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TECHSPEC® 15mm Dia. x 25mm FL UV-VIS Coated, UV Plano-Convex Lens



UV Fused Silica Plano-Convex (PCX) Lenses



Stock #84-297 **20+ In Stock**

⊖ 1 ⊕ **\$239⁰⁰**

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Volume Pricing	
Qty 1-5	\$239.40 each
Qty 6-25	\$191.80 each
Qty 26-49	\$179.20 each
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General

Plano-Convex Lens **Type:**

Physical & Mechanical Properties

15.00 +0.0/-0.025 **Diameter (mm):**

Centering (arcmin):	<1
Center Thickness CT (mm):	4.25 ±0.10
Edge Thickness ET (mm):	1.46
Clear Aperture CA (mm):	14
Bevel:	Protective as needed

Optical Properties

Effective Focal Length EFL (mm):	25.00 @ 587.6nm
Back Focal Length BFL (mm):	22.09
Coating:	UV-VIS (250-700nm)
Coating Specification:	R _{abs} ≤1.0% @ 350 - 450nm R _{avg} ≤1.5% @ 250 - 700nm
Substrate: <input type="checkbox"/>	Fused Silica (Coming 7980)
Surface Quality:	40-20
Power (P-V) @ 632.8nm:	1.5λ
Irregularity (P-V) @ 632.8nm:	λ/4
Focal Length Tolerance (%):	±1
Radius R ₁ (mm):	11.46
f#:	1.67
Numerical Aperture NA:	0.30
Wavelength Range (nm):	250 - 700
Damage Threshold, Reference: <input type="checkbox"/>	3 J/cm ² @ 355nm, 10ns 5 J/cm ² @ 532nm, 10ns

Regulatory Compliance

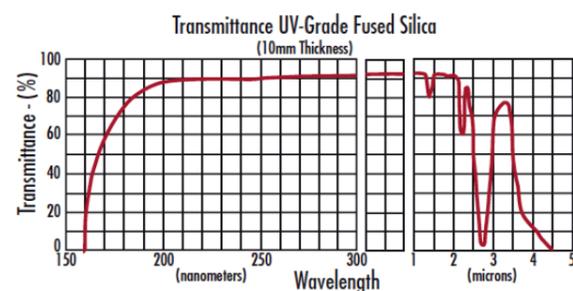
RoHS 2015:	Compliant
Certificate of Conformance:	View
Reach 235:	Compliant

Product Details

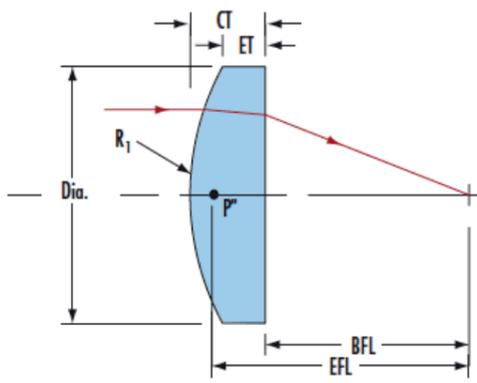
- AR Coated to Provide <1.5% Reflection per Surface for 250 - 700nm
- Precision Fused Silica Substrate
- Various Coating Options: [Uncoated](#), [MgF₂](#), [UV-AR](#), [VIS-EXT](#), [VIS-NIR](#), [VIS 0°](#), [YAG-BBAR](#), [NIR I](#), and [NIR II](#)

TECHSPEC® UV Fused Silica Plano-Convex (PCX) Lenses UV-VIS Coated feature precision specifications and a [variety of coating options](#) on a broadband substrate. Fused Silica is commonly used in applications from the Ultraviolet (UV) through the Near-Infrared (NIR). Its low index of refraction, low coefficient of thermal expansion, and low inclusion content make it ideal for laser applications and harsh environmental conditions. TECHSPEC® UV Fused Silica Plano-Convex (PCX) Lenses UV-VIS Coated feature industry leading diameter and centration specifications, making them ideal for integration into demanding imaging and targeting applications. These lenses are UV-VIS coated to increase their coating performance in the ultraviolet and visible region.

