

TECHSPEC®

25.4 x 25.4mm x 50mm FL, Uncoated Laser Grade PCX Cylinder Lens



Stock #36-090 **20+ In Stock**

- 1 +

MRP ₹16,764

Price inclusive of all taxes

ADD TO CART

TECHSPEC Beam Shaping Fused Silica Cylinder Lenses

| Volume Pricing | |
|----------------|-------------------------------|
| Qty 1-5 | ₹16,764 each |
| Qty 6-25 | ₹15,136 each |
| Qty 26-49 | ₹14,370 each |
| Need More? | Request Quote |

Product Downloads

- STEP:step
- PDF Drawing:pdf
- IGES:igs
- Zemax:zar
- Zemax:zmx
- eDrawing:eprt
- Code V:seq
- EO Spec Sheet
- [Download All](#)

General

Type: Cylinder Lens, Plano-Convex

Physical & Mechanical Properties

| | | | |
|---|----------------------|----------------------------------|---------------|
| Bevel: | Protective as needed | Center Thickness CT (mm): | 5.00 |
| Center Thickness Tolerance (mm): | ±0.1 | Clear Aperture CA (mm): | 22.86 x 22.86 |
| Dimensional Tolerance (mm): | +0.0/-0.025 | Dimensions (mm): | 25.4 x 25.4 |
| Edge Thickness ET (mm): | 1.16 | Axial Twist (arcmin): | <3 |

Optical Properties

| | | | |
|---|----------|---|------------|
| Effective Focal Length EFL (mm): | 50.00 | Substrate: Fused Silica (Corning 7980) | |
| f/#: | 2.00 | Numerical Aperture NA: | 0.17 |
| Coating: | Uncoated | Wavelength Range (nm): | 200 - 2200 |
| Back Focal Length BFL (mm): | 46.58 | Radius R₁ (mm): | 22.93 |
| Surface Quality: | 20-10 | Power (P-V) @ 632.8nm: | 1.5λ |

| | | | |
|--------------------------------------|-------------|-----------------------------------|----|
| Irregularity (P-V) @ 632.8nm: | $\lambda/4$ | Plano Axis Wedge (arcmin): | <3 |
| Power Axis Wedge (arcmin): | <4.5 | | |

Regulatory Compliance

| | | | |
|------------------------------------|------------------|---------------------|--|
| RoHS 2015: | Compliant | Reach 223: | Compliant |
| Certificate of Conformance: | View | | |
| Country of Origin: | China | Imported By: | Edmund Optics India Private Limited 267, Greystone Building, Second Floor, 6th Cross Rd, Binnamangala, Stage 1, Indiranagar, Bengaluru, Karnataka, India 560038 Phone: +91- 80-6845 0000 |

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](#).

