

TECHSPEC[®] Plankonvexe Linse, 35 mm D. x 100 mm BW, YAG-BBAR-beschichtet



YAG-BBAR Coated Plano-Convex (PCX) Lenses



Produkt **#38-614** **4 In Stock**

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1

+

€64⁰⁰

+ WARENKORB

Mengenrabatte	
Stk. 1-9	€64,00 stückpreis
Stk. 10-24	€58,00 stückpreis
Stk. 25-49	€51,00 stückpreis
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Produktdetails

Plano-Convex Lens

Typ:

Physikalische und mechanische Eigenschaften

35.00 +0.0/-0.025	Durchmesser (mm):
<1	Zentrierung (Bogenminuten):
4.50 ±0.10	Mittendicke CT (mm):
1.45	Randdicke ET (mm):
34	Freie Apertur CA (mm):
Protective as needed	Fase:

Optische Eigenschaften

100.00 @ 587.6nm	Effektive Brennweite EFL (mm):
97.03	Hintere Brennweite BFL (mm):
YAG-BBAR (500-1100nm)	Beschichtung:
R _{abs} <0.25% @ 532nm R _{abs} <0.25% @ 1064nm R _{avg} <1.0% @ 500 - 1100nm	Beschichtungsspezifikation:
N-BK7	Substrat: ☐
40-20	Oberflächenqualität:
1.5λ	Power (P-V) @ 632,8 nm:
λ/4	Unregelmäßigkeit (P-V) @ 632,8 nm:
±1	Toleranz Brennweite (%):
51.68	Radius R ₁ (mm):
2.86	Blende:
0.18	Numerische Apertur NA:
500 - 1100	Wellenlängenbereich (nm):
5 J/cm² @ 532nm, 10ns	Zerstörschwelle, laut Design: ☐

Konformität mit Standards

Konform	RoHS 2015:
Anzeigen	Konformitätszertifikat:
Konform	Reach 235:

Produktdetails

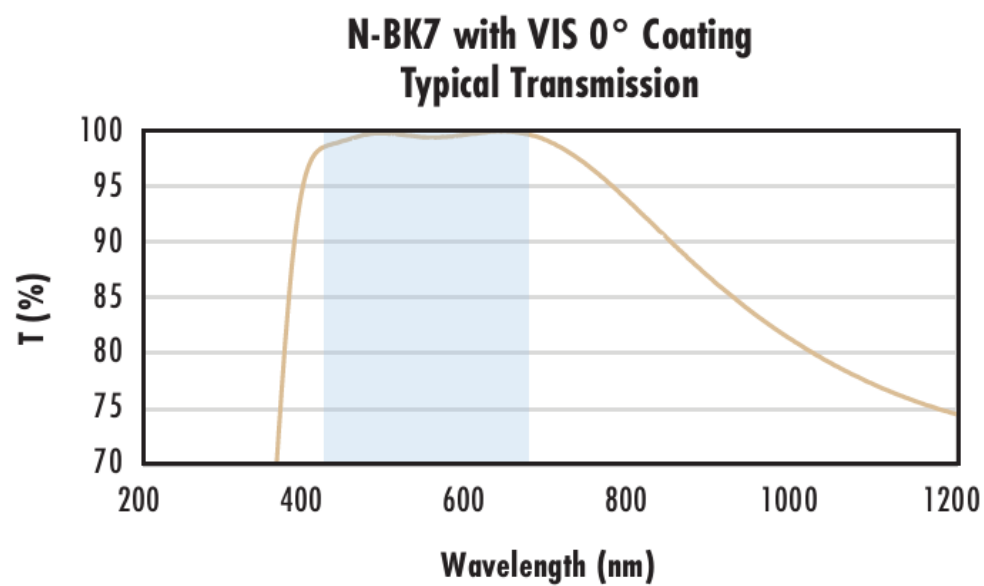
- Optimiert für R <0,25% bei 532 nm und 1064 nm
 - AR-beschichtet, dadurch <1,0% Reflexion pro Oberfläche im Bereich von 500 - 1100 nm
 - Für 0° Einfallswinkel ausgelegt
 - Antireflexionsbeschichtungen erhältlich: **MgF₂**, **VIS 0°**, **VIS-NIR**, **NIR I**, **NIR II**, **VIS-EXT** oder **unbeschichtet**

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 Emittlern, 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 **MgF₂**, **VIS 0°**, **VIS-NIR**, **NIR I**, **NIR II** und **VIS-EXT**.

