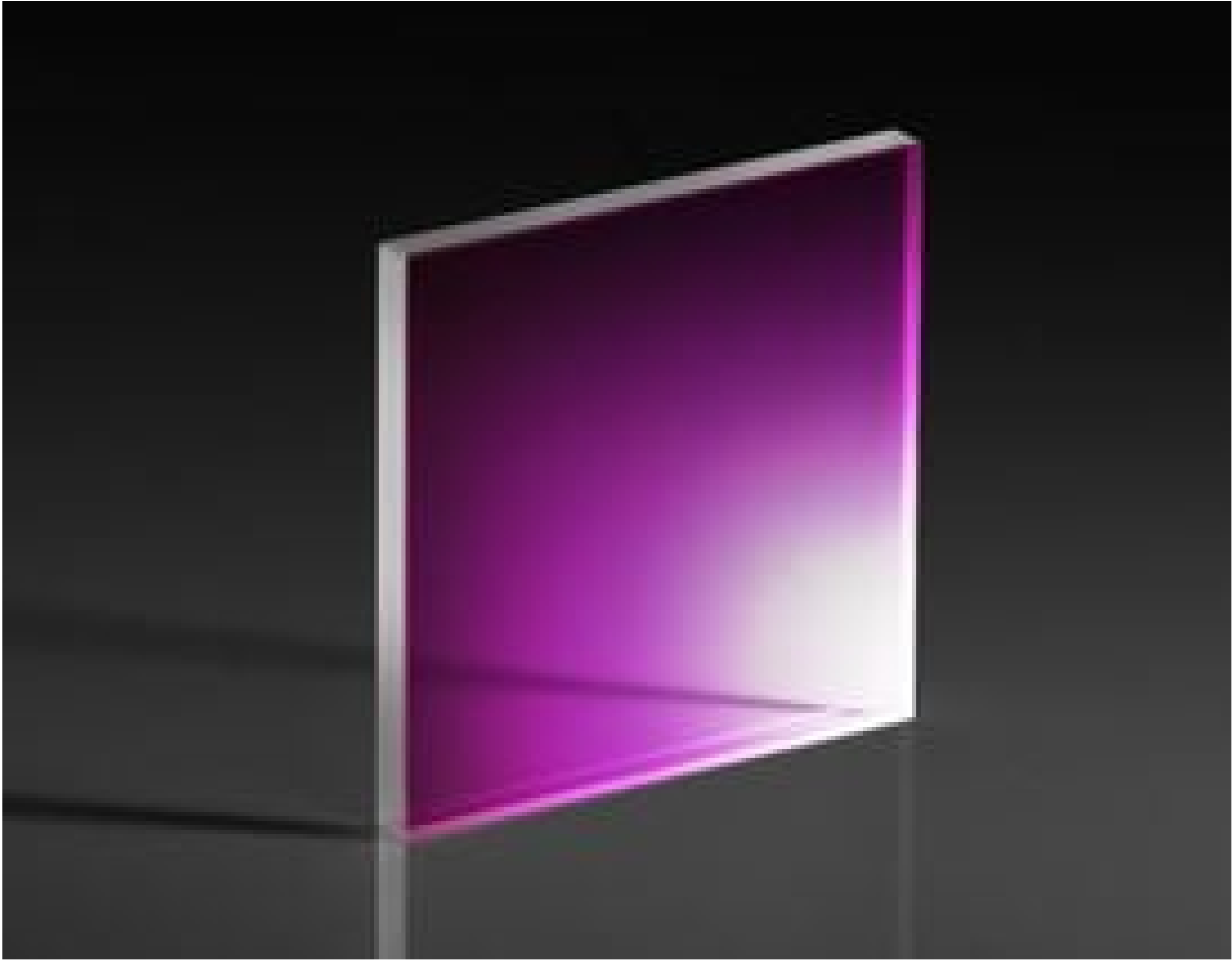


TECHSPEC[®] 25 x 25mm, 2mm Thick VIS 0° 1λ Fused Silica Window



Stock **#36-980** 5 In Stock

-

1

+

S\$163^{.80}

ADD TO CART

Volume Pricing	
Qty 1-5	S\$163.80 each
Qty 6-25	S\$130.20 each
Qty 26-49	S\$122.50 each
Need More?	Request Quote

