

TECHSPEC<sup>®</sup> 4mm Dia x 8mm FL Uncoated, UV Plano-Convex Lens



UV Fused Silica Plano-Convex (PCX) Lenses



Stock **#70-886** 20+ In Stock

-

1

+

S\$168<sup>.00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | S\$168.00 each                |
| Qty 6-25       | S\$135.10 each                |
| Qty 26-49      | S\$125.30 each                |
| Need More?     | <a href="#">Request Quote</a> |

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SPECIFICATIONS

General

Type:

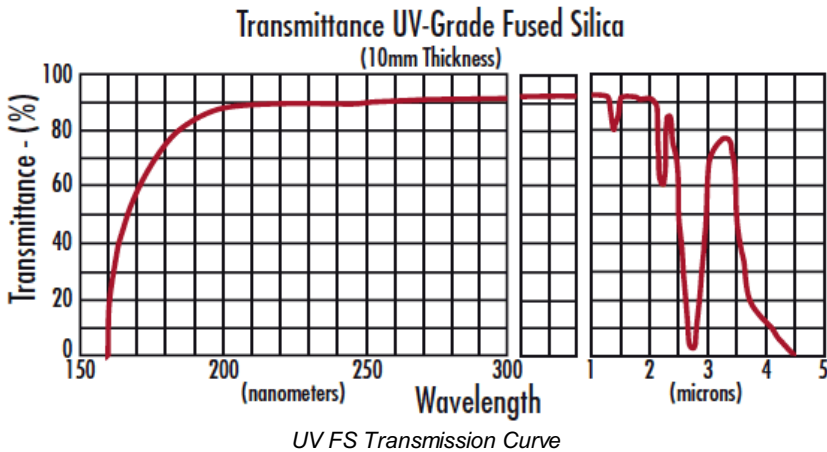
|                                  |                                  |
|----------------------------------|----------------------------------|
| Plano-Convex Lens                |                                  |
| Physical & Mechanical Properties |                                  |
| 4.00 +0.00/-0.025                | Diameter (mm):                   |
| <3                               | Centering (arcmin):              |
| 1.60 ±0.05                       | Center Thickness CT (mm):        |
| 1.01                             | Edge Thickness ET (mm):          |
| 3.6                              | Clear Aperture CA (mm):          |
| Protective as needed             | Bevel:                           |
| Optical Properties               |                                  |
| 8.00                             | Effective Focal Length EFL (mm): |
| 6.91                             | Back Focal Length BFL (mm):      |
| Uncoated                         | Coating:                         |
| Fused Silica                     | Substrate: <div></div>           |
| 20-10                            | Surface Quality:                 |
| 1.5λ                             | Power (P-V) @ 632.8nm:           |
| λ/4                              | Irregularity (P-V) @ 632.8nm:    |
| ±1                               | Focal Length Tolerance (%):      |
| 3.67                             | Radius R <sub>1</sub> (mm):      |
| 2                                | f/#:                             |
| 0.25                             | Numerical Aperture NA:           |
| 200 - 2200                       | Wavelength Range (nm):           |
| Regulatory Compliance            |                                  |
| View                             | Certificate of Conformance:      |

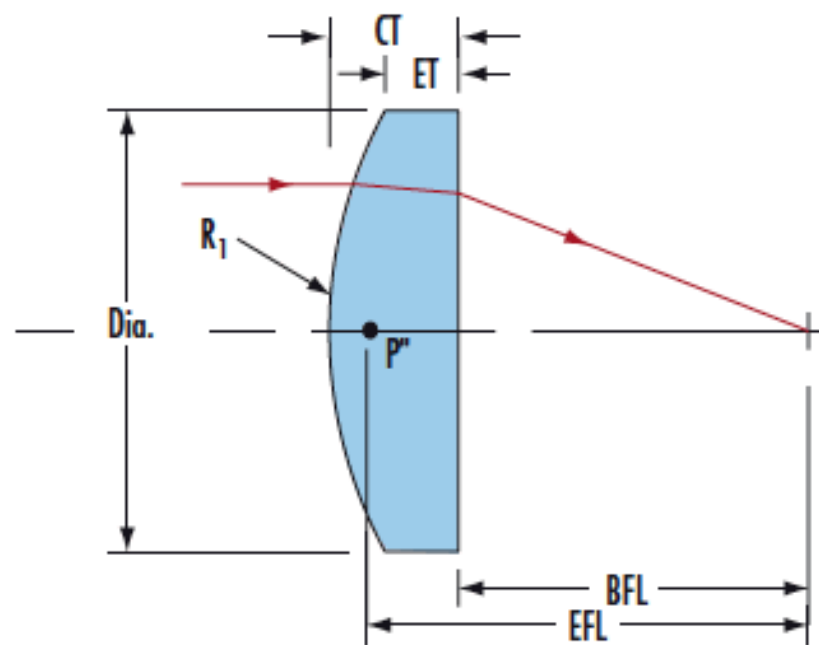
## PRODUCT DETAILS

- UV-Grade Fused Silica
- Wavelength Range of 200nm to 2.2μm
- Variety of Coating Options Available
- Various Coating Options: [MgF<sub>2</sub>](#), [UV-AR](#), [UV-VIS](#), [VIS-EXT](#), [VIS-NIR](#), [VIS 0°](#), [YAG-BBAR](#), [NIR I](#), and [NIR II](#)

