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TECHSPEC®

Lentille Plan-Convexe Traitée YAG-BBAR, 6 mm de dia. x 18 mm FL



UV Fused Silica Plano-Convex (PCX) Lenses



Stock **#18-023** 5 In Stock

-

1

+

€149<sup>.00</sup>

AJOUTER AU PANIER

| Prix sur Quantité |                                  |
|-------------------|----------------------------------|
| Qté 1-5           | €149,00 prix unitaire            |
| Qté 6-25          | €119,00 prix unitaire            |
| Qté 26-49         | €112,00 prix unitaire            |
| Need More?        | <a href="#">Demande de Devis</a> |

Les prix sont indiqués hors TVA et droits applicables.

Espace téléchargement

Caractéristiques du produit

Plano-ConvexLens

Type:

Propriétés physiques et mécaniques

|                      |                             |
|----------------------|-----------------------------|
| 6.00 -0.025          | Diamètre (mm):              |
| <1                   | Centrage (arcmin):          |
| 2.00 ±0.05           | Épaisseur Centrale CT (mm): |
| 1.44                 | Épaisseur au Bord ET (mm):  |
| 5                    | Ouverture Utile CA (mm):    |
| Protective as needed | Biseau:                     |

Propriétés optiques

|                                                                                                              |                                                       |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| 18.00 @ 587.6nm                                                                                              | Distance Focale EFL (mm):                             |
| 16.62                                                                                                        | Distance Focale Arrière BFL (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:                          |
| Fused Silica (Corning 7980)                                                                                  | Substrat: <input type="checkbox"/>                    |
| 40-20                                                                                                        | Qualité de Surface:                                   |
| 3 Rings                                                                                                      | Power (P-V) @ 632.8nm:                                |
| 0.5 Rings                                                                                                    | Irregularity (P-V) @ 632.8nm:                         |
| ±1                                                                                                           | Tolérance Distance Focale (%):                        |
| 8.25                                                                                                         | Rayon R <sub>1</sub> (mm):                            |
| 3                                                                                                            | f/#:                                                  |
| 0.17                                                                                                         | Ouverture Numérique NA:                               |
| 500 - 1100                                                                                                   | Gamme de Longueur d'Onde (nm):                        |
| 5 J/cm <sup>2</sup> @ 532nm, 10ns                                                                            | Damage Threshold, By Design: <input type="checkbox"/> |

Conformité réglementaire

|           |                             |
|-----------|-----------------------------|
| Conforme  | RoHS 2015:                  |
| Visionner | Certificate of Conformance: |
| Conforme  | Reach 235:                  |

