

TECHSPEC[®] Doppelkonvexe Linse, 15 mm D. x 30 mm BW, YAG-BBAR-Beschichtung



YAG-BBAR Coated Double-Convex (DCX) Lenses



Produkt **#89-250** KONTAKT

☐ [Andere Beschichtungen](#)

-

1

+

€51^{,00}

+ WARENKORB

Mengenrabatte	
Stk. 1-9	€51,50 stückpreis
Stk. 10-24	€46,25 stückpreis
Stk. 25-99	€41,25 stückpreis
Need More?	Angebotsanfrage

Preise exklusiv der geltenden Mehrwertsteuer und Abgaben

Downloadbereich

Produktdetails

Double-Convex Lens

Typ:

Physikalische und mechanische Eigenschaften

15.00 +0.0/-0.025	Durchmesser (mm):
<1	Zentrierung (Bogenminuten):
Protective as needed	Fase:
4.00	Mittendicke CT (mm):
±0.10	Toleranz Mittendicke (mm):
2.13	Randdicke ET (mm):
14.00	Freie Apertur CA (mm):

Optische Eigenschaften

28.82	Hintere Brennweite BFL (mm):
30.00	Effektive Brennweite EFL (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:
30.5	Radius R ₁ =R ₂ (mm):
2.00	Blende:
587.6	Designwellenlänge Brennweite (nm):
±1	Toleranz Brennweite (%):
0.25	Numerische Apertur NA:
350 - 2200	Wellenlängenbereich (nm):
5 J/cm² @ 532nm, 10ns	Zerstörschwelle, laut Design: ☐