TECHSPEC® UV Fused Silica Plano-Convex (PCX) Lenses Uncoated 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 Uncoated feature industry leading diameter and centration specifications, making them ideal for integration into demanding imaging and targeting applications.

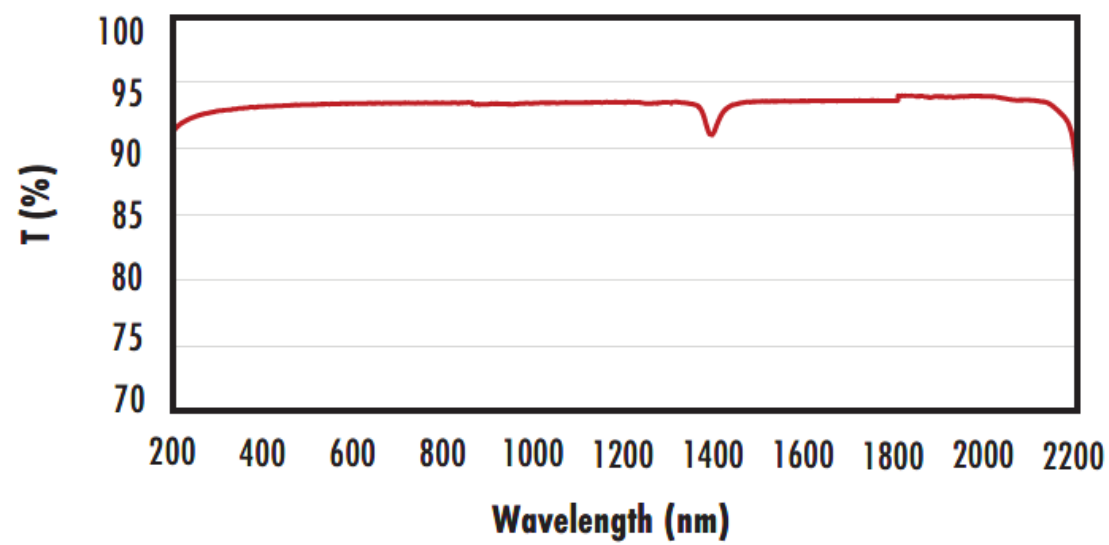
## TECHNICAL INFORMATION





## FUSED SILICA

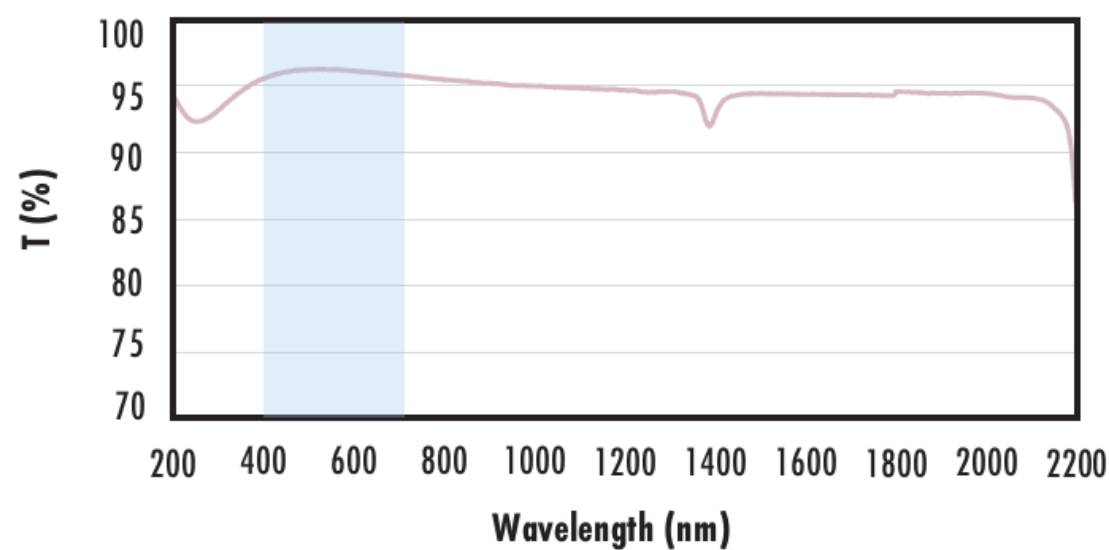
### Uncoated Fused Silica Typical Transmission



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  $0^\circ$  AOI.