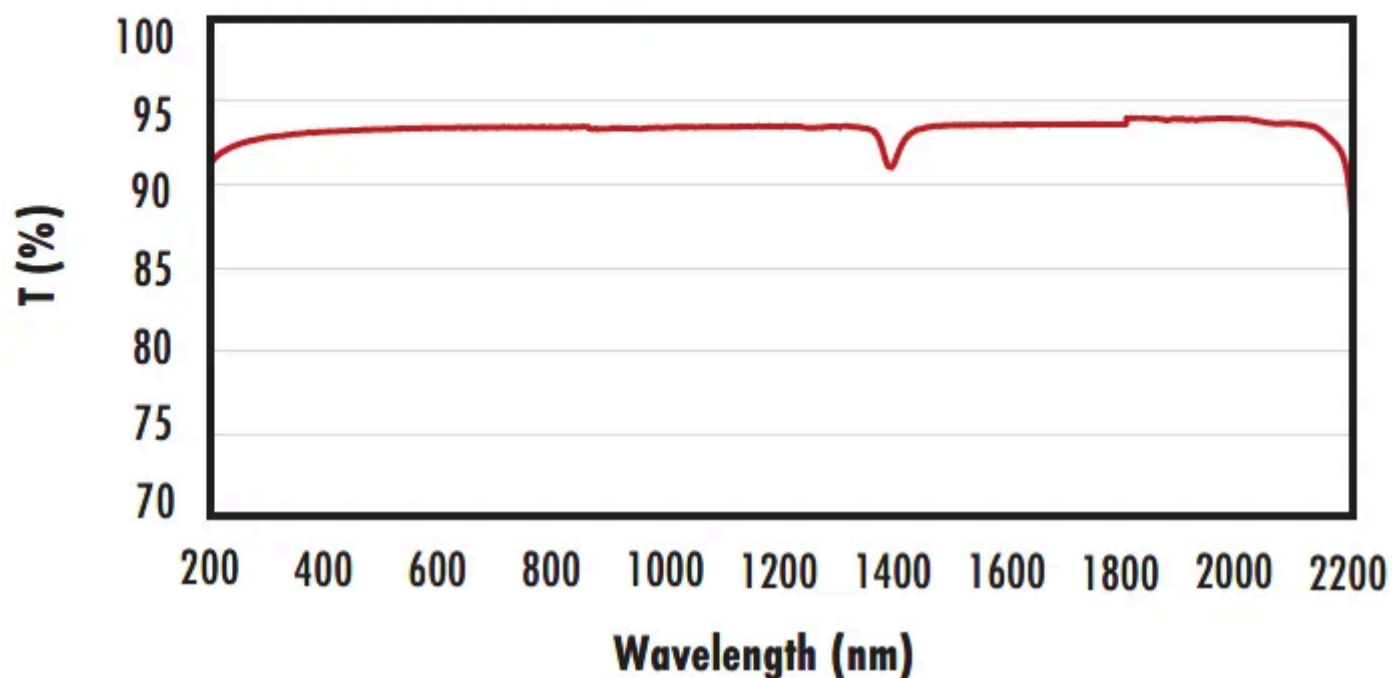
Product Details

- Offers Superior Performance from UV to IR
- Fused Silica Substrate
- Laser Optic Surface Quality

TECHSPEC® Laser Grade Broadband Cylinder Lenses feature precision specifications for the most demanding applications. These lenses are constructed of premium grade fused silica optical glass and are tailored for laser applications with a surface quality of 20-10. Our TECHSPEC Laser Grade Broadband Cylinder Lenses feature tight wedge tolerances, typically less than 3 arcmin in all dimensions. Integration of these lenses is facilitated by square form factors allowing convenient mounting options.

Technical Information

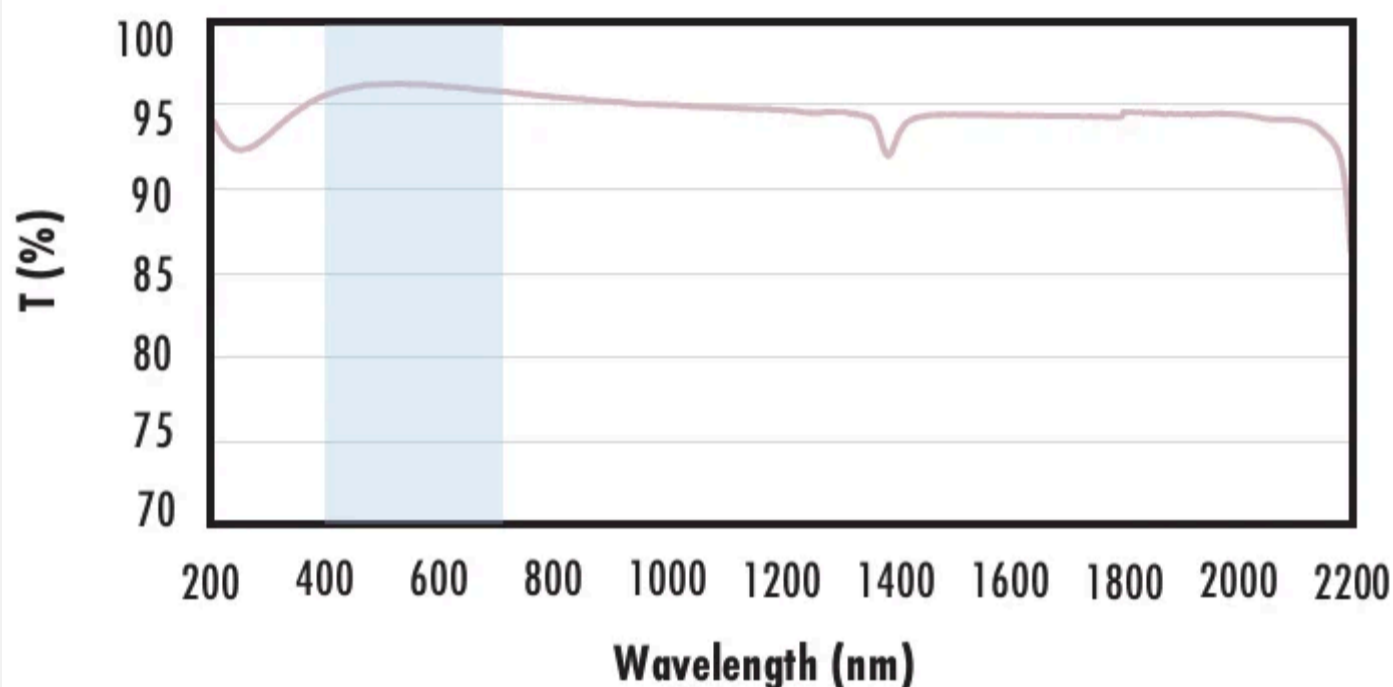
Uncoated Fused Silica Typical Transmission