Konformität mit Standards

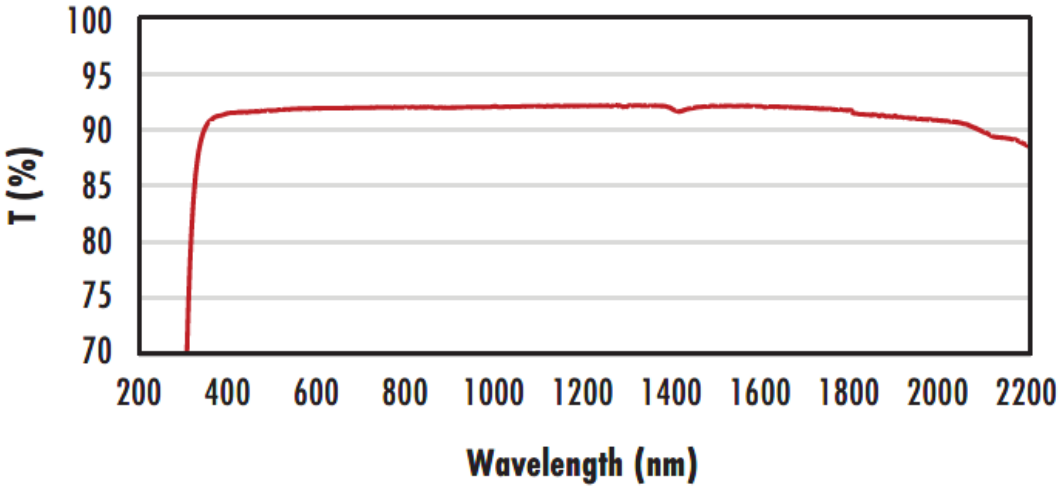
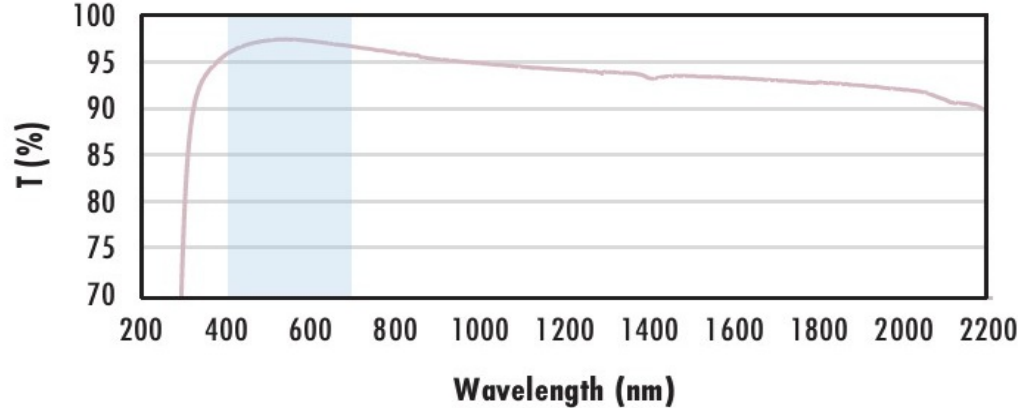
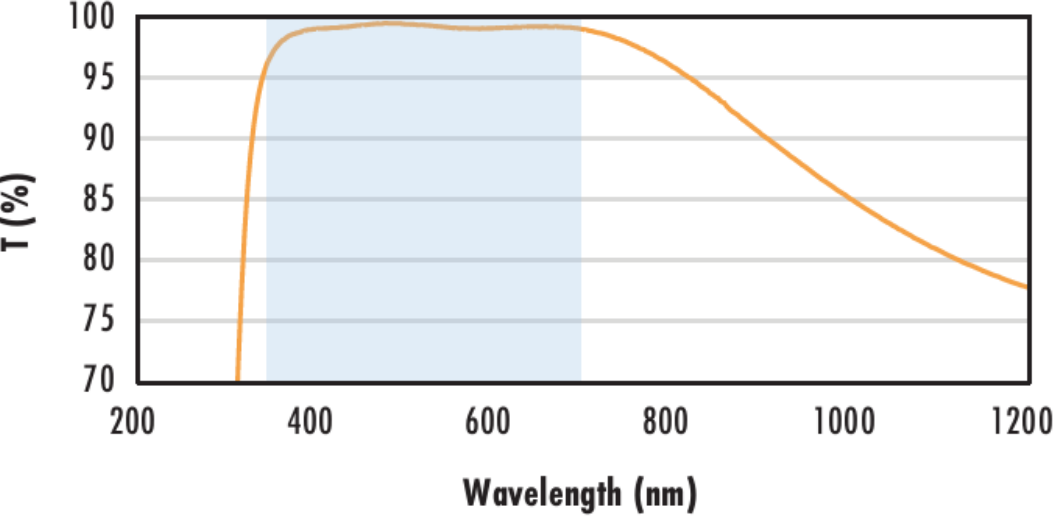
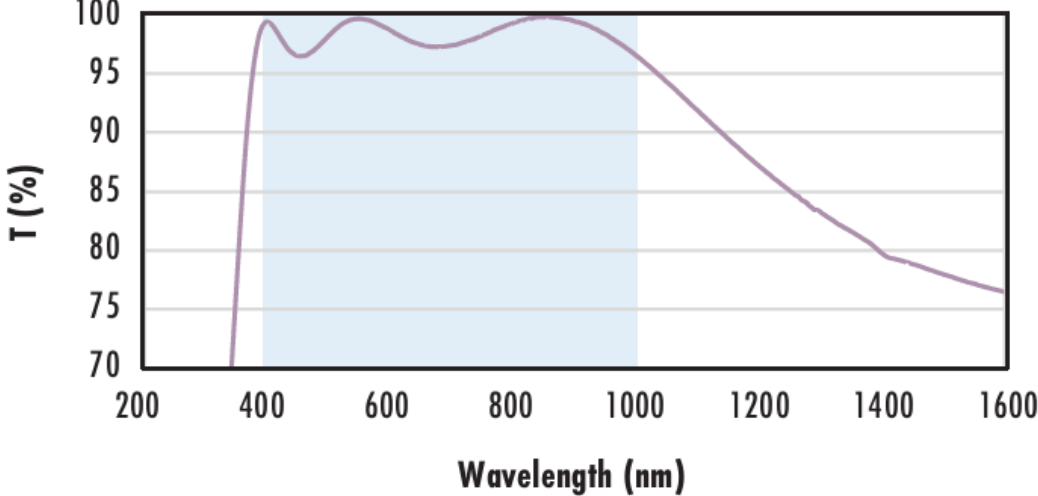
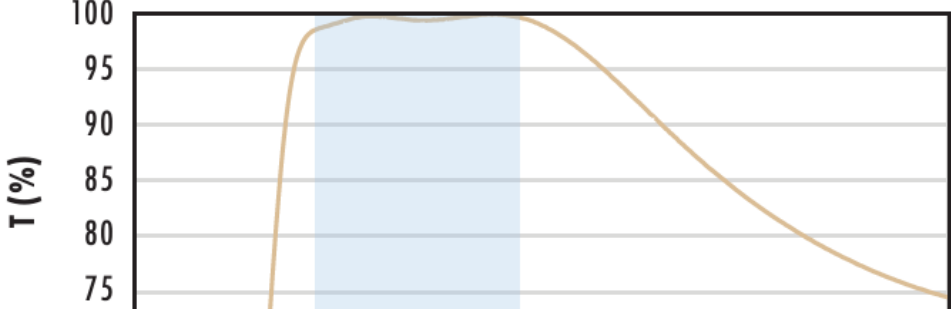
Konform	RoHS 2015:
Anzeigen	Konformitätszertifikat:
Konform	Reach 235:

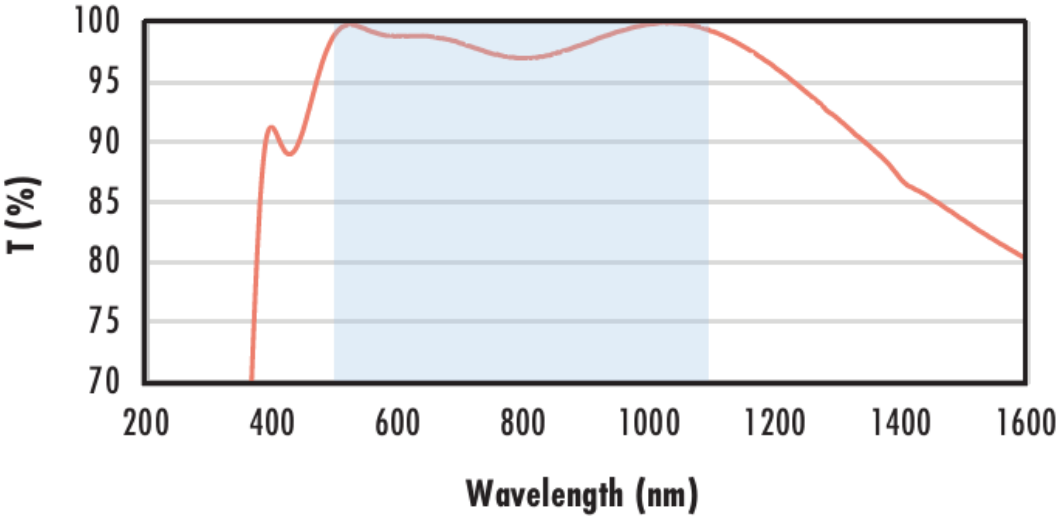
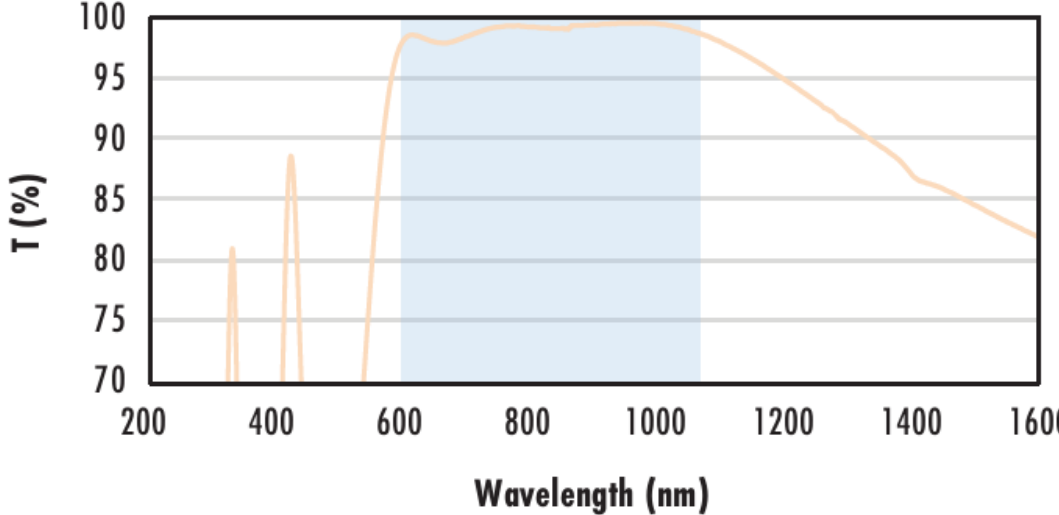
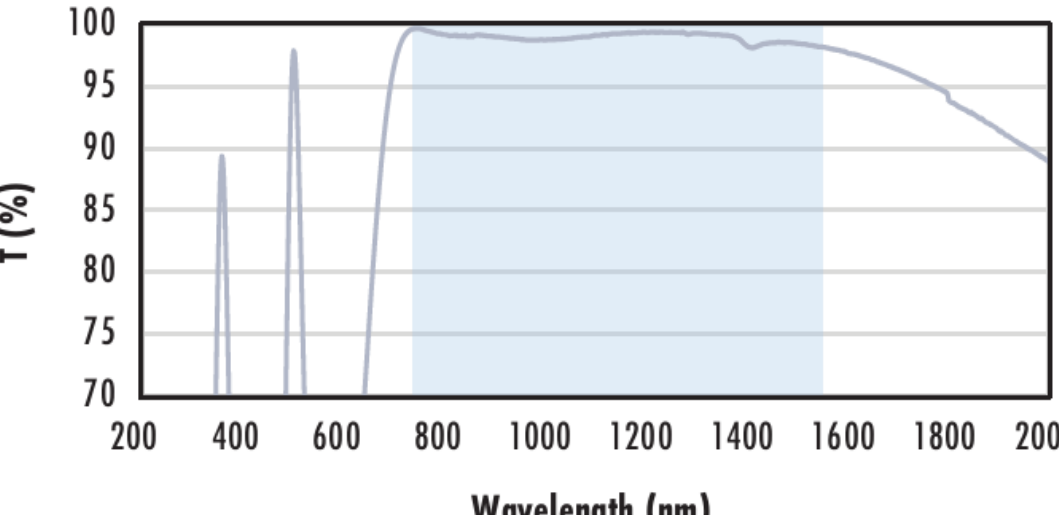
Produktdetails