Product Downloads

General

Type:
Protective Window

Physical & Mechanical Properties

Clear Aperture CA (mm):
22.50 x 22.50

Dimensions (mm):
25.00 x 25.00 +0.00/-0.20

2.00 ±0.38	Thickness (mm):
25.00	Length (mm):
25.00	Width (mm):
<5	Parallelism (arcmin):
+0.00/-0.20	Dimensional Tolerance (mm):
Protective as needed	Bevel:
90	Clear Aperture (%):
Fine Ground	Edges:
0.16	Poisson's Ratio:
73	Young's Modulus (GPa):
522.00	Knoop Hardness (kg/mm²):

Optical Properties	
VS 0° (425-675nm)	Coating:
Fused Silica (Corning 7980)	Substrate: ☐
1.458	Index of Refraction (n _d):
60-40	Surface Quality:
67.8	Abbe Number (v _d):
R _{avg} ≤0.4% @ 425 - 675nm	Coating Specification:
425 - 675	Wavelength Range (nm):
1λ	Surface Flatness (P-V):
5 J/cm² @ 532nm, 10ns	Damage Threshold, Reference: ☐

Material Properties	
2.20	Density (g/cm³):
0.52 (+5 to +35°C) 0.57 (0 to +200°C) 0.48 (-100 to +200°C)	Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):
7980 0G	Fused Silica Grade:

Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 235:

Need different specs or modifications?

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

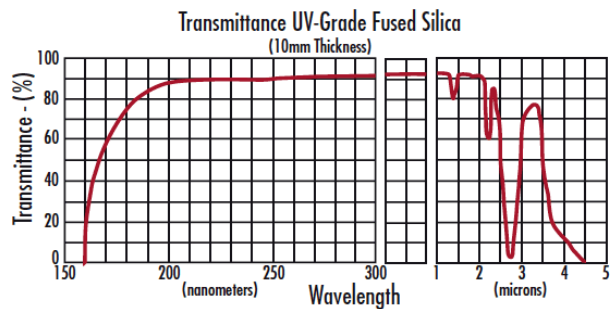
Product Details

- Available Uncoated or with Broadband Anti-Reflection Coatings
- Ideal for Cost Sensitive Broadband Applications
- Circular and Square Sizes from 5mm to 100mm
- $\lambda/4$ or $\lambda/10$ UV Fused Silica Windows Also Available