Typical transmission of an 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 fused silica window with MgF₂ (400-700nm) coating at 0° AOI.

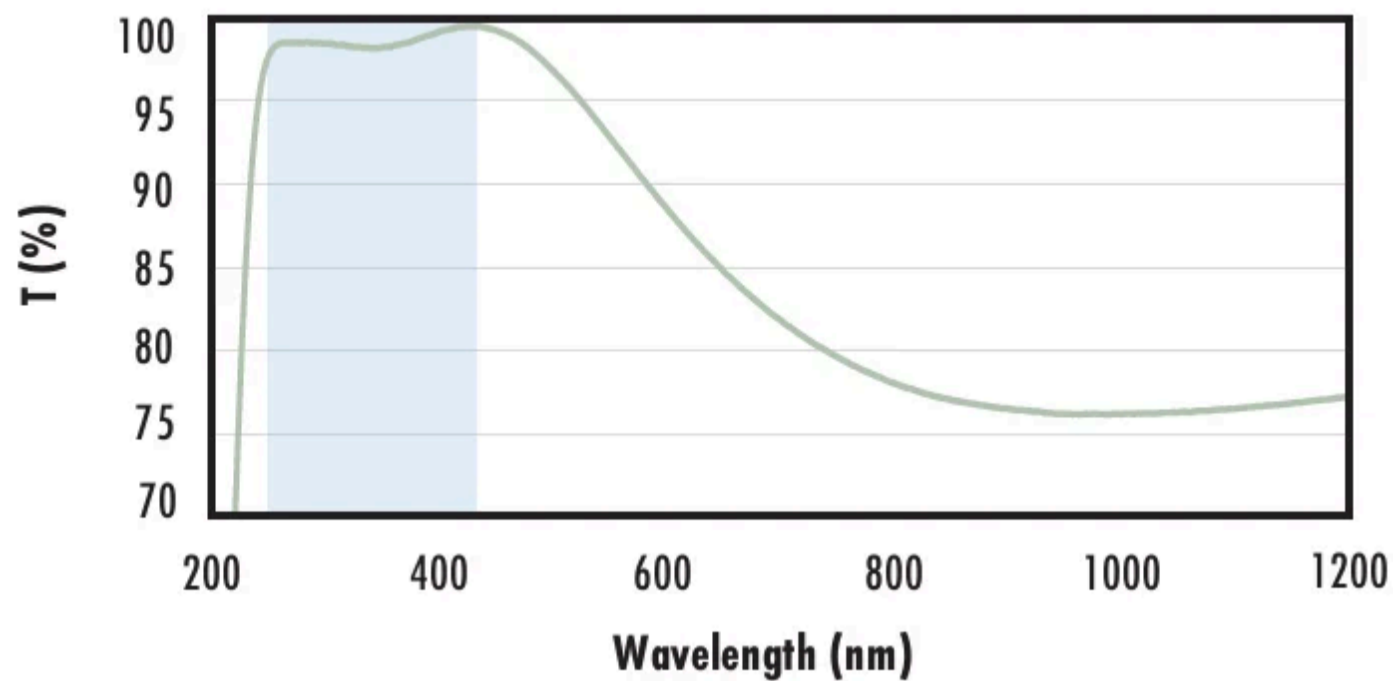
The blue shaded region indicates the coating design wavelength range, with the following specification:

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

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 fused silica window with UV (250-425nm) coating at 0° AOI.