Technical Information

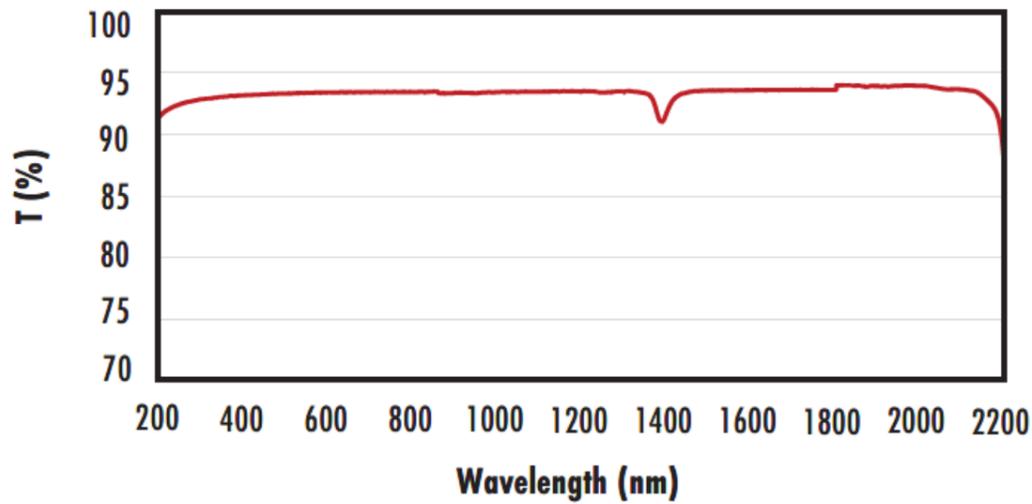


UV FS Transmission Curve



FUSED SILICA

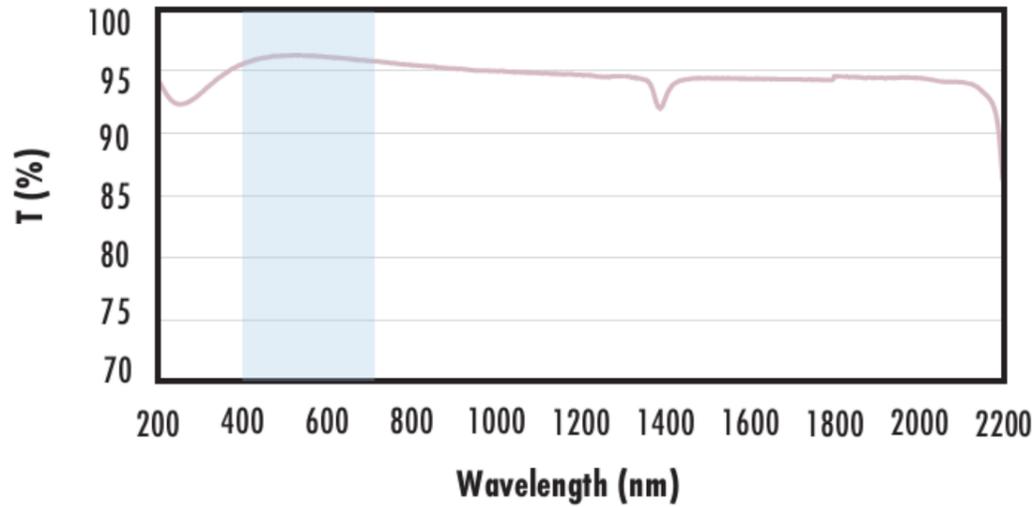
Uncoated Fused Silica Typical Transmission



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

[Click Here to Download Data](#)

