

TECHSPEC<sup>®</sup>

Doppelkonvexe Linse aus UV-Quarzglas, 25 mm D. x 75,6 mm eff. BW, UV-VIS-beschichtet



UV Fused Silica Double-Convex (DCX) Lenses



Produkt **#48-845** **2 In Stock**

[Andere Beschichtungen](#)

-

1

+

€165<sup>00</sup>

+ WARENKORB

| Mengenrabatte |                                 |
|---------------|---------------------------------|
| Stk. 1-5      | €165,00 stückpreis              |
| Stk. 6-25     | €132,00 stückpreis              |
| Stk. 26-49    | €124,00 stückpreis              |
| Need More?    | <a href="#">Angebotsanfrage</a> |

Preise exklusiv der geltenden Mehrwertsteuer und Abgaben

Downloadbereich

| Produktdetails     |      |
|--------------------|------|
| Double-Convex Lens | Typ: |
|                    |      |
|                    |      |

Physikalische und mechanische Eigenschaften

|                      |                             |
|----------------------|-----------------------------|
| 25.00 +0.0/-0.025    | Durchmesser (mm):           |
| <1                   | Zentrierung (Bogenminuten): |
| Protective as needed | Fase:                       |
| 4.87 ±0.10           | Mittendicke CT (mm):        |
| 2.57                 | Randdicke ET (mm):          |
| 24.00                | Freie Apertur CA (mm):      |

Optische Eigenschaften

|                                                                              |                                                                                                                |
|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| 73.91                                                                        | Hintere Brennweite BFL (mm):                                                                                   |
| 75.60                                                                        | Effektive Brennweite EFL (mm):                                                                                 |
| UV-VIS (250-700nm)                                                           | Beschichtung:                                                                                                  |
| R <sub>abs</sub> ≤1.0% @ 350 - 450nm<br>R <sub>avg</sub> ≤1.5% @ 250 - 700nm | Beschichtungsspezifikation:                                                                                    |
| <b>Fused Silica</b> (Corning 7980)                                           | Substrat:                   |
| 40-20                                                                        | Oberflächenqualität:                                                                                           |
| 1.5λ                                                                         | Power (P-V) @ 632,8 nm:                                                                                        |
| N4                                                                           | Unregelmäßigkeit (P-V) @ 632,8 nm:                                                                             |
| 68.55                                                                        | Radius R <sub>1</sub> =R <sub>2</sub> (mm):                                                                    |
| 3.02                                                                         | Blende:                                                                                                        |
| 587.6                                                                        | Designwellenlänge Brennweite (nm):                                                                             |
| ±1                                                                           | Toleranz Brennweite (%):                                                                                       |
| 0.17                                                                         | Numerische Apertur NA:                                                                                         |
| 250 - 700                                                                    | Wellenlängenbereich (nm):                                                                                      |
| 3 J/cm <sup>2</sup> @ 355nm, 10ns<br>5 J/cm <sup>2</sup> @ 532nm, 10ns       | Zerstörschwelle, Referenz:  |

Konformität mit Standards

|                 |                         |
|-----------------|-------------------------|
| <b>Konform</b>  | RoHS 2015:              |
| <b>Anzeigen</b> | Konformitätszertifikat: |
| <b>Konform</b>  | Reach 235:              |