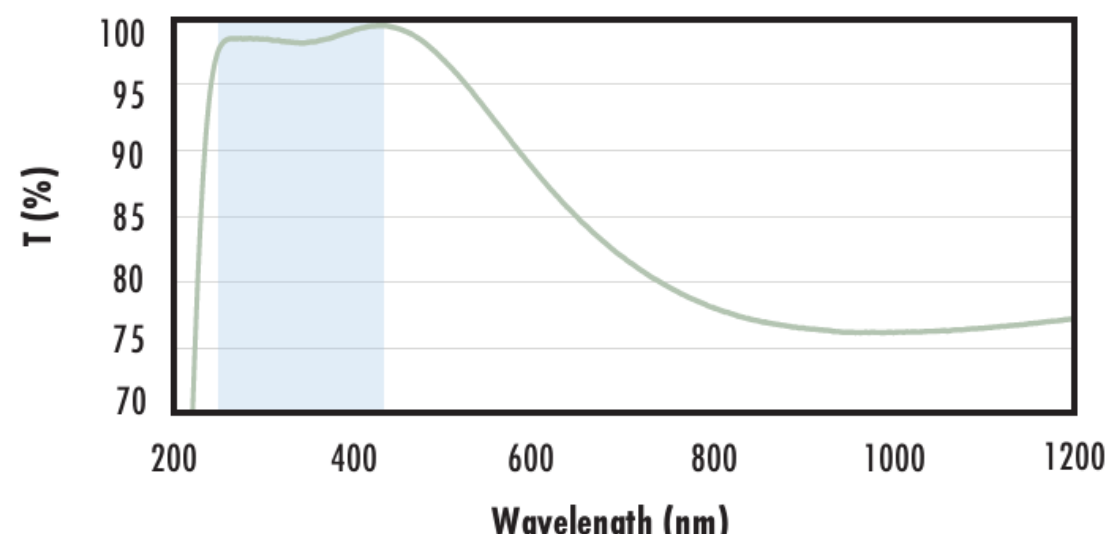
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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  $0^\circ$  AOI.

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

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

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

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

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

[Click Here to Download Data](#)