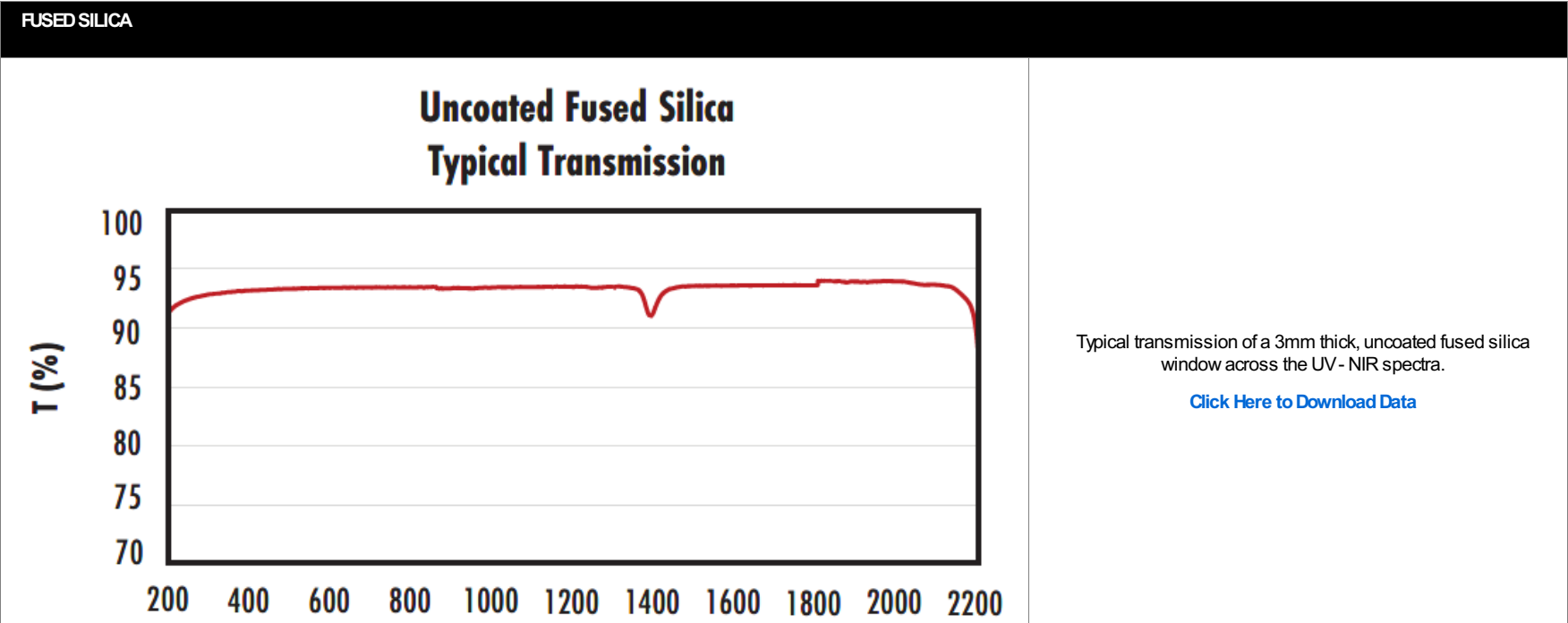
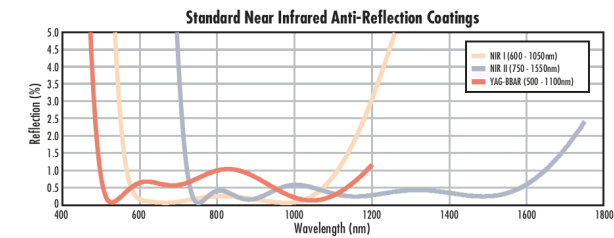
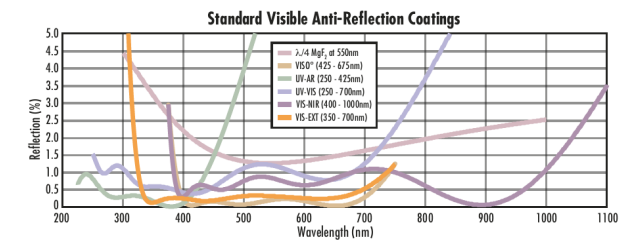
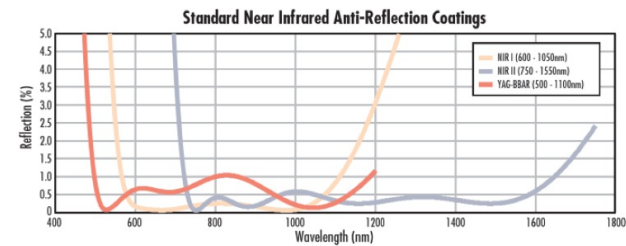
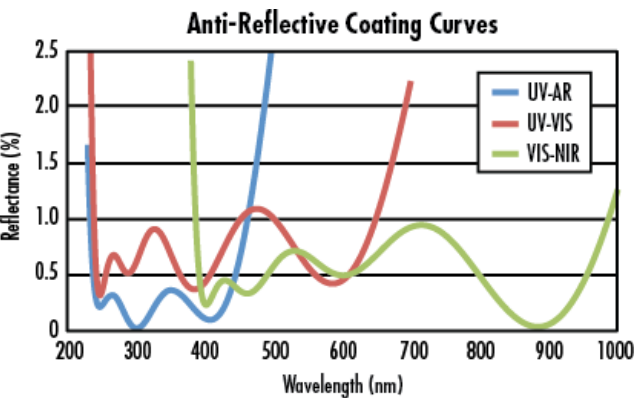
TECHSPEC® 1λ UV Fused Silica Windows are precision manufactured using UV-grade synthetic fused silica. In addition to superior transmission, the synthetic fused silica of these optical windows exhibits higher thermal properties, exceptional purity, and excellent environmental durability for demanding applications. The windows are ideal for cost-sensitive broadband applications and are available uncoated or with broadband anti-reflection coatings. TECHSPEC® 1λ UV Fused Silica Windows have circular and square sizes ranging from 5mm to 100mm. $\lambda/4$ or $\lambda/10$ UV Fused Silica Windows are also available.