- Optimiert für R <0,25% @ 532 nm und 1064 nm
- Mnimieren Aberrationen wie sphärische Aberration oder Koma
- **DCX-Linsen aus UV-Quarzglas** sind ebenfalls verfügbar
- Weitere Beschichtungen verfügbar: **Unbeschichtet**, **MgF₂**, **VIS 0°**, **VIS-NIR**, **NIR I**, **NIR II** und **VIS-EXT**

Die TECHSPEC® DCX-Linsen mit AR-Beschichtung YAG-BBAR, auch bikonvexe Linsen genannt, haben zwei positive, symmetrische Oberflächen mit gleichem Krümmungsradius auf beiden Seiten. Die Linsen werden generell für Bildgebungen mit endlichem Abstand und Konjugiertenverhältnis (Verhältnis zwischen Objekt- und Bildweite) zwischen 0,2 und 5 empfohlen. Bei einem Konjugiertenverhältnis von 1 sind Aberrationen wie sphärische Aberration, chromatische Aberration, Koma und Verzeichnung aufgrund des symmetrischen Linsendesigns minimiert oder sogar ganz eliminiert. Die TECHSPEC® doppelkonvexen Linsen sind mit verschiedenen Substraten und verschiedenen Beschichtungsoptionen für VIS und NIR verfügbar.