Technische Informationen



N-BK7	
Uncoated N-BK7 Typical Transmission This graph shows the typical transmission of a 3mm thick, uncoated N-BK7 window across the UV - NIR spectra. The Y-axis represents T (%) from 70 to 100, and the X-axis represents Wavelength (nm) from 200 to 2200. The transmission is high, starting at ~70% at 200 nm, rising to ~92% at 300 nm, and remaining above 90% up to 2200 nm.	Typical transmission of a 3mm thick, uncoated N-BK7 window across the UV - NIR spectra. Click Here to Download Data
N-BK7 with MgF₂ Coating Typical Transmission This graph shows the typical transmission of a 3mm thick N-BK7 window with MgF2 (400-700nm) coating at 0° AOI. The Y-axis represents T (%) from 70 to 100, and the X-axis represents Wavelength (nm) from 200 to 2200. The transmission is high, starting at ~70% at 200 nm, rising to ~92% at 300 nm, and remaining above 90% up to 2200 nm. A blue shaded region indicates the coating design wavelength range from 400 to 700 nm.	Typical transmission of a 3mm thick N-BK7 window with MgF2 (400-700nm) coating at 0° AOI. The blue shaded region indicates the coating design wavelength range, with the following specification: $R_{avg} \leq 1.75\% @ 400 - 700\text{nm}$ (N-BK7) Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
N-BK7 with VIS-EXT Coating Typical Transmission This graph shows the typical transmission of a 3mm thick N-BK7 window with VIS-EXT (350-700nm) coating at 0° AOI. The Y-axis represents T (%) from 70 to 100, and the X-axis represents Wavelength (nm) from 200 to 1200. The transmission is high, starting at ~70% at 200 nm, rising to ~92% at 300 nm, and remaining above 90% up to 1200 nm. A blue shaded region indicates the coating design wavelength range from 350 to 700 nm.	Typical transmission of a 3mm thick N-BK7 window with VIS-EXT (350-700nm) coating at 0° AOI. The blue shaded region indicates the coating design wavelength range, with the following specification: $R_{avg} \leq 0.5\% @ 350 - 700\text{nm}$ Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
N-BK7 with VIS-NIR Coating Typical Transmission This graph shows the typical transmission of a 3mm thick N-BK7 window with VIS-NIR (400-1000nm) coating at 0° AOI. The Y-axis represents T (%) from 70 to 100, and the X-axis represents Wavelength (nm) from 200 to 1600. The transmission is high, starting at ~70% at 200 nm, rising to ~92% at 300 nm, and remaining above 90% up to 1600 nm. A blue shaded region indicates the coating design wavelength range from 400 to 1000 nm.	Typical transmission of a 3mm thick N-BK7 window with VIS-NIR (400-1000nm) coating at 0° AOI. The blue shaded region indicates the coating design wavelength range, with the following specification: $R_{abs} \leq 0.25\% @ 880\text{nm}$ $R_{avg} \leq 1.25\% @ 400 - 870\text{nm}$ $R_{avg} \leq 1.25\% @ 890 - 1000\text{nm}$ Data outside this range is not guaranteed and is for reference only. Click Here to Download Data