Note: New additions to this product family may be specified with a transmitted wavefront distortion (TWD) specification instead of a surface flatness. For more information on the difference between these two specifications, see our application note on [Understanding Optical Windows](#).

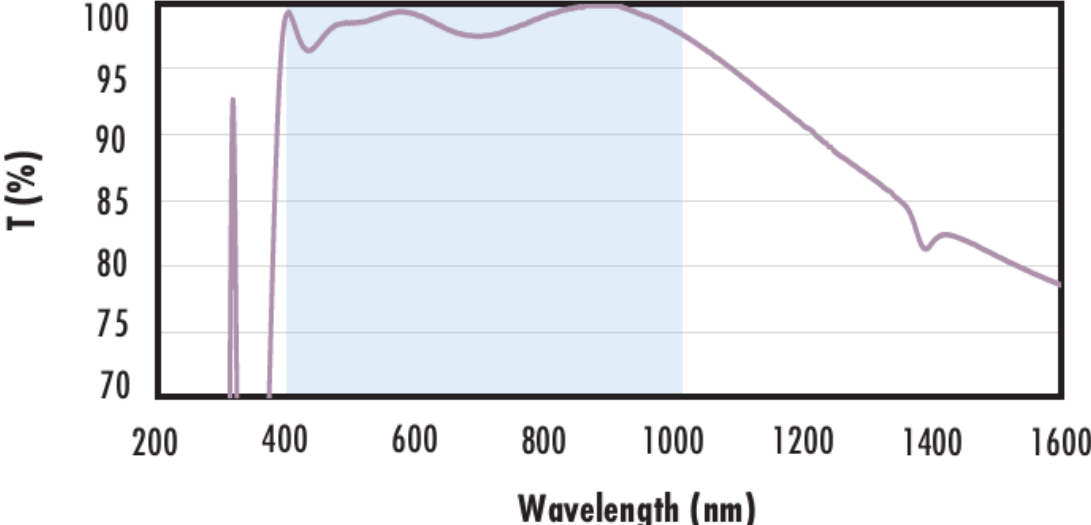
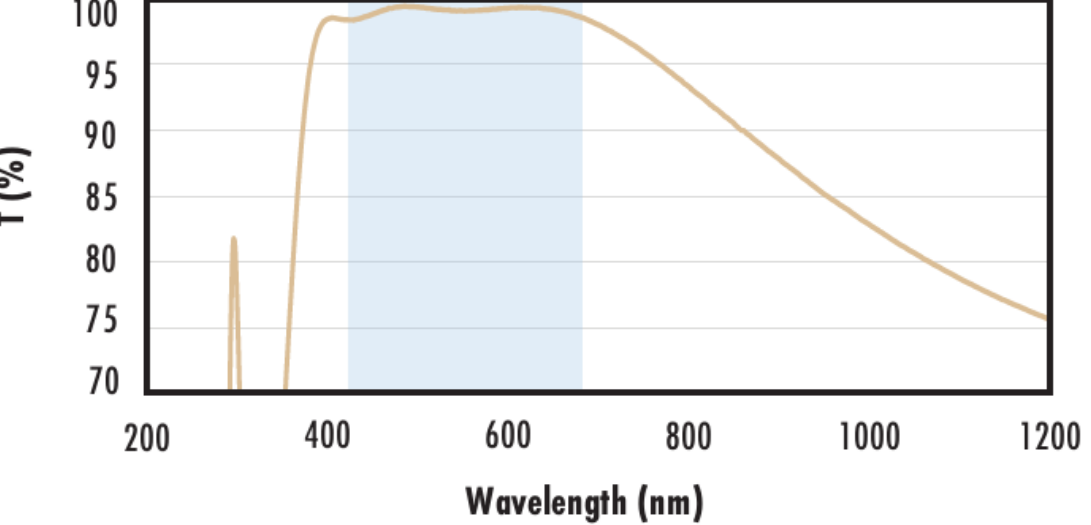
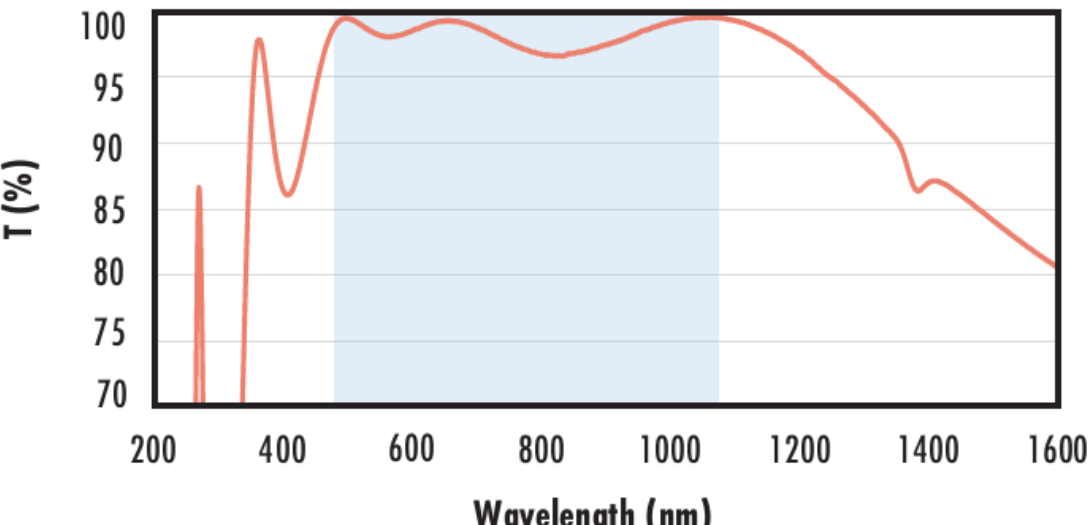
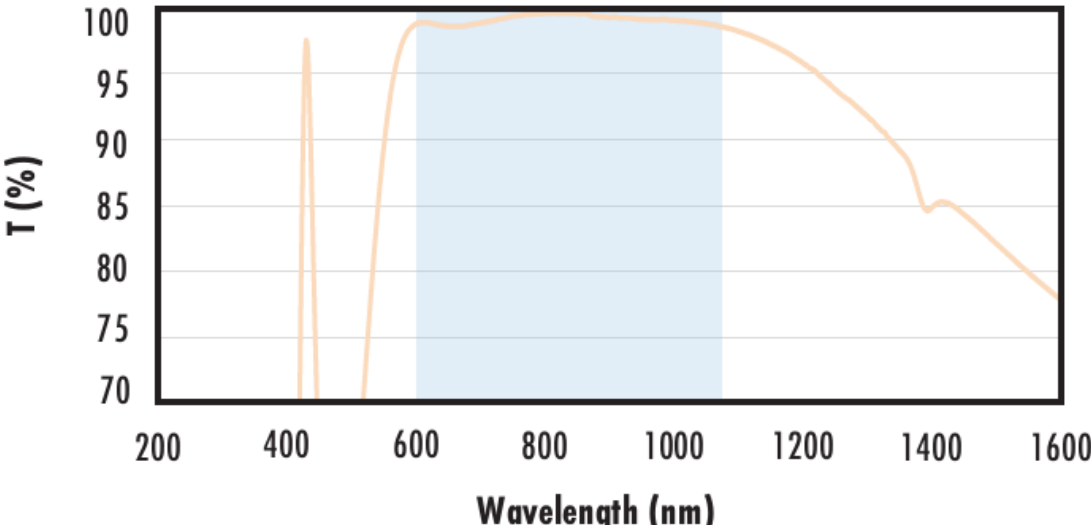
Technical Information