## 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](#).

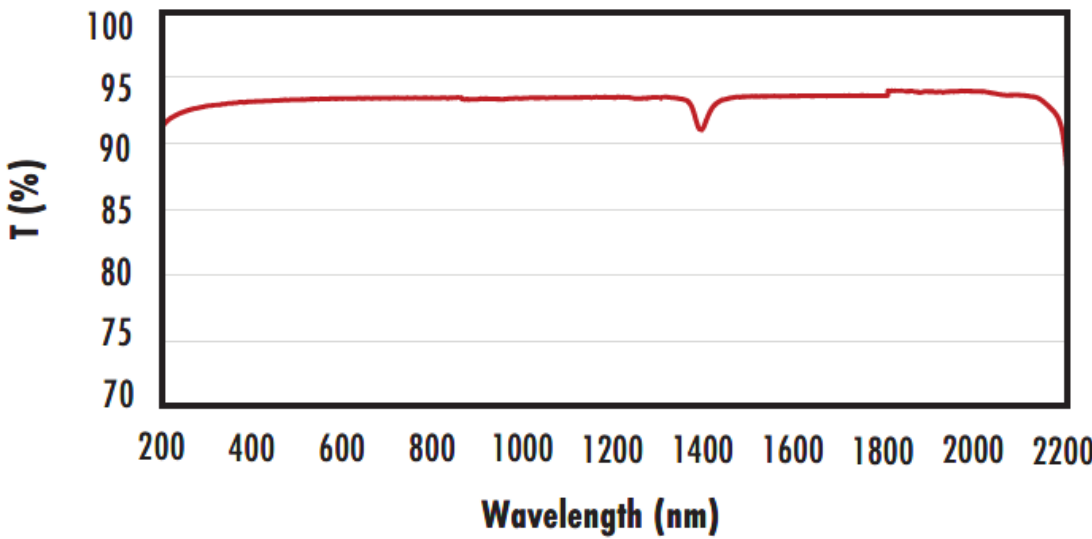
## Description produit

- Traitées AR pour procurer une réflexion <1,0% par surface de 500 à 1100 nm
- Substrat en silice fondue de précision
- Diverses options de traitement : [non traitées](#), [MgF<sub>2</sub>](#), [UV-AR](#), [UV-VIS](#), [VIS-EXT](#), [VIS-NIR](#), [VIS 0°](#), [NIR I](#) et [NIR II](#)

Les Lentilles Plan-Convexes (PCX) en Silice Fondue UV Traitées YAG-BBAR TECHSPEC® présentent des spécifications de précision et une variété d'options de traitement sur un substrat à large bande. La silice fondue est couramment utilisée dans des applications allant de l'ultraviolet (UV) au proche infrarouge (NIR). Son faible indice de réfraction, son faible coefficient de dilatation thermique et sa faible teneur en inclusions la rendent idéale pour les applications laser et les conditions environnementales difficiles. Les Lentilles Plan-Convexes (PCX) en Silice Fondue UV Traitées YAG-BBAR TECHSPEC® présentent des spécifications de centrage et de diamètre à la pointe de l'industrie, ce qui les rend idéales pour l'intégration dans des applications d'imagerie et de mesure exigeantes. Ces lentilles sont dotées d'un traitement YAG-BBAR et se caractérisent par une réflexion inférieure à 0,25 % aux longueurs d'onde courantes des lasers Nd:YAG de 532 nm et 1064 nm.

FUSED SILICA

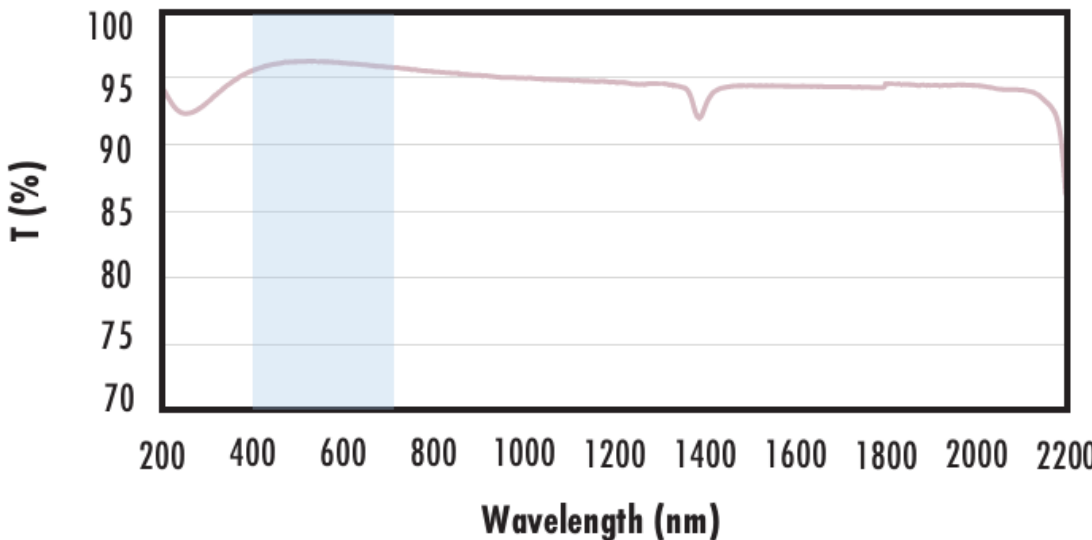
Uncoated Fused Silica  
Typical Transmission



Typical transmission of a 3mm thick, uncoated fused silica window across the UV - NIR spectra.

