

TECHSPEC[®] 75mm Dia x 125mm FL Uncoated, UV Plano-Convex Lens



UV Fused Silica Plano-Convex (PCX) Lenses



Stock **#70-890** 20+ In Stock

-

1

+

A\$1,024^{.00}

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Volume Pricing	
Qty 1-5	A\$1,024.00 each
Qty 6-25	A\$816.00 each
Qty 26-49	A\$768.00 each
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General

Type:

Plano-Convex Lens

Physical & Mechanical Properties

Diameter (mm):

75.00 +0.00/-0.025

<1	Centering (arcmin):
18.00 ±.10	Center Thickness CT (mm):
4.03	Edge Thickness ET (mm):
73.5	Clear Aperture CA (mm):
Protective as needed	Bevel:
Optical Properties	
125.00	Effective Focal Length EFL (mm):
112.66	Back Focal Length BFL (mm):
Uncoated	Coating:
Fused Silica	Substrate: ☐
40-20	Surface Quality:
1.5λ	Power (P-V) @ 632.8nm:
λ/4	Irregularity (P-V) @ 632.8nm:
±1	Focal Length Tolerance (%):
57.31	Radius R ₁ (mm):
1.67	f/#:
0.29	Numerical Aperture NA:
200 - 2200	Wavelength Range (nm):
Regulatory Compliance	
View	Certificate of Conformance:

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](#).

Product Details

- UV-Grade Fused Silica
- Wavelength Range of 200nm to 2.2μm
- Variety of Coating Options Available
- Various Coating Options: [MgF₂](#), [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



UV FS Transmission Curve

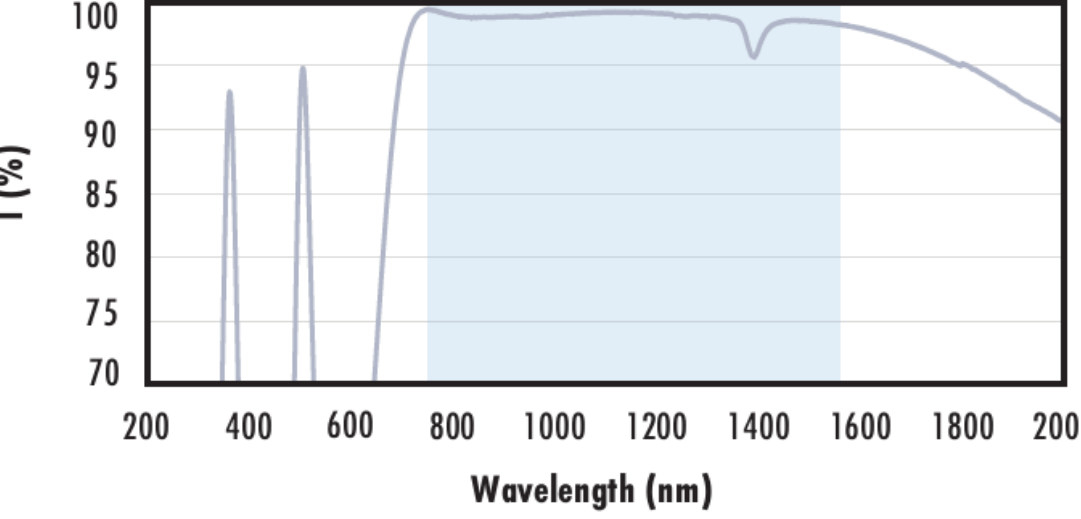


FUSED SILICA	
Uncoated Fused Silica Typical Transmission Typical transmission of a 3mm thick, uncoated fused silica window across the UV - NIR spectra. Click Here to Download Data	
Fused Silica with MgF₂ Coating Typical Transmission Typical transmission of a 3mm thick fused silica window with MgF₂ (400-700nm) 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. Click Here to Download Data	

20040060080010001200 Wavelength (nm)	
Fused Silica with UV-VIS Coating Typical Transmission T (%) 100 95 90 85 80 75 70 200 400 600 800 1000 1200 Wavelength (nm)	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.

[Click Here to Download Data](#)

Fused Silica with YAG-BBAR Coating Typical Transmission  The graph shows the typical transmission of a 3mm thick fused silica window with a YAG-BBAR coating. The y-axis represents Transmittance (T) in percent, ranging from 70 to 100. The x-axis represents Wavelength in nanometers (nm), ranging from 200 to 1600. The transmission curve is red, showing several sharp absorption peaks below 500 nm. A blue shaded region highlights the design wavelength range from 500 nm to 1100 nm, where the transmission is consistently high, above 95%.	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  The graph shows the typical transmission of a 3mm thick fused silica window with an NIR I coating. The y-axis represents Transmittance (T) in percent, ranging from 70 to 100. The x-axis represents Wavelength in nanometers (nm), ranging from 200 to 1600. The transmission curve is orange, showing sharp absorption peaks below 500 nm. A blue shaded region highlights the design wavelength range from 600 nm to 1050 nm, where the transmission is consistently high, above 95%.	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  The graph shows the typical transmission of a 3mm thick fused silica window with an NIR II coating. The y-axis represents Transmittance (T) in percent, ranging from 70 to 100. The x-axis represents Wavelength in nanometers (nm), ranging from 200 to 2000. The transmission curve is blue, showing sharp absorption peaks below 600 nm. A blue shaded region highlights the design wavelength range from 750 nm to 1550 nm, where the transmission is consistently high, above 95%.	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 - 800nm $R_{abs} \leq 1.0\%$ @ 800 - 1550nm $R_{avg} \leq 0.7\%$ @ 750 - 1550nm Data outside this range is not guaranteed and is for reference only. Click Here to Download Data