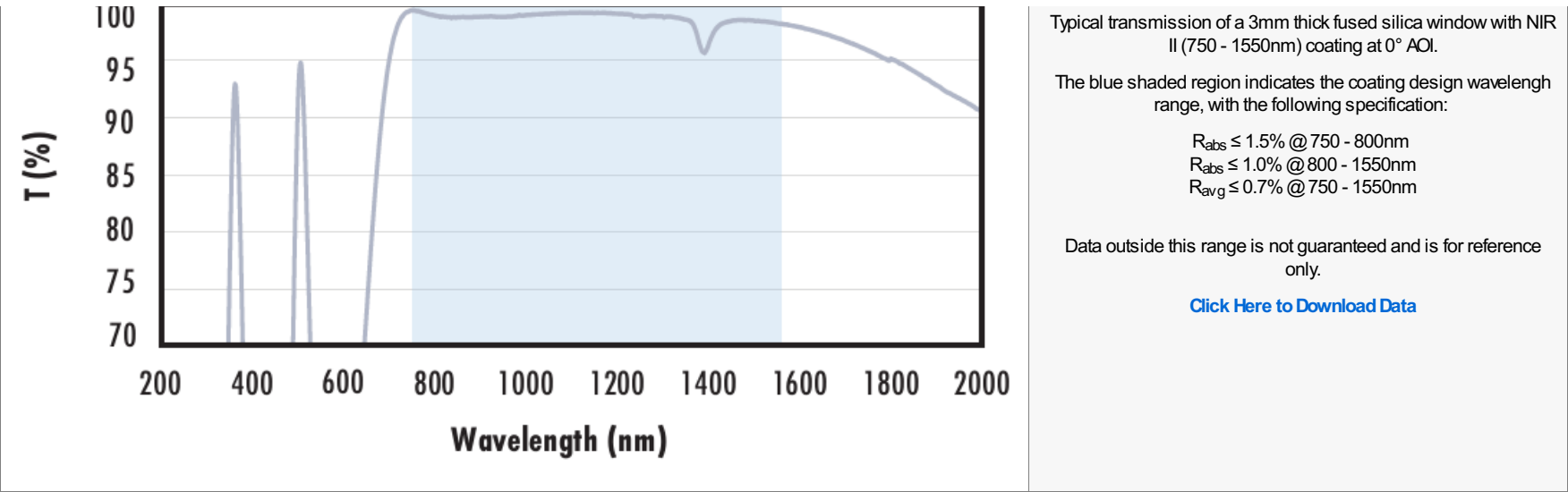


UV FS Transmission Curve



Wavelength (nm)																									
Fused Silica with MgF₂ Coating Typical Transmission This graph shows the typical transmission spectrum for fused silica with an MgF₂ coating. The x-axis represents wavelength in nanometers (nm) from 200 to 2200, and the y-axis represents transmittance T (%) from 70 to 100. A blue shaded region indicates the design range from approximately 380 nm to 720 nm. The transmission is relatively flat at about 96% across this range, with a small dip around 1400 nm. <table border="1"><thead><tr><th>Wavelength (nm)</th><th>T (%)</th></tr></thead><tbody><tr><td>200</td><td>94</td></tr><tr><td>400</td><td>96</td></tr><tr><td>600</td><td>96</td></tr><tr><td>800</td><td>96</td></tr><tr><td>1000</td><td>96</td></tr><tr><td>1200</td><td>96</td></tr><tr><td>1400</td><td>93</td></tr><tr><td>1600</td><td>95</td></tr><tr><td>1800</td><td>95</td></tr><tr><td>2000</td><td>95</td></tr><tr><td>2200</td><td>85</td></tr></tbody></table>	Wavelength (nm)	T (%)	200	94	400	96	600	96	800	96	1000	96	1200	96	1400	93	1600	95	1800	95	2000	95	2200	85	Typical transmission of a 3mm thick fused silica 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} ≤ 1.75% @ 400 - 700nm (N-BK7) Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
Wavelength (nm)	T (%)																								
200	94																								
400	96																								
600	96																								
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1400	93																								
1600	95																								
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2200	85																								
Fused Silica with UV-AR Coating Typical Transmission This graph shows the typical transmission spectrum for fused silica with a UV-antireflective (UV-AR) coating. The x-axis ranges from 200 to 1200 nm, and the y-axis ranges from 70 to 100%. The blue shaded design range is from approximately 250 nm to 425 nm. Transmission is near 100% in this range and begins to drop significantly after 600 nm. <table border="1"><thead><tr><th>Wavelength (nm)</th><th>T (%)</th></tr></thead><tbody><tr><td>200</td><td>70</td></tr><tr><td>250</td><td>98</td></tr><tr><td>400</td><td>99</td></tr><tr><td>600</td><td>90</td></tr><tr><td>800</td><td>78</td></tr><tr><td>1000</td><td>75</td></tr><tr><td>1200</td><td>77</td></tr></tbody></table>	Wavelength (nm)	T (%)	200	70	250	98	400	99	600	90	800	78	1000	75	1200	77	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_{abs} ≤ 1.0% @ 250 - 425nm R_{avg} ≤ 0.75% @ 250 - 425nm R_{avg} ≤ 0.5% @ 370 - 420nm Data outside this range is not guaranteed and is for reference only. Click Here to Download Data								