[Click Here to Download Data](#)

Fused Silica with  $\text{MgF}_2$  Coating  
Typical Transmission



Typical transmission of a 3mm thick fused silica window with  $\text{MgF}_2$  (400-700nm) coating at 0° AOI.

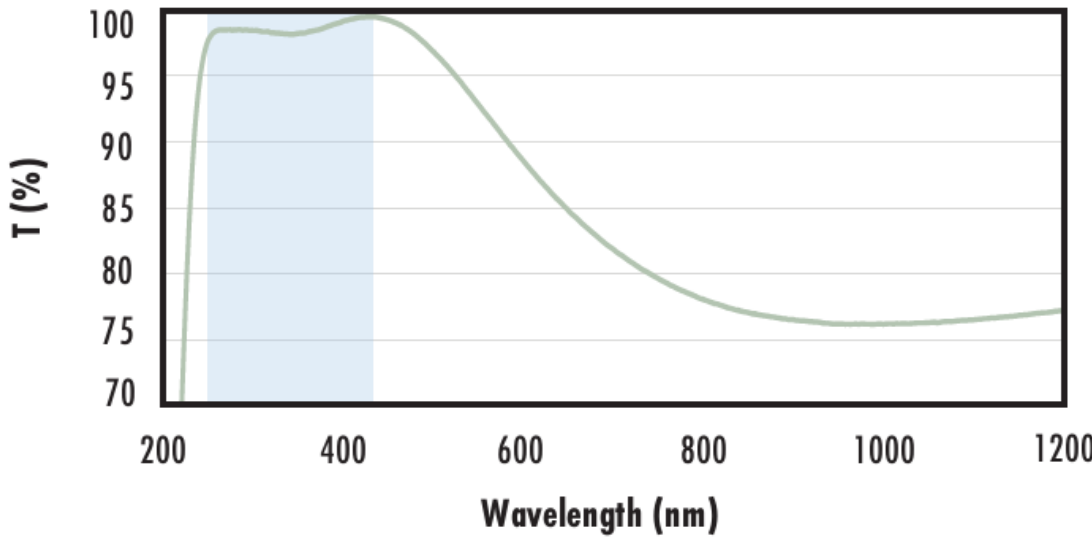
The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{\text{avg}} \leq 1.75\% @ 400 - 700\text{nm}$  (N-BK7)

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

[Click Here to Download Data](#)

Fused Silica with UV-AR Coating  
Typical Transmission



Typical transmission of a 3mm thick fused silica window with UV-AR (250-425nm) coating at 0° AOI.

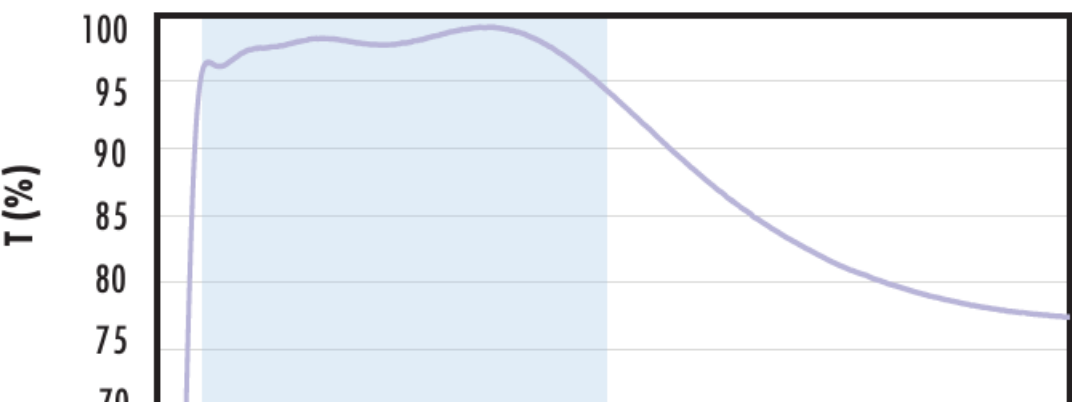
The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{\text{abs}} \leq 1.0\% @ 250 - 425\text{nm}$   
 $R_{\text{avg}} \leq 0.75\% @ 250 - 425\text{nm}$   
 $R_{\text{avg}} \leq 0.5\% @ 370 - 420\text{nm}$

