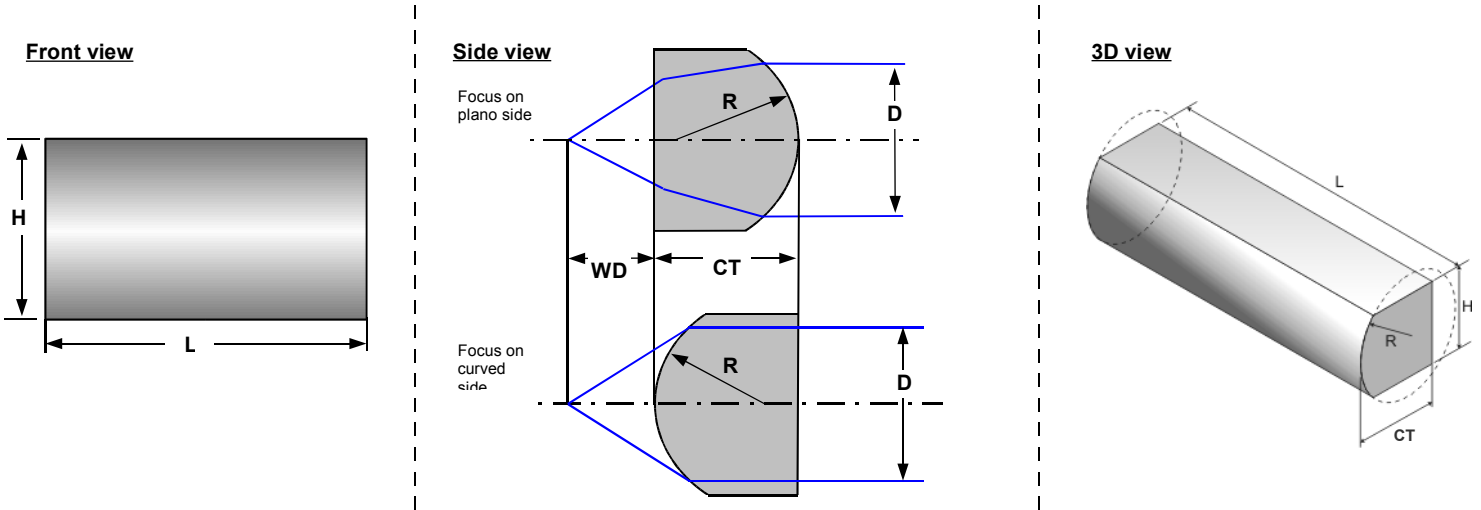


# Fused Silica Cut-Rod Lenses

## LENS DRAWING



## LENS DESIGN INFORMATIONS

Ordering Code CYL_CRO_FS_R_H_CT_L_AR( $\lambda_1$ - $\lambda_2$ )	Dimensions <sup>1</sup>			
	R	H	CT	L
Material: Fused silica				

<sup>1</sup>. All units are mm

### Refractive index vs. $\lambda$

$\lambda$ (nm)	532	633	810	1064	1550
n	1.4607	1.4570	1.4531	1.4496	1.4440

### Useful formulae

$$\Phi = 2 R$$

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

Focus on curved side:  $WD = EFL$

Focus on plano side:  $WD = EFL - CT / n$

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

Presently, most of our productions of cut-rod lenses are custom order.

Use the ordering code on the right to place an order or contact us for more information.

E-mail: [sales@doriclenses.com](mailto:sales@doriclenses.com)

Ordering code: CYL\_CRO\_FS\_R\_H\_CT\_L\_AR( $\lambda_1$ - $\lambda_2$ )

- CYL: Cylindrical lenses
- CRO: Cut-rod lens code
- FS: Material: Fused silica
- R: Rod radius (mm)
- H: Lens height (mm)
- CT: Central thickness (mm)
- L: Lens length (mm)
- AR( $\lambda_1$ - $\lambda_2$ ): Anti-reflection coating wavelength range (nm)

### Legend

- EFL: Effective focal length
- $\Phi$ : Rod diameter
- L: Rod length
- NA: Numerical aperture
- R: Rod radius
- n: Refractive index
- WD: Working distance
- H: Lens height
- AR( $\lambda_1$  -  $\lambda_2$ ): Anti-reflection coating wavelength range
- D: Beam diameter
- CT: Central thickness