Fused Silica with MgF₂ Coating Typical Transmission



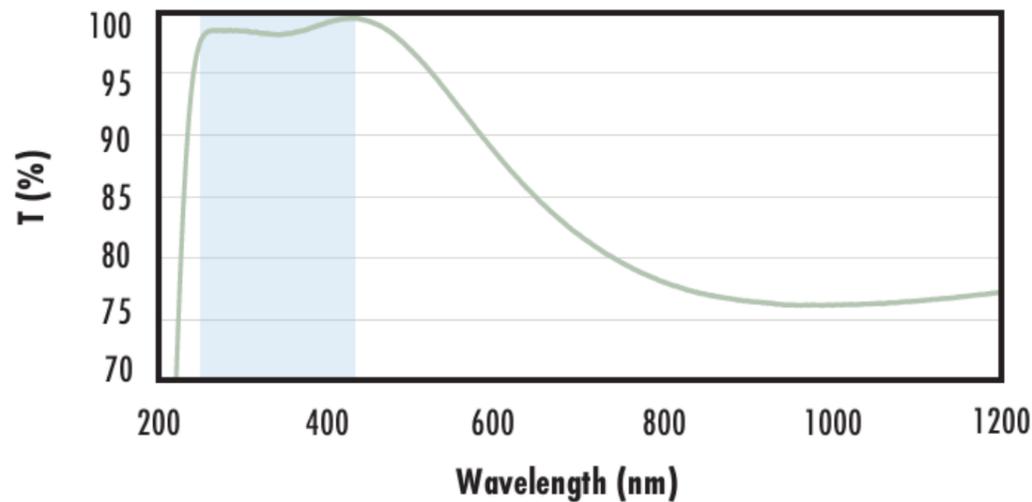
Typical transmission of a 3mm thick fused silica window with MgF₂ (400-700nm) coating at 0° AOI. The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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:

$$R_{abs} \leq 1.0\% @ 250 - 425\text{nm}$$

$$R_{avg} \leq 0.75\% @ 250 - 425\text{nm}$$

$$R_{avg} \leq 0.5\% @ 370 - 420\text{nm}$$

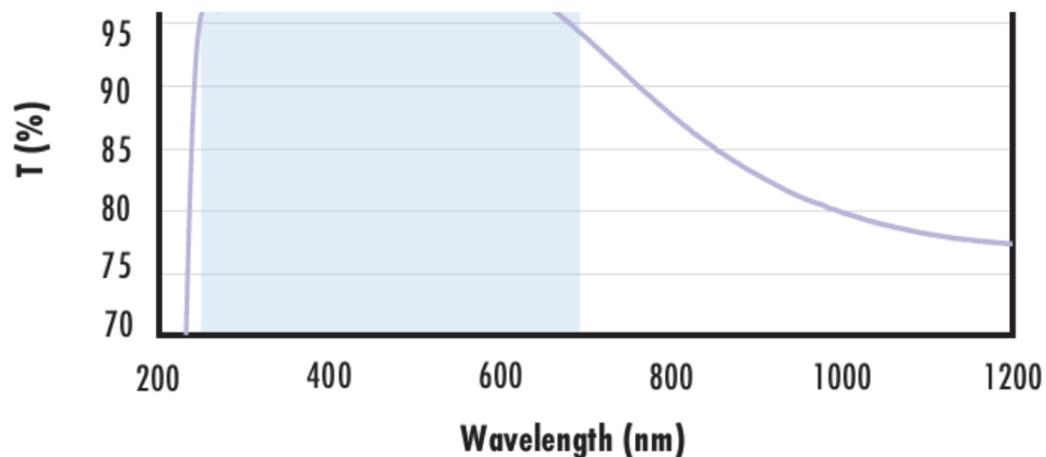
Data outside this range is not guaranteed and is for reference only.

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Fused Silica with UV-VIS Coating Typical Transmission