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

[Click Here to Download Data](#)

Fused Silica with UV-VIS Coating  
Typical Transmission



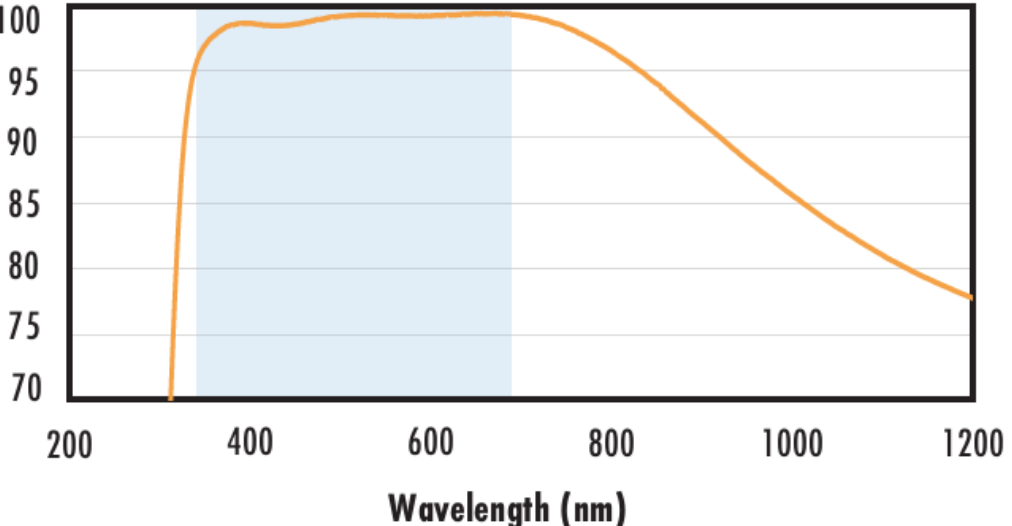
