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TECHSPEC<sup>®</sup>

# 18 mm Dia. x 27 mm Focale, Lentille Bi-Convex (DCX) avec Traitement YAG-BBAR, Bord Noirci



YAG-BBAR Coated Double-Convex (DCX) Lenses



Stock **#89-255-INK** [CONTACT](#)

-

1

+

€64<sup>.50</sup>

AJOUTER AU PANIER

| Prix sur Quantité |                                  |
|-------------------|----------------------------------|
| Qté 1-9           | €64,50 prix unitaire             |
| Qté 10-24         | €58,00 prix unitaire             |
| Qté 25-99         | €51,50 prix unitaire             |
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❗ Les prix sont indiqués hors TVA et droits applicables.

Espace téléchargement

## Caractéristiques du produit

Double-Convex Lens

Type:

| Propriétés physiques et mécaniques                                                                           |                                            |
|--------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| 18.00 ±0.025                                                                                                 | Diamètre (mm):                             |
| <1                                                                                                           | Centrage (arcmin):                         |
| Protective as needed                                                                                         | Biseau:                                    |
| 5.50                                                                                                         | Épaisseur Centrale CT (mm):                |
| ±0.10                                                                                                        | Tolérance Épaisseur Centrale (mm):         |
| 2.42                                                                                                         | Épaisseur au Bord ET (mm):                 |
| 17.00                                                                                                        | Ouverture Utile CA (mm):                   |
| Propriétés optiques                                                                                          |                                            |
| 25.25                                                                                                        | Distance Focale Arrière BFL (mm):          |
| 27.00                                                                                                        | Distance Focale EFL (mm):                  |
| YAG-BBAR (500-1100nm)                                                                                        | Traitement:                                |
| R <sub>abs</sub> <0.25% @ 532nm<br>R <sub>abs</sub> <0.25% @ 1064nm<br>R <sub>avg</sub> <1.0% @ 500 - 1100nm | Spécification du Traitement:               |
| N-BK7                                                                                                        | Substrat: <input type="checkbox"/>         |
| 40-20                                                                                                        | Qualité de Surface:                        |
| 27.08                                                                                                        | Rayon R <sub>1</sub> =R <sub>2</sub> (mm): |
| 1.5                                                                                                          | f/#:                                       |
| 587.6                                                                                                        | Longueur d'Onde à la Focale Donnée (nm):   |
| ±1                                                                                                           | Tolérance Distance Focale (%):             |
| 0.33                                                                                                         | Ouverture Numérique NA:                    |
| 350 - 2200                                                                                                   | Gamme de Longueur d'Onde (nm):             |
| Conformité réglementaire                                                                                     |                                            |
| Visionner                                                                                                    | Certificate of Conformance:                |

## Besoin de spécifications différentes ou de modifications ?

Edmund Optics propose des services complets de fabrication personnalisée de composants optiques et d'imagerie adaptés aux exigences de vos applications spécifiques. Qu'il s'agisse de la phase de prototypage ou de la préparation d'une production à grande échelle, nous proposons des solutions flexibles pour répondre à vos besoins. Nos ingénieurs expérimentés sont là pour vous aider, de la conception à la réalisation.

Nos capacités comprennent :

- Dimensions, matériaux, traitements, etc. personnalisés
- Qualité de surface et planéité de surface de haute précision
- Tolérances serrées et géométries complexes
- Production évolutive – du prototype à la série