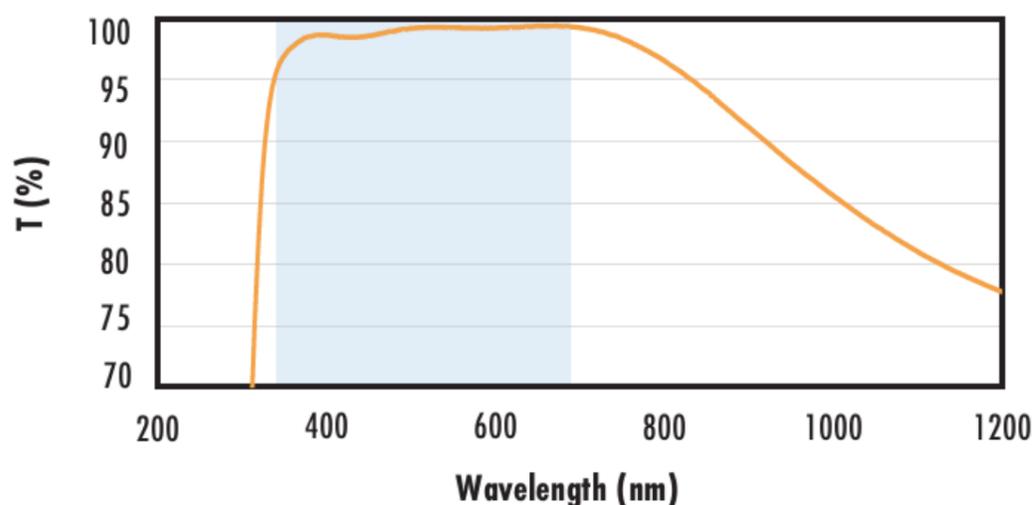


Typical transmission of a 3mm thick fused silica window with UV-



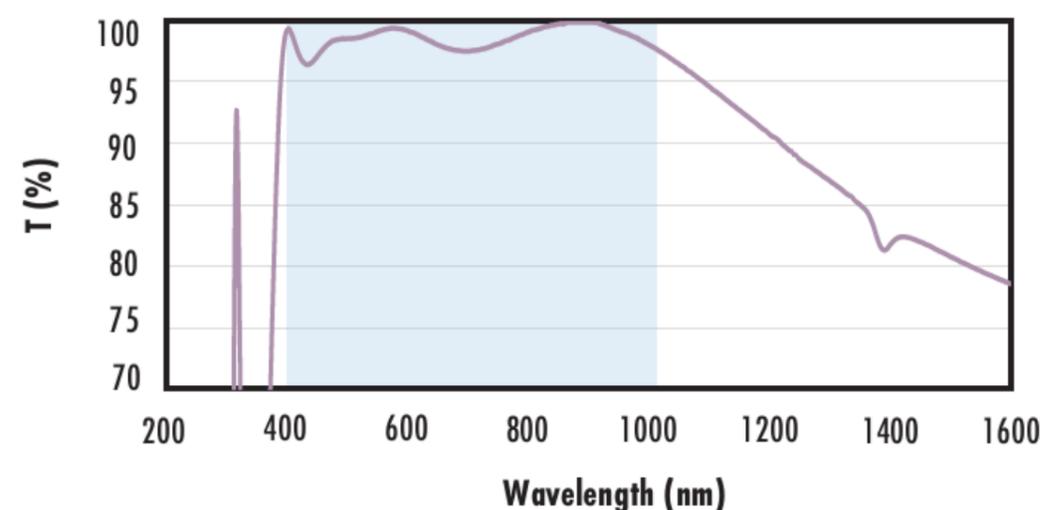
VIS (250-700nm) coating at 0° AOI.
 The blue shaded region indicates the coating design wavelength range, with the following specification:
 $R_{abs} \leq 1.0\%$ @ 350 - 450nm
 $R_{avg} \leq 1.5\%$ @ 250 - 700nm
 Data outside this range is not guaranteed and is for reference only.
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**Fused Silica with VIS-EXT Coating
 Typical Transmission**



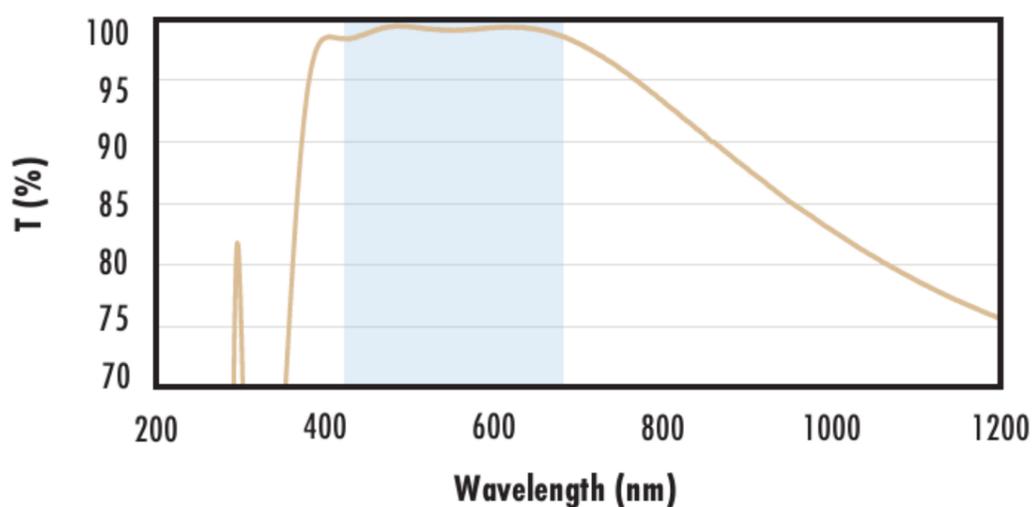
Typical transmission of a 3mm thick fused silica window with VIS-EXT (350-700nm) coating at 0° AOI.
 The blue shaded region indicates the coating design wavelength range, with the following specification:
 $R_{avg} \leq 0.5\%$ @ 350 - 700nm
 Data outside this range is not guaranteed and is for reference only.
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**Fused Silica with VIS-NIR Coating
 Typical Transmission**