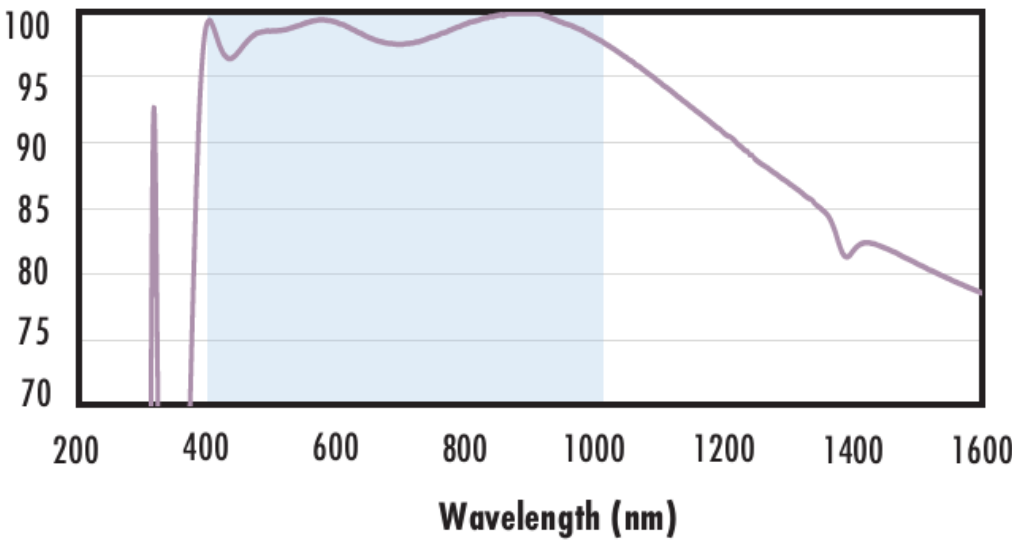
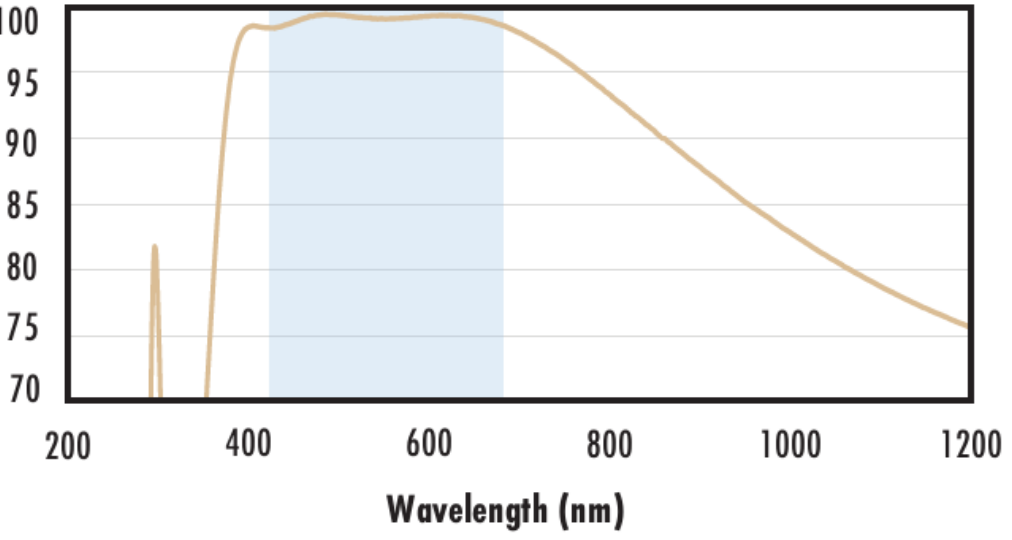
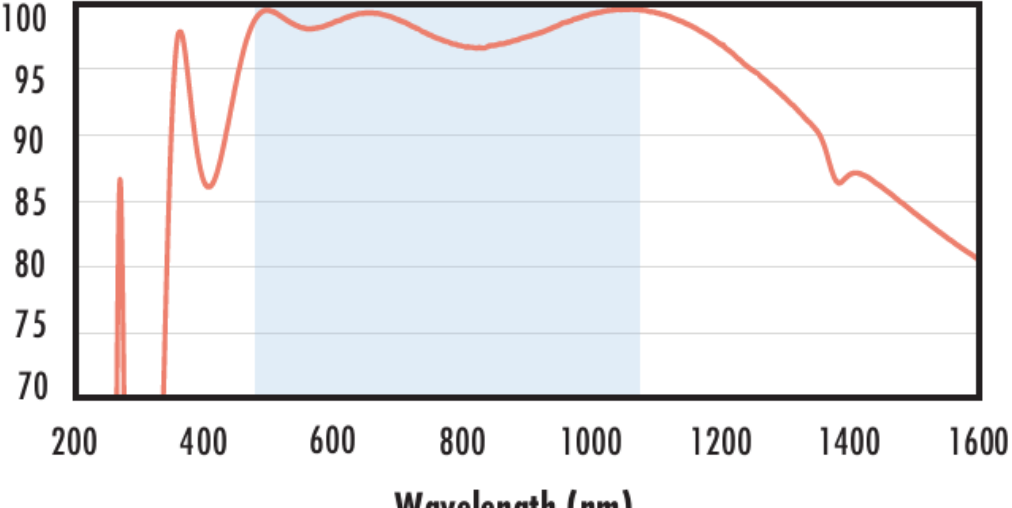
Typical transmission of a 3mm thick fused silica window with UV-VIS (250-700nm) coating at 0° AOI.