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Fused Silica with UV-VIS Coating Typical Transmission This graph shows the typical transmission spectrum for fused silica with a UV-visible (UV-VIS) antireflective coating. The x-axis ranges from 200 to 1200 nm, and the y-axis ranges from 70 to 100%. The blue shaded design range is from approximately 250 nm to 680 nm. Transmission remains above 95% throughout this broad range before decreasing at longer wavelengths. <table border="1"><thead><tr><th>Wavelength (nm)</th><th>T (%)</th></tr></thead><tbody><tr><td>200</td><td>70</td></tr><tr><td>250</td><td>97</td></tr><tr><td>400</td><td>99</td></tr><tr><td>600</td><td>100</td></tr><tr><td>800</td><td>85</td></tr><tr><td>1000</td><td>78</td></tr><tr><td>1200</td><td>77</td></tr></tbody></table>	Wavelength (nm)	T (%)	200	70	250	97	400	99	600	100	800	85	1000	78	1200	77	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_{abs} ≤ 1.0% @ 350 - 450nm R_{avg} ≤ 1.5% @ 250 - 700nm Data outside this range is not guaranteed and is for reference only. Click Here to Download Data								
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Fused Silica with VIS-EXT Coating Typical Transmission This graph shows the typical transmission spectrum for fused silica with a visible-light extended (VIS-EXT) antireflective coating. The x-axis ranges from 200 to 1200 nm, and the y-axis ranges from 70 to 100%. The blue shaded design range is from approximately 350 nm to 680 nm. Transmission is very high (near 100%) within this range and starts to decline after 800 nm. <table border="1"><thead><tr><th>Wavelength (nm)</th><th>T (%)</th></tr></thead><tbody><tr><td>200</td><td>70</td></tr><tr><td>350</td><td>95</td></tr><tr><td>500</td><td>100</td></tr><tr><td>700</td><td>100</td></tr><tr><td>800</td><td>95</td></tr><tr><td>1000</td><td>85</td></tr><tr><td>1200</td><td>78</td></tr></tbody></table>	Wavelength (nm)	T (%)	200	70	350	95	500	100	700	100	800	95	1000	85	1200	78	Typical transmission of a 3mm thick fused silica 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} ≤ 0.5% @ 350 - 700nm Data outside this range is not guaranteed and is for reference only. Click Here to Download Data								
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Fused Silica with VIS-NIR Coating Typical Transmission 	Typical transmission of a 3mm thick fused silica window with VIS-NIR (400-1000nm) coating at 0° AOI. The blue shaded region indicates the coating design wavelength range, with the following specification: $R_{abs} \leq 0.25\%$ @ 880nm $R_{avg} \leq 1.25\%$ @ 400 - 870nm $R_{avg} \leq 1.25\%$ @ 890 - 1000nm Data outside this range is not guaranteed and is for reference only. Click Here to Download Data
Fused Silica with VIS 0° Coating Typical Transmission 	Typical transmission of a 3mm thick fused silica 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. Click Here to Download Data
Fused Silica with YAG-BBAR Coating Typical Transmission 	Typical transmission of a 3mm thick fused silica 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
Fused Silica with NIR I Coating Typical Transmission 	Typical transmission of a 3mm thick fused silica 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
Fused Silica with NIR II Coating Typical Transmission	



Coating Curves

Compatible Mounts