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

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

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

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

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 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:

$$R_{abs} \leq 1.0\% \text{ @ } 350 - 450\text{nm}$$

$$R_{avg} \leq 1.5\% \text{ @ } 250 - 700\text{nm}$$

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 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:

$$R_{avg} \leq 0.5\% \text{ @ } 350 - 700\text{nm}$$

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 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:

$$R_{abs} \leq 0.25\% \text{ @ } 880\text{nm}$$

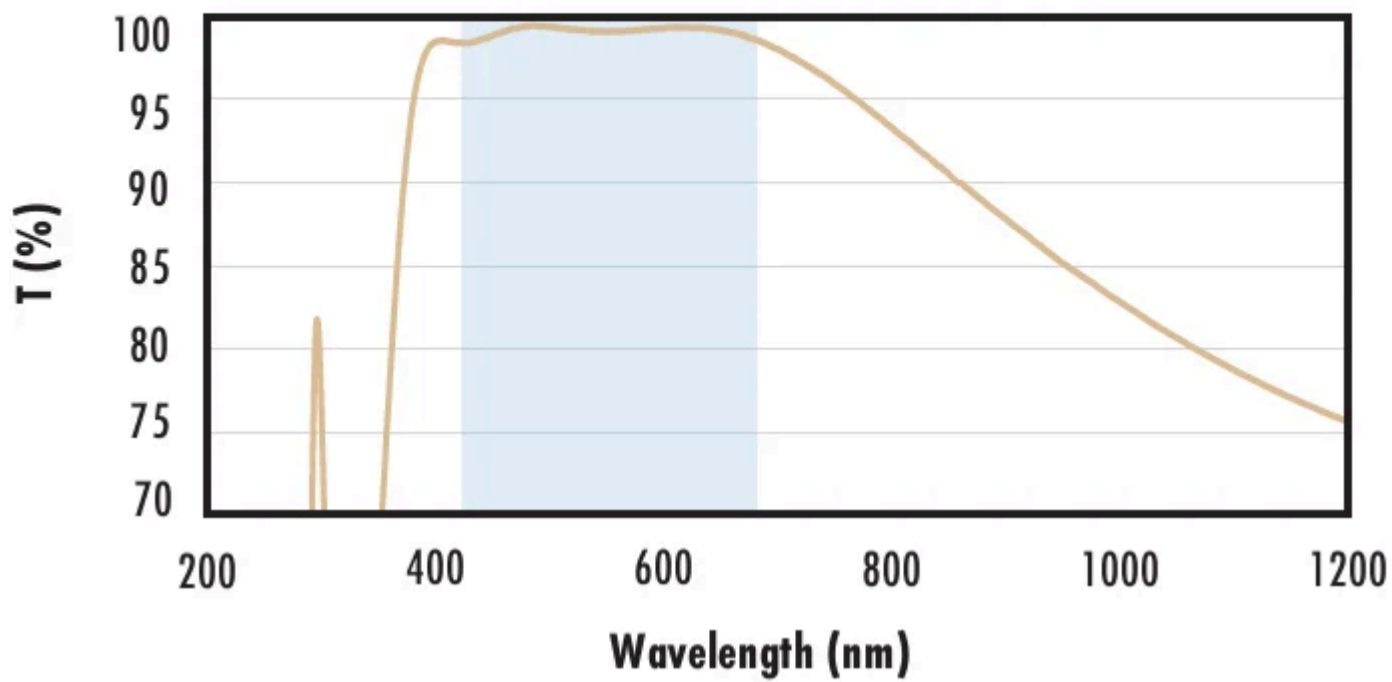
$$R_{avg} \leq 1.25\% \text{ @ } 400 - 870\text{nm}$$

$$R_{avg} \leq 1.25\% \text{ @ } 890 - 1000\text{nm}$$

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 fused silica window with VIS (425-675nm) coating at 0° AOI.