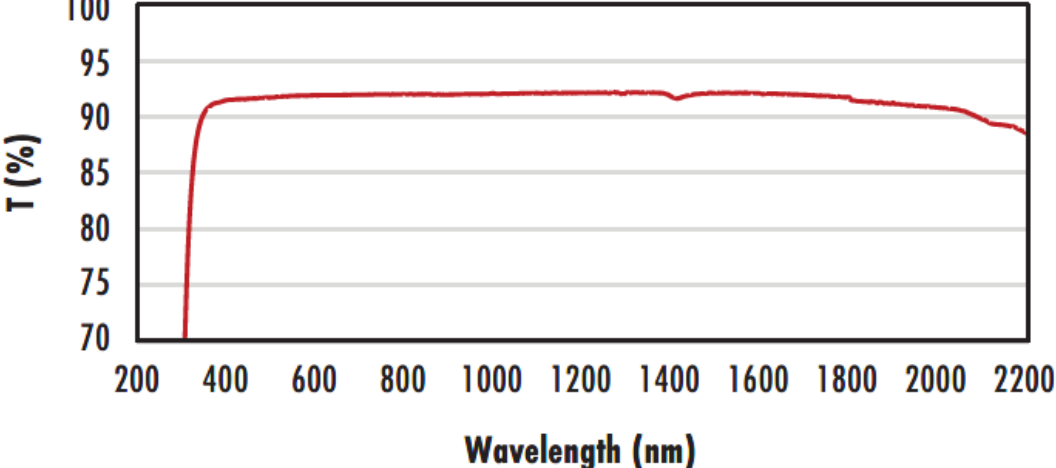
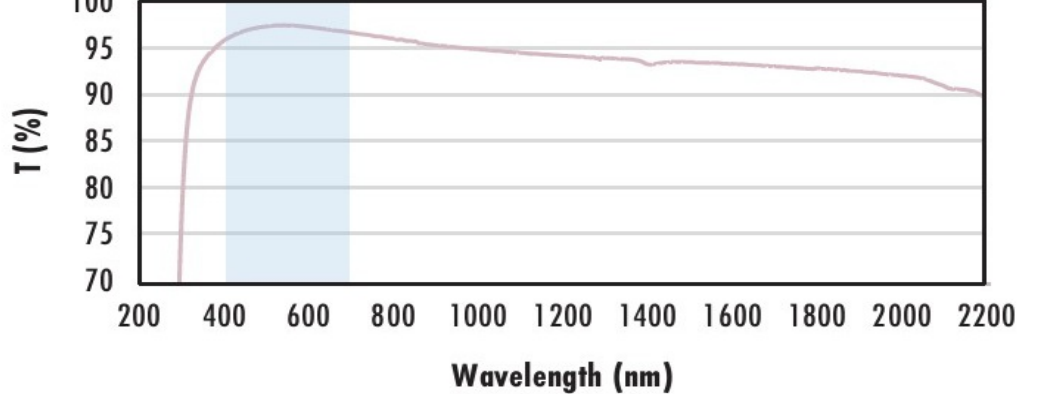
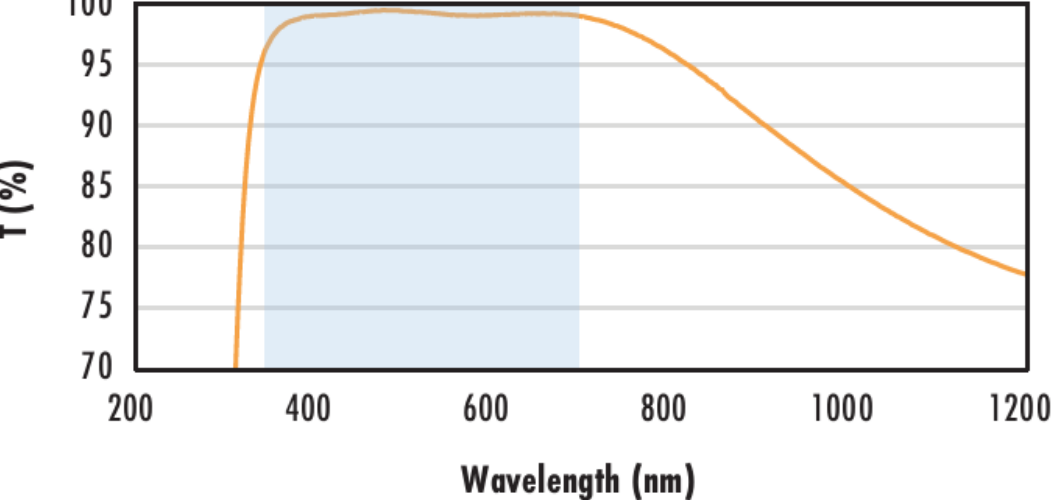
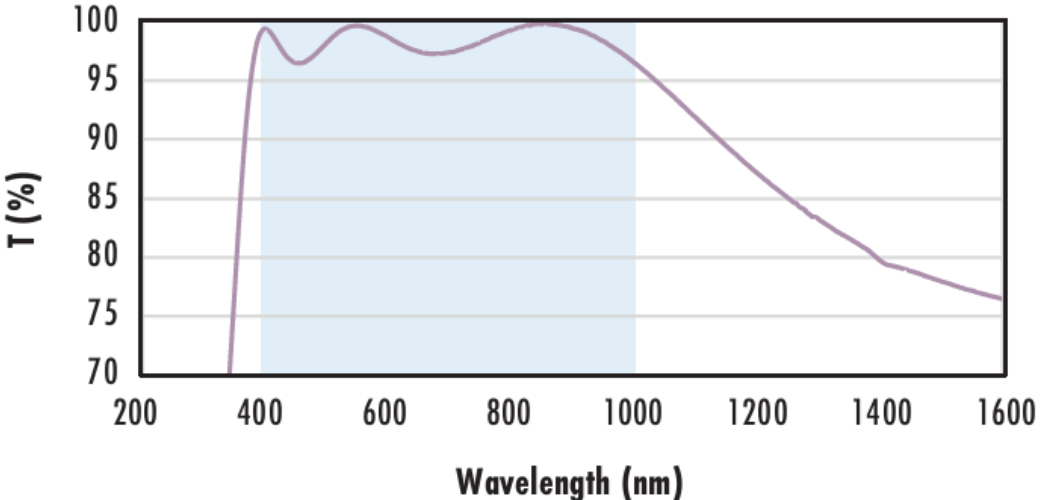
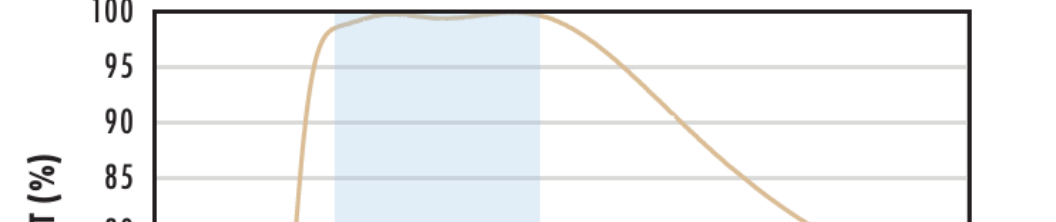
En savoir plus sur nos [capacités de fabrication sur mesure](#) ou soumettre une demande [ici](#).