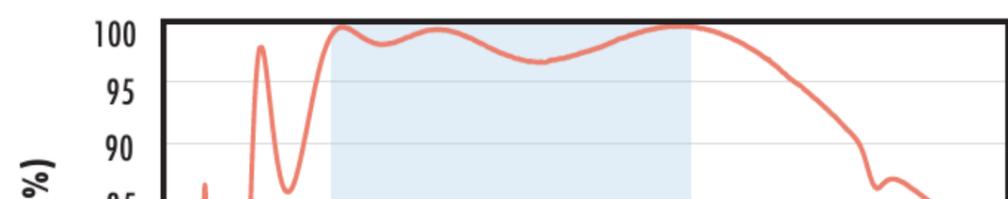
Typical transmission of a 3mm thick fused silica window with VIS-NIR (400-1000nm) coating at 0° AOI.
 The blue shaded region indicates the coating design wavelength range, with the following specification:
 $R_{abs} \leq 0.25\%$ @ 880nm
 $R_{avg} \leq 1.25\%$ @ 400 - 870nm
 $R_{avg} \leq 1.25\%$ @ 890 - 1000nm
 Data outside this range is not guaranteed and is for reference only.
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**Fused Silica with VIS 0° Coating
 Typical Transmission**

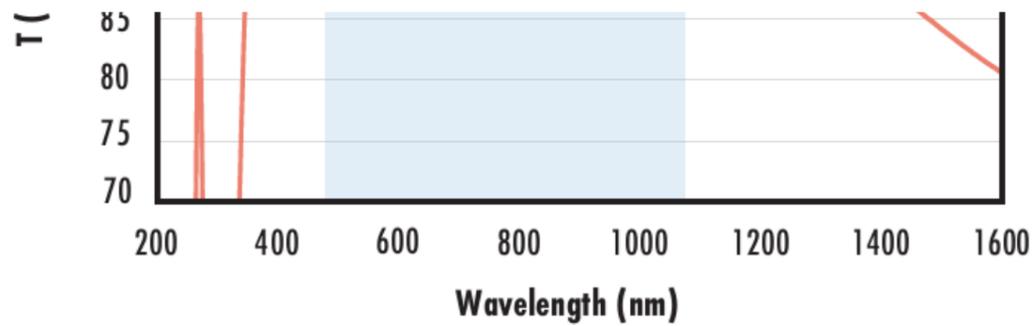


Typical transmission of a 3mm thick fused silica window with VIS 0° (425-675nm) coating at 0° AOI.
 The blue shaded region indicates the coating design wavelength range, with the following specification:
 $R_{avg} \leq 0.4\%$ @ 425 - 675nm
 Data outside this range is not guaranteed and is for reference only.
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**Fused Silica with YAG-BBAR Coating
 Typical Transmission**

