>The blue shaded region indicates the coating design wavelength range, with the following specification:</div> <div><math>R_{avg} \leq 0.5\% @ 350 - 700\text{nm}</math></div> <div>Data outside this range is not guaranteed and is for reference only.</div> <div><a href="#">Click Here to Download Data</a></div>                                                                                                                  |
| <div><div>N-BK7 with VIS-NIR Coating Typical Transmission</div></div>        | <div>Typical transmission of a 3mm thick N-BK7 window with VIS-NIR (400-1000nm) coating at 0° AOI.</div> <div>The blue shaded region indicates the coating design wavelength range, with the following specification:</div> <div><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></div> <div>Data outside this range is not guaranteed and is for reference only.</div> <div><a href="#">Click Here to Download Data</a></div> |
| <div><div>N-BK7 with VIS 0° Coating Typical Transmission</div></div>         | <div>Typical transmission of a 3mm thick N-BK7 window with VIS 0° (425-675nm) coating at 0° AOI.</div> <div>The blue shaded region indicates the coating design wavelength range, with the following specification:</div> <div><math>R_{avg} \leq 0.4\% @ 425 - 675\text{nm}</math></div> <div>Data outside this range is not guaranteed and is for reference only.</div>                                                                                                                                                                          |

|                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                             | <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\% @ 532nm</math><br/><math>R_{abs} \leq 0.25\% @ 1064nm</math><br/><math>R_{avg} \leq 1.0\% @ 500 - 1100nm</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 - 1050nm</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 - 800nm</math><br/><math>R_{abs} \leq 1.0\% @ 800 - 1550nm</math><br/><math>R_{avg} \leq 0.7\% @ 750 - 1550nm</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> |

## Kundenspezifische Produkte

Edmund Optics bietet einen umfangreichen kundenspezifischen Fertigungsservice für Optik- und Bildverarbeitungskomponenten an, speziell hergestellt für Ihre Anwendungsanforderungen. Wir ermöglichen flexible Lösungen für Ihre Bedürfnisse – von der Prototypenphase bis zur Serienfertigung. Unsere erfahrenen IngenieurInnen freuen sich auf die Zusammenarbeit und unterstützen Sie bei jedem Projektschritt.

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## Kompatible Halterungen