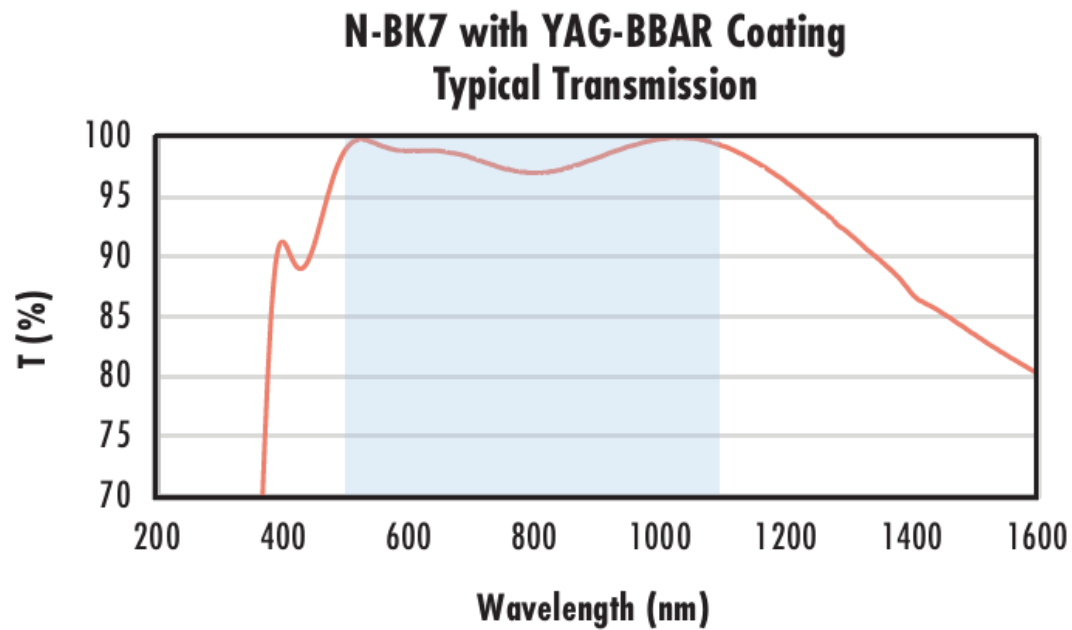
Typical transmission of a 3mm thick N-BK7 window with VIS 0°
(425-675nm) coating at 0° AOI.

The blue shaded region indicates the coating design wavelength range, with the following specification:

$$R_{avg} \leq 0.4\% @ 425 - 675nm$$

Data outside this range is not guaranteed and is for reference only.

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Typical transmission of a 3mm thick N-BK7 window with YAG-BBAR (500-1100nm) coating at 0° AOI.

The blue shaded region indicates the coating design wavelength range, with the following specification:

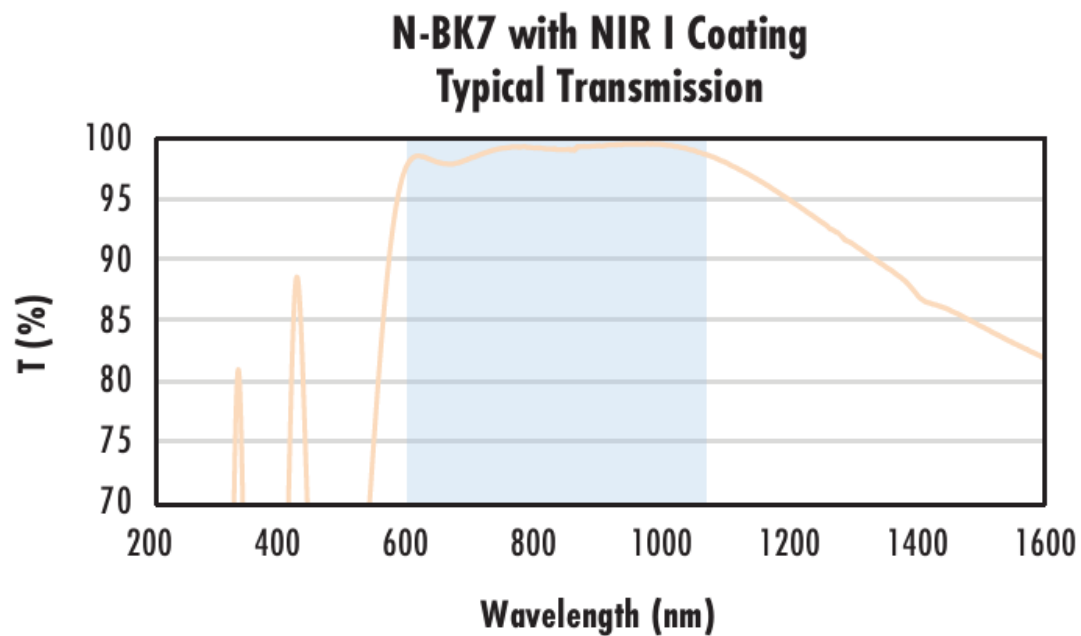
$$R_{\text{abs}} \leq 0.25\% @ 532\text{nm}$$