Technische Informationen

Uncoated N-BK7 Typical Transmission  The graph plots Transmission T (%) on the y-axis (70 to 100) against Wavelength (nm) on the x-axis (200 to 2200). A red curve shows transmission starting at ~70% at 300nm, rising sharply to ~92% by 400nm, and then remaining relatively flat with a slight dip around 1400nm, ending at ~88% at 2200nm.	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  The graph plots Transmission T (%) on the y-axis (70 to 100) against Wavelength (nm) on the x-axis (200 to 2200). A purple curve shows transmission starting at ~70% at 300nm, rising to ~98% at 400nm, peaking at ~99% around 500nm, and then gradually decreasing to ~90% at 2200nm. A blue shaded region highlights the design wavelength range from 400nm to 700nm.	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  The graph plots Transmission T (%) on the y-axis (70 to 100) against Wavelength (nm) on the x-axis (200 to 1200). An orange curve shows transmission starting at ~70% at 300nm, rising to ~99% at 400nm, peaking at ~99.5% around 500nm, and then gradually decreasing to ~78% at 1200nm. A blue shaded region highlights the design wavelength range from 350nm to 700nm.	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  The graph plots Transmission T (%) on the y-axis (70 to 100) against Wavelength (nm) on the x-axis (200 to 1600). A purple curve shows transmission starting at ~70% at 300nm, rising to ~99% at 400nm, peaking at ~99.5% around 500nm, and then gradually decreasing to ~75% at 1600nm. A blue shaded region highlights the design wavelength range from 400nm to 1000nm.	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
N-BK7 with VIS 0° Coating Typical Transmission  The graph plots Transmission T (%) on the y-axis (75 to 100) against Wavelength (nm) on the x-axis (200 to 1600). An orange curve shows transmission starting at ~75% at 300nm, rising to ~99% at 400nm, peaking at ~99.5% around 500nm, and then gradually decreasing to ~75% at 1600nm. A blue shaded region highlights the design wavelength range from 425nm to 675nm.	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: $R_{avg} \leq 0.4\% @ 425 - 675\text{nm}$ Data outside this range is not guaranteed and is for reference only. Click Here to Download Data

	
N-BK7 with YAG-BBAR Coating Typical Transmission 	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: $R_{abs} \leq 0.25\% @ 532nm$ $R_{abs} \leq 0.25\% @ 1064nm$ $R_{avg} \leq 1.0\% @ 500 - 1100nm$ Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
N-BK7 with NIR I Coating Typical Transmission 	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: $R_{avg} \leq 0.5\% @ 600 - 1050nm$ Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
N-BK7 with NIR II Coating Typical Transmission 	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: $R_{abs} \leq 1.5\% @ 750 - 800nm$ $R_{abs} \leq 1.0\% @ 800 - 1550nm$ $R_{avg} \leq 0.7\% @ 750 - 1550nm$ Data outside this range is not guaranteed and is for reference only. Click Here to Download Data

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.

Unser Service beinhaltet:

- Kundenspezifische Abmessungen, Materialien und mehr
- Hochpräzise Oberflächenqualität und -ebenheit
- Enge Toleranzen und komplexe Formen
- Skalierbare Produktion – vom Prototypen zur Serie

Erfahren Sie mehr über unsere [kundenspezifischen Fertigungsmöglichkeiten](#) oder senden Sie [hier](#) eine Anfrage.

Kompatible Halterungen