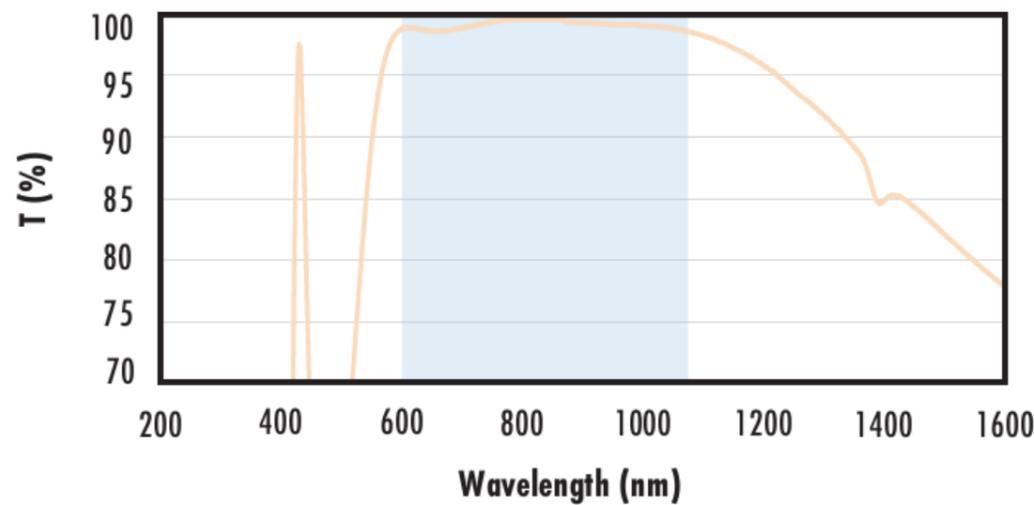


Typical transmission of a 3mm thick fused silica window with YAG-BBAR (500-1100nm) coating at 0° AOI.
 The blue shaded region indicates the coating design wavelength range, with the following specification:
 $R_{abs} \leq 0.25\%$ @ 532nm
 $R_{avg} \leq 0.25\%$ @ 500 - 1100nm
 Data outside this range is not guaranteed and is for reference only.
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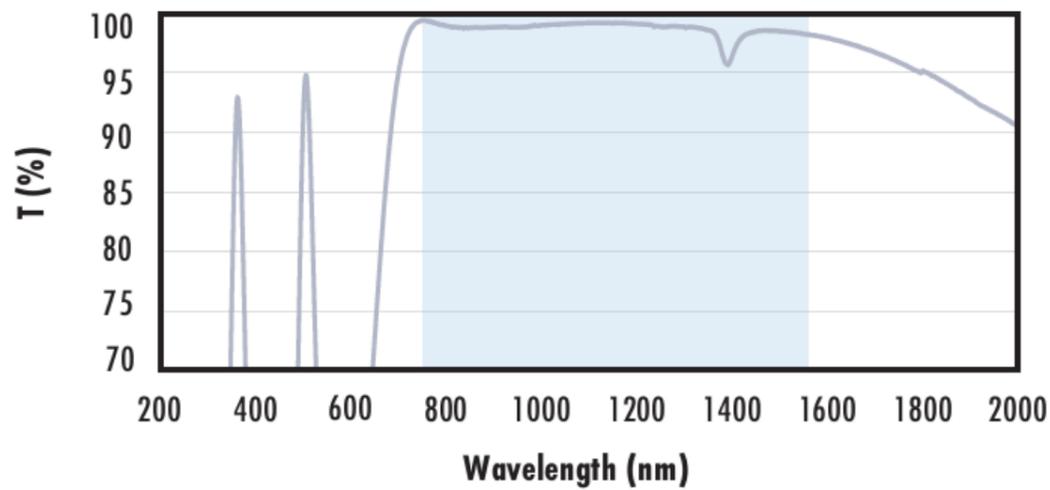
$R_{abs} \leq 0.25\% @ 1064\text{nm}$
 $R_{avg} \leq 1.0\% @ 500 - 1100\text{nm}$
 Data outside this range is not guaranteed and is for reference only.
[Click Here to Download Data](#)

**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:
 $R_{avg} \leq 0.5\% @ 600 - 1050\text{nm}$
 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**



Typical transmission of a 3mm thick fused silica window with NIR II (750 - 1550nm) coating at 0° AOI.
 The blue shaded region indicates the coating design wavelength range, with the following specification:
 $R_{abs} \leq 1.5\% @ 750 - 800\text{nm}$
 $R_{abs} \leq 1.0\% @ 800 - 1550\text{nm}$
 $R_{avg} \leq 0.7\% @ 750 - 1550\text{nm}$
 Data outside this range is not guaranteed and is for reference only.
[Click Here to Download Data](#)

Custom

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](#).

Compatible Mounts