$$R_{\text{abs}} \leq 0.25\% @ 1064\text{nm}$$

$$R_{avg} \leq 1.0\% @ 500 - 1100\text{nm}$$

Data outside this range is not guaranteed and is for reference only.

[Click Here to Download Data](#)



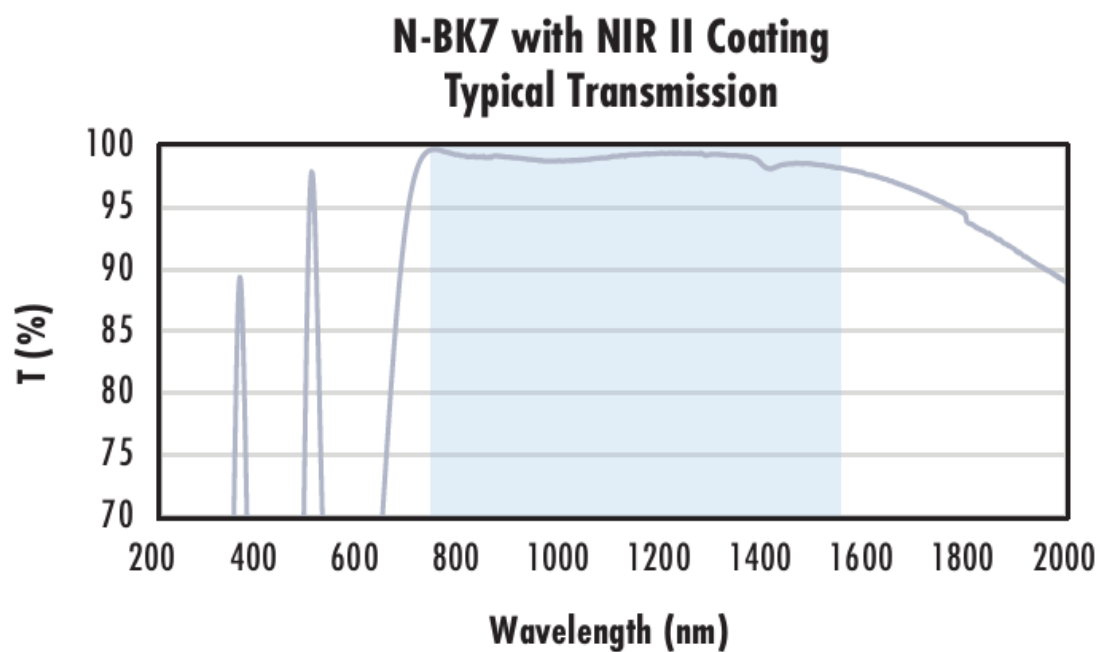
Typical transmission of a 3mm thick N-BK7 window with NIR I
(600 - 1050nm) coating at 0° AOI.

The blue shaded region indicates the coating design wavelength range, with the following specification:

$$R_{avg} \leq 0.5\% @ 600 - 1050\text{nm}$$

Data outside this range is not guaranteed and is for reference only.

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Typical transmission of a 3mm thick N-BK7 window with NIR II (750 - 1550nm) coating at 0° AOI.

The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{\text{abs}} \leq 1.5\% @ 750 - 800\text{nm}$

$R_{\text{abs}} \leq 1.0\% @ 800 - 1550\text{nm}$

$$R_{avg} \leq 0.7\% @ 750 - 1550\text{nm}$$

Data outside this range is not guaranteed and is for reference only.

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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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