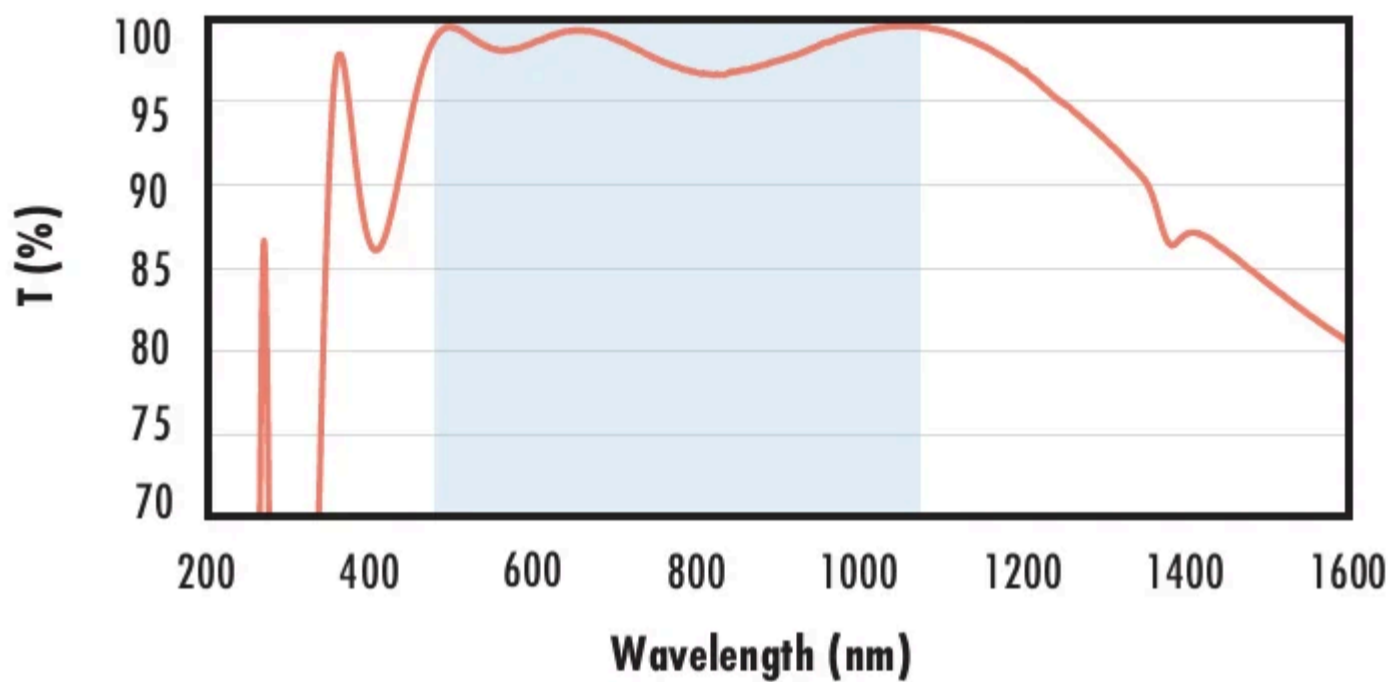
The blue shaded region indicates the coating design wavelength range, with the following specification:

$$R_{avg} \leq 0.4\% \text{ @ } 425 - 675\text{nm}$$

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 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:

$$R_{abs} \leq 0.25\% \text{ @ } 532\text{nm}$$

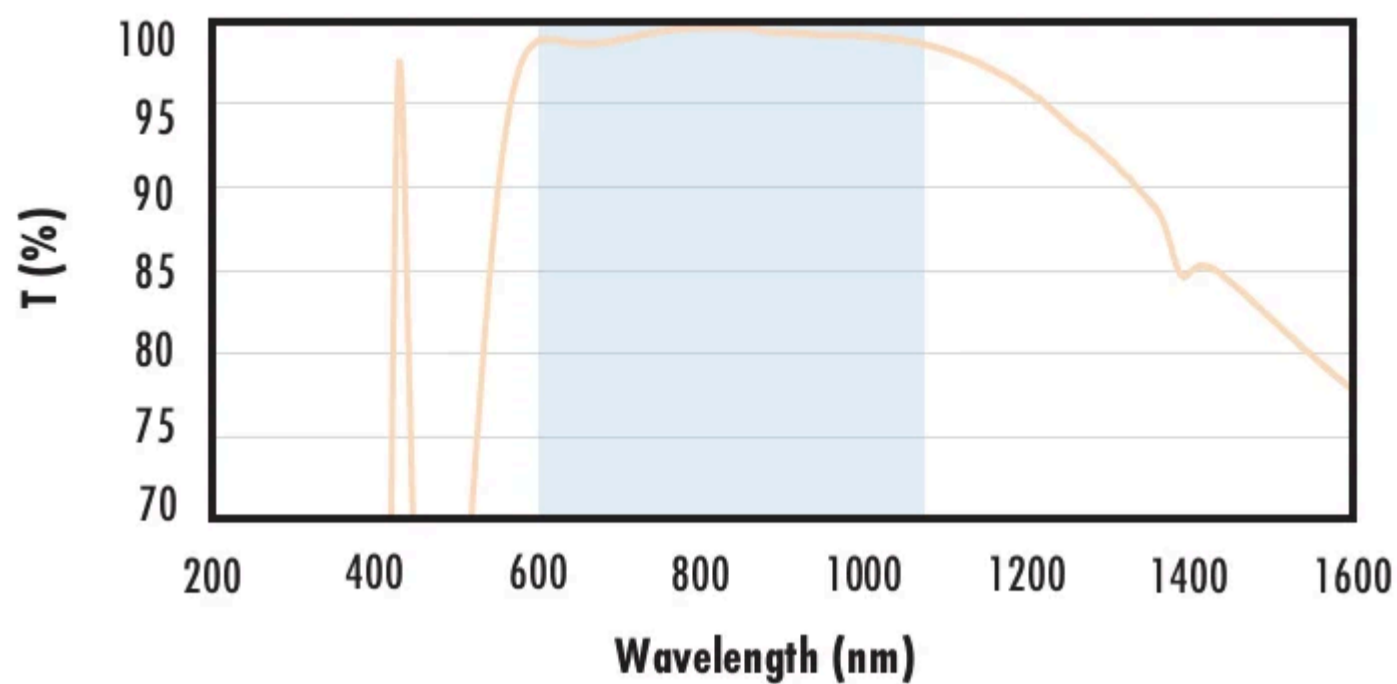
$$R_{abs} \leq 0.25\% \text{ @ } 1064\text{nm}$$

$$R_{avg} \leq 1.0\% \text{ @ } 500 - 1100\text{nm}$$

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 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:

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

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

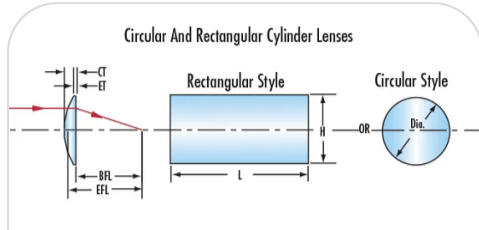
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- Published Article
- FAQ
- Glossary
- Video

Anti-Reflection (AR) Coatings

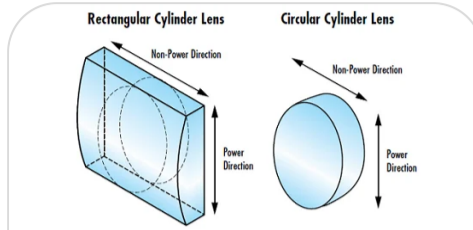
Laser Beam Shaping Overview

Non-Circular Optics for System Miniaturization



APPLICATION NOTE

What are Cylinder Lenses?



APPLICATION NOTE

Considerations When Using Cylinder Lenses



PUBLISHED ARTICLE

Cylinder Lenses for Beam Shaping

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