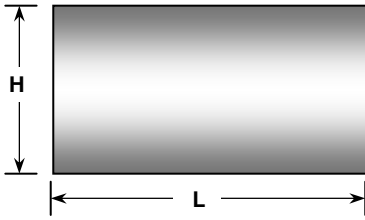


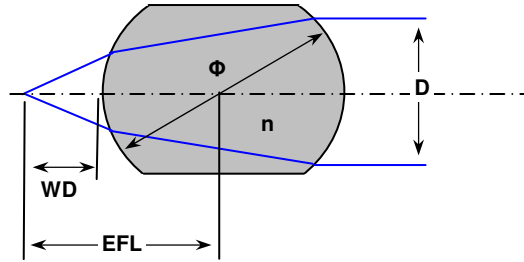
FUSED SILICA ROD LENSES

LENS DRAWING

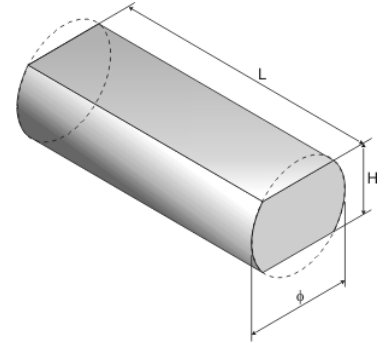
Front view



Side view



3D view



LENS DESIGN INFORMATION

| Ordering Code CYL_ROD_FS_Φ_H_L_AR(λ1-λ2) | Dimensions ¹ | | |
|---|-------------------------|--------|--------|
| | Φ | H | L |
| Material: Fused silica | | | |
| CYL_ROD_FS_0.200_H_L_AR(λ1-λ2) | 0.200 | custom | custom |
| CYL_ROD_FS_0.500_H_L_AR(λ1-λ2) | 0.500 | custom | custom |
| CYL_ROD_FS_0.550_H_L_AR(λ1-λ2) | 0.550 | custom | custom |
| CYL_ROD_FS_0.600_H_L_AR(λ1-λ2) | 0.600 | custom | custom |
| CYL_ROD_FS_1.000_H_L_AR(λ1-λ2) | 1.000 | custom | custom |
| CYL_ROD_FS_2.00_H_L_AR(λ1-λ2) | 2.00 | custom | custom |
| CYL_ROD_FS_2.50_H_L_AR(λ1-λ2) | 2.50 | custom | custom |
| | | | |
| | | | |
| | | | |
| | | | |

1. All units are mm

Refractive index vs. λ

| λ (nm) | 532 | 633 | 810 | 1064 | 1550 |
|--------|--------|--------|--------|--------|--------|
| n | 1.4607 | 1.4570 | 1.4531 | 1.4496 | 1.4440 |

Useful formulae

$$R = \Phi / 2$$

$$EFL = \frac{n \cdot R}{2 \cdot (n - 1)}$$

$$WD = \frac{EFL \cdot (2 - n)}{n}$$

$$D = 2 \cdot EFL \cdot NA$$

Legend

EFL: Effective focal length

Φ: Rod diameter

n: Refractive index

NA: Numerical aperture

H: Lens height

AR(λ₁ - λ₂): Anti-reflection coating wavelength range

WD: Working distance

L: Rod length

D: Beam diameter

R: Radius of curvature