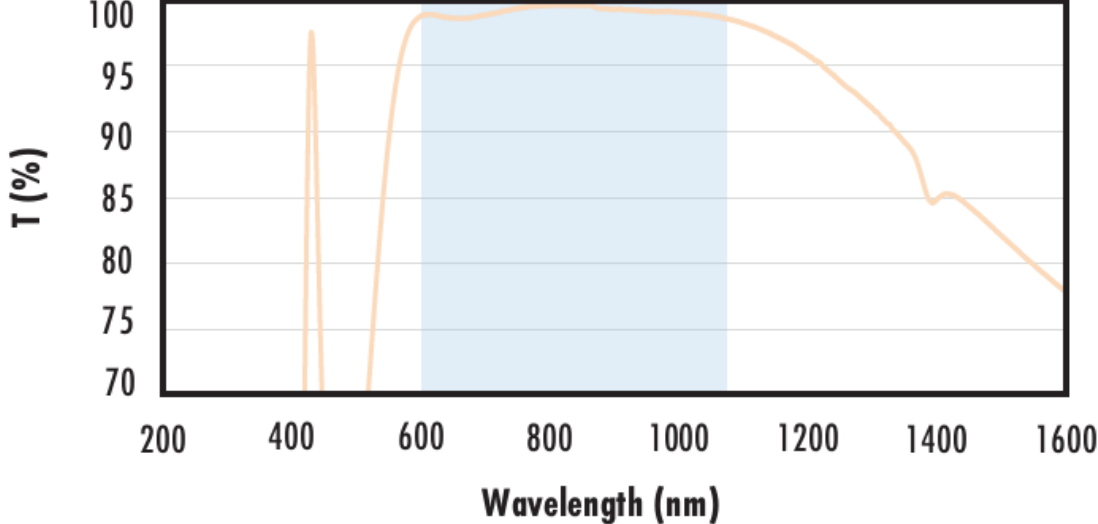
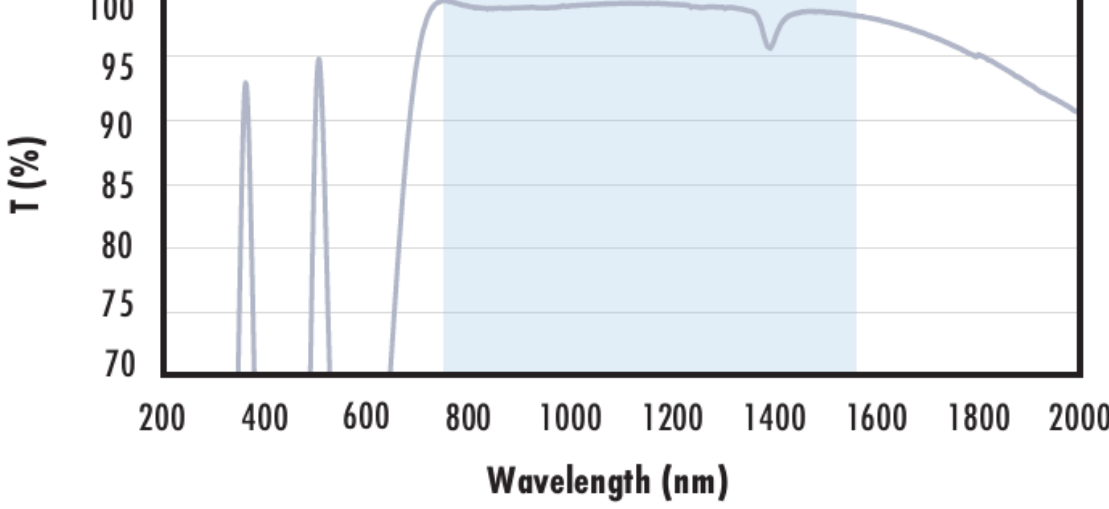
The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{\text{abs}} \leq 1.0\% @ 350 - 450\text{nm}$   
 $R_{\text{avg}} \leq 1.5\% @ 250 - 700\text{nm}$