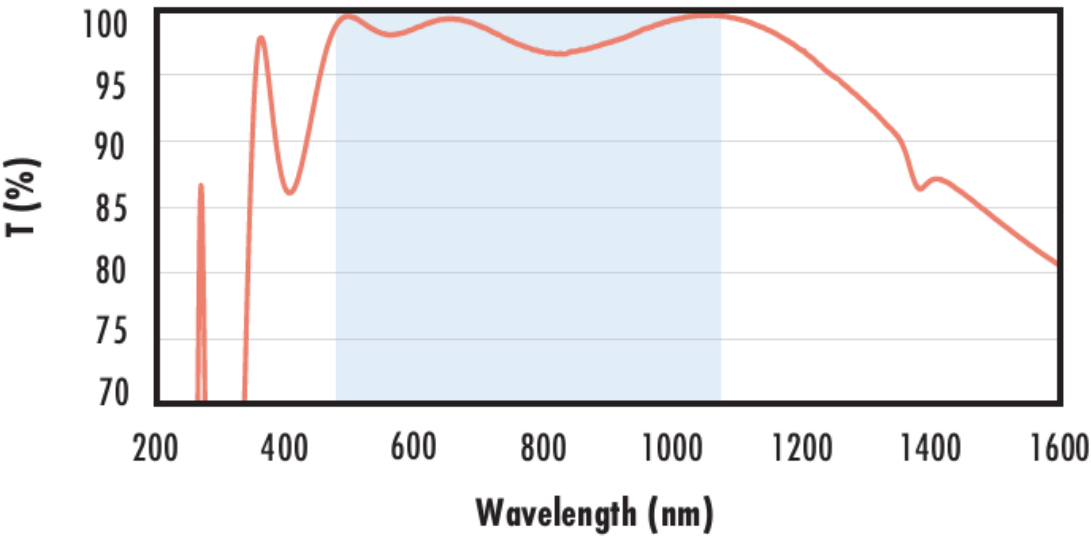
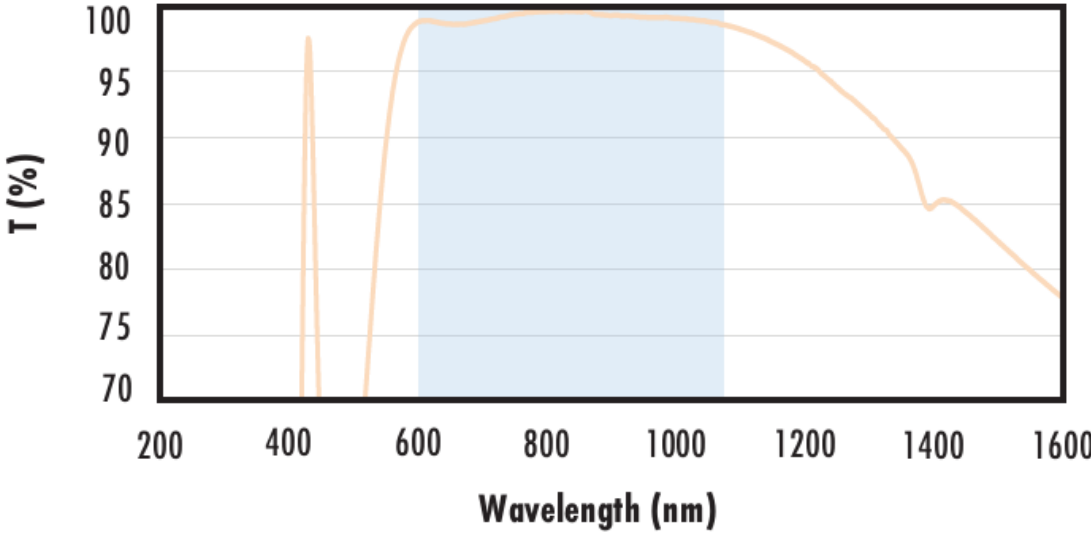
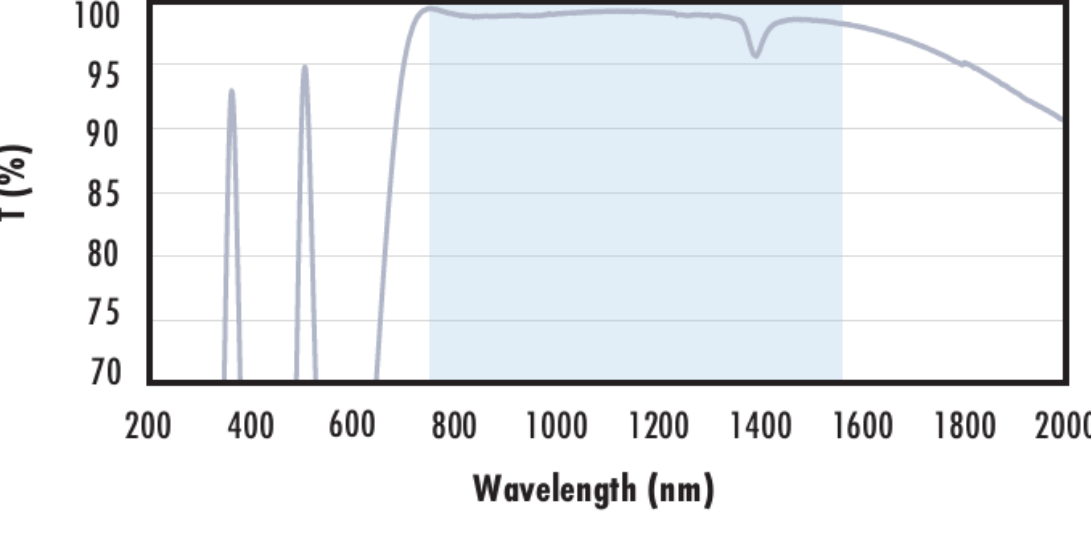
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### Fused Silica with YAG-BBAR Coating

|                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div><h3>Typical Transmission</h3></div>                                        | <div><p>Typical transmission of a 3mm thick fused silica 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><div><math>R_{abs} \leq 0.25\% \text{ @ } 532\text{nm}</math><math>R_{abs} \leq 0.25\% \text{ @ } 1064\text{nm}</math><math>R_{avg} \leq 1.0\% \text{ @ } 500 - 1100\text{nm}</math></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></div>           |
| <div><h3>Fused Silica with NIR I Coating<br/>Typical Transmission</h3></div>   | <div><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><div><math>R_{avg} \leq 0.5\% \text{ @ } 600 - 1050\text{nm}</math></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></div>                                                                                                                             |
| <div><h3>Fused Silica with NIR II Coating<br/>Typical Transmission</h3></div> | <div><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><div><math>R_{abs} \leq 1.5\% \text{ @ } 750 - 800\text{nm}</math><math>R_{abs} \leq 1.0\% \text{ @ } 800 - 1550\text{nm}</math><math>R_{avg} \leq 0.7\% \text{ @ } 750 - 1550\text{nm}</math></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></div> |

## 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](#).