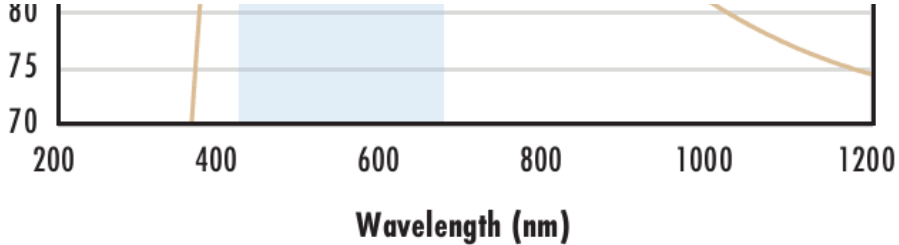
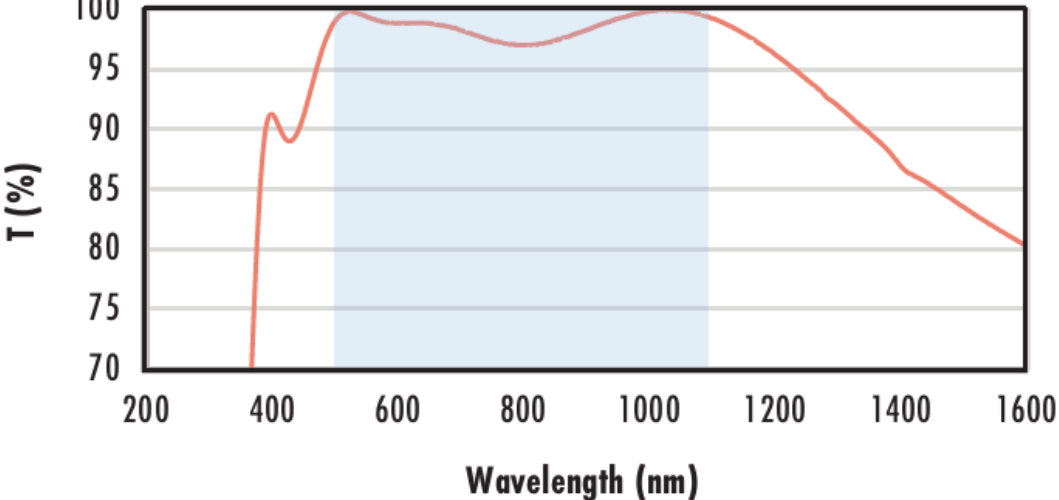
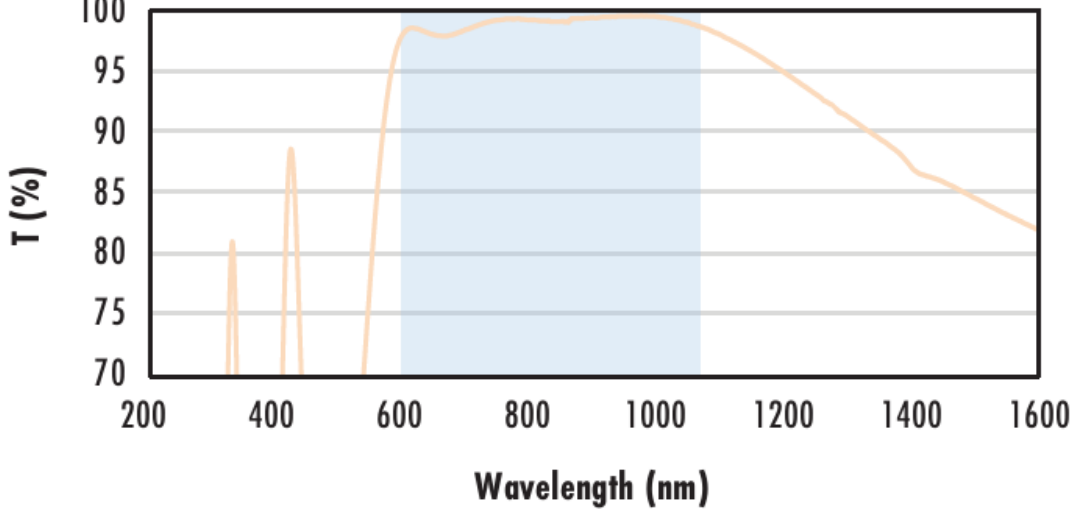
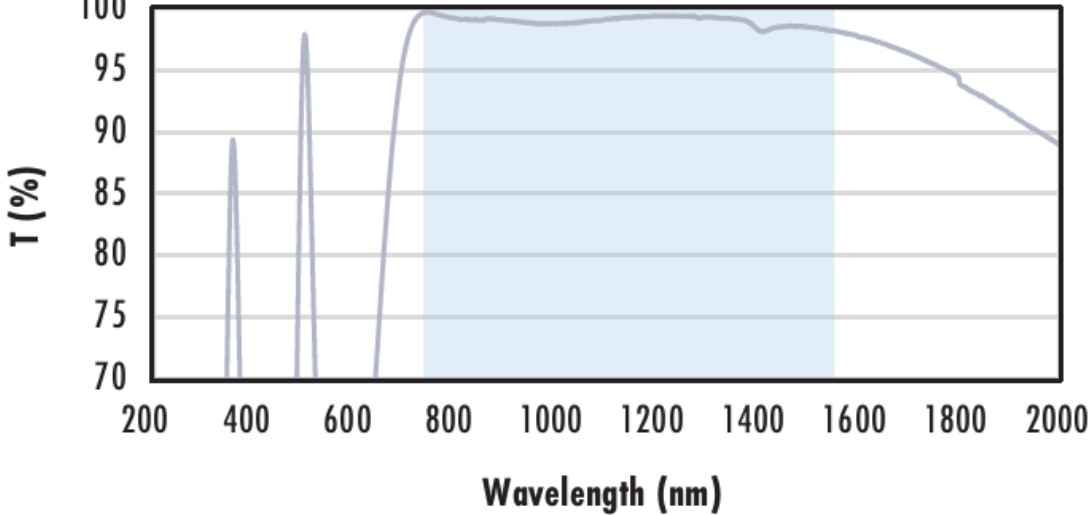
## Description produit

- Optimisées pour R < 0,25% @ 532 nm et 1.064 nm
- Minimisent les aberrations sphériques et la coma
- **Lentilles DCX en Silice Fondue UV** disponibles
- D'autres options de traitement disponibles : **Non Traitées**, **MgF<sub>2</sub>**, **VIS 0°**, **NIR I**, **NIR II**, **VIS-EXT** et **VIS-NIR**

Les Lentilles Biconvexes (DCX) avec Traitement YAG-BBAR TECHSPEC®, également appelées lentilles double-convexes (DCX), ont deux faces positives et symétriques avec des rayons égaux des deux côtés. Ces lentilles sont généralement recommandées pour les applications d'imagerie finie avec un rapport conjugué (rapport entre la distance de l'objet et la distance de l'image) compris entre 0,2 et 5. Pour un rapport conjugué de 1, les aberrations telles que l'aberration sphérique, l'aberration chromatique, la coma et la distorsion sont minimisées ou annulées grâce à la conception symétrique de la lentille. Les Lentilles Biconvexes (DCX) avec Traitement YAG-BBAR TECHSPEC sont disponibles dans une variété de substrats et d'options de traitement pour les spectres visible et NIR.

## Informations techniques

| 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</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> |

Montures compatibles