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

[Click Here to Download Data](#)

|                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p data-bbox="567 252 1081 371"><b>Fused Silica with VIS-EXT Coating</b><br/><b>Typical Transmission</b></p>       | <p data-bbox="1333 430 1837 489">Typical transmission of a 3mm thick fused silica window with VIS-EXT (350-700nm) coating at 0° AOI.</p> <p data-bbox="1333 498 1848 549">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1480 557 1701 593"><math>R_{avg} \leq 0.5\% @ 350 - 700\text{nm}</math></p> <p data-bbox="1333 602 1837 652">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1470 661 1711 688"><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                                  |
| <p data-bbox="567 931 1081 1050"><b>Fused Silica with VIS-NIR Coating</b><br/><b>Typical Transmission</b></p>    | <p data-bbox="1333 1074 1837 1133">Typical transmission of a 3mm thick fused silica window with VIS-NIR (400-1000nm) coating at 0° AOI.</p> <p data-bbox="1333 1142 1848 1193">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1480 1202 1701 1237"><math>R_{abs} \leq 0.25\% @ 880\text{nm}</math></p> <p data-bbox="1480 1231 1711 1267"><math>R_{avg} \leq 1.25\% @ 400 - 870\text{nm}</math></p> <p data-bbox="1480 1261 1711 1297"><math>R_{avg} \leq 1.25\% @ 890 - 1000\text{nm}</math></p> <p data-bbox="1333 1305 1837 1356">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1470 1365 1711 1391"><a href="#">Click Here to Download Data</a></p> |
| <p data-bbox="567 1602 1081 1721"><b>Fused Silica with VIS 0° Coating</b><br/><b>Typical Transmission</b></p>    | <p data-bbox="1333 1780 1848 1840">Typical transmission of a 3mm thick fused silica window with VIS 0° (425-675nm) coating at 0° AOI.</p> <p data-bbox="1333 1849 1848 1899">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1480 1908 1701 1944"><math>R_{avg} \leq 0.4\% @ 425 - 675\text{nm}</math></p> <p data-bbox="1333 1952 1837 2003">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1470 2012 1711 2039"><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                         |
| <p data-bbox="567 2273 1081 2392"><b>Fused Silica with YAG-BBAR Coating</b><br/><b>Typical Transmission</b></p>  | <p data-bbox="1333 2424 1837 2484">Typical transmission of a 3mm thick fused silica window with YAG-BBAR (500-1100nm) coating at 0° AOI.</p> <p data-bbox="1333 2493 1848 2543">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1480 2552 1690 2588"><math>R_{abs} \leq 0.25\% @ 532\text{nm}</math></p> <p data-bbox="1480 2582 1690 2617"><math>R_{abs} \leq 0.25\% @ 1064\text{nm}</math></p> <p data-bbox="1480 2611 1711 2647"><math>R_{avg} \leq 1.0\% @ 500 - 1100\text{nm}</math></p> <p data-bbox="1333 2656 1837 2706">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1470 2715 1711 2742"><a href="#">Click Here to Download Data</a></p>      |

|                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div data-bbox="258 127 1283 750"><h3>Fused Silica with NIR I Coating<br/>Typical Transmission</h3></div>    | <div data-bbox="1325 305 1858 557"><p>Typical transmission of a 3mm thick fused silica 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\%</math> @ 600 - 1050nm</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 data-bbox="247 810 1283 1418"><h3>Fused Silica with NIR II Coating<br/>Typical Transmission</h3></div> | <div data-bbox="1325 943 1858 1270"><p>Typical transmission of a 3mm thick fused silica 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\%</math> @ 750 - 800nm<br/><math>R_{abs} \leq 1.0\%</math> @ 800 - 1550nm<br/><math>R_{avg} \leq 0.7\%</math> @ 750 - 1550nm</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> |