Produktdetails

• Ideal für die Bildgebung

• Mnimieren Aberrationen wie sphärische Aberration oder Koma

• Präzises Substrat aus Quarzglas

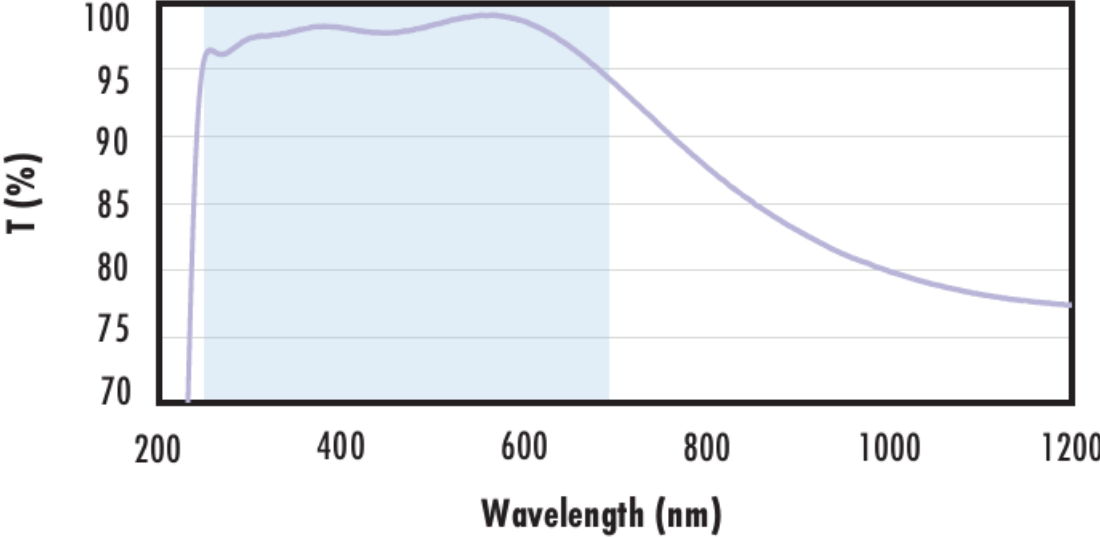
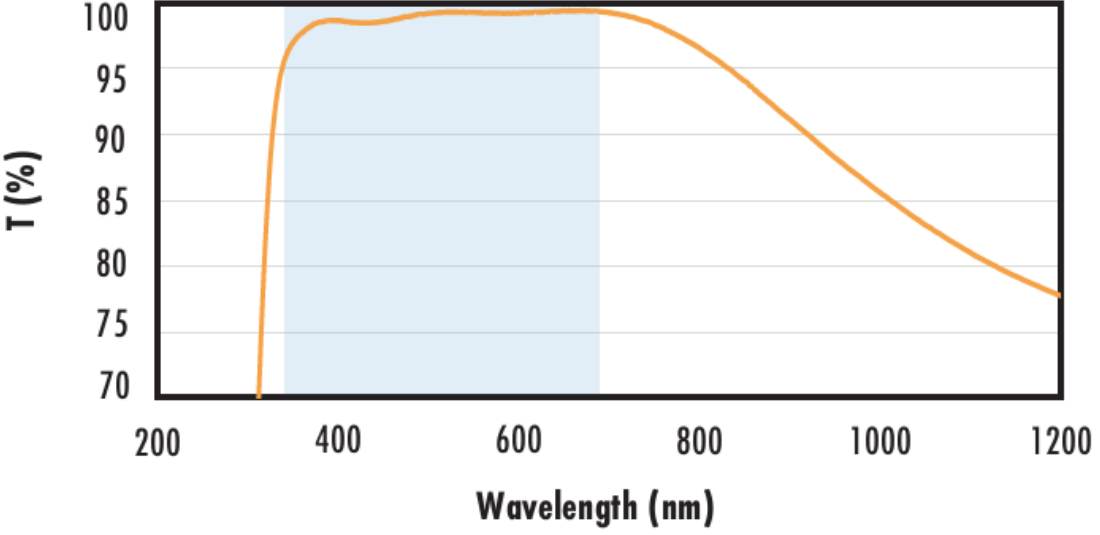
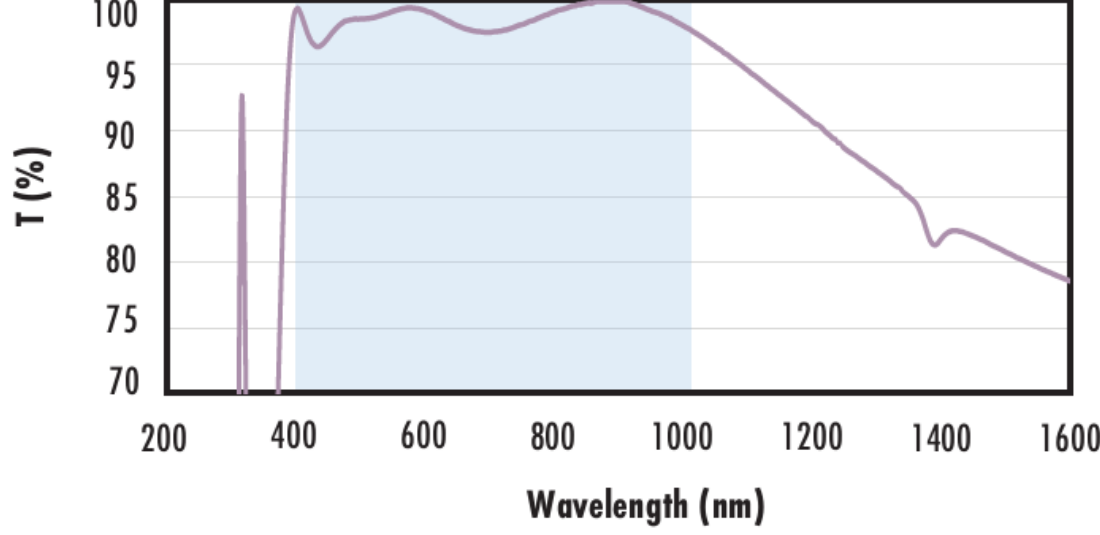
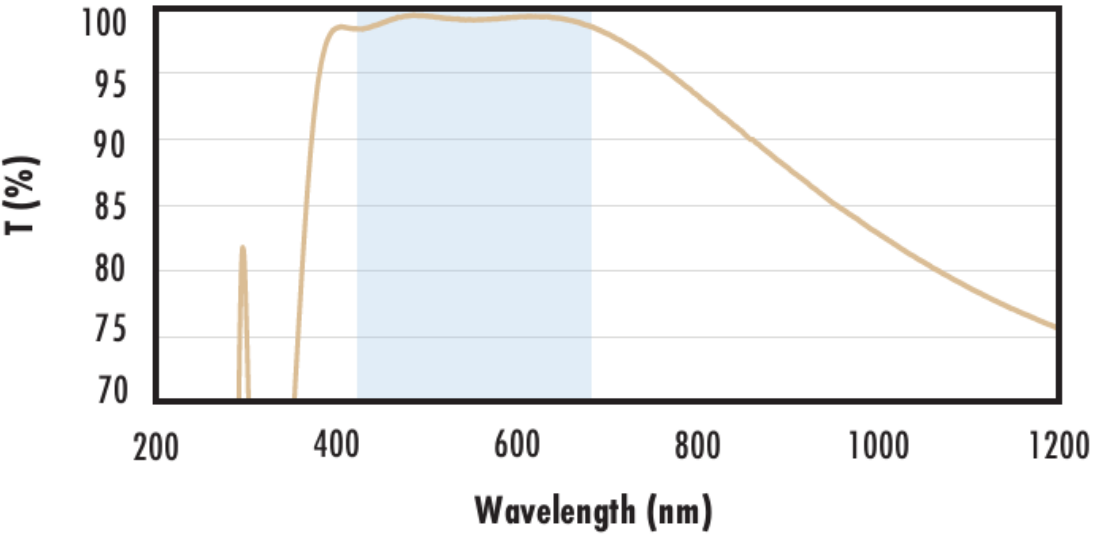
Die TECHSPEC® doppelkonvexen Linsen (DCX-Linsen) aus UV-Quarzglas, auch bikonvexe Linsen genannt, haben zwei positive, symmetrische Oberflächen mit gleichem Krümmungsradius auf beiden Seiten. Die Linsen werden generell für Bildgebungen mit endlichem Abstand und Konjugiertenverhältnis (Verhältnis zwischen 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.

Technische Informationen



### UV FS Transmission Curve

|                     |                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>FUSED SILICA</p> | <h3>Uncoated Fused Silica<br/>Typical Transmission</h3>                     | <p>Typical transmission of a 3mm thick, uncoated fused silica window across the UV - NIR spectra.</p> <p><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                                                                                                                                                                                                                |
| <p>FUSED SILICA</p> | <h3>Fused Silica with MgF<sub>2</sub> Coating<br/>Typical Transmission</h3> | <p>Typical transmission of a 3mm thick fused silica 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><math>R_{avg} \leq 1.75\% @ 400 - 700\text{nm (N-BK7)}</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>FUSED SILICA</p> | <h3>Fused Silica with UV-AR Coating<br/>Typical Transmission</h3>           | <p>Typical transmission of a 3mm thick fused silica window with UV-AR (250-425nm) 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 1.0\% @ 250 - 425\text{nm}</math><br/> <math>R_{avg} \leq 0.75\% @ 250 - 425\text{nm}</math><br/> <math>R_{avg} \leq 0.5\% @ 370 - 420\text{nm}</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> |

|                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div><div>Fused Silica with UV-VIS Coating</div><div>Typical Transmission</div></div>    | <div>Typical transmission of a 3mm thick fused silica window with UV-VIS (250-700nm) coating at 0° AOI.</div> <div>The blue shaded region indicates the coating design wavelength range, with the following specification:</div> <div><div><math>R_{abs} \leq 1.0\% \text{ @ } 350 - 450\text{nm}</math></div><div><math>R_{avg} \leq 1.5\% \text{ @ } 250 - 700\text{nm}</math></div></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>Fused Silica with VIS-EXT Coating</div><div>Typical Transmission</div></div>  | <div>Typical transmission of a 3mm thick fused silica 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\% \text{ @ } 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>Fused Silica with VIS-NIR Coating</div><div>Typical Transmission</div></div> | <div>Typical transmission of a 3mm thick fused silica 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><div><math>R_{abs} \leq 0.25\% \text{ @ } 880\text{nm}</math></div><div><math>R_{avg} \leq 1.25\% \text{ @ } 400 - 870\text{nm}</math></div><div><math>R_{avg} \leq 1.25\% \text{ @ } 890 - 1000\text{nm}</math></div></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>Fused Silica with VIS 0° Coating</div><div>Typical Transmission</div></div>  | <div>Typical transmission of a 3mm thick fused silica 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\% \text{ @ } 425 - 675\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>Fused Silica with YAG-BBAR Coating</div><div>Typical Transmission</div></div>                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

|                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div><div>Typical Transmission</div></div>                                        | <div>Typical transmission of a 3mm thick fused silica window with YAG-BBAR (500-1100nm) coating at 0° AOI.</div> <div>The blue shaded region indicates the coating design wavelength range, with the following specification:</div> <div><div><math>R_{abs} \leq 0.25\% \text{ @ } 532\text{nm}</math><br/><math>R_{abs} \leq 0.25\% \text{ @ } 1064\text{nm}</math><br/><math>R_{avg} \leq 1.0\% \text{ @ } 500 - 1100\text{nm}</math></div></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>Fused Silica with NIR I Coating<br/>Typical Transmission</div></div>   | <div>Typical transmission of a 3mm thick fused silica window with NIR I (600 - 1050nm) coating at 0° AOI.</div> <div>The blue shaded region indicates the coating design wavelength range, with the following specification:</div> <div><div><math>R_{avg} \leq 0.5\% \text{ @ } 600 - 1050\text{nm}</math></div></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>Fused Silica with NIR II Coating<br/>Typical Transmission</div></div> | <div>Typical transmission of a 3mm thick fused silica window with NIR II (750 - 1550nm) coating at 0° AOI.</div> <div>The blue shaded region indicates the coating design wavelength range, with the following specification:</div> <div><div><math>R_{abs} \leq 1.5\% \text{ @ } 750 - 800\text{nm}</math><br/><math>R_{abs} \leq 1.0\% \text{ @ } 800 - 1550\text{nm}</math><br/><math>R_{avg} \leq 0.7\% \text{ @ } 750 - 1550\text{nm}</math></div></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> |

## 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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- Enge Toleranzen und komplexe Formen
- Skalierbare Produktion – vom Prototypen zur Serie

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## Kompatible Halterungen